

MAXIMUM POWER TEST ANGAMOS UNIT 2

# Result Maximum Power Test Angamos Unit 2




By order of AES Gener Chile

**Report no.:** 15-3246

**Date:** 2015-11-02



|                    |  |                            |
|--------------------|--|----------------------------|
| Project name:      | Maximum Power Test Angamos Unit 2        | DNV GL - Energy            |
| Report title:      | Result Maximum Power Test Angamos Unit 2 | KEMA Nederland B.V.        |
| Customer:          | By order of AES Gener Chile              | Utrechtseweg 310           |
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| Project No.:       | 74108301                                 |                            |
| Organisation unit: | CES/PTM                                  |                            |
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|   |   |   |
|---|---|---|
| Prepared by:  | Verified by:  | Approved by:  |
| R. Tim  | M.J.G. Snippert   | L.B.M. van Kessel   |
|  |  |  |

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- Unrestricted distribution within DNV GL
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- Secret

Reference to part of this report which may lead to misinterpretation is not permissible.

| Rev. No. | Date       | Reason for Issue | Prepared by | Verified by     | Approved by      |
|----------|------------|------------------|-------------|-----------------|------------------|
| 0        | 2015-11-02 | First issue      | R. Tim      | M.J.G. Snippert | L.B.M. v. Kessel |

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## EXECUTIVE SUMMARY

### Project

In close cooperation and by order of AES Gener, maximum power test and performance tests at Angamos Unit 2, as per CDEC-SING requirement, have been conducted by DNV GL in the period from the 26<sup>th</sup> of October 2015 until the 29<sup>th</sup> of October 2015.

The maximum power test was performed on the 26<sup>th</sup> of October 2015. The duration of the test was five hours, from 11:00 till 16:00.

### Purpose

The purpose of the maximum power test is to determine the maximum power of the unit as per specification "Procedimiento DO: Pruebas de Potencia Máxima en Unidades Generadoras" .

### Report

In this report the result is presented of the achieved maximum gross power of Angamos Unit 2, during the five hour test.

### Result

In table 1 the main result of the maximum power test of Angamos Unit 2 is presented.

**Table 1 Maximum Gross Power of Angamos Unit#2**

| HORA                   | POTENCIA EN MW |       |                    |
|------------------------|----------------|-------|--------------------|
|                        | BRUTA          | SS/AA | NETA=(BRUTA-SS/AA) |
| 12:00                  | 281.26         | 23.69 | 257.58             |
| 13:00                  | 281.79         | 23.79 | 258.00             |
| 14:00                  | 281.82         | 23.80 | 258.01             |
| 15:00                  | 281.39         | 23.85 | 257.54             |
| 16:00                  | 280.89         | 23.83 | 257.06             |
| PROMEDIO (11:00-16:00) | 281.43         | 23.79 | 257.64             |

### Conclusion

The achieved maximum gross power of Angamos Unit 2, during the five hour test of the 26<sup>th</sup> of October 2015, is **281.43 MW**.

### Technical Remark concerning correction to nominal site conditions

Although not specific mentioned in the CDEC-SING specification, in our opinion the measured maximum power of the unit has to be corrected to defined reference site conditions.

In our opinion specific defined reference conditions also have to be applied for other units of the electricity companies, falling under the same CDEC-SING regulations.

## 1 INTRODUCTION

In close cooperation and by order of AES Gener, maximum power test and performance tests at Angamos Unit 2 have been conducted by DNV GL in the period from the 26<sup>th</sup> of October 2015 until the 29<sup>th</sup> of October 2015, as per CDEC-SING requirement.

The maximum power test was performed on the 26<sup>th</sup> of October 2015; the duration of the test was five hours, from 11:00 till 16:00.

The gross power of the generator was measured by means of the plant kWh counter, with 15 minutes interval. This gross power metering system consists of 0.2% class PT's, 0.2% class CT's and 0.2% power meter; the metering system is in compliance with the required 1.0% class or better. The calibration certificate of this gross power metering system is added in Appendix A.

Reference values were monitored by the DCS system; the ambient condition in the vicinity of the cooling tower was measured by means of the temporary installed DNV GL weather station and data log system.

The plant was operated on load control with the nominal control settings and process settings. The frequency control of the unit was disabled, as per CDEC-SING requirement. No specific process limits were monitored during the tests.

The following external representatives were present during the maximum power test:

CDEC-SING : Mr. Sergio Pizarro  
                  : Mr. Eduardo González

## 2 TEST PROGRAM MAXIMUM POWER TEST

**Table 2.1 Test program maximum power test**

|             |             |
|-------------|-------------|
| <b>Test</b> | <b>100%</b> |
| Date        | 26-10-2015  |
| Time begin  | 11:00       |
| Time end    | 16:00       |

## 3 RESULTS

In the following Annexes the main detail information/results are presented:

Appendix A: Calibration certificate gross power metering system  
Appendix B: Results kWh counter gross power generator (15 min counter)  
Appendix C: Ambient conditions DNVGL weather station and cooling water temp. (1 min. interval)  
Appendix D: DCS measurements (5 sec. interval)

In table 5.1 the results of the maximum power test is summarised.

In table 5.2 the average value, the minimum, the maximum and standard deviation are presented of additional reference measurements. Each separate measurement scan is presented in Appendix C and D.

**Table 5.1 Overview main result**

| <b>Point Number</b> | <b>Maximum Power Test</b>              | <b>Unit</b> | <b>100%</b>   |
|---------------------|--|-------------|---------------|
| DNVGL               | Date                                   |             | 26-10-2015    |
|                     | Time begin                             |             | 11:00         |
|                     | Time end                               |             | 16:00         |
|                     | <b>Ambient Conditions</b>              |             |               |
| @3001               | P Ambient Pressure                     | mbar        | 1009.0        |
| @3002               | T Ambient Temperature                  | °C          | 19.96         |
| @0082               | X Relative Humidity                    | %           | 64.43         |
| @0966               | <b>Pe Maximum Gross Power Measured</b> | MW          | <b>281.43</b> |

**Table 5.2 Additional reference values**

| <b>Maximum Power Test</b>         |             | <b>100%</b>    |                           |                |                |
|-----------------------------------|-------------|----------------|---------------------------|----------------|----------------|
| Date                              |             | 26-10-2015     |                           |                |                |
| Time begin                        |             | 11:00          |                           |                |                |
| Time end                          |             | 16:00          |                           |                |                |
|                                   | <b>Unit</b> | <b>Average</b> | <b>Standard Deviation</b> | <b>Maximum</b> | <b>Minimum</b> |
| Ambient Temperature (DNV GL)      | °C          | 19.96          | 0.50                      | 21.26          | 18.71          |
| Humidity (DNV GL)                 | %           | 64.43          | 2.61                      | 72.07          | 58.85          |
| Ambient Pressure (DNV GL)         | bar         | 1.0090         | 0.0005                    | 1.0098         | 1.0079         |
| Cool Water Temperature (DNV GL)   | °C          | 25.57          | 0.28                      | 25.88          | 24.64          |
| Gross Power Generator (DCS)       | MW          | 280.5          | 0.7                       | 282.7          | 277.9          |
| Reactive Power (DCS)              | Mvar        | 10.00          | 2.22                      | 16.92          | 3.11           |
| Power Factor (DCS)                | -           | 0.999          | 0.000                     | 1.000          | 0.998          |
| Speed (DCS)                       | rpm         | 3005.0         | 8.4                       | 3024.7         | 2980.2         |
| Voltage Generator (DCS)           | kV          | 17.49          | 0.03                      | 17.59          | 17.42          |
| Frequency Generator (DCS)         | Hz          | 50.02          | 0.13                      | 50.30          | 49.67          |
| HP Valve Position (DCS)           | %           | 84.36          | 2.32                      | 89.87          | 77.33          |
| IP Valve Position (DCS)           | %           | 100.00         | 0.00                      | 100.00         | 100.00         |
| HP steam Pressure (DCS)           | bar         | 161.7          | 0.5                       | 162.8          | 160.4          |
| HP steam Temperature (DCS)        | °C          | 560.7          | 2.0                       | 565.1          | 557.1          |
| IP steam Pressure (DCS)           | bar         | 41.23          | 0.10                      | 41.50          | 40.98          |
| IP steam Temperature (DCS)        | °C          | 565.7          | 0.9                       | 568.1          | 562.3          |
| Outlet Boiler Temperature A (DCS) | °C          | 382.6          | 2.7                       | 385.5          | 376.3          |
| Outlet Boiler Temperature B (DCS) | °C          | 386.1          | 3.4                       | 391.1          | 379.0          |



## APPENDIX A

### Certificate Gross Power Metering System

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**ANEXO**  
**SISTEMAS DE MEDIDAS PARA VALORIZACIÓN DE TRANSFERENCIAS**  
**FORMULARIO DE REGISTRO DE INFORMACIÓN**

**1. INFORMACIÓN GENERAL:**

|                               |                                |
|-------------------------------|--------------------------------|
| S/E O CLIENTE                 |                                |
| CENTRAL                       | ANGAMOS                        |
| PROPIETARIO                   | AES-GENER                      |
| NIVEL DE TENSIÓN DE LA MEDIDA | 18.000 VOLT                    |
| OTROS (Nombre Medidor)        | UNIDAD 2 –GROSS GENERADOR-MAIN |

**2. INFORMACIÓN TT/CC (CT5):**

|   |                 |           |           |
|---|-----------------|-----------|-----------|
| MARCA (MANUFACTURE)                     | ALFA STANDARD   |           |           |
| TIPO MODELO (MODEL)                     | AON-M           |           |           |
| NUMEROS DE SERIE (SERIES NUMBER)        | 345890204       | 345890205 | 345890206 |
| RAZON DE TRANSFORMACIÓN (RATIO)         | 2400            |           |           |
| PRIMARY CURRENT / SECONDARY CURRENT (A) | 12000 / 5       |           |           |
| CLASE DE PRECISION Y NORMA (CLASS)      | 0,2 IEC         |           |           |
| POTENCIA NOMINAL (BURDEN) VA            | 50              |           |           |
| OTROS                                   | X4MKA 01 GT 005 |           |           |
| Plano: 0-WD490-EE166-00200              | Pàg_12          |           |           |

**3. INFORMACIÓN TT/PP (VT1):**

|                                     |                                      |          |          |
|-------------------------------------|--------------------------------------|----------|----------|
| MARCA (MANUFACTURE)                 | CGS                                  |          |          |
| TIPO MODELO (MODEL)                 | UKM24/3                              |          |          |
| NUMEROS SERIE (SERIES NUMBER)       | 450750801                            | 45075802 | 45075803 |
| RAZON DE TRANSFORMACIÓN (RATIO)     | 156,5                                |          |          |
| CLASE DE PRECISIÓN Y NORMA          | 0,2 IEC                              |          |          |
| PRIMARY VOLTAGE / SECONDARY VOLTAGE | 18000 / $\sqrt{3}$ / 115/ $\sqrt{3}$ |          |          |
| POTENCIA NOMINAL (BURDEN)           | 50                                   |          |          |
| OTROS                               |                                      |          |          |
| Plano: 0-WD490-EE166-00200          | Pàg_14                               |          |          |

**4. INFORMACIÓN EQUIPO DE MEDIDA:**

|                                    |                           |
|------------------------------------|---------------------------|
| MARCA (MANUFACTURE)                | SCHNEIDER ELECTRIC        |
| TIPO O MODELO (MODEL)              | ION 8600B4                |
| NUMERO SERIE (SERIE NUMBER)        | MT-1001 A 720-01          |
| CLASE DE PRECISION Y NORMA (CLASS) | 0.2                       |
| CUADRANTES DE MEDIDA               | 4                         |
| CONFIGURACIÓN                      |                           |
| CONSTANTES DE MULTIPLICACIÓN       | 2400 x 156.52 (KTA x KTV) |
| CONSTANTES DEL EMISOR DE IMPULSOS  | 1.8 ( Wh/Imp )            |
| TIPOS DE LECTURA (REMOTA/LOCAL)    |                           |
| OTROS                              |                           |

**5. ANEXOS (INCLUIR COPIAS):**

|   |                      |
|---|----------------------|
| DIAGRAMA UNILINEAL DE LA CONEXION                                       |                      |
| INFORMACIÓN TÉCNICA DE FABRICA  |                      |
| PROTOCOLOS DE PUESTA EN SERVICIO  | SE ADJUNTA PROTOCOLO |
| PROTOCOLOS DE REGISTROS DE INTERVENCIÓN DE LAS 2 ÚLTIMAS VERIFICACIONES | MEDIDOR NUEVO        |



## CERTIFICADO DE EXACTITUD DEL MEDIDOR

|                                   |                 |                                   |                    |
|-----------------------------------|-----------------|-----------------------------------|--------------------|
| <b>FECHA SERVICIO</b>             | 01/12/2010      | <b>IDENTIFICACIÓN DEL MEDIDOR</b> |                    |
| <b>IDENTIFICACIÓN DEL CLIENTE</b> |                 | <b>Marca</b>                      | SCHNEIDER ELECTRIC |
| <b>Nombre</b>                     | POSCO E & C     | <b>Tipo</b>                       | ION 8600B          |
| <b>Sub Estación</b>               | CENTRAL ANGAMOS | <b>Número de Serie</b>            | MT-1001A720-01     |
| <b>PATRÓN DE REFERENCIA</b>       |                 | <b>Ubicación</b>                  | UNIDAD 2           |
| <b>Consola</b>                    | MTE PTS 3.3     | <b>Clase de Exactitud</b>         | 0,2 %              |
| <b>Clase de Exactitud</b>         | +/- 0,05        | <b>Estado</b>                     | NUEVO              |

|                                      |                              |                          |              |
|--------------------------------------|------------------------------|--------------------------|--------------|
| <b>CONDICIONES DE LA MEDIDA</b>      |                              |                          |              |
| <b>Tipo de Medida</b>                | ESTRELLA                     | <b>Constante Medidor</b> | 1,8 [Wh/Imp] |
| <b>Tensión Aplicada</b>              | 3 x 63.5 (115) [V] - 50 [Hz] | <b>Temperatura</b>       | AMBIENTE     |
| <b>Corriente Nominal</b>             | 3 x 5 (10) [A]               | <b>N° de Elementos</b>   | 3            |
| <b>RESULTADOS DE LA VERIFICACIÓN</b> |                              | <b>Conexión</b>          | DIRECTA      |

| Componente Activa |      |          |        |           |                  | Componente Reactiva |      |          |        |           |                  |
|-------------------|------|----------|--------|-----------|------------------|---------------------|------|----------|--------|-----------|------------------|
| Nº                | Fase | Cte. [%] | Factor | Error [%] | Límite Norma [%] | Nº                  | Fase | Cte. [%] | Factor | Error [%] | Límite Norma [%] |
| 1                 | 123  | 100      | 1,0    | -0,079    | +/- 0,2          | 1                   | 123  | 100      | 1,0    | -0,07     | +/- 2,0          |
| 2                 | 123  | 100      | 0,5    | -0,066    | +/- 0,3          | 2                   | 123  | 100      | 0,5    | -0,049    | +/- 2,0          |
| 3                 | 123  | 10       | 1,0    | -0,082    | +/- 0,2          | 3                   | 123  | 10       | 1,0    | -0,062    | +/- 2,0          |
| 4                 | 1    | 100      | 1,0    | -0,087    | +/- 0,3          | 4                   | 1    | 100      | 1,0    | -0,051    | +/- 3,0          |
| 5                 | 2    | 100      | 1,0    | -0,048    | +/- 0,3          | 5                   | 2    | 100      | 1,0    | -0,058    | +/- 3,0          |
| 6                 | 3    | 100      | 1,0    | -0,069    | +/- 0,3          | 6                   | 3    | 100      | 1,0    | -0,047    | +/- 3,0          |
| 7                 | 1    | 100      | 0,5    | -0,089    | +/- 0,4          | 7                   | 1    | 100      | 0,5    | -0,044    | +/- 3,0          |
| 8                 | 2    | 100      | 0,5    | -0,055    | +/- 0,4          | 8                   | 2    | 100      | 0,5    | -0,068    | +/- 3,0          |
| 9                 | 3    | 100      | 0,5    | -0,044    | +/- 0,4          | 9                   | 3    | 100      | 0,5    | -0,028    | +/- 3,0          |

|  |  |
|--|--|
| Cumple Clausula 8.1 Norma IEC 62053-22 Clase 0,2 | Cumple Clausula 8.1 Norma IEC 62053-23 Clase 2 |
|--|--|

|                           |                        |             |                         |        |
|---------------------------|------------------------|-------------|-------------------------|--------|
| <b>Energía en Display</b> | <b>Tipo de Display</b> | ELECTRONICO | <b>Error en Display</b> | -0,003 |
|---------------------------|------------------------|-------------|-------------------------|--------|

### CONCLUSIONES

El medidor cumple con la cláusula 8.1 de la Norma IEC 62053-22 referente a los límites de error para su clase de exactitud, en la componente Activa.  
 El medidor cumple con la cláusula 8.1 de la Norma IEC 62053-23 referente a los límites de error para su clase de exactitud, en la componente Reactiva.

**FECHA SERVICIO** 01/12/2010

**IDENTIFICACIÓN DEL MEDIDOR**
**IDENTIFICACIÓN DEL CLIENTE**
**Nombre** POSCO E & C

**Sub Estación** CENTRAL ANGAMOS

**Marca** SCHNEIDER ELECTRIC

**Tipo** ION 8600B

**Número de Serie** MT-1001A720-01

**Ubicación** UNIDAD 2

**PATRÓN DE REFERENCIA**
**Consola** MTE PTS 3.3

**Clase de Exactitud** +/- 0,05

**Clase de Exactitud** 0,2 %

**Estado** NUEVO

**CONDICIONES DE LA MEDIDA**
**Tipo de Medida** ESTRELLA

**Tensión Aplicada** 3 x 63.5 (115) [V] - 50 [Hz]

**Corriente Nominal** 3 x 5 (10) [A]

**Constante Medidor** 1,8 [Wh/Imp]

**Temperatura** AMBIENTE

**N° de Elementos** 3

**RESULTADOS DE LA VERIFICACIÓN**
**Conexión** REVERSA

**Componente Activa**

| Nº | Fase | Cte.[%] | Factor | Error [%] | Límite Norma [%] |
|----|------|---------|--------|-----------|------------------|
| 1  | 123  | 100     | 1,0    | -0,063    | +/- 0,2          |
| 2  | 123  | 100     | 0,5    | -0,076    | +/- 0,3          |
| 3  | 123  | 10      | 1,0    | -0,069    | +/- 0,2          |
| 4  | 1    | 100     | 1,0    | -0,078    | +/- 0,3          |
| 5  | 2    | 100     | 1,0    | -0,050    | +/- 0,3          |
| 6  | 3    | 100     | 1,0    | -0,043    | +/- 0,3          |
| 7  | 1    | 100     | 0,5    | -0,064    | +/- 0,4          |
| 8  | 2    | 100     | 0,5    | -0,035    | +/- 0,4          |
| 9  | 3    | 100     | 0,5    | -0,054    | +/- 0,4          |

**Componente Reactiva**

| Nº | Fase | Cte. [%] | Factor | Error [%] | Límite Norma [%] |
|----|------|----------|--------|-----------|------------------|
| 1  | 123  | 100      | 1,0    | -0,038    | +/- 2,0          |
| 2  | 123  | 100      | 0,5    | -0,042    | +/- 2,0          |
| 3  | 123  | 10       | 1,0    | -0,060    | +/- 2,0          |
| 4  | 1    | 100      | 1,0    | -0,039    | +/- 3,0          |
| 5  | 2    | 100      | 1,0    | -0,053    | +/- 3,0          |
| 6  | 3    | 100      | 1,0    | -0,037    | +/- 3,0          |
| 7  | 1    | 100      | 0,5    | -0,035    | +/- 3,0          |
| 8  | 2    | 100      | 0,5    | -0,061    | +/- 3,0          |
| 9  | 3    | 100      | 0,5    | -0,017    | +/- 3,0          |

Cumple Clausula 8.1 Norma IEC 62053-22 Clase 0,2

Cumple Clausula 8.1 Norma IEC 62053-23 Clase 2

**CONCLUSIONES**

El medidor cumple con la cláusula 8.1 de la Norma IEC 62053-22 referente a los límites de error para su clase de exactitud, en la componente Activa.

El medidor cumple con la cláusula 8.1 de la Norma IEC 62053-23 referente a los límites de error para su clase de exactitud, en la componente Reactiva.

Certificado emitido por Compañía Americana de Multiservicios.  
Equipos Certificados y Verificados con Patrones bajo laboratorio  
Normados en ISO 9001:2000 y NCh - ISO 17025



Víctor Maldonado Valdebenito  
Supervisor Técnico  
Unidad SS/EE y Monitoreos

## APPENDIX B

### Results kWh Counter Gross Power Measurement (15 min interval)

| ENERGIA BRUTA GENERADA UNIDAD #2 |          |
|----------------------------------|----------|
| DATE/TIME                        | kWh del  |
| 26-10-2015 16:00:00.000          | 91856520 |
| 26-10-2015 15:45:00.000          | 91786448 |
| 26-10-2015 15:30:00.000          | 91716328 |
| 26-10-2015 15:15:00.000          | 91645992 |
| 26-10-2015 15:00:00.000          | 91575632 |
| 26-10-2015 14:45:00.000          | 91505264 |
| 26-10-2015 14:30:00.000          | 91434952 |
| 26-10-2015 14:15:00.000          | 91364616 |
| 26-10-2015 14:00:00.000          | 91294240 |
| 26-10-2015 13:45:00.000          | 91223840 |
| 26-10-2015 13:30:00.000          | 91153424 |
| 26-10-2015 13:15:00.000          | 91082936 |
| 26-10-2015 13:00:00.000          | 91012424 |
| 26-10-2015 12:45:00.000          | 90941888 |
| 26-10-2015 12:30:00.000          | 90871392 |
| 26-10-2015 12:15:00.000          | 90801000 |
| 26-10-2015 12:00:00.000          | 90730632 |
| 26-10-2015 11:45:00.000          | 90660264 |
| 26-10-2015 11:30:00.000          | 90589936 |
| 26-10-2015 11:15:00.000          | 90519696 |
| 26-10-2015 11:00:00.000          | 90449368 |



## APPENDIX C

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### DNV GL Ambient conditions weather station and cooling water inlet temperature condenser (1 minute interval)

| Date      | Time  | Ambient Conditions |            |              | Inlet Cool Water Temperature °C |
|-----------|-------|--------------------|------------|--------------|---------------------------------|
|           |       | Temperature °C     | Humidity % | Pressure bar |                                 |
| 26-Oct-15 | 11:00 | 19.33              | 70.62      | 1.00958      | 24.66                           |
| 26-Oct-15 | 11:01 | 19.57              | 70.85      | 1.00955      | 24.67                           |
| 26-Oct-15 | 11:02 | 19.48              | 68.67      | 1.00954      | 24.64                           |
| 26-Oct-15 | 11:03 | 19.07              | 65.80      | 1.00953      | 24.72                           |
| 26-Oct-15 | 11:04 | 19.21              | 68.34      | 1.00954      | 24.66                           |
| 26-Oct-15 | 11:05 | 19.20              | 67.28      | 1.00961      | 24.70                           |
| 26-Oct-15 | 11:06 | 19.58              | 68.30      | 1.00963      | 24.66                           |
| 26-Oct-15 | 11:07 | 19.67              | 67.65      | 1.00962      | 24.76                           |
| 26-Oct-15 | 11:08 | 19.63              | 67.80      | 1.00952      | 24.79                           |
| 26-Oct-15 | 11:09 | 19.33              | 66.41      | 1.00952      | 24.75                           |
| 26-Oct-15 | 11:10 | 19.54              | 68.78      | 1.00947      | 24.75                           |
| 26-Oct-15 | 11:11 | 19.33              | 66.93      | 1.00958      | 24.75                           |
| 26-Oct-15 | 11:12 | 19.55              | 68.01      | 1.00948      | 24.85                           |
| 26-Oct-15 | 11:13 | 19.49              | 67.32      | 1.00955      | 24.94                           |
| 26-Oct-15 | 11:14 | 19.51              | 65.74      | 1.00941      | 24.97                           |
| 26-Oct-15 | 11:15 | 19.56              | 65.31      | 1.00949      | 24.95                           |
| 26-Oct-15 | 11:16 | 19.66              | 64.97      | 1.00951      | 25.07                           |
| 26-Oct-15 | 11:17 | 19.44              | 64.47      | 1.00941      | 24.99                           |
| 26-Oct-15 | 11:18 | 19.64              | 68.14      | 1.00944      | 25.07                           |
| 26-Oct-15 | 11:19 | 19.33              | 64.69      | 1.00938      | 25.05                           |
| 26-Oct-15 | 11:20 | 19.70              | 66.32      | 1.00949      | 25.01                           |
| 26-Oct-15 | 11:21 | 19.91              | 66.77      | 1.00939      | 25.08                           |
| 26-Oct-15 | 11:22 | 20.14              | 68.43      | 1.00955      | 25.05                           |
| 26-Oct-15 | 11:23 | 19.69              | 63.77      | 1.00954      | 25.06                           |
| 26-Oct-15 | 11:24 | 20.01              | 63.73      | 1.00954      | 25.12                           |
| 26-Oct-15 | 11:25 | 19.84              | 62.58      | 1.00950      | 25.08                           |
| 26-Oct-15 | 11:26 | 19.59              | 61.62      | 1.00940      | 25.10                           |
| 26-Oct-15 | 11:27 | 19.79              | 61.83      | 1.00940      | 25.05                           |
| 26-Oct-15 | 11:28 | 20.54              | 63.17      | 1.00939      | 25.07                           |
| 26-Oct-15 | 11:29 | 20.05              | 62.74      | 1.00922      | 25.02                           |
| 26-Oct-15 | 11:30 | 20.05              | 61.60      | 1.00937      | 25.10                           |
| 26-Oct-15 | 11:31 | 20.02              | 59.87      | 1.00942      | 25.12                           |
| 26-Oct-15 | 11:32 | 19.58              | 59.20      | 1.00935      | 25.17                           |
| 26-Oct-15 | 11:33 | 19.18              | 59.68      | 1.00931      | 25.16                           |
| 26-Oct-15 | 11:34 | 19.23              | 64.91      | 1.00940      | 25.18                           |
| 26-Oct-15 | 11:35 | 19.36              | 67.70      | 1.00931      | 25.22                           |
| 26-Oct-15 | 11:36 | 18.71              | 66.05      | 1.00917      | 25.17                           |
| 26-Oct-15 | 11:37 | 19.83              | 71.72      | 1.00935      | 25.24                           |
| 26-Oct-15 | 11:38 | 19.81              | 68.06      | 1.00919      | 25.26                           |
| 26-Oct-15 | 11:39 | 19.54              | 68.02      | 1.00931      | 25.20                           |
| 26-Oct-15 | 11:40 | 19.41              | 67.10      | 1.00934      | 25.21                           |
| 26-Oct-15 | 11:41 | 18.73              | 63.36      | 1.00930      | 25.22                           |
| 26-Oct-15 | 11:42 | 19.21              | 69.50      | 1.00934      | 25.20                           |
| 26-Oct-15 | 11:43 | 19.24              | 67.58      | 1.00920      | 25.26                           |
| 26-Oct-15 | 11:44 | 18.94              | 65.98      | 1.00927      | 25.26                           |
| 26-Oct-15 | 11:45 | 19.64              | 66.26      | 1.00943      | 25.20                           |
| 26-Oct-15 | 11:46 | 19.07              | 65.23      | 1.00942      | 25.22                           |
| 26-Oct-15 | 11:47 | 19.50              | 65.93      | 1.00942      | 25.25                           |
| 26-Oct-15 | 11:48 | 19.49              | 64.61      | 1.00943      | 25.32                           |
| 26-Oct-15 | 11:49 | 19.45              | 68.12      | 1.00941      | 25.24                           |
| 26-Oct-15 | 11:50 | 19.50              | 69.02      | 1.00949      | 25.28                           |
| 26-Oct-15 | 11:51 | 20.01              | 70.48      | 1.00944      | 25.31                           |
| 26-Oct-15 | 11:52 | 19.40              | 68.97      | 1.00937      | 25.31                           |
| 26-Oct-15 | 11:53 | 19.64              | 68.97      | 1.00947      | 25.32                           |
| 26-Oct-15 | 11:54 | 19.35              | 67.09      | 1.00939      | 25.39                           |
| 26-Oct-15 | 11:55 | 19.53              | 67.74      | 1.00942      | 25.35                           |
| 26-Oct-15 | 11:56 | 19.16              | 66.35      | 1.00947      | 25.40                           |
| 26-Oct-15 | 11:57 | 19.52              | 66.53      | 1.00952      | 25.39                           |
| 26-Oct-15 | 11:58 | 19.73              | 66.89      | 1.00947      | 25.41                           |
| 26-Oct-15 | 11:59 | 19.47              | 67.18      | 1.00963      | 25.36                           |
| 26-Oct-15 | 12:00 | 19.29              | 65.39      | 1.00965      | 25.45                           |
| 26-Oct-15 | 12:01 | 19.59              | 65.07      | 1.00950      | 25.45                           |
| 26-Oct-15 | 12:02 | 19.15              | 64.62      | 1.00961      | 25.44                           |
| 26-Oct-15 | 12:03 | 19.84              | 67.81      | 1.00963      | 25.49                           |
| 26-Oct-15 | 12:04 | 18.89              | 64.70      | 1.00956      | 25.40                           |
| 26-Oct-15 | 12:05 | 19.14              | 65.08      | 1.00961      | 25.44                           |
| 26-Oct-15 | 12:06 | 19.21              | 64.75      | 1.00958      | 25.48                           |
| 26-Oct-15 | 12:07 | 18.79              | 64.89      | 1.00948      | 25.44                           |
| 26-Oct-15 | 12:08 | 19.12              | 66.88      | 1.00957      | 25.50                           |
| 26-Oct-15 | 12:09 | 19.46              | 67.27      | 1.00955      | 25.41                           |
| 26-Oct-15 | 12:10 | 19.76              | 67.91      | 1.00965      | 25.42                           |
| 26-Oct-15 | 12:11 | 19.30              | 66.04      | 1.00961      | 25.40                           |
| 26-Oct-15 | 12:12 | 20.00              | 70.04      | 1.00950      | 25.46                           |
| 26-Oct-15 | 12:13 | 19.62              | 66.58      | 1.00965      | 25.48                           |
| 26-Oct-15 | 12:14 | 19.82              | 67.12      | 1.00968      | 25.50                           |
| 26-Oct-15 | 12:15 | 19.43              | 66.91      | 1.00976      | 25.54                           |
| 26-Oct-15 | 12:16 | 19.49              | 64.61      | 1.00978      | 25.56                           |
| 26-Oct-15 | 12:17 | 19.72              | 67.09      | 1.00969      | 25.60                           |
| 26-Oct-15 | 12:18 | 19.25              | 66.75      | 1.00971      | 25.58                           |
| 26-Oct-15 | 12:19 | 19.83              | 69.39      | 1.00966      | 25.51                           |
| 26-Oct-15 | 12:20 | 19.58              | 69.53      | 1.00973      | 25.58                           |
| 26-Oct-15 | 12:21 | 19.43              | 66.89      | 1.00962      | 25.57                           |
| 26-Oct-15 | 12:22 | 19.76              | 69.15      | 1.00958      | 25.54                           |
| 26-Oct-15 | 12:23 | 19.41              | 67.78      | 1.00975      | 25.50                           |
| 26-Oct-15 | 12:24 | 19.99              | 72.07      | 1.00973      | 25.58                           |
| 26-Oct-15 | 12:25 | 19.83              | 66.85      | 1.00973      | 25.54                           |
| 26-Oct-15 | 12:26 | 19.57              | 67.10      | 1.00976      | 25.54                           |
| 26-Oct-15 | 12:27 | 19.78              | 66.37      | 1.00969      | 25.64                           |
| 26-Oct-15 | 12:28 | 19.95              | 62.52      | 1.00971      | 25.63                           |
| 26-Oct-15 | 12:29 | 19.78              | 65.45      | 1.00974      | 25.61                           |
| 26-Oct-15 | 12:30 | 19.70              | 64.73      | 1.00974      | 25.61                           |
| 26-Oct-15 | 12:31 | 20.10              | 67.26      | 1.00967      | 25.66                           |
| 26-Oct-15 | 12:32 | 19.73              | 63.94      | 1.00968      | 25.74                           |
| 26-Oct-15 | 12:33 | 19.21              | 63.80      | 1.00962      | 25.71                           |
| 26-Oct-15 | 12:34 | 19.48              | 65.45      | 1.00964      | 25.68                           |
| 26-Oct-15 | 12:35 | 19.62              | 65.95      | 1.00967      | 25.64                           |
| 26-Oct-15 | 12:36 | 19.76              | 66.63      | 1.00965      | 25.57                           |
| 26-Oct-15 | 12:37 | 19.19              | 63.40      | 1.00956      | 25.54                           |
| 26-Oct-15 | 12:38 | 19.59              | 67.93      | 1.00961      | 25.55                           |
| 26-Oct-15 | 12:39 | 19.80              | 65.69      | 1.00955      | 25.61                           |
| 26-Oct-15 | 12:40 | 19.68              | 64.51      | 1.00960      | 25.59                           |
| 26-Oct-15 | 12:41 | 19.63              | 64.48      | 1.00957      | 25.63                           |
| 26-Oct-15 | 12:42 | 20.02              | 63.10      | 1.00960      | 25.64                           |
| 26-Oct-15 | 12:43 | 20.45              | 65.85      | 1.00958      | 25.60                           |
| 26-Oct-15 | 12:44 | 19.48              | 62.18      | 1.00965      | 25.66                           |
| 26-Oct-15 | 12:45 | 19.82              | 63.08      | 1.00960      | 25.68                           |
| 26-Oct-15 | 12:46 | 19.78              | 63.75      | 1.00961      | 25.69                           |
| 26-Oct-15 | 12:47 | 19.30              | 62.33      | 1.00953      | 25.77                           |
| 26-Oct-15 | 12:48 | 19.52              | 62.13      | 1.00949      | 25.82                           |
| 26-Oct-15 | 12:49 | 19.87              | 62.92      | 1.00956      | 25.71                           |
| 26-Oct-15 | 12:50 | 20.00              | 63.07      | 1.00953      | 25.67                           |
| 26-Oct-15 | 12:51 | 19.91              | 62.05      | 1.00947      | 25.66                           |
| 26-Oct-15 | 12:52 | 20.05              | 63.55      | 1.00941      | 25.65                           |
| 26-Oct-15 | 12:53 | 19.57              | 61.39      | 1.00940      | 25.61                           |
| 26-Oct-15 | 12:54 | 20.13              | 66.94      | 1.00940      | 25.59                           |
| 26-Oct-15 | 12:55 | 19.73              | 63.18      | 1.00934      | 25.61                           |
| 26-Oct-15 | 12:56 | 19.16              | 61.29      | 1.00931      | 25.57                           |
| 26-Oct-15 | 12:57 | 19.47              | 63.13      | 1.00935      | 25.66                           |

| Date      | Time  | Ambient Conditions |            |              | Inlet Cool Water Temperature °C |
|-----------|-------|--------------------|------------|--------------|---------------------------------|
|           |       | Temperature °C     | Humidity % | Pressure bar |                                 |
| 26-Oct-15 | 12:58 | 19.74              | 62.98      | 1.00929      | 25.59                           |
| 26-Oct-15 | 12:59 | 19.62              | 64.74      | 1.00937      | 25.64                           |
| 26-Oct-15 | 13:00 | 20.08              | 63.72      | 1.00934      | 25.66                           |
| 26-Oct-15 | 13:01 | 19.76              | 62.32      | 1.00931      | 25.61                           |
| 26-Oct-15 | 13:02 | 20.10              | 66.93      | 1.00931      | 25.64                           |
| 26-Oct-15 | 13:03 | 20.43              | 63.71      | 1.00934      | 25.58                           |
| 26-Oct-15 | 13:04 | 20.04              | 61.11      | 1.00937      | 25.63                           |
| 26-Oct-15 | 13:05 | 20.47              | 62.37      | 1.00936      | 25.63                           |
| 26-Oct-15 | 13:06 | 19.56              | 60.07      | 1.00921      | 25.64                           |
| 26-Oct-15 | 13:07 | 19.70              | 61.55      | 1.00927      | 25.63                           |
| 26-Oct-15 | 13:08 | 19.73              | 62.63      | 1.00934      | 25.58                           |
| 26-Oct-15 | 13:09 | 20.80              | 71.23      | 1.00933      | 25.60                           |
| 26-Oct-15 | 13:10 | 20.08              | 64.00      | 1.00930      | 25.60                           |
| 26-Oct-15 | 13:11 | 20.22              | 64.33      | 1.00931      | 25.59                           |
| 26-Oct-15 | 13:12 | 20.04              | 62.14      | 1.00929      | 25.58                           |
| 26-Oct-15 | 13:13 | 20.74              | 66.71      | 1.00932      | 25.64                           |
| 26-Oct-15 | 13:14 | 20.59              | 64.42      | 1.00931      | 25.58                           |
| 26-Oct-15 | 13:15 | 19.65              | 62.12      | 1.00918      | 25.66                           |
| 26-Oct-15 | 13:16 | 19.43              | 62.25      | 1.00933      | 25.68                           |
| 26-Oct-15 | 13:17 | 20.02              | 65.98      | 1.00915      | 25.62                           |
| 26-Oct-15 | 13:18 | 20.55              | 66.67      | 1.00917      | 25.59                           |
| 26-Oct-15 | 13:19 | 20.22              | 64.36      | 1.00920      | 25.61                           |
| 26-Oct-15 | 13:20 | 20.11              | 64.97      | 1.00914      | 25.66                           |
| 26-Oct-15 | 13:21 | 20.33              | 62.41      | 1.00907      | 25.67                           |
| 26-Oct-15 | 13:22 | 20.11              | 62.78      | 1.00909      | 25.71                           |
| 26-Oct-15 | 13:23 | 20.22              | 61.27      | 1.00912      | 25.67                           |
| 26-Oct-15 | 13:24 | 20.40              | 62.97      | 1.00934      | 25.71                           |
| 26-Oct-15 | 13:25 | 20.39              | 60.92      | 1.00914      | 25.65                           |
| 26-Oct-15 | 13:26 | 20.35              | 64.37      | 1.00917      | 25.64                           |
| 26-Oct-15 | 13:27 | 19.97              | 63.40      | 1.00916      | 25.72                           |
| 26-Oct-15 | 13:28 | 20.01              | 61.95      | 1.00916      | 25.70                           |
| 26-Oct-15 | 13:29 | 20.09              | 64.24      | 1.00912      | 25.68                           |
| 26-Oct-15 | 13:30 | 20.19              | 63.19      | 1.00903      | 25.66                           |
| 26-Oct-15 | 13:31 | 20.38              | 65.02      | 1.00909      | 25.68                           |
| 26-Oct-15 | 13:32 | 19.89              | 60.68      | 1.00916      | 25.70                           |
| 26-Oct-15 | 13:33 | 20.33              | 63.30      | 1.00911      | 25.69                           |
| 26-Oct-15 | 13:34 | 20.92              | 67.18      | 1.00913      | 25.58                           |
| 26-Oct-15 | 13:35 | 20.65              | 65.37      | 1.00900      | 25.71                           |
| 26-Oct-15 | 13:36 | 19.76              | 62.36      | 1.00921      | 25.67                           |
| 26-Oct-15 | 13:37 | 19.84              | 61.96      | 1.00925      | 25.67                           |
| 26-Oct-15 | 13:38 | 20.05              | 63.25      | 1.00912      | 25.61                           |
| 26-Oct-15 | 13:39 | 19.78              | 63.54      | 1.00914      | 25.67                           |
| 26-Oct-15 | 13:40 | 20.40              | 66.23      | 1.00916      | 25.70                           |
| 26-Oct-15 | 13:41 | 19.44              | 64.38      | 1.00900      | 25.71                           |
| 26-Oct-15 | 13:42 | 19.86              | 64.03      | 1.00894      | 25.75                           |
| 26-Oct-15 | 13:43 | 20.12              | 64.37      | 1.00907      | 25.69                           |
| 26-Oct-15 | 13:44 | 20.19              | 63.96      | 1.00907      | 25.66                           |
| 26-Oct-15 | 13:45 | 19.55              | 62.39      | 1.00900      | 25.74                           |
| 26-Oct-15 | 13:46 | 20.43              | 66.20      | 1.00913      | 25.67                           |
| 26-Oct-15 | 13:47 | 20.43              | 62.42      | 1.00909      | 25.70                           |
| 26-Oct-15 | 13:48 | 19.90              | 65.73      | 1.00910      | 25.71                           |
| 26-Oct-15 | 13:49 | 19.80              | 64.57      | 1.00911      | 25.71                           |
| 26-Oct-15 | 13:50 | 19.82              | 64.01      | 1.00904      | 25.72                           |
| 26-Oct-15 | 13:51 | 19.46              | 63.45      | 1.00906      | 25.74                           |
| 26-Oct-15 | 13:52 | 19.48              | 65.07      | 1.00900      | 25.66                           |
| 26-Oct-15 | 13:53 | 20.20              | 66.20      | 1.00905      | 25.68                           |
| 26-Oct-15 | 13:54 | 19.48              | 63.56      | 1.00887      | 25.71                           |
| 26-Oct-15 | 13:55 | 19.75              | 66.28      | 1.00903      | 25.73                           |
| 26-Oct-15 | 13:56 | 20.01              | 65.89      | 1.00897      | 25.78                           |
| 26-Oct-15 | 13:57 | 20.21              | 68.00      | 1.00896      | 25.75                           |
| 26-Oct-15 | 13:58 | 19.65              | 65.53      | 1.00893      | 25.77                           |
| 26-Oct-15 | 13:59 | 19.75              | 66.15      | 1.00905      | 25.75                           |
| 26-Oct-15 | 14:00 | 19.95              | 65.08      | 1.00892      | 25.73                           |
| 26-Oct-15 | 14:01 | 20.55              | 67.89      | 1.00905      | 25.68                           |
| 26-Oct-15 | 14:02 | 20.67              | 66.87      | 1.00905      | 25.75                           |
| 26-Oct-15 | 14:03 | 20.27              | 63.08      | 1.00887      | 25.71                           |
| 26-Oct-15 | 14:04 | 20.06              | 61.57      | 1.00900      | 25.78                           |
| 26-Oct-15 | 14:05 | 20.13              | 62.40      | 1.00893      | 25.76                           |
| 26-Oct-15 | 14:06 | 19.94              | 65.12      | 1.00903      | 25.73                           |
| 26-Oct-15 | 14:07 | 20.72              | 65.58      | 1.00884      | 25.74                           |
| 26-Oct-15 | 14:08 | 20.18              | 63.01      | 1.00882      | 25.75                           |
| 26-Oct-15 | 14:09 | 19.75              | 61.31      | 1.00884      | 25.74                           |
| 26-Oct-15 | 14:10 | 20.15              | 63.67      | 1.00890      | 25.78                           |
| 26-Oct-15 | 14:11 | 20.25              | 62.92      | 1.00879      | 25.75                           |
| 26-Oct-15 | 14:12 | 20.62              | 65.40      | 1.00881      | 25.76                           |
| 26-Oct-15 | 14:13 | 20.29              | 63.32      | 1.00886      | 25.75                           |
| 26-Oct-15 | 14:14 | 20.32              | 62.49      | 1.00887      | 25.77                           |
| 26-Oct-15 | 14:15 | 20.12              | 62.53      | 1.00882      | 25.67                           |
| 26-Oct-15 | 14:16 | 20.22              | 67.74      | 1.00884      | 25.80                           |
| 26-Oct-15 | 14:17 | 19.72              | 63.44      | 1.00874      | 25.77                           |
| 26-Oct-15 | 14:18 | 19.76              | 65.36      | 1.00872      | 25.78                           |
| 26-Oct-15 | 14:19 | 19.69              | 63.82      | 1.00879      | 25.74                           |
| 26-Oct-15 | 14:20 | 20.37              | 65.76      | 1.00877      | 25.75                           |
| 26-Oct-15 | 14:21 | 20.64              | 61.87      | 1.00870      | 25.77                           |
| 26-Oct-15 | 14:22 | 20.06              | 61.65      | 1.00886      | 25.70                           |
| 26-Oct-15 | 14:23 | 19.77              | 62.03      | 1.00881      | 25.71                           |
| 26-Oct-15 | 14:24 | 20.16              | 64.28      | 1.00870      | 25.71                           |
| 26-Oct-15 | 14:25 | 20.72              | 66.23      | 1.00893      | 25.80                           |
| 26-Oct-15 | 14:26 | 20.97              | 62.39      | 1.00898      | 25.82                           |
| 26-Oct-15 | 14:27 | 20.68              | 58.85      | 1.00878      | 25.82                           |
| 26-Oct-15 | 14:28 | 20.64              | 61.85      | 1.00891      | 25.77                           |
| 26-Oct-15 | 14:29 | 19.83              | 60.25      | 1.00878      | 25.81                           |
| 26-Oct-15 | 14:30 | 20.10              | 61.65      | 1.00858      | 25.71                           |
| 26-Oct-15 | 14:31 | 19.79              | 64.61      | 1.00880      | 25.73                           |
| 26-Oct-15 | 14:32 | 19.82              | 65.76      | 1.00881      | 25.80                           |
| 26-Oct-15 | 14:33 | 19.66              | 62.07      | 1.00867      | 25.74                           |
| 26-Oct-15 | 14:34 | 19.81              | 63.90      | 1.00883      | 25.72                           |
| 26-Oct-15 | 14:35 | 20.14              | 63.07      | 1.00879      | 25.69                           |
| 26-Oct-15 | 14:36 | 20.74              | 67.23      | 1.00874      | 25.71                           |
| 26-Oct-15 | 14:37 | 20.72              | 62.14      | 1.00874      | 25.76                           |
| 26-Oct-15 | 14:38 | 20.63              | 60.48      | 1.00876      | 25.74                           |
| 26-Oct-15 | 14:39 | 20.63              | 61.69      | 1.00876      | 25.83                           |
| 26-Oct-15 | 14:40 | 20.21              | 60.76      | 1.00874      | 25.77                           |
| 26-Oct-15 | 14:41 | 20.74              | 60.01      | 1.00861      | 25.84                           |
| 26-Oct-15 | 14:42 | 20.03              | 60.27      | 1.00866      | 25.72                           |
| 26-Oct-15 | 14:43 | 19.64              | 60.77      | 1.00867      | 25.76                           |
| 26-Oct-15 | 14:44 | 20.18              | 62.25      | 1.00874      | 25.75                           |
| 26-Oct-15 | 14:45 | 19.53              | 61.91      | 1.00851      | 25.74                           |
| 26-Oct-15 | 14:46 | 20.31              | 65.43      | 1.00871      | 25.73                           |
| 26-Oct-15 | 14:47 | 19.59              | 63.00      | 1.00862      | 25.79                           |
| 26-Oct-15 | 14:48 | 20.20              | 64.86      | 1.00869      | 25.81                           |
| 26-Oct-15 | 14:49 | 20.32              | 64.77      | 1.00864      | 25.77                           |
| 26-Oct-15 | 14:50 | 19.99              | 62.25      | 1.00864      | 25.79                           |
| 26-Oct-15 | 14:51 | 20.56              | 64.91      | 1.00869      | 25.85                           |
| 26-Oct-15 | 14:52 | 19.68              | 62.63      | 1.00862      | 25.76                           |
| 26-Oct-15 | 14:53 | 19.83              | 61.94      | 1.00864      | 25.75                           |
| 26-Oct-15 | 14:54 | 19.60              | 61.28      | 1.00856      | 25.75                           |
| 26-Oct-15 | 14:55 | 20.20              | 63.38      | 1.00864      | 25.75                           |

| Date      | Time  | Ambient Conditions |            |              | Inlet Cool Water Temperature °C |
|-----------|-------|--------------------|------------|--------------|---------------------------------|
|           |       | Temperature °C     | Humidity % | Pressure bar |                                 |
| 26-Oct-15 | 14:56 | 20.90              | 63.02      | 1.00867      | 25.77                           |
| 26-Oct-15 | 14:57 | 21.26              | 59.35      | 1.00867      | 25.82                           |
| 26-Oct-15 | 14:58 | 21.24              | 59.72      | 1.00861      | 25.74                           |
| 26-Oct-15 | 14:59 | 20.59              | 59.16      | 1.00849      | 25.80                           |
| 26-Oct-15 | 15:00 | 20.38              | 61.48      | 1.00849      | 25.83                           |
| 26-Oct-15 | 15:01 | 20.97              | 63.25      | 1.00856      | 25.86                           |
| 26-Oct-15 | 15:02 | 20.98              | 60.88      | 1.00852      | 25.75                           |
| 26-Oct-15 | 15:03 | 20.55              | 59.16      | 1.00856      | 25.79                           |
| 26-Oct-15 | 15:04 | 20.15              | 60.24      | 1.00850      | 25.71                           |
| 26-Oct-15 | 15:05 | 20.15              | 60.76      | 1.00858      | 25.66                           |
| 26-Oct-15 | 15:06 | 20.57              | 62.27      | 1.00845      | 25.69                           |
| 26-Oct-15 | 15:07 | 20.48              | 65.31      | 1.00848      | 25.67                           |
| 26-Oct-15 | 15:08 | 20.35              | 63.21      | 1.00830      | 25.69                           |
| 26-Oct-15 | 15:09 | 20.09              | 63.32      | 1.00850      | 25.75                           |
| 26-Oct-15 | 15:10 | 20.53              | 65.90      | 1.00852      | 25.74                           |
| 26-Oct-15 | 15:11 | 20.48              | 66.37      | 1.00846      | 25.79                           |
| 26-Oct-15 | 15:12 | 20.44              | 66.42      | 1.00844      | 25.73                           |
| 26-Oct-15 | 15:13 | 20.80              | 63.93      | 1.00850      | 25.71                           |
| 26-Oct-15 | 15:14 | 20.77              | 64.59      | 1.00840      | 25.81                           |
| 26-Oct-15 | 15:15 | 20.55              | 62.99      | 1.00846      | 25.75                           |
| 26-Oct-15 | 15:16 | 20.48              | 63.82      | 1.00833      | 25.81                           |
| 26-Oct-15 | 15:17 | 20.81              | 64.54      | 1.00849      | 25.80                           |
| 26-Oct-15 | 15:18 | 21.14              | 62.11      | 1.00840      | 25.79                           |
| 26-Oct-15 | 15:19 | 20.07              | 61.62      | 1.00832      | 25.75                           |
| 26-Oct-15 | 15:20 | 20.22              | 61.62      | 1.00829      | 25.75                           |
| 26-Oct-15 | 15:21 | 19.92              | 61.01      | 1.00815      | 25.75                           |
| 26-Oct-15 | 15:22 | 20.03              | 64.24      | 1.00814      | 25.78                           |
| 26-Oct-15 | 15:23 | 20.05              | 66.62      | 1.00820      | 25.81                           |
| 26-Oct-15 | 15:24 | 20.15              | 62.59      | 1.00816      | 25.70                           |
| 26-Oct-15 | 15:25 | 20.18              | 62.48      | 1.00832      | 25.75                           |
| 26-Oct-15 | 15:26 | 20.21              | 63.47      | 1.00817      | 25.78                           |
| 26-Oct-15 | 15:27 | 19.77              | 60.38      | 1.00812      | 25.75                           |
| 26-Oct-15 | 15:28 | 19.73              | 65.46      | 1.00812      | 25.88                           |
| 26-Oct-15 | 15:29 | 20.51              | 68.26      | 1.00822      | 25.82                           |
| 26-Oct-15 | 15:30 | 20.47              | 65.03      | 1.00828      | 25.77                           |
| 26-Oct-15 | 15:31 | 20.45              | 63.35      | 1.00814      | 25.80                           |
| 26-Oct-15 | 15:32 | 19.94              | 63.56      | 1.00809      | 25.78                           |
| 26-Oct-15 | 15:33 | 20.42              | 65.78      | 1.00824      | 25.72                           |
| 26-Oct-15 | 15:34 | 20.70              | 65.42      | 1.00827      | 25.79                           |
| 26-Oct-15 | 15:35 | 21.09              | 62.82      | 1.00819      | 25.81                           |
| 26-Oct-15 | 15:36 | 20.91              | 61.23      | 1.00801      | 25.88                           |
| 26-Oct-15 | 15:37 | 20.55              | 59.47      | 1.00819      | 25.77                           |
| 26-Oct-15 | 15:38 | 20.28              | 59.29      | 1.00815      | 25.77                           |
| 26-Oct-15 | 15:39 | 19.71              | 59.49      | 1.00817      | 25.83                           |
| 26-Oct-15 | 15:40 | 19.50              | 60.86      | 1.00812      | 25.86                           |
| 26-Oct-15 | 15:41 | 19.91              | 64.52      | 1.00805      | 25.76                           |
| 26-Oct-15 | 15:42 | 19.90              | 62.31      | 1.00809      | 25.81                           |
| 26-Oct-15 | 15:43 | 19.88              | 62.06      | 1.00811      | 25.83                           |
| 26-Oct-15 | 15:44 | 20.46              | 67.00      | 1.00807      | 25.79                           |
| 26-Oct-15 | 15:45 | 19.78              | 62.63      | 1.00802      | 25.78                           |
| 26-Oct-15 | 15:46 | 20.27              | 67.88      | 1.00808      | 25.80                           |
| 26-Oct-15 | 15:47 | 19.75              | 66.29      | 1.00788      | 25.77                           |
| 26-Oct-15 | 15:48 | 20.43              | 67.08      | 1.00809      | 25.77                           |
| 26-Oct-15 | 15:49 | 21.00              | 66.65      | 1.00802      | 25.84                           |
| 26-Oct-15 | 15:50 | 20.85              | 63.04      | 1.00809      | 25.73                           |
| 26-Oct-15 | 15:51 | 21.12              | 61.46      | 1.00808      | 25.72                           |
| 26-Oct-15 | 15:52 | 20.65              | 60.66      | 1.00804      | 25.70                           |
| 26-Oct-15 | 15:53 | 20.67              | 62.66      | 1.00803      | 25.78                           |
| 26-Oct-15 | 15:54 | 20.62              | 64.65      | 1.00802      | 25.77                           |
| 26-Oct-15 | 15:55 | 20.63              | 65.28      | 1.00806      | 25.78                           |
| 26-Oct-15 | 15:56 | 20.60              | 63.66      | 1.00804      | 25.78                           |
| 26-Oct-15 | 15:57 | 20.13              | 61.30      | 1.00798      | 25.76                           |
| 26-Oct-15 | 15:58 | 20.15              | 65.74      | 1.00798      | 25.78                           |
| 26-Oct-15 | 15:59 | 20.09              | 64.20      | 1.00795      | 25.83                           |



## APPENDIX D

### DCS Measurements (5 seconds interval)

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Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:00:00 | 279.4             | 10.36                  | 0.999        | 3014.2       | 17.51                      | 50.16                        | 83.34                     | 100.00                    | 161.70                         | 560.51                        | 41.20                          | 563.12                        | 376.29                               | 379.04                               |
| 26-Oct-15 | 11:00:05 | 279.7             | 10.35                  | 0.999        | 3015.0       | 17.51                      | 50.17                        | 83.46                     | 100.00                    | 161.70                         | 560.51                        | 41.20                          | 563.12                        | 376.29                               | 379.04                               |
| 26-Oct-15 | 11:00:10 | 280.4             | 10.35                  | 0.999        | 3015.0       | 17.51                      | 50.15                        | 82.16                     | 100.00                    | 161.70                         | 560.51                        | 41.20                          | 563.12                        | 376.32                               | 379.05                               |
| 26-Oct-15 | 11:00:15 | 280.7             | 10.35                  | 0.999        | 3008.3       | 17.51                      | 50.13                        | 81.98                     | 100.00                    | 161.70                         | 560.51                        | 41.20                          | 563.12                        | 376.29                               | 379.06                               |
| 26-Oct-15 | 11:00:20 | 280.3             | 10.35                  | 0.999        | 3007.0       | 17.51                      | 50.08                        | 82.36                     | 100.00                    | 161.70                         | 560.52                        | 41.20                          | 563.12                        | 376.34                               | 379.07                               |
| 26-Oct-15 | 11:00:25 | 279.6             | 10.35                  | 0.999        | 3011.1       | 17.51                      | 50.10                        | 83.01                     | 100.00                    | 161.71                         | 560.57                        | 41.21                          | 563.15                        | 376.35                               | 379.08                               |
| 26-Oct-15 | 11:00:30 | 279.9             | 10.35                  | 0.999        | 3015.1       | 17.51                      | 50.15                        | 82.95                     | 100.00                    | 161.72                         | 560.62                        | 41.21                          | 563.19                        | 376.36                               | 379.08                               |
| 26-Oct-15 | 11:00:35 | 280.1             | 10.35                  | 0.999        | 3011.7       | 17.51                      | 50.17                        | 82.42                     | 100.00                    | 161.74                         | 560.67                        | 41.22                          | 563.23                        | 376.36                               | 379.08                               |
| 26-Oct-15 | 11:00:40 | 280.5             | 10.35                  | 0.999        | 3011.7       | 17.51                      | 50.17                        | 81.98                     | 100.00                    | 161.75                         | 560.72                        | 41.22                          | 563.25                        | 376.34                               | 379.09                               |
| 26-Oct-15 | 11:00:45 | 280.2             | 10.39                  | 0.999        | 3012.5       | 17.51                      | 50.17                        | 82.82                     | 100.00                    | 161.77                         | 560.77                        | 41.23                          | 563.27                        | 376.37                               | 379.09                               |
| 26-Oct-15 | 11:00:50 | 280.4             | 10.56                  | 0.999        | 3009.9       | 17.51                      | 50.13                        | 82.16                     | 100.00                    | 161.77                         | 560.81                        | 41.23                          | 563.28                        | 376.38                               | 379.09                               |
| 26-Oct-15 | 11:00:55 | 280.3             | 10.74                  | 0.999        | 3008.6       | 17.51                      | 50.12                        | 82.30                     | 100.00                    | 161.76                         | 560.81                        | 41.23                          | 563.29                        | 376.39                               | 379.09                               |
| 26-Oct-15 | 11:01:00 | 280.1             | 10.92                  | 0.999        | 3007.4       | 17.51                      | 50.11                        | 82.86                     | 100.00                    | 161.75                         | 560.81                        | 41.23                          | 563.30                        | 376.39                               | 379.10                               |
| 26-Oct-15 | 11:01:05 | 280.1             | 11.09                  | 0.999        | 3011.9       | 17.51                      | 50.11                        | 82.79                     | 100.00                    | 161.75                         | 560.80                        | 41.23                          | 563.32                        | 376.39                               | 379.10                               |
| 26-Oct-15 | 11:01:10 | 280.0             | 11.29                  | 0.999        | 3013.1       | 17.51                      | 50.10                        | 82.38                     | 100.00                    | 161.74                         | 560.80                        | 41.23                          | 563.33                        | 376.41                               | 379.10                               |
| 26-Oct-15 | 11:01:15 | 280.4             | 11.51                  | 0.999        | 3011.2       | 17.51                      | 50.09                        | 82.39                     | 100.00                    | 161.73                         | 560.80                        | 41.23                          | 563.34                        | 376.42                               | 379.11                               |
| 26-Oct-15 | 11:01:20 | 279.9             | 11.72                  | 0.999        | 3013.3       | 17.51                      | 50.09                        | 82.51                     | 100.00                    | 161.72                         | 560.80                        | 41.24                          | 563.35                        | 376.43                               | 379.11                               |
| 26-Oct-15 | 11:01:25 | 279.7             | 11.94                  | 0.999        | 3012.8       | 17.51                      | 50.08                        | 82.62                     | 100.00                    | 161.71                         | 560.80                        | 41.24                          | 563.37                        | 376.44                               | 379.11                               |
| 26-Oct-15 | 11:01:30 | 280.2             | 12.16                  | 0.999        | 3011.1       | 17.51                      | 50.08                        | 82.15                     | 100.00                    | 161.70                         | 560.79                        | 41.24                          | 563.38                        | 376.41                               | 379.11                               |
| 26-Oct-15 | 11:01:35 | 280.6             | 12.38                  | 0.999        | 3007.3       | 17.51                      | 50.07                        | 81.66                     | 100.00                    | 161.69                         | 560.79                        | 41.24                          | 563.39                        | 376.44                               | 379.11                               |
| 26-Oct-15 | 11:01:40 | 280.0             | 12.60                  | 0.999        | 3007.0       | 17.51                      | 50.09                        | 82.50                     | 100.00                    | 161.69                         | 560.79                        | 41.24                          | 563.40                        | 376.44                               | 379.11                               |
| 26-Oct-15 | 11:01:45 | 279.2             | 12.81                  | 0.999        | 3018.9       | 17.51                      | 50.15                        | 83.69                     | 100.00                    | 161.68                         | 560.79                        | 41.24                          | 563.40                        | 376.44                               | 379.11                               |
| 26-Oct-15 | 11:01:50 | 280.1             | 13.03                  | 0.999        | 3009.1       | 17.51                      | 50.14                        | 82.17                     | 100.00                    | 161.67                         | 560.79                        | 41.24                          | 563.40                        | 376.44                               | 379.12                               |
| 26-Oct-15 | 11:01:55 | 279.8             | 13.11                  | 0.999        | 3010.2       | 17.51                      | 50.11                        | 81.94                     | 100.00                    | 161.67                         | 560.78                        | 41.24                          | 563.40                        | 376.47                               | 379.12                               |
| 26-Oct-15 | 11:02:00 | 280.4             | 13.11                  | 0.999        | 3009.1       | 17.51                      | 50.10                        | 82.27                     | 100.00                    | 161.67                         | 560.78                        | 41.24                          | 563.40                        | 376.48                               | 379.13                               |
| 26-Oct-15 | 11:02:05 | 279.8             | 13.11                  | 0.999        | 3010.3       | 17.51                      | 50.09                        | 82.94                     | 100.00                    | 161.68                         | 560.75                        | 41.24                          | 563.41                        | 376.48                               | 379.14                               |
| 26-Oct-15 | 11:02:10 | 279.8             | 13.11                  | 0.999        | 3014.8       | 17.51                      | 50.08                        | 82.75                     | 100.00                    | 161.68                         | 560.73                        | 41.24                          | 563.43                        | 376.49                               | 379.15                               |
| 26-Oct-15 | 11:02:15 | 280.2             | 13.11                  | 0.999        | 3012.3       | 17.51                      | 50.07                        | 82.21                     | 100.00                    | 161.69                         | 560.70                        | 41.24                          | 563.44                        | 376.49                               | 379.13                               |
| 26-Oct-15 | 11:02:20 | 280.8             | 13.11                  | 0.999        | 3003.2       | 17.51                      | 50.06                        | 80.69                     | 100.00                    | 161.70                         | 560.67                        | 41.25                          | 563.46                        | 376.49                               | 379.12                               |
| 26-Oct-15 | 11:02:25 | 279.6             | 13.14                  | 0.999        | 3010.9       | 17.51                      | 50.07                        | 82.68                     | 100.00                    | 161.70                         | 560.64                        | 41.25                          | 563.47                        | 376.50                               | 379.16                               |
| 26-Oct-15 | 11:02:30 | 279.5             | 13.28                  | 0.999        | 3010.1       | 17.51                      | 50.11                        | 82.59                     | 100.00                    | 161.71                         | 560.62                        | 41.25                          | 563.49                        | 376.50                               | 379.16                               |
| 26-Oct-15 | 11:02:35 | 280.8             | 13.41                  | 0.999        | 3007.3       | 17.51                      | 50.08                        | 81.23                     | 100.00                    | 161.71                         | 560.59                        | 41.25                          | 563.50                        | 376.51                               | 379.17                               |
| 26-Oct-15 | 11:02:40 | 280.8             | 13.54                  | 0.999        | 3004.6       | 17.51                      | 50.02                        | 80.95                     | 100.00                    | 161.72                         | 560.56                        | 41.25                          | 563.50                        | 376.51                               | 379.18                               |
| 26-Oct-15 | 11:02:45 | 279.7             | 13.67                  | 0.999        | 3007.1       | 17.51                      | 50.03                        | 82.52                     | 100.00                    | 161.73                         | 560.54                        | 41.26                          | 563.50                        | 376.51                               | 379.18                               |
| 26-Oct-15 | 11:02:50 | 280.0             | 13.80                  | 0.999        | 3007.4       | 17.51                      | 50.06                        | 82.00                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.49                        | 376.52                               | 379.19                               |
| 26-Oct-15 | 11:02:55 | 280.4             | 13.79                  | 0.999        | 3007.3       | 17.51                      | 50.04                        | 81.40                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.49                        | 376.52                               | 379.20                               |
| 26-Oct-15 | 11:03:00 | 280.3             | 13.75                  | 0.999        | 3003.1       | 17.51                      | 50.03                        | 81.38                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.48                        | 376.52                               | 379.21                               |
| 26-Oct-15 | 11:03:05 | 280.3             | 13.71                  | 0.999        | 3003.1       | 17.52                      | 50.02                        | 81.59                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.48                        | 376.52                               | 379.21                               |
| 26-Oct-15 | 11:03:10 | 280.0             | 13.66                  | 0.999        | 3003.0       | 17.52                      | 50.01                        | 81.02                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.47                        | 376.52                               | 379.22                               |
| 26-Oct-15 | 11:03:15 | 280.3             | 13.62                  | 0.999        | 3003.0       | 17.52                      | 50.02                        | 81.27                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.46                        | 376.52                               | 379.22                               |
| 26-Oct-15 | 11:03:20 | 280.1             | 13.58                  | 0.999        | 3002.9       | 17.52                      | 50.03                        | 81.98                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.46                        | 376.52                               | 379.23                               |
| 26-Oct-15 | 11:03:25 | 280.2             | 13.54                  | 0.999        | 3004.0       | 17.52                      | 50.04                        | 82.37                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.45                        | 376.52                               | 379.23                               |
| 26-Oct-15 | 11:03:30 | 279.7             | 13.49                  | 0.999        | 3007.2       | 17.52                      | 50.06                        | 82.24                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.45                        | 376.53                               | 379.24                               |
| 26-Oct-15 | 11:03:35 | 280.4             | 13.45                  | 0.999        | 3009.2       | 17.53                      | 50.04                        | 81.59                     | 100.00                    | 161.73                         | 560.51                        | 41.26                          | 563.44                        | 376.53                               | 379.26                               |
| 26-Oct-15 | 11:03:40 | 280.6             | 13.41                  | 0.999        | 3001.6       | 17.53                      | 50.02                        | 81.08                     | 100.00                    | 161.73                         | 560.50                        | 41.26                          | 563.44                        | 376.54                               | 379.25                               |
| 26-Oct-15 | 11:03:45 | 280.5             | 13.36                  | 0.999        | 3000.1       | 17.53                      | 49.97                        | 80.99                     | 100.00                    | 161.70                         | 560.41                        | 41.24                          | 563.42                        | 376.55                               | 379.27                               |
| 26-Oct-15 | 11:03:50 | 280.3             | 13.32                  | 0.999        | 2995.2       | 17.53                      | 49.92                        | 81.45                     | 100.00                    | 161.68                         | 560.33                        | 41.23                          | 563.40                        | 376.53                               | 379.28                               |
| 26-Oct-15 | 11:03:55 | 279.7             | 13.31                  | 0.999        | 2999.6       | 17.54                      | 49.92                        | 82.14                     | 100.00                    | 161.68                         | 560.29                        | 41.23                          | 563.38                        | 376.55                               | 379.29                               |
| 26-Oct-15 | 11:04:00 | 279.2             | 13.31                  | 0.999        | 3003.7       | 17.54                      | 49.95                        | 82.87                     | 100.00                    | 161.68                         | 560.26                        | 41.23                          | 563.36                        | 376.53                               | 379.29                               |
| 26-Oct-15 | 11:04:05 | 280.1             | 13.31                  | 0.999        | 3006.3       | 17.54                      | 50.01                        | 82.12                     | 100.00                    | 161.68                         | 560.23                        | 41.23                          | 563.34                        | 376.55                               | 379.31                               |
| 26-Oct-15 | 11:04:10 | 279.6             | 13.35                  | 0.999        | 3007.3       | 17.54                      | 50.00                        | 82.18                     | 100.00                    | 161.67                         | 560.19                        | 41.23                          | 563.32                        | 376.53                               | 379.31                               |
| 26-Oct-15 | 11:04:15 | 280.5             | 13.38                  | 0.999        | 3001.6       | 17.53                      | 49.98                        | 81.35                     | 100.00                    | 161.67                         | 560.16                        | 41.23                          | 563.30                        | 376.54                               | 379.32                               |
| 26-Oct-15 | 11:04:20 | 280.9             | 13.42                  | 0.999        | 3003.2       | 17.53                      | 49.97                        | 80.57                     | 100.00                    | 161.67                         | 560.13                        | 41.24                          | 563.28                        | 376.56                               | 379.32                               |
| 26-Oct-15 | 11:04:25 | 280.6             | 13.45                  | 0.999        | 2998.8       | 17.53                      | 49.92                        | 81.10                     | 100.00                    | 161.67                         | 560.09                        | 41.24                          | 563.26                        | 376.57                               | 379.33                               |
| 26-Oct-15 | 11:04:30 | 280.0             | 13.49                  | 0.999        | 3003.1       | 17.53                      | 49.91                        | 81.94                     | 100.00                    | 161.67                         | 560.06                        | 41.24                          | 563.24                        | 376.59                               | 379.33                               |
| 26-Oct-15 | 11:04:35 | 280.2             | 13.52                  | 0.999        | 3000.1       | 17.53                      | 49.90                        | 81.88                     | 100.00                    | 161.67                         | 560.03                        | 41.24                          | 563.22                        | 376.59                               | 379.34                               |
| 26-Oct-15 | 11:04:40 | 280.0             | 13.55                  | 0.999        | 2997.9       | 17.53                      | 49.90                        | 81.27                     | 100.00                    | 161.67                         | 560.00                        | 41.24                          | 563.21                        | 376.56                               | 379.34                               |
| 26-Oct-15 | 11:04:45 | 279.6             | 13.59                  | 0.999        | 3000.3       | 17.53                      | 49.89                        | 82.00                     | 100.00                    | 161.67                         | 559.99                        | 41.24                          | 563.21                        | 376.57                               | 379.33                               |
| 26-Oct-15 | 11:04:50 | 280.4             | 13.62                  | 0.999        | 3003.2       | 17.53                      | 49.89                        | 81.42                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.58                               | 379.32                               |
| 26-Oct-15 | 11:04:55 | 280.1             | 13.64                  | 0.999        | 3000.0       | 17.52                      | 49.88                        | 81.23                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.59                               | 379.32                               |
| 26-Oct-15 | 11:05:00 | 280.3             | 13.64                  | 0.999        | 2999.3       | 17.52                      | 49.88                        | 81.05                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.59                               | 379.31                               |
| 26-Oct-15 | 11:05:05 | 280.5             | 13.64                  | 0.999        | 3000.6       | 17.52                      | 49.87                        | 80.86                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.59                               | 379.34                               |
| 26-Oct-15 | 11:05:10 | 280.6             | 13.64                  | 0.999        | 2999.3       | 17.52                      | 49.87                        | 80.67                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.60                               | 379.35                               |
| 26-Oct-15 | 11:05:15 | 280.8             | 13.64                  | 0.999        | 2999.3       | 17.52                      | 49.86                        | 80.92                     | 100.00                    | 161.67                         | 559.93                        | 41.24                          | 563.21                        | 376.60                               | 379.37                               |
| 26-Oct-15 | 11:05:20 | 280.8             | 13.64                  | 0.999        | 2993.7       | 17.52                      | 49.87                        | 80.65                     | 100.00                    | 161.67                         | 559.92                        | 41.24                          | 563.21                        | 376.60                               | 379.35                               |
| 26-Oct-15 | 11:05:25 | 280.1             | 13.64                  | 0.999        | 2995.2       | 17.52                      | 49.89                        | 81.97                     | 100.00                    | 161.68                         | 559.86                        | 41.24                          | 563.15                        | 376.61                               | 379.39                               |
| 26-Oct-15 | 11:05:30 | 279.7             | 13.64                  | 0.999        | 3002.6       | 17.52                      | 49.91                        | 81.65                     | 100.00                    | 161.68                         | 559.79                        | 41.24                          | 563.08                        | 376.61                               | 379.41                               |
| 26-Oct-15 | 11:05:35 | 280.1             | 13.64                  | 0.999        | 3000.5       | 17.52                      | 49.91                        | 81.23                     | 100.00                    | 161.68                         | 559.72                        | 41.24                          | 563.02                        | 376.61                               | 379.42                               |
| 26-Oct-15 | 11:05:40 | 280.3             | 13.64                  | 0.999        | 3001.2       | 17.52                      | 49.91                        | 80.96                     | 100.00                    | 161.69                         |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:09:50 | 281.0             | 12.74                  | 0.999        | 2993.9       | 17.52                      | 49.86                        | 81.44                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.86                               | 379.77                               |
| 26-Oct-15 | 11:09:55 | 281.0             | 12.74                  | 0.999        | 2993.0       | 17.52                      | 49.86                        | 81.61                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.86                               | 379.78                               |
| 26-Oct-15 | 11:10:00 | 281.0             | 12.74                  | 0.999        | 2992.1       | 17.52                      | 49.86                        | 81.53                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.86                               | 379.79                               |
| 26-Oct-15 | 11:10:05 | 280.8             | 12.74                  | 0.999        | 2991.8       | 17.52                      | 49.86                        | 81.45                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.86                               | 379.80                               |
| 26-Oct-15 | 11:10:10 | 280.6             | 12.74                  | 0.999        | 2995.5       | 17.52                      | 49.86                        | 81.87                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.88                               | 379.79                               |
| 26-Oct-15 | 11:10:15 | 280.5             | 12.74                  | 0.999        | 2997.1       | 17.52                      | 49.86                        | 81.90                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.87                               | 379.80                               |
| 26-Oct-15 | 11:10:20 | 281.0             | 12.74                  | 0.999        | 2998.7       | 17.52                      | 49.86                        | 81.11                     | 100.00                    | 162.15                         | 560.01                        | 41.37                          | 563.55                        | 376.90                               | 379.81                               |
| 26-Oct-15 | 11:10:25 | 280.7             | 12.74                  | 0.999        | 2998.8       | 17.52                      | 49.86                        | 81.57                     | 100.00                    | 162.17                         | 559.97                        | 41.37                          | 563.58                        | 376.86                               | 379.83                               |
| 26-Oct-15 | 11:10:30 | 281.0             | 12.74                  | 0.999        | 2995.2       | 17.52                      | 49.86                        | 81.29                     | 100.00                    | 162.18                         | 559.94                        | 41.37                          | 563.62                        | 376.87                               | 379.83                               |
| 26-Oct-15 | 11:10:35 | 280.8             | 12.74                  | 0.999        | 2999.3       | 17.52                      | 49.86                        | 81.36                     | 100.00                    | 162.20                         | 559.91                        | 41.37                          | 563.66                        | 376.89                               | 379.84                               |
| 26-Oct-15 | 11:10:40 | 281.0             | 12.74                  | 0.999        | 2995.2       | 17.52                      | 49.86                        | 81.66                     | 100.00                    | 162.21                         | 559.87                        | 41.37                          | 563.68                        | 376.88                               | 379.84                               |
| 26-Oct-15 | 11:10:45 | 280.8             | 13.07                  | 0.999        | 2996.6       | 17.52                      | 49.86                        | 81.44                     | 100.00                    | 162.23                         | 559.84                        | 41.38                          | 563.64                        | 376.89                               | 379.85                               |
| 26-Oct-15 | 11:10:50 | 280.6             | 13.07                  | 0.999        | 2998.2       | 17.51                      | 49.86                        | 81.67                     | 100.00                    | 162.25                         | 559.81                        | 41.38                          | 563.60                        | 376.89                               | 379.85                               |
| 26-Oct-15 | 11:10:55 | 280.8             | 13.81                  | 0.999        | 2997.7       | 17.51                      | 49.85                        | 81.84                     | 100.00                    | 162.27                         | 559.77                        | 41.39                          | 563.55                        | 376.87                               | 379.85                               |
| 26-Oct-15 | 11:11:00 | 281.0             | 13.72                  | 0.999        | 2995.7       | 17.51                      | 49.85                        | 81.81                     | 100.00                    | 162.29                         | 559.72                        | 41.39                          | 563.51                        | 376.89                               | 379.86                               |
| 26-Oct-15 | 11:11:05 | 280.7             | 13.63                  | 0.999        | 2995.5       | 17.51                      | 49.84                        | 81.79                     | 100.00                    | 162.32                         | 559.68                        | 41.40                          | 563.46                        | 376.86                               | 379.86                               |
| 26-Oct-15 | 11:11:10 | 280.7             | 13.55                  | 0.999        | 2997.8       | 17.51                      | 49.83                        | 81.77                     | 100.00                    | 162.34                         | 559.63                        | 41.40                          | 563.42                        | 376.88                               | 379.86                               |
| 26-Oct-15 | 11:11:15 | 281.2             | 13.46                  | 0.999        | 2993.0       | 17.51                      | 49.82                        | 81.31                     | 100.00                    | 162.36                         | 559.59                        | 41.41                          | 563.38                        | 376.90                               | 379.87                               |
| 26-Oct-15 | 11:11:20 | 281.5             | 13.37                  | 0.999        | 2993.6       | 17.51                      | 49.81                        | 81.43                     | 100.00                    | 162.38                         | 559.54                        | 41.41                          | 563.33                        | 376.90                               | 379.87                               |
| 26-Oct-15 | 11:11:25 | 280.7             | 13.29                  | 0.999        | 2994.2       | 17.52                      | 49.83                        | 82.25                     | 100.00                    | 162.41                         | 559.50                        | 41.41                          | 563.29                        | 376.89                               | 379.87                               |
| 26-Oct-15 | 11:11:30 | 280.8             | 13.20                  | 0.999        | 2999.3       | 17.52                      | 49.86                        | 82.38                     | 100.00                    | 162.43                         | 559.45                        | 41.42                          | 563.24                        | 376.88                               | 379.87                               |
| 26-Oct-15 | 11:11:35 | 281.0             | 13.11                  | 0.999        | 2995.2       | 17.52                      | 49.87                        | 81.97                     | 100.00                    | 162.44                         | 559.41                        | 41.42                          | 563.20                        | 376.87                               | 379.85                               |
| 26-Oct-15 | 11:11:40 | 281.4             | 13.03                  | 0.999        | 2999.3       | 17.52                      | 49.88                        | 81.75                     | 100.00                    | 162.44                         | 559.36                        | 41.42                          | 563.16                        | 376.86                               | 379.84                               |
| 26-Oct-15 | 11:11:45 | 281.1             | 12.84                  | 0.999        | 2999.1       | 17.52                      | 49.89                        | 82.26                     | 100.00                    | 162.44                         | 559.32                        | 41.42                          | 563.12                        | 376.86                               | 379.84                               |
| 26-Oct-15 | 11:11:50 | 281.4             | 12.87                  | 0.999        | 2996.0       | 17.52                      | 49.90                        | 81.65                     | 100.00                    | 162.44                         | 559.27                        | 41.42                          | 563.16                        | 376.86                               | 379.85                               |
| 26-Oct-15 | 11:11:55 | 280.9             | 12.87                  | 0.999        | 3000.2       | 17.52                      | 49.91                        | 82.81                     | 100.00                    | 162.44                         | 559.24                        | 41.42                          | 563.16                        | 376.86                               | 379.86                               |
| 26-Oct-15 | 11:12:00 | 280.8             | 12.87                  | 0.999        | 2999.7       | 17.52                      | 49.92                        | 82.74                     | 100.00                    | 162.44                         | 559.22                        | 41.42                          | 563.16                        | 376.86                               | 379.88                               |
| 26-Oct-15 | 11:12:05 | 281.4             | 12.87                  | 0.999        | 2999.6       | 17.52                      | 49.92                        | 82.28                     | 100.00                    | 162.43                         | 559.13                        | 41.42                          | 563.11                        | 376.86                               | 379.89                               |
| 26-Oct-15 | 11:12:10 | 281.0             | 12.87                  | 0.999        | 3003.2       | 17.52                      | 49.92                        | 82.65                     | 100.00                    | 162.43                         | 559.04                        | 41.43                          | 563.06                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:12:15 | 281.3             | 12.87                  | 0.999        | 2999.3       | 17.52                      | 49.92                        | 82.09                     | 100.00                    | 162.42                         | 558.95                        | 41.43                          | 563.01                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:12:20 | 281.6             | 12.87                  | 0.999        | 2999.1       | 17.52                      | 49.92                        | 82.04                     | 100.00                    | 162.42                         | 558.86                        | 41.43                          | 562.95                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:12:25 | 281.0             | 12.89                  | 0.999        | 3000.3       | 17.52                      | 49.91                        | 82.77                     | 100.00                    | 162.41                         | 558.77                        | 41.43                          | 562.90                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:12:30 | 280.8             | 12.98                  | 0.999        | 3001.8       | 17.52                      | 49.90                        | 83.28                     | 100.00                    | 162.41                         | 558.68                        | 41.43                          | 562.85                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:12:35 | 280.7             | 13.07                  | 0.999        | 3003.2       | 17.52                      | 49.89                        | 83.80                     | 100.00                    | 162.39                         | 558.59                        | 41.43                          | 562.79                        | 376.86                               | 379.89                               |
| 26-Oct-15 | 11:12:40 | 281.5             | 13.16                  | 0.999        | 2998.8       | 17.52                      | 49.88                        | 82.27                     | 100.00                    | 162.37                         | 558.50                        | 41.43                          | 562.74                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:12:45 | 281.0             | 13.25                  | 0.999        | 2999.2       | 17.51                      | 49.87                        | 82.53                     | 100.00                    | 162.35                         | 558.41                        | 41.42                          | 562.72                        | 376.86                               | 379.88                               |
| 26-Oct-15 | 11:12:50 | 280.7             | 13.22                  | 0.999        | 2999.0       | 17.51                      | 49.87                        | 83.18                     | 100.00                    | 162.33                         | 558.32                        | 41.42                          | 562.69                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:12:55 | 280.8             | 13.03                  | 0.999        | 2999.2       | 17.51                      | 49.88                        | 82.58                     | 100.00                    | 162.31                         | 558.28                        | 41.42                          | 562.66                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:00 | 281.1             | 12.83                  | 0.999        | 2999.0       | 17.51                      | 49.89                        | 82.39                     | 100.00                    | 162.29                         | 558.28                        | 41.41                          | 562.63                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:05 | 280.1             | 12.64                  | 0.999        | 2999.1       | 17.51                      | 49.90                        | 83.20                     | 100.00                    | 162.27                         | 558.28                        | 41.41                          | 562.60                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:10 | 280.8             | 12.44                  | 0.999        | 2995.8       | 17.51                      | 49.91                        | 83.51                     | 100.00                    | 162.24                         | 558.28                        | 41.41                          | 562.58                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:15 | 280.6             | 12.25                  | 0.999        | 2999.5       | 17.51                      | 49.92                        | 83.40                     | 100.00                    | 162.22                         | 558.28                        | 41.40                          | 562.55                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:20 | 281.2             | 12.05                  | 0.999        | 2997.9       | 17.51                      | 49.93                        | 82.41                     | 100.00                    | 162.21                         | 558.28                        | 41.40                          | 562.52                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:25 | 280.0             | 11.86                  | 0.999        | 3000.6       | 17.51                      | 49.95                        | 84.02                     | 100.00                    | 162.21                         | 558.28                        | 41.40                          | 562.49                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:13:30 | 280.2             | 11.66                  | 0.999        | 3002.3       | 17.50                      | 49.98                        | 84.46                     | 100.00                    | 162.21                         | 558.28                        | 41.39                          | 562.47                        | 376.86                               | 379.92                               |
| 26-Oct-15 | 11:13:35 | 280.6             | 11.47                  | 0.999        | 3001.0       | 17.50                      | 50.01                        | 83.53                     | 100.00                    | 162.21                         | 558.28                        | 41.39                          | 562.44                        | 376.87                               | 379.92                               |
| 26-Oct-15 | 11:13:40 | 280.9             | 11.28                  | 0.999        | 2999.6       | 17.50                      | 49.96                        | 82.82                     | 100.00                    | 162.20                         | 558.28                        | 41.39                          | 562.42                        | 376.87                               | 379.93                               |
| 26-Oct-15 | 11:13:45 | 281.1             | 11.00                  | 0.999        | 2995.2       | 17.50                      | 49.89                        | 82.19                     | 100.00                    | 162.17                         | 558.24                        | 41.35                          | 562.41                        | 376.87                               | 379.94                               |
| 26-Oct-15 | 11:13:50 | 280.5             | 10.43                  | 0.999        | 2996.3       | 17.50                      | 49.87                        | 83.40                     | 100.00                    | 162.13                         | 558.20                        | 41.34                          | 562.39                        | 376.88                               | 379.94                               |
| 26-Oct-15 | 11:13:55 | 280.3             | 9.87                   | 0.999        | 2998.2       | 17.49                      | 49.89                        | 84.02                     | 100.00                    | 162.09                         | 558.17                        | 41.33                          | 562.38                        | 376.88                               | 379.95                               |
| 26-Oct-15 | 11:14:00 | 279.7             | 9.30                   | 0.999        | 3003.1       | 17.49                      | 49.91                        | 84.80                     | 100.00                    | 162.05                         | 558.17                        | 41.32                          | 562.37                        | 376.88                               | 379.91                               |
| 26-Oct-15 | 11:14:05 | 280.1             | 9.29                   | 0.999        | 3002.6       | 17.49                      | 49.97                        | 84.05                     | 100.00                    | 162.02                         | 558.17                        | 41.31                          | 562.36                        | 376.89                               | 379.93                               |
| 26-Oct-15 | 11:14:10 | 280.3             | 9.71                   | 0.999        | 3001.5       | 17.49                      | 50.00                        | 83.82                     | 100.00                    | 161.99                         | 558.17                        | 41.31                          | 562.35                        | 376.89                               | 379.94                               |
| 26-Oct-15 | 11:14:15 | 280.5             | 10.13                  | 0.999        | 3000.5       | 17.49                      | 50.02                        | 83.59                     | 100.00                    | 161.96                         | 558.18                        | 41.30                          | 562.34                        | 376.89                               | 379.93                               |
| 26-Oct-15 | 11:14:20 | 280.7             | 10.55                  | 0.999        | 2999.5       | 17.49                      | 49.99                        | 83.36                     | 100.00                    | 161.93                         | 558.18                        | 41.29                          | 562.33                        | 376.90                               | 379.93                               |
| 26-Oct-15 | 11:14:25 | 280.9             | 10.97                  | 0.999        | 2999.3       | 17.49                      | 49.97                        | 83.13                     | 100.00                    | 161.90                         | 558.18                        | 41.27                          | 562.31                        | 376.90                               | 379.91                               |
| 26-Oct-15 | 11:14:30 | 280.6             | 10.10                  | 0.999        | 2996.9       | 17.49                      | 49.88                        | 83.66                     | 100.00                    | 161.87                         | 558.18                        | 41.25                          | 562.30                        | 376.86                               | 379.95                               |
| 26-Oct-15 | 11:14:35 | 279.7             | 9.77                   | 0.999        | 2998.9       | 17.49                      | 49.89                        | 84.88                     | 100.00                    | 161.84                         | 558.19                        | 41.24                          | 562.29                        | 376.86                               | 379.90                               |
| 26-Oct-15 | 11:14:40 | 279.5             | 9.23                   | 0.999        | 3002.4       | 17.49                      | 49.92                        | 85.23                     | 100.00                    | 161.81                         | 558.19                        | 41.22                          | 562.28                        | 376.89                               | 379.94                               |
| 26-Oct-15 | 11:14:45 | 279.5             | 9.28                   | 0.999        | 3002.1       | 17.49                      | 49.99                        | 85.17                     | 100.00                    | 161.77                         | 558.19                        | 41.21                          | 562.28                        | 376.86                               | 379.92                               |
| 26-Oct-15 | 11:14:50 | 279.8             | 9.34                   | 0.999        | 3000.7       | 17.49                      | 50.01                        | 84.58                     | 100.00                    | 161.72                         | 558.19                        | 41.20                          | 562.28                        | 376.86                               | 379.95                               |
| 26-Oct-15 | 11:14:55 | 280.1             | 9.39                   | 0.999        | 2999.3       | 17.48                      | 49.98                        | 84.18                     | 100.00                    | 161.67                         | 558.20                        | 41.19                          | 562.28                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:15:00 | 279.5             | 9.45                   | 0.999        | 3001.5       | 17.48                      | 49.98                        | 85.16                     | 100.00                    | 161.62                         | 558.20                        | 41.19                          | 562.28                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:15:05 | 279.2             | 9.50                   | 0.999        | 3004.7       | 17.48                      | 49.99                        | 85.80                     | 100.00                    | 161.60                         | 558.20                        | 41.19                          | 562.28                        | 376.86                               | 379.91                               |
| 26-Oct-15 | 11:15:10 | 279.0             | 9.56                   | 0.999        | 3006.5       | 17.48                      | 50.01                        | 86.11                     | 100.00                    | 161.60                         | 558.20                        | 41.19                          | 562.28                        | 376.87                               | 379.90                               |
| 26-Oct-15 | 11:15:15 | 279.0             | 9.62                   | 0.999        | 3007.1       | 17.48                      | 50.04                        | 86.03                     | 100.00                    | 161.60                         | 558.20                        | 41.19                          | 562.28                        | 376.89                               | 379.89                               |
| 26-Oct-15 | 11:15:20 | 279.5             | 9.67                   | 0.999        | 3007.0       | 17.48                      | 50.06                        | 85.72                     | 100.00                    | 161.60                         | 558.20                        | 41.19                          | 562.28                        | 376.89                               | 379.88                               |
| 26-Oct-15 | 11:15:25 | 280.0             | 9.73                   | 0.999        | 3005.2       | 17.48                      | 50.04                        | 85.41                     | 100.00                    | 161.59                         | 558.22                        | 41.19                          | 562.29                        | 376.90                               | 379.91                               |
| 26-Oct-15 | 11:15:30 | 280.1             | 9.78                   | 0.999        | 2999.3       | 17.48                      | 49.99                        | 85.27                     | 100.00                    | 161.57                         | 558.24                        | 41.1                           |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:19:40 | 278.9             | 9.63                   | 0.999        | 3014.9       | 17.48                      | 50.19                        | 84.46                     | 100.00                    | 160.40                         | 560.14                        | 40.98                          | 565.70                        | 377.02                               | 379.91                               |
| 26-Oct-15 | 11:19:45 | 278.9             | 9.19                   | 0.999        | 3013.1       | 17.48                      | 50.20                        | 84.64                     | 100.00                    | 160.40                         | 560.21                        | 40.98                          | 565.70                        | 377.03                               | 379.91                               |
| 26-Oct-15 | 11:19:50 | 278.6             | 7.88                   | 1.000        | 3014.0       | 17.48                      | 50.20                        | 85.27                     | 100.00                    | 160.40                         | 560.28                        | 40.98                          | 565.70                        | 377.04                               | 379.91                               |
| 26-Oct-15 | 11:19:55 | 278.8             | 8.85                   | 0.999        | 3013.0       | 17.48                      | 50.21                        | 84.36                     | 100.00                    | 160.40                         | 560.34                        | 40.98                          | 565.70                        | 377.04                               | 379.91                               |
| 26-Oct-15 | 11:20:00 | 279.4             | 9.75                   | 0.999        | 3013.1       | 17.48                      | 50.21                        | 84.53                     | 100.00                    | 160.40                         | 560.34                        | 40.98                          | 565.70                        | 377.05                               | 379.91                               |
| 26-Oct-15 | 11:20:05 | 278.4             | 7.82                   | 1.000        | 3014.7       | 17.48                      | 50.21                        | 85.09                     | 100.00                    | 160.40                         | 560.34                        | 40.98                          | 565.70                        | 377.02                               | 379.91                               |
| 26-Oct-15 | 11:20:10 | 278.2             | 7.82                   | 1.000        | 3013.2       | 17.48                      | 50.22                        | 85.02                     | 100.00                    | 160.40                         | 560.34                        | 40.98                          | 565.70                        | 377.06                               | 379.93                               |
| 26-Oct-15 | 11:20:15 | 279.2             | 7.82                   | 1.000        | 3011.7       | 17.48                      | 50.20                        | 83.97                     | 100.00                    | 160.40                         | 560.34                        | 40.98                          | 565.70                        | 377.07                               | 379.91                               |
| 26-Oct-15 | 11:20:20 | 279.4             | 7.82                   | 1.000        | 3011.2       | 17.48                      | 50.17                        | 83.45                     | 100.00                    | 160.40                         | 560.36                        | 40.98                          | 565.70                        | 377.09                               | 379.94                               |
| 26-Oct-15 | 11:20:25 | 278.9             | 7.82                   | 1.000        | 3011.4       | 17.48                      | 50.13                        | 83.73                     | 100.00                    | 160.39                         | 560.53                        | 40.98                          | 565.96                        | 377.09                               | 379.96                               |
| 26-Oct-15 | 11:20:30 | 277.9             | 7.82                   | 1.000        | 3018.1       | 17.48                      | 50.18                        | 84.73                     | 100.00                    | 160.38                         | 560.70                        | 40.98                          | 566.23                        | 377.10                               | 379.97                               |
| 26-Oct-15 | 11:20:35 | 278.8             | 7.82                   | 1.000        | 3016.7       | 17.48                      | 50.23                        | 84.18                     | 100.00                    | 160.37                         | 560.86                        | 40.98                          | 566.50                        | 377.12                               | 379.98                               |
| 26-Oct-15 | 11:20:40 | 279.4             | 7.82                   | 1.000        | 3015.1       | 17.48                      | 50.23                        | 83.31                     | 100.00                    | 160.38                         | 561.03                        | 40.98                          | 566.77                        | 377.13                               | 379.96                               |
| 26-Oct-15 | 11:20:45 | 279.4             | 7.77                   | 1.000        | 3015.2       | 17.48                      | 50.20                        | 82.43                     | 100.00                    | 160.41                         | 561.20                        | 40.98                          | 566.88                        | 377.10                               | 379.96                               |
| 26-Oct-15 | 11:20:50 | 278.8             | 7.51                   | 1.000        | 3015.0       | 17.48                      | 50.19                        | 83.25                     | 100.00                    | 160.44                         | 561.37                        | 40.99                          | 566.94                        | 377.14                               | 379.96                               |
| 26-Oct-15 | 11:20:55 | 278.9             | 7.25                   | 1.000        | 3017.6       | 17.48                      | 50.21                        | 82.99                     | 100.00                    | 160.47                         | 561.52                        | 40.99                          | 566.99                        | 377.16                               | 380.00                               |
| 26-Oct-15 | 11:21:00 | 279.1             | 6.99                   | 1.000        | 3022.9       | 17.48                      | 50.22                        | 82.73                     | 100.00                    | 160.50                         | 561.60                        | 41.00                          | 567.04                        | 377.16                               | 380.01                               |
| 26-Oct-15 | 11:21:05 | 279.2             | 6.77                   | 1.000        | 3015.0       | 17.48                      | 50.22                        | 82.47                     | 100.00                    | 160.53                         | 561.68                        | 41.01                          | 567.10                        | 377.13                               | 380.02                               |
| 26-Oct-15 | 11:21:10 | 279.5             | 7.85                   | 1.000        | 3015.0       | 17.48                      | 50.21                        | 82.45                     | 100.00                    | 160.56                         | 561.76                        | 41.01                          | 567.15                        | 377.17                               | 379.99                               |
| 26-Oct-15 | 11:21:15 | 279.8             | 8.26                   | 1.000        | 3018.8       | 17.47                      | 50.19                        | 81.47                     | 100.00                    | 160.60                         | 561.84                        | 41.02                          | 567.20                        | 377.19                               | 380.03                               |
| 26-Oct-15 | 11:21:20 | 278.8             | 7.06                   | 1.000        | 3022.6       | 17.47                      | 50.18                        | 82.61                     | 100.00                    | 160.65                         | 561.91                        | 41.02                          | 567.26                        | 377.21                               | 380.04                               |
| 26-Oct-15 | 11:21:25 | 279.9             | 8.29                   | 1.000        | 3019.1       | 17.46                      | 50.17                        | 82.05                     | 100.00                    | 160.70                         | 561.99                        | 41.03                          | 567.31                        | 377.22                               | 380.05                               |
| 26-Oct-15 | 11:21:30 | 280.6             | 12.92                  | 0.999        | 3007.3       | 17.46                      | 50.15                        | 80.08                     | 100.00                    | 160.74                         | 562.07                        | 41.03                          | 567.37                        | 377.23                               | 380.05                               |
| 26-Oct-15 | 11:21:35 | 279.2             | 8.99                   | 0.999        | 3011.1       | 17.45                      | 50.12                        | 82.16                     | 100.00                    | 160.77                         | 562.15                        | 41.03                          | 567.42                        | 377.24                               | 380.06                               |
| 26-Oct-15 | 11:21:40 | 279.0             | 8.51                   | 1.000        | 3013.2       | 17.45                      | 50.14                        | 81.80                     | 100.00                    | 160.77                         | 562.23                        | 41.03                          | 567.47                        | 377.24                               | 380.07                               |
| 26-Oct-15 | 11:21:45 | 279.3             | 8.03                   | 1.000        | 3015.2       | 17.44                      | 50.16                        | 81.44                     | 100.00                    | 160.77                         | 562.31                        | 41.03                          | 567.47                        | 377.24                               | 380.07                               |
| 26-Oct-15 | 11:21:50 | 279.8             | 7.54                   | 1.000        | 3011.4       | 17.44                      | 50.18                        | 80.85                     | 100.00                    | 160.77                         | 562.38                        | 41.03                          | 567.47                        | 377.28                               | 380.07                               |
| 26-Oct-15 | 11:21:55 | 279.4             | 7.06                   | 1.000        | 3017.3       | 17.43                      | 50.19                        | 81.62                     | 100.00                    | 160.77                         | 562.46                        | 41.03                          | 567.47                        | 377.29                               | 380.08                               |
| 26-Oct-15 | 11:22:00 | 279.5             | 6.68                   | 1.000        | 3017.6       | 17.42                      | 50.20                        | 81.59                     | 100.00                    | 160.78                         | 562.49                        | 41.03                          | 567.47                        | 377.30                               | 380.08                               |
| 26-Oct-15 | 11:22:05 | 279.6             | 6.32                   | 1.000        | 3019.1       | 17.42                      | 50.21                        | 81.30                     | 100.00                    | 160.86                         | 562.51                        | 41.05                          | 567.51                        | 377.31                               | 380.09                               |
| 26-Oct-15 | 11:22:10 | 279.7             | 5.97                   | 1.000        | 3017.2       | 17.42                      | 50.19                        | 80.54                     | 100.00                    | 160.93                         | 562.53                        | 41.07                          | 567.55                        | 377.32                               | 380.10                               |
| 26-Oct-15 | 11:22:15 | 280.1             | 5.61                   | 1.000        | 3016.0       | 17.42                      | 50.17                        | 80.94                     | 100.00                    | 161.00                         | 562.55                        | 41.08                          | 567.59                        | 377.30                               | 380.10                               |
| 26-Oct-15 | 11:22:20 | 279.2             | 5.25                   | 1.000        | 3019.1       | 17.42                      | 50.20                        | 82.01                     | 100.00                    | 161.07                         | 562.57                        | 41.09                          | 567.63                        | 377.32                               | 380.11                               |
| 26-Oct-15 | 11:22:25 | 280.1             | 5.79                   | 1.000        | 3015.0       | 17.42                      | 50.21                        | 81.06                     | 100.00                    | 161.15                         | 562.59                        | 41.10                          | 567.68                        | 377.33                               | 380.12                               |
| 26-Oct-15 | 11:22:30 | 281.1             | 6.72                   | 1.000        | 3012.4       | 17.42                      | 50.17                        | 79.60                     | 100.00                    | 161.20                         | 562.61                        | 41.10                          | 567.72                        | 377.33                               | 380.13                               |
| 26-Oct-15 | 11:22:35 | 280.3             | 6.25                   | 1.000        | 3011.6       | 17.42                      | 50.18                        | 80.30                     | 100.00                    | 161.24                         | 562.63                        | 41.11                          | 567.76                        | 377.34                               | 380.14                               |
| 26-Oct-15 | 11:22:40 | 280.3             | 5.79                   | 1.000        | 3011.2       | 17.42                      | 50.20                        | 80.66                     | 100.00                    | 161.27                         | 562.65                        | 41.12                          | 567.81                        | 377.35                               | 380.15                               |
| 26-Oct-15 | 11:22:45 | 279.5             | 5.33                   | 1.000        | 3020.5       | 17.42                      | 50.21                        | 81.27                     | 100.00                    | 161.31                         | 562.67                        | 41.13                          | 567.81                        | 377.35                               | 380.16                               |
| 26-Oct-15 | 11:22:50 | 280.2             | 5.17                   | 1.000        | 3019.1       | 17.42                      | 50.21                        | 80.52                     | 100.00                    | 161.34                         | 562.69                        | 41.13                          | 567.81                        | 377.37                               | 380.17                               |
| 26-Oct-15 | 11:22:55 | 280.7             | 6.04                   | 1.000        | 3015.2       | 17.42                      | 50.21                        | 79.89                     | 100.00                    | 161.38                         | 562.71                        | 41.14                          | 567.81                        | 377.38                               | 380.17                               |
| 26-Oct-15 | 11:23:00 | 280.4             | 6.87                   | 1.000        | 3016.5       | 17.42                      | 50.20                        | 79.67                     | 100.00                    | 161.41                         | 562.73                        | 41.15                          | 567.81                        | 377.38                               | 380.18                               |
| 26-Oct-15 | 11:23:05 | 280.3             | 6.10                   | 1.000        | 3017.8       | 17.42                      | 50.19                        | 79.68                     | 100.00                    | 161.45                         | 562.72                        | 41.16                          | 567.81                        | 377.40                               | 380.20                               |
| 26-Oct-15 | 11:23:10 | 280.2             | 5.34                   | 1.000        | 3019.1       | 17.42                      | 50.18                        | 79.69                     | 100.00                    | 161.49                         | 562.72                        | 41.17                          | 567.81                        | 377.40                               | 380.21                               |
| 26-Oct-15 | 11:23:15 | 280.1             | 6.26                   | 1.000        | 3013.0       | 17.42                      | 50.18                        | 79.69                     | 100.00                    | 161.54                         | 562.72                        | 41.18                          | 567.81                        | 377.40                               | 380.19                               |
| 26-Oct-15 | 11:23:20 | 281.3             | 6.37                   | 1.000        | 3015.0       | 17.42                      | 50.17                        | 78.46                     | 100.00                    | 161.58                         | 562.72                        | 41.18                          | 567.81                        | 377.40                               | 380.22                               |
| 26-Oct-15 | 11:23:25 | 279.9             | 5.81                   | 1.000        | 3017.4       | 17.43                      | 50.20                        | 79.95                     | 100.00                    | 161.59                         | 562.72                        | 41.18                          | 567.81                        | 377.40                               | 380.22                               |
| 26-Oct-15 | 11:23:30 | 280.5             | 5.25                   | 1.000        | 3018.8       | 17.43                      | 50.21                        | 79.18                     | 100.00                    | 161.59                         | 562.72                        | 41.18                          | 567.81                        | 377.40                               | 380.23                               |
| 26-Oct-15 | 11:23:35 | 280.3             | 4.69                   | 1.000        | 3019.1       | 17.43                      | 50.21                        | 79.17                     | 100.00                    | 161.59                         | 562.72                        | 41.18                          | 567.81                        | 377.44                               | 380.24                               |
| 26-Oct-15 | 11:23:40 | 281.0             | 6.06                   | 1.000        | 3015.0       | 17.43                      | 50.20                        | 78.13                     | 100.00                    | 161.61                         | 562.72                        | 41.18                          | 567.81                        | 377.44                               | 380.26                               |
| 26-Oct-15 | 11:23:45 | 280.8             | 6.12                   | 1.000        | 3016.4       | 17.43                      | 50.19                        | 78.37                     | 100.00                    | 161.78                         | 562.70                        | 41.23                          | 568.13                        | 377.45                               | 380.26                               |
| 26-Oct-15 | 11:23:50 | 280.4             | 5.16                   | 1.000        | 3017.2       | 17.43                      | 50.18                        | 78.78                     | 100.00                    | 161.82                         | 562.69                        | 41.24                          | 568.10                        | 377.46                               | 380.27                               |
| 26-Oct-15 | 11:23:55 | 280.7             | 5.52                   | 1.000        | 3017.0       | 17.43                      | 50.18                        | 78.48                     | 100.00                    | 161.85                         | 562.68                        | 41.24                          | 568.08                        | 377.46                               | 380.27                               |
| 26-Oct-15 | 11:24:00 | 280.5             | 6.68                   | 1.000        | 3015.1       | 17.43                      | 50.17                        | 78.34                     | 100.00                    | 161.89                         | 562.62                        | 41.25                          | 568.05                        | 377.47                               | 380.28                               |
| 26-Oct-15 | 11:24:05 | 280.2             | 5.24                   | 1.000        | 3013.4       | 17.43                      | 50.16                        | 79.09                     | 100.00                    | 161.92                         | 562.53                        | 41.25                          | 568.03                        | 377.48                               | 380.28                               |
| 26-Oct-15 | 11:24:10 | 281.1             | 6.97                   | 1.000        | 3011.6       | 17.43                      | 50.14                        | 77.68                     | 100.00                    | 161.95                         | 562.45                        | 41.26                          | 568.00                        | 377.49                               | 380.29                               |
| 26-Oct-15 | 11:24:15 | 281.1             | 6.32                   | 1.000        | 3012.0       | 17.43                      | 50.12                        | 78.37                     | 100.00                    | 161.99                         | 562.37                        | 41.26                          | 567.98                        | 377.49                               | 380.29                               |
| 26-Oct-15 | 11:24:20 | 280.6             | 5.97                   | 1.000        | 3012.5       | 17.43                      | 50.14                        | 78.69                     | 100.00                    | 162.02                         | 562.29                        | 41.27                          | 567.95                        | 377.50                               | 380.30                               |
| 26-Oct-15 | 11:24:25 | 280.8             | 5.03                   | 1.000        | 3015.7       | 17.43                      | 50.17                        | 78.50                     | 100.00                    | 162.06                         | 562.21                        | 41.28                          | 567.93                        | 377.50                               | 380.31                               |
| 26-Oct-15 | 11:24:30 | 280.9             | 4.28                   | 1.000        | 3017.4       | 17.43                      | 50.19                        | 78.51                     | 100.00                    | 162.09                         | 562.12                        | 41.28                          | 567.90                        | 377.50                               | 380.33                               |
| 26-Oct-15 | 11:24:35 | 280.7             | 3.53                   | 1.000        | 3019.1       | 17.43                      | 50.21                        | 78.91                     | 100.00                    | 162.13                         | 562.04                        | 41.29                          | 567.87                        | 377.51                               | 380.30                               |
| 26-Oct-15 | 11:24:40 | 281.2             | 4.29                   | 1.000        | 3011.1       | 17.43                      | 50.21                        | 78.53                     | 100.00                    | 162.17                         | 561.96                        | 41.31                          | 567.85                        | 377.51                               | 380.34                               |
| 26-Oct-15 | 11:24:45 | 281.4             | 5.45                   | 1.000        | 3014.9       | 17.42                      | 50.15                        | 77.46                     | 100.00                    | 162.20                         | 561.88                        | 41.32                          | 567.84                        | 377.51                               | 380.34                               |
| 26-Oct-15 | 11:24:50 | 281.1             | 5.63                   | 1.000        | 3009.1       | 17.42                      | 50.11                        | 77.83                     | 100.00                    | 162.23                         | 561.79                        | 41.33                          | 567.84                        | 377.51                               | 380.35                               |
| 26-Oct-15 | 11:24:55 | 281.0             | 5.80                   | 1.000        | 3007.1       | 17.42                      | 50.10                        | 77.96                     | 100.00                    | 162.26                         | 561.71                        | 41.33                          | 567.84                        | 377.51                               | 380.36                               |
| 26-Oct-15 | 11:25:00 | 281.0             | 5.98                   | 1.000        | 3007.3       | 17.42                      | 50.10                        | 78.08                     | 100.00                    | 162.29                         | 561.67                        | 41.33                          | 567.84                        | 377.51                               | 380.37                               |
| 26-Oct-15 | 11:25:05 | 281.2             | 6.15                   | 1.000        | 3011.5       | 17.42                      | 50.09                        | 78.09                     | 100.00                    | 162.32                         | 561.67                        | 41.33                          | 567.84                        | 377.51                               | 380.37                               |
| 26-Oct-15 | 11:25:10 | 281.3             | 6.33                   | 1.000        | 3010.6       | 17.42                      | 50.08                        | 77.66                     | 100.00                    | 162.35                         | 561.67                        | 41.33                          | 567.84                        | 377.55                               | 380.38                               |
| 26-Oct-15 | 11:25:15 | 281.2             | 6.50                   | 1.000        | 3007.0       | 17.42                      | 50.07                        | 77.82                     | 100.00                    | 162.38                         | 561.67                        | 41.33                          | 567.84                        | 377.55                               | 380.39                               |
| 26-Oct-15 | 11:25:20 | 281.0             | 6.68                   | 1.000        | 3007.0       | 17.42                      | 50.07                        | 77.98                     | 100.00                    | 162.40                         | 561.66                        | 41.33                          | 567.84                        | 377.56                               | 380.39                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:29:30 | 280.6             | 5.82                   | 1.000        | 3015.0       | 17.43                      | 50.12                        | 82.46                     | 100.00                    | 162.56                         | 558.62                        | 41.39                          | 564.86                        | 377.79                               | 380.64                               |
| 26-Oct-15 | 11:29:35 | 280.4             | 7.00                   | 1.000        | 3015.8       | 17.44                      | 50.19                        | 84.02                     | 100.00                    | 162.56                         | 558.58                        | 41.39                          | 564.84                        | 377.80                               | 380.68                               |
| 26-Oct-15 | 11:29:40 | 281.2             | 7.23                   | 1.000        | 3016.7       | 17.44                      | 50.22                        | 82.51                     | 100.00                    | 162.56                         | 558.54                        | 41.39                          | 564.82                        | 377.80                               | 380.68                               |
| 26-Oct-15 | 11:29:45 | 280.7             | 7.45                   | 1.000        | 3017.6       | 17.44                      | 50.21                        | 83.10                     | 100.00                    | 162.53                         | 558.50                        | 41.39                          | 564.80                        | 377.81                               | 380.68                               |
| 26-Oct-15 | 11:29:50 | 280.6             | 7.68                   | 1.000        | 3018.4       | 17.45                      | 50.20                        | 82.99                     | 100.00                    | 162.50                         | 558.46                        | 41.39                          | 564.80                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:29:55 | 280.5             | 7.91                   | 1.000        | 3018.3       | 17.45                      | 50.20                        | 82.68                     | 100.00                    | 162.47                         | 558.43                        | 41.39                          | 564.80                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:30:00 | 280.9             | 8.13                   | 1.000        | 3014.7       | 17.45                      | 50.19                        | 82.36                     | 100.00                    | 162.44                         | 558.42                        | 41.39                          | 564.80                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:30:05 | 281.0             | 8.36                   | 1.000        | 3013.6       | 17.46                      | 50.19                        | 82.66                     | 100.00                    | 162.41                         | 558.42                        | 41.39                          | 564.80                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:30:10 | 280.7             | 8.58                   | 1.000        | 3012.5       | 17.46                      | 50.18                        | 83.22                     | 100.00                    | 162.38                         | 558.42                        | 41.39                          | 564.80                        | 377.82                               | 380.67                               |
| 26-Oct-15 | 11:30:15 | 280.8             | 8.81                   | 1.000        | 3011.4       | 17.46                      | 50.17                        | 83.17                     | 100.00                    | 162.36                         | 558.42                        | 41.39                          | 564.80                        | 377.82                               | 380.67                               |
| 26-Oct-15 | 11:30:20 | 280.4             | 8.54                   | 1.000        | 3015.0       | 17.46                      | 50.17                        | 83.81                     | 100.00                    | 162.36                         | 558.42                        | 41.39                          | 564.80                        | 377.82                               | 380.67                               |
| 26-Oct-15 | 11:30:25 | 280.2             | 7.23                   | 1.000        | 3015.0       | 17.46                      | 50.20                        | 83.89                     | 100.00                    | 162.34                         | 558.45                        | 41.37                          | 564.84                        | 377.82                               | 380.67                               |
| 26-Oct-15 | 11:30:30 | 280.1             | 8.10                   | 1.000        | 3021.8       | 17.46                      | 50.21                        | 83.79                     | 100.00                    | 162.32                         | 558.48                        | 41.35                          | 564.87                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:30:35 | 281.9             | 8.94                   | 0.999        | 3012.1       | 17.46                      | 50.19                        | 82.78                     | 100.00                    | 162.30                         | 558.51                        | 41.34                          | 564.91                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:30:40 | 280.7             | 8.94                   | 0.999        | 3011.2       | 17.46                      | 50.17                        | 83.34                     | 100.00                    | 162.28                         | 558.53                        | 41.34                          | 564.94                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:30:45 | 280.5             | 8.69                   | 1.000        | 3015.5       | 17.46                      | 50.17                        | 84.18                     | 100.00                    | 162.26                         | 558.56                        | 41.34                          | 564.97                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:30:50 | 280.7             | 7.56                   | 1.000        | 3016.3       | 17.46                      | 50.18                        | 83.81                     | 100.00                    | 162.24                         | 558.59                        | 41.34                          | 564.98                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:30:55 | 280.9             | 8.33                   | 1.000        | 3017.0       | 17.47                      | 50.19                        | 83.90                     | 100.00                    | 162.22                         | 558.62                        | 41.33                          | 564.99                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:31:00 | 280.7             | 8.02                   | 1.000        | 3017.7       | 17.47                      | 50.20                        | 84.00                     | 100.00                    | 162.20                         | 558.64                        | 41.33                          | 565.00                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:31:05 | 280.1             | 7.00                   | 1.000        | 3018.4       | 17.48                      | 50.21                        | 84.02                     | 100.00                    | 162.18                         | 558.66                        | 41.33                          | 565.01                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:31:10 | 280.4             | 7.38                   | 1.000        | 3019.1       | 17.48                      | 50.21                        | 83.73                     | 100.00                    | 162.16                         | 558.68                        | 41.33                          | 565.03                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:31:15 | 280.9             | 7.75                   | 1.000        | 3015.0       | 17.48                      | 50.20                        | 83.45                     | 100.00                    | 162.14                         | 558.69                        | 41.32                          | 565.04                        | 377.82                               | 380.64                               |
| 26-Oct-15 | 11:31:20 | 280.6             | 8.14                   | 1.000        | 3013.4       | 17.48                      | 50.19                        | 83.58                     | 100.00                    | 162.11                         | 558.71                        | 41.32                          | 565.05                        | 377.82                               | 380.64                               |
| 26-Oct-15 | 11:31:25 | 280.6             | 8.52                   | 1.000        | 3011.1       | 17.48                      | 50.18                        | 83.89                     | 100.00                    | 162.09                         | 558.73                        | 41.32                          | 565.06                        | 377.82                               | 380.64                               |
| 26-Oct-15 | 11:31:30 | 280.0             | 8.90                   | 0.999        | 3009.3       | 17.48                      | 50.15                        | 84.18                     | 100.00                    | 162.06                         | 558.75                        | 41.32                          | 565.07                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:31:35 | 280.4             | 8.80                   | 1.000        | 3009.5       | 17.48                      | 50.12                        | 84.38                     | 100.00                    | 162.04                         | 558.77                        | 41.32                          | 565.08                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:31:40 | 280.2             | 8.59                   | 1.000        | 3008.5       | 17.48                      | 50.14                        | 84.57                     | 100.00                    | 162.01                         | 558.79                        | 41.32                          | 565.10                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:31:45 | 279.9             | 8.39                   | 1.000        | 3014.0       | 17.48                      | 50.15                        | 84.64                     | 100.00                    | 161.98                         | 558.81                        | 41.32                          | 565.10                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:31:50 | 280.1             | 8.18                   | 1.000        | 3011.2       | 17.48                      | 50.16                        | 84.54                     | 100.00                    | 161.96                         | 558.83                        | 41.32                          | 565.10                        | 377.81                               | 380.64                               |
| 26-Oct-15 | 11:31:55 | 280.5             | 7.98                   | 1.000        | 3013.4       | 17.47                      | 50.15                        | 83.79                     | 100.00                    | 161.95                         | 558.85                        | 41.32                          | 565.10                        | 377.79                               | 380.64                               |
| 26-Oct-15 | 11:32:00 | 280.8             | 7.78                   | 1.000        | 3008.5       | 17.47                      | 50.12                        | 83.32                     | 100.00                    | 161.95                         | 558.85                        | 41.32                          | 565.10                        | 377.78                               | 380.65                               |
| 26-Oct-15 | 11:32:05 | 280.5             | 7.57                   | 1.000        | 3007.1       | 17.47                      | 50.12                        | 83.25                     | 100.00                    | 161.92                         | 558.86                        | 41.31                          | 565.12                        | 377.81                               | 380.65                               |
| 26-Oct-15 | 11:32:10 | 280.6             | 7.37                   | 1.000        | 3007.3       | 17.47                      | 50.12                        | 83.87                     | 100.00                    | 161.89                         | 558.87                        | 41.31                          | 565.13                        | 377.81                               | 380.65                               |
| 26-Oct-15 | 11:32:15 | 280.2             | 7.17                   | 1.000        | 3007.3       | 17.47                      | 50.12                        | 83.95                     | 100.00                    | 161.86                         | 558.88                        | 41.30                          | 565.15                        | 377.80                               | 380.66                               |
| 26-Oct-15 | 11:32:20 | 280.0             | 7.79                   | 1.000        | 3011.4       | 17.47                      | 50.12                        | 83.77                     | 100.00                    | 161.83                         | 558.89                        | 41.30                          | 565.17                        | 377.79                               | 380.66                               |
| 26-Oct-15 | 11:32:25 | 280.7             | 8.88                   | 1.000        | 3007.2       | 17.47                      | 50.10                        | 83.15                     | 100.00                    | 161.80                         | 558.90                        | 41.30                          | 565.18                        | 377.78                               | 380.66                               |
| 26-Oct-15 | 11:32:30 | 280.4             | 7.72                   | 1.000        | 3007.2       | 17.48                      | 50.06                        | 83.45                     | 100.00                    | 161.77                         | 558.91                        | 41.29                          | 565.20                        | 377.78                               | 380.67                               |
| 26-Oct-15 | 11:32:35 | 279.6             | 8.00                   | 1.000        | 3008.4       | 17.48                      | 50.06                        | 84.54                     | 100.00                    | 161.74                         | 558.92                        | 41.28                          | 565.22                        | 377.79                               | 380.67                               |
| 26-Oct-15 | 11:32:40 | 280.3             | 8.93                   | 0.999        | 3008.1       | 17.48                      | 50.06                        | 83.56                     | 100.00                    | 161.67                         | 558.93                        | 41.27                          | 565.23                        | 377.80                               | 380.67                               |
| 26-Oct-15 | 11:32:45 | 279.8             | 8.81                   | 1.000        | 3009.9       | 17.48                      | 50.06                        | 84.00                     | 100.00                    | 161.61                         | 558.94                        | 41.26                          | 565.24                        | 377.80                               | 380.67                               |
| 26-Oct-15 | 11:32:50 | 280.0             | 8.74                   | 1.000        | 3010.3       | 17.48                      | 50.06                        | 84.42                     | 100.00                    | 161.55                         | 558.95                        | 41.26                          | 565.25                        | 377.80                               | 380.65                               |
| 26-Oct-15 | 11:32:55 | 280.0             | 8.66                   | 1.000        | 3010.8       | 17.48                      | 50.06                        | 83.73                     | 100.00                    | 161.49                         | 558.96                        | 41.25                          | 565.24                        | 377.81                               | 380.64                               |
| 26-Oct-15 | 11:33:00 | 279.6             | 8.58                   | 1.000        | 3007.1       | 17.48                      | 50.06                        | 84.43                     | 100.00                    | 161.43                         | 558.97                        | 41.24                          | 565.24                        | 377.79                               | 380.65                               |
| 26-Oct-15 | 11:33:05 | 279.9             | 8.50                   | 1.000        | 3009.2       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.37                         | 558.97                        | 41.23                          | 565.24                        | 377.79                               | 380.66                               |
| 26-Oct-15 | 11:33:10 | 279.8             | 8.41                   | 1.000        | 3007.2       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.33                         | 558.97                        | 41.22                          | 565.24                        | 377.81                               | 380.66                               |
| 26-Oct-15 | 11:33:15 | 279.6             | 8.33                   | 1.000        | 3008.9       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.29                         | 558.97                        | 41.21                          | 565.24                        | 377.79                               | 380.67                               |
| 26-Oct-15 | 11:33:20 | 279.7             | 8.25                   | 1.000        | 3007.0       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.26                         | 558.97                        | 41.20                          | 565.24                        | 377.79                               | 380.68                               |
| 26-Oct-15 | 11:33:25 | 279.7             | 8.17                   | 1.000        | 3007.7       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.23                         | 558.97                        | 41.19                          | 565.24                        | 377.82                               | 380.68                               |
| 26-Oct-15 | 11:33:30 | 279.5             | 8.08                   | 1.000        | 3007.0       | 17.49                      | 50.06                        | 84.43                     | 100.00                    | 161.19                         | 558.97                        | 41.19                          | 565.24                        | 377.82                               | 380.66                               |
| 26-Oct-15 | 11:33:35 | 279.4             | 8.00                   | 1.000        | 3004.9       | 17.49                      | 50.05                        | 84.43                     | 100.00                    | 161.16                         | 558.97                        | 41.19                          | 565.24                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:33:40 | 279.3             | 7.95                   | 1.000        | 3004.6       | 17.49                      | 50.04                        | 84.43                     | 100.00                    | 161.14                         | 558.95                        | 41.19                          | 565.24                        | 377.82                               | 380.65                               |
| 26-Oct-15 | 11:33:45 | 279.2             | 7.95                   | 1.000        | 3007.0       | 17.49                      | 50.03                        | 84.43                     | 100.00                    | 161.15                         | 558.82                        | 41.19                          | 565.21                        | 377.83                               | 380.67                               |
| 26-Oct-15 | 11:33:50 | 279.6             | 7.95                   | 1.000        | 3009.4       | 17.49                      | 50.02                        | 85.45                     | 100.00                    | 161.15                         | 558.70                        | 41.18                          | 565.22                        | 377.83                               | 380.66                               |
| 26-Oct-15 | 11:33:55 | 279.9             | 7.95                   | 1.000        | 3001.3       | 17.49                      | 50.01                        | 84.14                     | 100.00                    | 161.16                         | 558.57                        | 41.18                          | 565.23                        | 377.83                               | 380.64                               |
| 26-Oct-15 | 11:34:00 | 279.7             | 7.95                   | 1.000        | 2999.4       | 17.49                      | 50.01                        | 84.62                     | 100.00                    | 161.16                         | 558.51                        | 41.18                          | 565.24                        | 377.84                               | 380.68                               |
| 26-Oct-15 | 11:34:05 | 279.2             | 7.97                   | 1.000        | 3006.3       | 17.48                      | 50.02                        | 85.30                     | 100.00                    | 161.17                         | 558.49                        | 41.17                          | 565.26                        | 377.84                               | 380.68                               |
| 26-Oct-15 | 11:34:10 | 279.6             | 8.03                   | 1.000        | 3007.2       | 17.48                      | 50.05                        | 84.00                     | 100.00                    | 161.17                         | 558.48                        | 41.17                          | 565.27                        | 377.84                               | 380.69                               |
| 26-Oct-15 | 11:34:15 | 279.0             | 8.00                   | 1.000        | 3003.2       | 17.48                      | 50.04                        | 84.41                     | 100.00                    | 161.18                         | 558.47                        | 41.17                          | 565.28                        | 377.85                               | 380.69                               |
| 26-Oct-15 | 11:34:20 | 279.9             | 8.16                   | 1.000        | 3002.3       | 17.47                      | 50.02                        | 84.71                     | 100.00                    | 161.19                         | 558.46                        | 41.16                          | 565.29                        | 377.85                               | 380.70                               |
| 26-Oct-15 | 11:34:25 | 279.3             | 8.07                   | 1.000        | 3001.4       | 17.47                      | 50.01                        | 85.00                     | 100.00                    | 161.19                         | 558.44                        | 41.16                          | 565.31                        | 377.85                               | 380.70                               |
| 26-Oct-15 | 11:34:30 | 279.9             | 8.29                   | 1.000        | 3000.5       | 17.47                      | 50.00                        | 84.65                     | 100.00                    | 161.20                         | 558.43                        | 41.16                          | 565.32                        | 377.83                               | 380.71                               |
| 26-Oct-15 | 11:34:35 | 279.9             | 8.36                   | 1.000        | 2999.7       | 17.47                      | 49.99                        | 84.82                     | 100.00                    | 161.20                         | 558.42                        | 41.17                          | 565.33                        | 377.83                               | 380.71                               |
| 26-Oct-15 | 11:34:40 | 279.7             | 8.40                   | 1.000        | 3000.6       | 17.47                      | 49.98                        | 84.99                     | 100.00                    | 161.22                         | 558.40                        | 41.18                          | 565.35                        | 377.85                               | 380.72                               |
| 26-Oct-15 | 11:34:45 | 279.9             | 8.43                   | 1.000        | 3001.0       | 17.46                      | 49.97                        | 85.16                     | 100.00                    | 161.27                         | 558.39                        | 41.19                          | 565.36                        | 377.82                               | 380.73                               |
| 26-Oct-15 | 11:34:50 | 279.6             | 8.46                   | 1.000        | 3004.0       | 17.46                      | 49.97                        | 85.32                     | 100.00                    | 161.32                         | 558.38                        | 41.20                          | 565.36                        | 377.84                               | 380.74                               |
| 26-Oct-15 | 11:34:55 | 279.7             | 8.49                   | 1.000        | 3007.2       | 17.46                      | 50.01                        | 85.18                     | 100.00                    | 161.37                         | 558.36                        | 41.20                          | 565.36                        | 377.85                               | 380.75                               |
| 26-Oct-15 | 11:35:00 | 280.0             | 8.52                   | 1.000        | 3007.4       | 17.46                      | 50.06                        | 84.59                     | 100.00                    | 161.41                         | 558.36                        | 41.21                          | 565.36                        | 377.85                               | 380.73                               |
| 26-Oct-15 | 11:35:05 | 280.9             | 8.55                   | 1.000        | 2999.3       | 17.46                      | 50.01                        | 83.49                     | 100.00                    | 161.41                         | 558.36                        | 41.21                          | 565.36                        | 377.85                               | 380.71                               |
| 26-Oct-15 | 11:35:10 | 280.4             | 8.58                   | 1.000        | 3002.8       | 17.45                      | 49.96                        | 83.92                     | 100.00                    | 161.41                         | 558.36                        | 41.21                          | 565.36                        | 377.89                               | 380.75                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:39:20 | 280.2             | 10.16                  | 0.999        | 2987.8       | 17.48                      | 49.75                        | 83.05                     | 100.00                    | 161.79                         | 558.26                        | 41.12                          | 565.50                        | 378.69                               | 381.65                               |
| 26-Oct-15 | 11:39:25 | 280.0             | 10.12                  | 0.999        | 2991.6       | 17.48                      | 49.76                        | 83.06                     | 100.00                    | 161.80                         | 558.32                        | 41.13                          | 565.54                        | 378.70                               | 381.66                               |
| 26-Oct-15 | 11:39:30 | 280.1             | 10.09                  | 0.999        | 2991.6       | 17.48                      | 49.76                        | 82.59                     | 100.00                    | 161.82                         | 558.38                        | 41.13                          | 565.57                        | 378.71                               | 381.68                               |
| 26-Oct-15 | 11:39:35 | 279.9             | 10.07                  | 0.999        | 2989.8       | 17.48                      | 49.76                        | 82.79                     | 100.00                    | 161.84                         | 558.43                        | 41.13                          | 565.61                        | 378.72                               | 381.70                               |
| 26-Oct-15 | 11:39:40 | 280.3             | 10.04                  | 0.999        | 2987.5       | 17.48                      | 49.76                        | 82.98                     | 100.00                    | 161.86                         | 558.49                        | 41.13                          | 565.65                        | 378.73                               | 381.71                               |
| 26-Oct-15 | 11:39:45 | 280.6             | 10.02                  | 0.999        | 2989.2       | 17.48                      | 49.76                        | 83.17                     | 100.00                    | 161.88                         | 558.54                        | 41.13                          | 565.69                        | 378.74                               | 381.74                               |
| 26-Oct-15 | 11:39:50 | 280.6             | 9.99                   | 0.999        | 2987.6       | 17.48                      | 49.76                        | 83.37                     | 100.00                    | 161.88                         | 558.60                        | 41.13                          | 565.69                        | 378.75                               | 381.75                               |
| 26-Oct-15 | 11:39:55 | 279.9             | 9.97                   | 0.999        | 2987.3       | 17.48                      | 49.75                        | 83.56                     | 100.00                    | 161.88                         | 558.66                        | 41.13                          | 565.69                        | 378.77                               | 381.76                               |
| 26-Oct-15 | 11:40:00 | 280.2             | 9.94                   | 0.999        | 2991.3       | 17.48                      | 49.75                        | 83.12                     | 100.00                    | 161.88                         | 558.70                        | 41.13                          | 565.69                        | 378.77                               | 381.78                               |
| 26-Oct-15 | 11:40:05 | 280.5             | 9.91                   | 0.999        | 2991.1       | 17.48                      | 49.75                        | 82.69                     | 100.00                    | 161.88                         | 558.70                        | 41.13                          | 565.69                        | 378.77                               | 381.78                               |
| 26-Oct-15 | 11:40:10 | 280.5             | 9.89                   | 0.999        | 2990.4       | 17.48                      | 49.75                        | 82.52                     | 100.00                    | 161.88                         | 558.70                        | 41.13                          | 565.69                        | 378.80                               | 381.81                               |
| 26-Oct-15 | 11:40:15 | 280.3             | 9.86                   | 0.999        | 2989.5       | 17.48                      | 49.75                        | 82.52                     | 100.00                    | 161.88                         | 558.70                        | 41.13                          | 565.69                        | 378.82                               | 381.80                               |
| 26-Oct-15 | 11:40:20 | 280.4             | 9.84                   | 0.999        | 2989.4       | 17.48                      | 49.75                        | 82.52                     | 100.00                    | 161.88                         | 558.71                        | 41.13                          | 565.69                        | 378.83                               | 381.83                               |
| 26-Oct-15 | 11:40:25 | 280.6             | 9.84                   | 0.999        | 2987.6       | 17.48                      | 49.75                        | 82.52                     | 100.00                    | 161.89                         | 558.77                        | 41.15                          | 565.74                        | 378.85                               | 381.85                               |
| 26-Oct-15 | 11:40:30 | 280.2             | 9.84                   | 0.999        | 2989.4       | 17.48                      | 49.77                        | 82.97                     | 100.00                    | 161.90                         | 558.83                        | 41.15                          | 565.81                        | 378.86                               | 381.85                               |
| 26-Oct-15 | 11:40:35 | 279.8             | 9.84                   | 0.999        | 2991.7       | 17.48                      | 49.79                        | 83.70                     | 100.00                    | 161.90                         | 558.89                        | 41.16                          | 565.87                        | 378.88                               | 381.84                               |
| 26-Oct-15 | 11:40:40 | 279.9             | 9.84                   | 0.999        | 2995.6       | 17.48                      | 49.80                        | 83.31                     | 100.00                    | 161.91                         | 558.95                        | 41.16                          | 565.93                        | 378.86                               | 381.87                               |
| 26-Oct-15 | 11:40:45 | 280.0             | 9.88                   | 0.999        | 2999.2       | 17.48                      | 49.85                        | 82.92                     | 100.00                    | 161.93                         | 559.01                        | 41.16                          | 565.99                        | 378.89                               | 381.88                               |
| 26-Oct-15 | 11:40:50 | 280.8             | 10.05                  | 0.999        | 2992.0       | 17.48                      | 49.86                        | 82.74                     | 100.00                    | 161.96                         | 559.08                        | 41.17                          | 566.04                        | 378.90                               | 381.90                               |
| 26-Oct-15 | 11:40:55 | 280.2             | 10.23                  | 0.999        | 2995.4       | 17.48                      | 49.87                        | 83.34                     | 100.00                    | 161.99                         | 559.14                        | 41.17                          | 566.10                        | 378.92                               | 381.92                               |
| 26-Oct-15 | 11:41:00 | 280.2             | 10.40                  | 0.999        | 2999.3       | 17.48                      | 49.87                        | 83.69                     | 100.00                    | 162.01                         | 559.20                        | 41.17                          | 566.15                        | 378.91                               | 381.94                               |
| 26-Oct-15 | 11:41:05 | 280.5             | 10.58                  | 0.999        | 2998.4       | 17.48                      | 49.88                        | 83.50                     | 100.00                    | 162.04                         | 559.25                        | 41.18                          | 566.21                        | 378.93                               | 381.96                               |
| 26-Oct-15 | 11:41:10 | 280.1             | 10.75                  | 0.999        | 2995.4       | 17.49                      | 49.89                        | 83.31                     | 100.00                    | 162.07                         | 559.31                        | 41.18                          | 566.26                        | 378.94                               | 381.97                               |
| 26-Oct-15 | 11:41:15 | 280.2             | 10.93                  | 0.999        | 3000.3       | 17.50                      | 49.90                        | 83.11                     | 100.00                    | 162.10                         | 559.36                        | 41.19                          | 566.32                        | 378.95                               | 381.98                               |
| 26-Oct-15 | 11:41:20 | 280.5             | 11.11                  | 0.999        | 3003.1       | 17.51                      | 49.90                        | 82.74                     | 100.00                    | 162.12                         | 559.42                        | 41.19                          | 566.37                        | 378.97                               | 382.00                               |
| 26-Oct-15 | 11:41:25 | 281.1             | 11.42                  | 0.999        | 2999.2       | 17.52                      | 49.90                        | 82.74                     | 100.00                    | 162.12                         | 559.47                        | 41.20                          | 566.43                        | 378.98                               | 382.01                               |
| 26-Oct-15 | 11:41:30 | 280.2             | 11.74                  | 0.999        | 2999.4       | 17.53                      | 49.89                        | 83.90                     | 100.00                    | 162.12                         | 559.53                        | 41.20                          | 566.48                        | 378.99                               | 382.02                               |
| 26-Oct-15 | 11:41:35 | 281.1             | 12.06                  | 0.999        | 2997.1       | 17.55                      | 49.87                        | 83.15                     | 100.00                    | 162.12                         | 559.58                        | 41.21                          | 566.54                        | 378.96                               | 382.04                               |
| 26-Oct-15 | 11:41:40 | 281.1             | 12.38                  | 0.999        | 2991.4       | 17.56                      | 49.86                        | 82.92                     | 100.00                    | 162.12                         | 559.64                        | 41.22                          | 566.59                        | 379.00                               | 382.02                               |
| 26-Oct-15 | 11:41:45 | 280.6             | 12.69                  | 0.999        | 2994.0       | 17.57                      | 49.87                        | 83.70                     | 100.00                    | 162.12                         | 559.69                        | 41.23                          | 566.64                        | 379.00                               | 382.05                               |
| 26-Oct-15 | 11:41:50 | 280.0             | 13.01                  | 0.999        | 3001.3       | 17.58                      | 49.90                        | 84.85                     | 100.00                    | 162.12                         | 559.75                        | 41.24                          | 566.64                        | 379.03                               | 382.06                               |
| 26-Oct-15 | 11:41:55 | 280.6             | 13.13                  | 0.999        | 3003.2       | 17.59                      | 49.96                        | 84.22                     | 100.00                    | 162.12                         | 559.81                        | 41.24                          | 566.64                        | 379.04                               | 382.08                               |
| 26-Oct-15 | 11:42:00 | 280.8             | 13.13                  | 0.999        | 3003.2       | 17.59                      | 49.96                        | 83.79                     | 100.00                    | 162.12                         | 559.85                        | 41.24                          | 566.64                        | 379.05                               | 382.07                               |
| 26-Oct-15 | 11:42:05 | 280.6             | 13.13                  | 0.999        | 3000.7       | 17.59                      | 49.96                        | 83.72                     | 100.00                    | 162.14                         | 559.84                        | 41.24                          | 566.66                        | 379.07                               | 382.11                               |
| 26-Oct-15 | 11:42:10 | 280.9             | 13.13                  | 0.999        | 3000.9       | 17.59                      | 49.96                        | 83.61                     | 100.00                    | 162.14                         | 559.84                        | 41.24                          | 566.67                        | 379.05                               | 382.13                               |
| 26-Oct-15 | 11:42:15 | 280.0             | 13.13                  | 0.999        | 2999.4       | 17.59                      | 49.96                        | 84.38                     | 100.00                    | 162.15                         | 559.84                        | 41.24                          | 566.68                        | 379.06                               | 382.13                               |
| 26-Oct-15 | 11:42:20 | 280.3             | 13.26                  | 0.999        | 3003.0       | 17.59                      | 49.96                        | 83.80                     | 100.00                    | 162.14                         | 559.83                        | 41.24                          | 566.69                        | 379.08                               | 382.14                               |
| 26-Oct-15 | 11:42:25 | 280.1             | 13.82                  | 0.999        | 3000.4       | 17.59                      | 49.97                        | 83.99                     | 100.00                    | 162.13                         | 559.83                        | 41.24                          | 566.70                        | 379.08                               | 382.14                               |
| 26-Oct-15 | 11:42:30 | 280.6             | 14.38                  | 0.999        | 3001.8       | 17.58                      | 49.98                        | 83.39                     | 100.00                    | 162.11                         | 559.83                        | 41.24                          | 566.71                        | 379.09                               | 382.15                               |
| 26-Oct-15 | 11:42:35 | 280.4             | 14.44                  | 0.999        | 3009.5       | 17.58                      | 49.98                        | 83.82                     | 100.00                    | 162.10                         | 559.82                        | 41.23                          | 566.72                        | 379.09                               | 382.16                               |
| 26-Oct-15 | 11:42:40 | 280.2             | 14.76                  | 0.999        | 3000.6       | 17.58                      | 49.99                        | 84.50                     | 100.00                    | 162.09                         | 559.82                        | 41.23                          | 566.73                        | 379.09                               | 382.16                               |
| 26-Oct-15 | 11:42:45 | 279.7             | 14.43                  | 0.999        | 3005.4       | 17.58                      | 50.00                        | 85.19                     | 100.00                    | 162.08                         | 559.82                        | 41.23                          | 566.73                        | 379.10                               | 382.17                               |
| 26-Oct-15 | 11:42:50 | 280.0             | 14.10                  | 0.999        | 3006.2       | 17.58                      | 50.00                        | 84.71                     | 100.00                    | 162.06                         | 559.81                        | 41.24                          | 566.73                        | 379.10                               | 382.17                               |
| 26-Oct-15 | 11:43:00 | 280.6             | 13.77                  | 0.999        | 3003.7       | 17.58                      | 49.98                        | 83.99                     | 100.00                    | 162.05                         | 559.81                        | 41.24                          | 566.73                        | 379.11                               | 382.18                               |
| 26-Oct-15 | 11:43:05 | 281.1             | 13.44                  | 0.999        | 3000.1       | 17.57                      | 49.97                        | 83.38                     | 100.00                    | 162.04                         | 559.81                        | 41.25                          | 566.73                        | 379.10                               | 382.18                               |
| 26-Oct-15 | 11:43:10 | 280.9             | 13.12                  | 0.999        | 2995.5       | 17.57                      | 49.93                        | 83.69                     | 100.00                    | 162.03                         | 559.81                        | 41.25                          | 566.73                        | 379.11                               | 382.19                               |
| 26-Oct-15 | 11:43:15 | 280.5             | 13.12                  | 0.999        | 2997.3       | 17.57                      | 49.91                        | 84.12                     | 100.00                    | 162.01                         | 559.81                        | 41.26                          | 566.73                        | 379.11                               | 382.20                               |
| 26-Oct-15 | 11:43:20 | 280.0             | 13.12                  | 0.999        | 2999.8       | 17.56                      | 49.93                        | 84.52                     | 100.00                    | 162.00                         | 559.81                        | 41.27                          | 566.73                        | 379.11                               | 382.20                               |
| 26-Oct-15 | 11:43:25 | 280.0             | 13.12                  | 0.999        | 3003.2       | 17.56                      | 49.95                        | 84.69                     | 100.00                    | 162.00                         | 559.81                        | 41.27                          | 566.73                        | 379.11                               | 382.20                               |
| 26-Oct-15 | 11:43:30 | 280.1             | 13.12                  | 0.999        | 3011.1       | 17.56                      | 50.01                        | 84.65                     | 100.00                    | 162.00                         | 559.81                        | 41.28                          | 566.73                        | 379.12                               | 382.21                               |
| 26-Oct-15 | 11:43:35 | 280.2             | 13.12                  | 0.999        | 3007.6       | 17.55                      | 50.06                        | 84.36                     | 100.00                    | 162.00                         | 559.81                        | 41.28                          | 566.73                        | 379.12                               | 382.23                               |
| 26-Oct-15 | 11:43:40 | 280.3             | 13.12                  | 0.999        | 3012.4       | 17.55                      | 50.10                        | 84.08                     | 100.00                    | 162.00                         | 559.82                        | 41.28                          | 566.73                        | 379.13                               | 382.25                               |
| 26-Oct-15 | 11:43:45 | 280.7             | 13.12                  | 0.999        | 3010.9       | 17.55                      | 50.08                        | 83.58                     | 100.00                    | 161.96                         | 559.86                        | 41.28                          | 566.85                        | 379.13                               | 382.26                               |
| 26-Oct-15 | 11:43:50 | 281.2             | 13.12                  | 0.999        | 3006.7       | 17.54                      | 50.06                        | 83.57                     | 100.00                    | 161.93                         | 559.91                        | 41.28                          | 566.85                        | 379.13                               | 382.26                               |
| 26-Oct-15 | 11:43:55 | 280.7             | 13.12                  | 0.999        | 3002.5       | 17.54                      | 50.00                        | 83.93                     | 100.00                    | 161.90                         | 559.95                        | 41.28                          | 566.84                        | 379.14                               | 382.27                               |
| 26-Oct-15 | 11:44:00 | 280.3             | 13.12                  | 0.999        | 3001.8       | 17.54                      | 49.96                        | 84.29                     | 100.00                    | 161.87                         | 559.99                        | 41.28                          | 566.84                        | 379.14                               | 382.26                               |
| 26-Oct-15 | 11:44:05 | 279.9             | 13.13                  | 0.999        | 3004.2       | 17.54                      | 49.97                        | 84.24                     | 100.00                    | 161.87                         | 559.99                        | 41.28                          | 566.84                        | 379.15                               | 382.28                               |
| 26-Oct-15 | 11:44:10 | 279.7             | 13.22                  | 0.999        | 3007.0       | 17.55                      | 50.04                        | 84.07                     | 100.00                    | 161.81                         | 559.98                        | 41.28                          | 566.83                        | 379.14                               | 382.29                               |
| 26-Oct-15 | 11:44:15 | 280.0             | 13.52                  | 0.999        | 3011.2       | 17.55                      | 50.11                        | 83.81                     | 100.00                    | 161.78                         | 559.98                        | 41.28                          | 566.82                        | 379.15                               | 382.30                               |
| 26-Oct-15 | 11:44:20 | 280.3             | 13.82                  | 0.999        | 3011.5       | 17.55                      | 50.10                        | 83.72                     | 100.00                    | 161.75                         | 559.98                        | 41.27                          | 566.82                        | 379.16                               | 382.31                               |
| 26-Oct-15 | 11:44:25 | 280.1             | 14.12                  | 0.999        | 3011.7       | 17.55                      | 50.09                        | 83.88                     | 100.00                    | 161.72                         | 559.98                        | 41.27                          | 566.81                        | 379.16                               | 382.28                               |
| 26-Oct-15 | 11:44:30 | 280.5             | 14.41                  | 0.999        | 3011.9       | 17.55                      | 50.08                        | 83.60                     | 100.00                    | 161.70                         | 559.97                        | 41.27                          | 566.80                        | 379.17                               | 382.32                               |
| 26-Oct-15 | 11:44:35 | 280.7             | 14.71                  | 0.999        | 3004.8       | 17.56                      | 50.06                        | 82.62                     | 100.00                    | 161.67                         | 559.97                        | 41.27                          | 566.80                        | 379.17                               | 382.34                               |
| 26-Oct-15 | 11:44:40 | 280.4             | 15.01                  | 0.999        | 3005.3       | 17.56                      | 49.99                        | 83.24                     | 100.00                    | 161.64                         | 559.97                        | 41.25                          | 566.79                        | 379.18                               | 382.35                               |
| 26-Oct-15 | 11:44:45 | 280.2             | 14.89                  | 0.999        | 3002.0       | 17.56                      | 49.96                        | 83.30                     | 100.00                    | 161.62                         | 559.96                        | 41.23                          | 566.79                        | 379.19                               | 382.32                               |
| 26-Oct-15 | 11:44:50 | 279.5             | 14.52                  | 0.999        | 3007.2       | 17.56                      | 49.99                        | 84.56                     | 100.00                    | 161.59                         | 559.96                        | 41.22                          | 566.79                        | 379.18                               | 382.35                               |
| 26-Oct-15 | 11:44:55 | 279.4             | 14.16                  | 0.999        | 3011.1       | 17.56                      | 50.06                        | 85.14                     | 100.00                    | 161.54                         | 559.96                        | 41.22                          | 566.79                        | 379.16                               | 382.32                               |
| 26-Oct-15 | 11:45:00 | 280.1             | 13.80                  | 0.999        | 3010.6       | 17.56                      | 50.08                        | 84.19                     | 100.00                    | 161.49                         | 559.95                        | 41.22                          | 566.79                        | 379.18                               | 382.35                               |
| 26-Oct-15 | 11:45:05 | 279.8             | 13.44                  | 0.999        | 3010.2       | 17.56                      | 50.10                        | 84.29                     | 100.00                    | 161.45                         | 559.95                        |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:49:10 | 280.7             | 14.05                  | 0.999        | 3011.1       | 17.55                      | 50.12                        | 80.73                     | 100.00                    | 161.88                         | 561.93                        | 41.19                          | 566.96                        | 379.54                               | 382.67                               |
| 26-Oct-15 | 11:49:15 | 280.6             | 13.95                  | 0.999        | 3010.8       | 17.55                      | 50.11                        | 80.57                     | 100.00                    | 161.88                         | 561.94                        | 41.19                          | 566.97                        | 379.55                               | 382.68                               |
| 26-Oct-15 | 11:49:20 | 280.6             | 13.84                  | 0.999        | 3009.0       | 17.55                      | 50.10                        | 80.97                     | 100.00                    | 161.89                         | 561.95                        | 41.19                          | 566.97                        | 379.55                               | 382.69                               |
| 26-Oct-15 | 11:49:25 | 280.8             | 13.74                  | 0.999        | 3010.7       | 17.55                      | 50.09                        | 80.64                     | 100.00                    | 161.89                         | 561.97                        | 41.19                          | 566.97                        | 379.56                               | 382.70                               |
| 26-Oct-15 | 11:49:30 | 280.5             | 13.64                  | 0.999        | 3007.5       | 17.55                      | 50.09                        | 81.18                     | 100.00                    | 161.90                         | 561.98                        | 41.18                          | 566.98                        | 379.57                               | 382.71                               |
| 26-Oct-15 | 11:49:35 | 280.1             | 13.53                  | 0.999        | 3013.5       | 17.55                      | 50.13                        | 81.83                     | 100.00                    | 161.91                         | 561.99                        | 41.18                          | 566.98                        | 379.58                               | 382.73                               |
| 26-Oct-15 | 11:49:40 | 280.6             | 13.43                  | 0.999        | 3011.3       | 17.55                      | 50.14                        | 81.08                     | 100.00                    | 161.91                         | 562.00                        | 41.18                          | 566.99                        | 379.59                               | 382.71                               |
| 26-Oct-15 | 11:49:45 | 280.4             | 13.32                  | 0.999        | 3014.9       | 17.55                      | 50.15                        | 81.15                     | 100.00                    | 161.92                         | 562.01                        | 41.18                          | 566.99                        | 379.59                               | 382.74                               |
| 26-Oct-15 | 11:49:50 | 280.5             | 13.22                  | 0.999        | 3012.8       | 17.55                      | 50.15                        | 81.05                     | 100.00                    | 161.92                         | 562.03                        | 41.18                          | 566.99                        | 379.60                               | 382.76                               |
| 26-Oct-15 | 11:49:55 | 280.2             | 13.11                  | 0.999        | 3015.6       | 17.55                      | 50.16                        | 81.16                     | 100.00                    | 161.94                         | 562.04                        | 41.18                          | 566.99                        | 379.61                               | 382.77                               |
| 26-Oct-15 | 11:50:00 | 280.7             | 13.14                  | 0.999        | 3011.4       | 17.55                      | 50.17                        | 80.62                     | 100.00                    | 161.98                         | 562.05                        | 41.18                          | 566.99                        | 379.61                               | 382.77                               |
| 26-Oct-15 | 11:50:05 | 280.8             | 13.61                  | 0.999        | 3014.8       | 17.55                      | 50.18                        | 80.89                     | 100.00                    | 162.02                         | 562.05                        | 41.18                          | 566.99                        | 379.61                               | 382.77                               |
| 26-Oct-15 | 11:50:10 | 280.5             | 14.07                  | 0.999        | 3015.2       | 17.55                      | 50.18                        | 81.37                     | 100.00                    | 162.07                         | 562.05                        | 41.18                          | 566.99                        | 379.62                               | 382.79                               |
| 26-Oct-15 | 11:50:15 | 280.8             | 14.54                  | 0.999        | 3015.2       | 17.55                      | 50.17                        | 80.68                     | 100.00                    | 162.11                         | 562.05                        | 41.18                          | 566.99                        | 379.63                               | 382.81                               |
| 26-Oct-15 | 11:50:20 | 281.5             | 14.99                  | 0.999        | 3010.4       | 17.55                      | 50.14                        | 80.42                     | 100.00                    | 162.13                         | 562.05                        | 41.18                          | 566.99                        | 379.64                               | 382.82                               |
| 26-Oct-15 | 11:50:25 | 281.1             | 14.99                  | 0.999        | 3007.4       | 17.55                      | 50.13                        | 80.42                     | 100.00                    | 162.14                         | 562.05                        | 41.21                          | 566.98                        | 379.62                               | 382.83                               |
| 26-Oct-15 | 11:50:30 | 280.7             | 14.99                  | 0.999        | 3011.4       | 17.55                      | 50.13                        | 81.11                     | 100.00                    | 162.14                         | 562.05                        | 41.23                          | 566.97                        | 379.66                               | 382.84                               |
| 26-Oct-15 | 11:50:35 | 281.1             | 14.99                  | 0.999        | 3012.4       | 17.55                      | 50.13                        | 80.70                     | 100.00                    | 162.14                         | 562.05                        | 41.23                          | 566.96                        | 379.67                               | 382.84                               |
| 26-Oct-15 | 11:50:40 | 281.1             | 14.99                  | 0.999        | 3013.2       | 17.55                      | 50.13                        | 80.59                     | 100.00                    | 162.15                         | 562.05                        | 41.23                          | 566.95                        | 379.68                               | 382.85                               |
| 26-Oct-15 | 11:50:45 | 280.9             | 14.90                  | 0.999        | 3012.4       | 17.55                      | 50.14                        | 81.03                     | 100.00                    | 162.15                         | 562.05                        | 41.23                          | 566.93                        | 379.69                               | 382.86                               |
| 26-Oct-15 | 11:50:50 | 281.0             | 14.49                  | 0.999        | 3011.3       | 17.55                      | 50.15                        | 81.16                     | 100.00                    | 162.16                         | 562.05                        | 41.22                          | 566.92                        | 379.70                               | 382.87                               |
| 26-Oct-15 | 11:50:55 | 281.2             | 14.09                  | 0.999        | 3013.3       | 17.54                      | 50.16                        | 80.42                     | 100.00                    | 162.16                         | 562.05                        | 41.22                          | 566.90                        | 379.70                               | 382.89                               |
| 26-Oct-15 | 11:51:00 | 280.9             | 13.68                  | 0.999        | 3014.2       | 17.54                      | 50.17                        | 80.84                     | 100.00                    | 162.16                         | 562.05                        | 41.22                          | 566.88                        | 379.71                               | 382.88                               |
| 26-Oct-15 | 11:51:05 | 280.5             | 13.28                  | 0.999        | 3014.2       | 17.54                      | 50.18                        | 81.27                     | 100.00                    | 162.17                         | 562.05                        | 41.22                          | 566.85                        | 379.72                               | 382.89                               |
| 26-Oct-15 | 11:51:10 | 280.7             | 13.90                  | 0.999        | 3015.0       | 17.54                      | 50.18                        | 80.77                     | 100.00                    | 162.17                         | 562.05                        | 41.22                          | 566.83                        | 379.72                               | 382.90                               |
| 26-Oct-15 | 11:51:15 | 281.5             | 15.17                  | 0.999        | 3015.0       | 17.54                      | 50.15                        | 79.86                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.81                        | 379.71                               | 382.90                               |
| 26-Oct-15 | 11:51:20 | 281.3             | 15.52                  | 0.998        | 3007.7       | 17.53                      | 50.13                        | 79.96                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.79                        | 379.69                               | 382.91                               |
| 26-Oct-15 | 11:51:25 | 280.5             | 15.87                  | 0.998        | 3009.7       | 17.53                      | 50.08                        | 80.90                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.77                        | 379.71                               | 382.91                               |
| 26-Oct-15 | 11:51:30 | 280.5             | 16.22                  | 0.998        | 3011.3       | 17.53                      | 50.10                        | 81.21                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.75                        | 379.72                               | 382.91                               |
| 26-Oct-15 | 11:51:35 | 280.7             | 16.57                  | 0.998        | 3011.9       | 17.53                      | 50.13                        | 80.93                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.73                        | 379.72                               | 382.92                               |
| 26-Oct-15 | 11:51:40 | 281.1             | 16.92                  | 0.998        | 3011.9       | 17.52                      | 50.15                        | 80.45                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.71                        | 379.72                               | 382.92                               |
| 26-Oct-15 | 11:51:45 | 280.4             | 15.07                  | 0.999        | 3015.2       | 17.52                      | 50.17                        | 81.25                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.69                        | 379.72                               | 382.93                               |
| 26-Oct-15 | 11:51:50 | 280.8             | 15.07                  | 0.999        | 3012.4       | 17.52                      | 50.18                        | 80.61                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.68                        | 379.73                               | 382.90                               |
| 26-Oct-15 | 11:51:55 | 280.8             | 15.07                  | 0.999        | 3012.5       | 17.52                      | 50.17                        | 80.81                     | 100.00                    | 162.18                         | 562.05                        | 41.22                          | 566.68                        | 379.73                               | 382.91                               |
| 26-Oct-15 | 11:52:00 | 280.8             | 15.07                  | 0.999        | 3013.8       | 17.52                      | 50.16                        | 81.47                     | 100.00                    | 162.18                         | 562.04                        | 41.22                          | 566.68                        | 379.74                               | 382.92                               |
| 26-Oct-15 | 11:52:05 | 281.0             | 15.07                  | 0.999        | 3011.9       | 17.52                      | 50.15                        | 81.47                     | 100.00                    | 162.18                         | 562.02                        | 41.22                          | 566.67                        | 379.75                               | 382.93                               |
| 26-Oct-15 | 11:52:10 | 281.1             | 15.07                  | 0.999        | 3011.1       | 17.52                      | 50.14                        | 80.54                     | 100.00                    | 162.18                         | 562.03                        | 41.22                          | 566.67                        | 379.75                               | 382.93                               |
| 26-Oct-15 | 11:52:15 | 280.6             | 15.07                  | 0.999        | 3012.7       | 17.52                      | 50.13                        | 80.98                     | 100.00                    | 162.18                         | 562.04                        | 41.23                          | 566.66                        | 379.76                               | 382.93                               |
| 26-Oct-15 | 11:52:20 | 280.4             | 15.07                  | 0.999        | 3014.4       | 17.52                      | 50.13                        | 81.41                     | 100.00                    | 162.18                         | 562.06                        | 41.23                          | 566.65                        | 379.75                               | 382.94                               |
| 26-Oct-15 | 11:52:25 | 280.7             | 14.50                  | 0.999        | 3015.0       | 17.52                      | 50.16                        | 81.43                     | 100.00                    | 162.19                         | 562.07                        | 41.23                          | 566.65                        | 379.77                               | 382.94                               |
| 26-Oct-15 | 11:52:30 | 280.9             | 13.16                  | 0.999        | 3015.0       | 17.52                      | 50.17                        | 81.37                     | 100.00                    | 162.17                         | 562.08                        | 41.24                          | 566.64                        | 379.79                               | 382.90                               |
| 26-Oct-15 | 11:52:35 | 280.2             | 13.63                  | 0.999        | 3013.5       | 17.53                      | 50.16                        | 81.97                     | 100.00                    | 162.20                         | 562.09                        | 41.24                          | 566.63                        | 379.76                               | 382.95                               |
| 26-Oct-15 | 11:52:40 | 280.7             | 14.00                  | 0.999        | 3012.0       | 17.53                      | 50.16                        | 81.36                     | 100.00                    | 162.20                         | 562.11                        | 41.24                          | 566.63                        | 379.78                               | 382.95                               |
| 26-Oct-15 | 11:52:45 | 281.2             | 14.37                  | 0.999        | 3012.2       | 17.54                      | 50.15                        | 80.31                     | 100.00                    | 162.21                         | 562.12                        | 41.25                          | 566.62                        | 379.79                               | 382.96                               |
| 26-Oct-15 | 11:52:50 | 280.7             | 14.74                  | 0.999        | 3014.9       | 17.54                      | 50.14                        | 81.12                     | 100.00                    | 162.22                         | 562.13                        | 41.25                          | 566.61                        | 379.80                               | 382.96                               |
| 26-Oct-15 | 11:52:55 | 280.9             | 15.04                  | 0.999        | 3010.1       | 17.54                      | 50.13                        | 80.65                     | 100.00                    | 162.22                         | 562.14                        | 41.25                          | 566.61                        | 379.81                               | 382.96                               |
| 26-Oct-15 | 11:53:00 | 281.4             | 13.41                  | 0.999        | 3007.3       | 17.55                      | 50.08                        | 80.80                     | 100.00                    | 162.23                         | 562.16                        | 41.25                          | 566.61                        | 379.82                               | 382.97                               |
| 26-Oct-15 | 11:53:05 | 280.2             | 12.31                  | 0.999        | 3013.8       | 17.55                      | 50.11                        | 82.00                     | 100.00                    | 162.23                         | 562.16                        | 41.26                          | 566.61                        | 379.83                               | 382.97                               |
| 26-Oct-15 | 11:53:10 | 280.5             | 11.32                  | 0.999        | 3015.2       | 17.55                      | 50.18                        | 81.69                     | 100.00                    | 162.24                         | 562.16                        | 41.26                          | 566.61                        | 379.82                               | 382.97                               |
| 26-Oct-15 | 11:53:15 | 281.1             | 11.37                  | 0.999        | 3013.0       | 17.55                      | 50.17                        | 81.16                     | 100.00                    | 162.24                         | 562.16                        | 41.26                          | 566.61                        | 379.84                               | 382.97                               |
| 26-Oct-15 | 11:53:20 | 281.0             | 11.64                  | 0.999        | 3011.8       | 17.55                      | 50.16                        | 80.98                     | 100.00                    | 162.25                         | 562.16                        | 41.26                          | 566.61                        | 379.86                               | 382.97                               |
| 26-Oct-15 | 11:53:25 | 280.9             | 11.90                  | 0.999        | 3013.3       | 17.55                      | 50.15                        | 80.80                     | 100.00                    | 162.25                         | 562.16                        | 41.27                          | 566.61                        | 379.88                               | 382.97                               |
| 26-Oct-15 | 11:53:30 | 281.1             | 12.17                  | 0.999        | 3012.5       | 17.55                      | 50.15                        | 80.62                     | 100.00                    | 162.25                         | 562.16                        | 41.27                          | 566.61                        | 379.88                               | 383.00                               |
| 26-Oct-15 | 11:53:35 | 281.1             | 12.43                  | 0.999        | 3011.5       | 17.55                      | 50.14                        | 80.44                     | 100.00                    | 162.25                         | 562.16                        | 41.27                          | 566.61                        | 379.89                               | 383.01                               |
| 26-Oct-15 | 11:53:40 | 281.0             | 12.69                  | 0.999        | 3011.6       | 17.55                      | 50.13                        | 80.26                     | 100.00                    | 162.24                         | 562.17                        | 41.27                          | 566.61                        | 379.89                               | 383.02                               |
| 26-Oct-15 | 11:53:45 | 281.5             | 12.96                  | 0.999        | 3007.3       | 17.55                      | 50.14                        | 80.12                     | 100.00                    | 162.22                         | 562.23                        | 41.27                          | 566.61                        | 379.90                               | 383.03                               |
| 26-Oct-15 | 11:53:50 | 280.8             | 13.16                  | 0.999        | 3012.1       | 17.55                      | 50.15                        | 81.21                     | 100.00                    | 162.19                         | 562.23                        | 41.26                          | 566.60                        | 379.90                               | 383.04                               |
| 26-Oct-15 | 11:53:55 | 280.7             | 13.16                  | 0.999        | 3019.1       | 17.55                      | 50.17                        | 81.81                     | 100.00                    | 162.19                         | 562.40                        | 41.26                          | 566.60                        | 379.91                               | 383.00                               |
| 26-Oct-15 | 11:54:00 | 281.2             | 13.16                  | 0.999        | 3012.0       | 17.55                      | 50.18                        | 81.17                     | 100.00                    | 162.14                         | 562.48                        | 41.25                          | 566.59                        | 379.91                               | 383.01                               |
| 26-Oct-15 | 11:54:05 | 280.7             | 12.05                  | 0.999        | 3015.8       | 17.55                      | 50.18                        | 81.00                     | 100.00                    | 162.12                         | 562.53                        | 41.25                          | 566.59                        | 379.89                               | 383.05                               |
| 26-Oct-15 | 11:54:10 | 280.8             | 11.32                  | 0.999        | 3014.2       | 17.54                      | 50.17                        | 80.63                     | 100.00                    | 162.09                         | 562.55                        | 41.24                          | 566.58                        | 379.92                               | 383.06                               |
| 26-Oct-15 | 11:54:15 | 280.5             | 11.39                  | 0.999        | 3015.2       | 17.54                      | 50.16                        | 81.33                     | 100.00                    | 162.07                         | 562.57                        | 41.24                          | 566.58                        | 379.92                               | 383.07                               |
| 26-Oct-15 | 11:54:20 | 280.3             | 11.46                  | 0.999        | 3019.0       | 17.54                      | 50.16                        | 81.87                     | 100.00                    | 162.05                         | 562.59                        | 41.23                          | 566.57                        | 379.93                               | 383.07                               |
| 26-Oct-15 | 11:54:25 | 280.6             | 11.52                  | 0.999        | 3011.3       | 17.53                      | 50.15                        | 81.15                     | 100.00                    | 162.05                         | 562.61                        | 41.23                          | 566.57                        | 379.94                               | 383.08                               |
| 26-Oct-15 | 11:54:30 | 280.8             | 11.59                  | 0.999        | 3011.1       | 17.53                      | 50.14                        | 81.42                     | 100.00                    | 162.05                         | 562.63                        | 41.22                          | 566.56                        | 379.94                               | 383.08                               |
| 26-Oct-15 | 11:54:35 | 280.4             | 11.66                  | 0.999        | 3011.4       | 17.53                      | 50.14                        | 81.78                     | 100.00                    | 162.05                         | 562.65                        | 41.22                          | 566.56                        | 379.95                               | 383.09                               |
| 26-Oct-15 | 11:54:40 | 280.6             | 11.73                  | 0.999        | 3011.7       | 17.53                      | 50.13                        | 82.05                     | 100.00                    | 162.05                         | 562.67                        | 41.22                          | 566.55                        | 379.93                               | 383.09                               |
| 26-Oct-15 | 11:54:45 | 280.4             | 11.80                  | 0.999        | 3011.5       | 17.52                      | 50.13                        | 82.31                     | 100.00                    | 162.05                         | 562.69                        | 41.22                          | 566.55                        | 379.95                               | 383.10                               |
| 26-Oct-15 | 11:54:50 | 280.2             | 11.87                  | 0.999        | 3015.1       | 17.52                      | 50.18                        | 82.03                     | 100.00                    | 162.05                         |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 11:59:00 | 279.7             | 11.16                  | 0.999        | 2994.3       | 17.45                      | 49.85                        | 82.79                     | 100.00                    | 161.77                         | 563.20                        | 41.14                          | 565.97                        | 380.20                               | 383.22                               |
| 26-Oct-15 | 11:59:05 | 280.2             | 11.10                  | 0.999        | 2992.8       | 17.45                      | 49.85                        | 82.05                     | 100.00                    | 161.76                         | 563.19                        | 41.14                          | 565.96                        | 380.21                               | 383.21                               |
| 26-Oct-15 | 11:59:10 | 280.4             | 10.88                  | 0.999        | 2991.4       | 17.45                      | 49.86                        | 82.04                     | 100.00                    | 161.76                         | 563.19                        | 41.13                          | 565.94                        | 380.22                               | 383.21                               |
| 26-Oct-15 | 11:59:15 | 280.1             | 10.70                  | 0.999        | 2994.5       | 17.45                      | 49.86                        | 82.52                     | 100.00                    | 161.76                         | 563.19                        | 41.12                          | 565.92                        | 380.18                               | 383.20                               |
| 26-Oct-15 | 11:59:20 | 279.7             | 10.69                  | 0.999        | 2995.5       | 17.45                      | 49.87                        | 82.61                     | 100.00                    | 161.76                         | 563.19                        | 41.12                          | 565.90                        | 380.20                               | 383.19                               |
| 26-Oct-15 | 11:59:25 | 279.8             | 10.68                  | 0.999        | 2995.7       | 17.45                      | 49.88                        | 82.61                     | 100.00                    | 161.76                         | 563.19                        | 41.12                          | 565.89                        | 380.22                               | 383.23                               |
| 26-Oct-15 | 11:59:30 | 279.8             | 10.67                  | 0.999        | 2998.0       | 17.45                      | 49.89                        | 82.66                     | 100.00                    | 161.76                         | 563.20                        | 41.13                          | 565.87                        | 380.21                               | 383.19                               |
| 26-Oct-15 | 11:59:35 | 280.2             | 10.66                  | 0.999        | 2995.2       | 17.45                      | 49.89                        | 82.03                     | 100.00                    | 161.76                         | 563.20                        | 41.13                          | 565.85                        | 380.21                               | 383.19                               |
| 26-Oct-15 | 11:59:40 | 280.2             | 10.65                  | 0.999        | 2994.2       | 17.45                      | 49.88                        | 82.35                     | 100.00                    | 161.76                         | 563.20                        | 41.13                          | 565.83                        | 380.20                               | 383.18                               |
| 26-Oct-15 | 11:59:45 | 279.7             | 10.64                  | 0.999        | 2993.3       | 17.45                      | 49.87                        | 82.81                     | 100.00                    | 161.76                         | 563.20                        | 41.13                          | 565.82                        | 380.19                               | 383.18                               |
| 26-Oct-15 | 11:59:50 | 280.3             | 10.62                  | 0.999        | 2992.4       | 17.45                      | 49.85                        | 81.81                     | 100.00                    | 161.76                         | 563.21                        | 41.13                          | 565.80                        | 380.22                               | 383.17                               |
| 26-Oct-15 | 11:59:55 | 280.5             | 10.61                  | 0.999        | 2992.7       | 17.45                      | 49.84                        | 81.61                     | 100.00                    | 161.76                         | 563.21                        | 41.13                          | 565.80                        | 380.19                               | 383.17                               |
| 26-Oct-15 | 12:00:00 | 280.1             | 10.60                  | 0.999        | 2994.8       | 17.45                      | 49.86                        | 82.34                     | 100.00                    | 161.76                         | 563.21                        | 41.13                          | 565.80                        | 380.22                               | 383.16                               |
| 26-Oct-15 | 12:00:05 | 280.4             | 10.59                  | 0.999        | 2991.4       | 17.45                      | 49.87                        | 82.17                     | 100.00                    | 161.77                         | 563.21                        | 41.14                          | 565.80                        | 380.22                               | 383.17                               |
| 26-Oct-15 | 12:00:10 | 279.6             | 10.58                  | 0.999        | 2996.9       | 17.45                      | 49.88                        | 83.19                     | 100.00                    | 161.77                         | 563.21                        | 41.14                          | 565.80                        | 380.25                               | 383.18                               |
| 26-Oct-15 | 12:00:15 | 279.9             | 10.57                  | 0.999        | 2998.6       | 17.45                      | 49.89                        | 82.58                     | 100.00                    | 161.77                         | 563.21                        | 41.14                          | 565.80                        | 380.25                               | 383.17                               |
| 26-Oct-15 | 12:00:20 | 280.6             | 10.57                  | 0.999        | 2992.1       | 17.45                      | 49.86                        | 81.42                     | 100.00                    | 161.76                         | 563.22                        | 41.14                          | 565.80                        | 380.26                               | 383.16                               |
| 26-Oct-15 | 12:00:25 | 280.3             | 10.57                  | 0.999        | 2991.4       | 17.45                      | 49.80                        | 81.84                     | 100.00                    | 161.76                         | 563.26                        | 41.14                          | 565.81                        | 380.27                               | 383.16                               |
| 26-Oct-15 | 12:00:30 | 279.9             | 10.57                  | 0.999        | 2993.8       | 17.45                      | 49.77                        | 82.15                     | 100.00                    | 161.75                         | 563.31                        | 41.13                          | 565.81                        | 380.27                               | 383.16                               |
| 26-Oct-15 | 12:00:35 | 280.2             | 10.57                  | 0.999        | 2989.1       | 17.45                      | 49.76                        | 81.48                     | 100.00                    | 161.75                         | 563.35                        | 41.13                          | 565.82                        | 380.28                               | 383.19                               |
| 26-Oct-15 | 12:00:40 | 279.9             | 10.57                  | 0.999        | 2987.8       | 17.45                      | 49.74                        | 82.44                     | 100.00                    | 161.74                         | 563.40                        | 41.13                          | 565.82                        | 380.28                               | 383.19                               |
| 26-Oct-15 | 12:00:45 | 279.7             | 10.59                  | 0.999        | 2991.9       | 17.46                      | 49.79                        | 82.83                     | 100.00                    | 161.73                         | 563.44                        | 41.13                          | 565.83                        | 380.29                               | 383.19                               |
| 26-Oct-15 | 12:00:50 | 279.9             | 10.66                  | 0.999        | 2995.2       | 17.47                      | 49.82                        | 82.55                     | 100.00                    | 161.73                         | 563.49                        | 41.13                          | 565.83                        | 380.28                               | 383.19                               |
| 26-Oct-15 | 12:00:55 | 280.1             | 10.73                  | 0.999        | 2995.3       | 17.48                      | 49.84                        | 82.26                     | 100.00                    | 161.72                         | 563.53                        | 41.12                          | 565.85                        | 380.26                               | 383.19                               |
| 26-Oct-15 | 12:01:00 | 280.3             | 10.80                  | 0.999        | 2992.3       | 17.48                      | 49.85                        | 81.98                     | 100.00                    | 161.71                         | 563.58                        | 41.12                          | 565.87                        | 380.30                               | 383.19                               |
| 26-Oct-15 | 12:01:05 | 280.0             | 10.87                  | 0.999        | 2993.5       | 17.48                      | 49.86                        | 82.55                     | 100.00                    | 161.71                         | 563.61                        | 41.12                          | 565.89                        | 380.31                               | 383.19                               |
| 26-Oct-15 | 12:01:10 | 279.8             | 10.94                  | 0.999        | 2995.3       | 17.47                      | 49.86                        | 83.06                     | 100.00                    | 161.71                         | 563.61                        | 41.12                          | 565.91                        | 380.32                               | 383.19                               |
| 26-Oct-15 | 12:01:15 | 279.6             | 11.00                  | 0.999        | 2998.0       | 17.47                      | 49.87                        | 83.11                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 565.93                        | 380.33                               | 383.19                               |
| 26-Oct-15 | 12:01:20 | 279.9             | 11.06                  | 0.999        | 2999.0       | 17.47                      | 49.88                        | 82.70                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 565.94                        | 380.35                               | 383.19                               |
| 26-Oct-15 | 12:01:25 | 280.1             | 11.11                  | 0.999        | 2994.9       | 17.47                      | 49.88                        | 82.96                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 565.96                        | 380.36                               | 383.19                               |
| 26-Oct-15 | 12:01:30 | 279.6             | 11.17                  | 0.999        | 2999.4       | 17.47                      | 49.89                        | 83.39                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 565.98                        | 380.37                               | 383.19                               |
| 26-Oct-15 | 12:01:35 | 279.9             | 11.22                  | 0.999        | 2999.4       | 17.46                      | 49.89                        | 82.69                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 566.00                        | 380.37                               | 383.19                               |
| 26-Oct-15 | 12:01:40 | 280.2             | 11.27                  | 0.999        | 2995.4       | 17.46                      | 49.88                        | 82.53                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 566.02                        | 380.37                               | 383.19                               |
| 26-Oct-15 | 12:01:45 | 280.0             | 11.33                  | 0.999        | 2994.7       | 17.46                      | 49.87                        | 82.63                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 566.04                        | 380.37                               | 383.19                               |
| 26-Oct-15 | 12:01:50 | 280.1             | 11.38                  | 0.999        | 2993.5       | 17.46                      | 49.86                        | 82.72                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 566.06                        | 380.39                               | 383.20                               |
| 26-Oct-15 | 12:01:55 | 280.5             | 11.44                  | 0.999        | 2992.3       | 17.45                      | 49.85                        | 82.10                     | 100.00                    | 161.71                         | 563.61                        | 41.11                          | 566.06                        | 380.41                               | 383.20                               |
| 26-Oct-15 | 12:02:00 | 280.7             | 11.49                  | 0.999        | 2990.5       | 17.45                      | 49.84                        | 82.00                     | 100.00                    | 161.73                         | 563.64                        | 41.11                          | 566.06                        | 380.42                               | 383.20                               |
| 26-Oct-15 | 12:02:05 | 280.5             | 11.54                  | 0.999        | 2989.5       | 17.45                      | 49.79                        | 81.96                     | 100.00                    | 161.82                         | 563.80                        | 41.12                          | 566.11                        | 380.43                               | 383.20                               |
| 26-Oct-15 | 12:02:10 | 279.3             | 11.60                  | 0.999        | 2995.2       | 17.45                      | 49.82                        | 83.52                     | 100.00                    | 161.83                         | 563.82                        | 41.13                          | 566.17                        | 380.43                               | 383.21                               |
| 26-Oct-15 | 12:02:15 | 280.1             | 11.64                  | 0.999        | 2995.4       | 17.45                      | 49.85                        | 83.98                     | 100.00                    | 161.84                         | 563.84                        | 41.15                          | 566.22                        | 380.44                               | 383.21                               |
| 26-Oct-15 | 12:02:20 | 280.3             | 11.64                  | 0.999        | 2991.3       | 17.45                      | 49.88                        | 82.71                     | 100.00                    | 161.85                         | 563.86                        | 41.15                          | 566.28                        | 380.44                               | 383.21                               |
| 26-Oct-15 | 12:02:25 | 280.4             | 11.65                  | 0.999        | 3001.0       | 17.45                      | 49.90                        | 82.45                     | 100.00                    | 161.86                         | 563.88                        | 41.15                          | 566.34                        | 380.45                               | 383.22                               |
| 26-Oct-15 | 12:02:30 | 280.6             | 11.70                  | 0.999        | 3002.4       | 17.45                      | 49.93                        | 82.18                     | 100.00                    | 161.86                         | 563.90                        | 41.15                          | 566.39                        | 380.46                               | 383.22                               |
| 26-Oct-15 | 12:02:35 | 280.6             | 11.76                  | 0.999        | 2993.6       | 17.45                      | 49.89                        | 81.85                     | 100.00                    | 161.87                         | 563.92                        | 41.15                          | 566.45                        | 380.47                               | 383.22                               |
| 26-Oct-15 | 12:02:40 | 280.4             | 11.81                  | 0.999        | 2991.7       | 17.45                      | 49.86                        | 82.53                     | 100.00                    | 161.88                         | 563.94                        | 41.15                          | 566.51                        | 380.48                               | 383.22                               |
| 26-Oct-15 | 12:02:45 | 280.2             | 11.86                  | 0.999        | 2995.3       | 17.45                      | 49.86                        | 83.02                     | 100.00                    | 161.89                         | 563.96                        | 41.15                          | 566.56                        | 380.46                               | 383.23                               |
| 26-Oct-15 | 12:02:50 | 279.8             | 11.91                  | 0.999        | 2999.4       | 17.45                      | 49.89                        | 83.52                     | 100.00                    | 161.90                         | 563.98                        | 41.15                          | 566.62                        | 380.49                               | 383.23                               |
| 26-Oct-15 | 12:02:55 | 280.6             | 11.97                  | 0.999        | 2995.2       | 17.45                      | 49.88                        | 82.57                     | 100.00                    | 161.91                         | 564.00                        | 41.16                          | 566.62                        | 380.50                               | 383.23                               |
| 26-Oct-15 | 12:03:00 | 280.7             | 12.02                  | 0.999        | 2992.8       | 17.45                      | 49.86                        | 81.85                     | 100.00                    | 161.92                         | 564.02                        | 41.16                          | 566.62                        | 380.51                               | 383.23                               |
| 26-Oct-15 | 12:03:05 | 280.6             | 12.07                  | 0.999        | 2991.5       | 17.45                      | 49.84                        | 82.36                     | 100.00                    | 161.93                         | 564.04                        | 41.16                          | 566.62                        | 380.52                               | 383.23                               |
| 26-Oct-15 | 12:03:10 | 280.4             | 12.12                  | 0.999        | 2991.2       | 17.45                      | 49.80                        | 81.98                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.51                               | 383.23                               |
| 26-Oct-15 | 12:03:15 | 280.1             | 12.18                  | 0.999        | 2992.9       | 17.45                      | 49.81                        | 82.11                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.52                               | 383.23                               |
| 26-Oct-15 | 12:03:20 | 280.1             | 11.91                  | 0.999        | 2995.7       | 17.45                      | 49.84                        | 83.00                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.52                               | 383.23                               |
| 26-Oct-15 | 12:03:25 | 280.3             | 11.57                  | 0.999        | 2997.0       | 17.45                      | 49.88                        | 82.54                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.52                               | 383.23                               |
| 26-Oct-15 | 12:03:30 | 280.7             | 11.24                  | 0.999        | 2998.3       | 17.45                      | 49.90                        | 82.04                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.57                               | 383.21                               |
| 26-Oct-15 | 12:03:35 | 280.6             | 10.91                  | 0.999        | 2998.6       | 17.45                      | 49.92                        | 81.92                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.58                               | 383.22                               |
| 26-Oct-15 | 12:03:40 | 280.0             | 10.78                  | 0.999        | 2999.3       | 17.45                      | 49.93                        | 82.26                     | 100.00                    | 161.93                         | 564.05                        | 41.16                          | 566.62                        | 380.59                               | 383.23                               |
| 26-Oct-15 | 12:03:45 | 280.4             | 10.24                  | 0.999        | 3003.2       | 17.45                      | 49.94                        | 83.23                     | 100.00                    | 161.94                         | 564.06                        | 41.16                          | 566.66                        | 380.61                               | 383.24                               |
| 26-Oct-15 | 12:03:50 | 280.6             | 10.19                  | 0.999        | 2998.3       | 17.45                      | 49.92                        | 81.85                     | 100.00                    | 161.89                         | 564.08                        | 41.16                          | 566.70                        | 380.61                               | 383.21                               |
| 26-Oct-15 | 12:03:55 | 280.9             | 10.19                  | 0.999        | 2999.1       | 17.45                      | 49.89                        | 81.95                     | 100.00                    | 161.87                         | 564.10                        | 41.16                          | 566.70                        | 380.63                               | 383.21                               |
| 26-Oct-15 | 12:04:00 | 280.7             | 10.19                  | 0.999        | 2995.2       | 17.45                      | 49.84                        | 82.23                     | 100.00                    | 161.86                         | 564.11                        | 41.16                          | 566.69                        | 380.64                               | 383.20                               |
| 26-Oct-15 | 12:04:05 | 280.5             | 10.17                  | 0.999        | 2994.9       | 17.45                      | 49.79                        | 82.52                     | 100.00                    | 161.84                         | 564.13                        | 41.16                          | 566.68                        | 380.65                               | 383.21                               |
| 26-Oct-15 | 12:04:10 | 280.0             | 10.10                  | 0.999        | 2991.7       | 17.46                      | 49.81                        | 82.53                     | 100.00                    | 161.85                         | 564.14                        | 41.16                          | 566.67                        | 380.66                               | 383.23                               |
| 26-Oct-15 | 12:04:15 | 280.0             | 10.03                  | 0.999        | 2999.1       | 17.46                      | 49.83                        | 82.51                     | 100.00                    | 161.86                         | 564.14                        | 41.16                          | 566.66                        | 380.67                               | 383.23                               |
| 26-Oct-15 | 12:04:20 | 280.0             | 9.96                   | 0.999        | 2995.4       | 17.46                      | 49.86                        | 82.38                     | 100.00                    | 161.88                         | 564.15                        | 41.17                          | 566.65                        | 380.67                               | 383.21                               |
| 26-Oct-15 | 12:04:25 | 280.2             | 9.89                   | 0.999        | 2998.7       | 17.47                      | 49.89                        | 82.08                     | 100.00                    | 161.89                         | 564.15                        | 41.17                          | 566.64                        | 380.68                               | 383.22                               |
| 26-Oct-15 | 12:04:30 | 280.4             | 9.82                   | 0.999        | 2996.0       | 17.47                      | 49.87                        | 81.78                     | 100.00                    | 161.90                         | 564.16                        | 41.18                          | 566.63                        | 380.69                               | 383.20                               |
| 26-Oct-15 | 12:04:35 | 281.0             | 9.75                   | 0.999        | 2991.4       | 17.47                      | 49.85                        | 81.02                     | 100.00                    | 161.91                         | 564.17                        | 41.19                          | 566.62                        | 380.69                               | 383.23                               |
| 26-Oct-15 | 12:04:40 | 280.3             | 9.68                   | 0.999        | 2992.7       | 17.48                      | 49.79                        | 82.53                     | 100.00                    | 161.92                         | 564.                          |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:08:50 | 281.1             | 10.63                  | 0.999        | 3008.8       | 17.49                      | 50.10                        | 82.41                     | 100.00                    | 162.22                         | 564.58                        | 41.25                          | 566.50                        | 380.93                               | 383.32                               |
| 26-Oct-15 | 12:08:55 | 281.5             | 10.63                  | 0.999        | 3007.8       | 17.49                      | 50.10                        | 81.81                     | 100.00                    | 162.23                         | 564.68                        | 41.26                          | 566.53                        | 380.94                               | 383.32                               |
| 26-Oct-15 | 12:09:00 | 281.3             | 10.63                  | 0.999        | 3007.8       | 17.48                      | 50.10                        | 81.49                     | 100.00                    | 162.25                         | 564.78                        | 41.26                          | 566.57                        | 380.93                               | 383.33                               |
| 26-Oct-15 | 12:09:05 | 281.7             | 10.67                  | 0.999        | 3007.5       | 17.49                      | 50.09                        | 81.17                     | 100.00                    | 162.26                         | 564.89                        | 41.27                          | 566.60                        | 380.94                               | 383.33                               |
| 26-Oct-15 | 12:09:10 | 281.7             | 10.82                  | 0.999        | 2999.5       | 17.49                      | 50.01                        | 81.21                     | 100.00                    | 162.28                         | 564.93                        | 41.28                          | 566.63                        | 380.95                               | 383.33                               |
| 26-Oct-15 | 12:09:15 | 280.6             | 10.98                  | 0.999        | 3005.3       | 17.50                      | 50.01                        | 82.53                     | 100.00                    | 162.29                         | 564.95                        | 41.28                          | 566.66                        | 380.96                               | 383.33                               |
| 26-Oct-15 | 12:09:20 | 280.1             | 11.14                  | 0.999        | 3011.2       | 17.50                      | 50.05                        | 83.82                     | 100.00                    | 162.31                         | 564.96                        | 41.29                          | 566.70                        | 380.97                               | 383.34                               |
| 26-Oct-15 | 12:09:25 | 281.0             | 11.04                  | 0.999        | 3013.3       | 17.51                      | 50.14                        | 82.98                     | 100.00                    | 162.32                         | 564.98                        | 41.29                          | 566.73                        | 380.96                               | 383.34                               |
| 26-Oct-15 | 12:09:30 | 281.2             | 12.66                  | 0.999        | 3012.2       | 17.51                      | 50.13                        | 82.53                     | 100.00                    | 162.34                         | 565.00                        | 41.30                          | 566.76                        | 380.99                               | 383.34                               |
| 26-Oct-15 | 12:09:35 | 281.1             | 12.27                  | 0.999        | 3018.3       | 17.52                      | 50.12                        | 82.07                     | 100.00                    | 162.35                         | 565.02                        | 41.31                          | 566.80                        | 381.00                               | 383.35                               |
| 26-Oct-15 | 12:09:40 | 281.5             | 11.89                  | 0.999        | 3014.9       | 17.53                      | 50.10                        | 82.49                     | 100.00                    | 162.36                         | 565.04                        | 41.32                          | 566.83                        | 381.01                               | 383.34                               |
| 26-Oct-15 | 12:09:45 | 282.2             | 11.51                  | 0.999        | 3010.9       | 17.53                      | 50.09                        | 81.07                     | 100.00                    | 162.36                         | 565.06                        | 41.32                          | 566.86                        | 380.99                               | 383.33                               |
| 26-Oct-15 | 12:09:50 | 281.3             | 11.61                  | 0.999        | 3007.2       | 17.54                      | 50.05                        | 82.16                     | 100.00                    | 162.36                         | 565.07                        | 41.33                          | 566.90                        | 381.02                               | 383.35                               |
| 26-Oct-15 | 12:09:55 | 280.8             | 12.31                  | 0.999        | 3008.5       | 17.54                      | 50.08                        | 83.16                     | 100.00                    | 162.36                         | 565.09                        | 41.34                          | 566.91                        | 381.04                               | 383.35                               |
| 26-Oct-15 | 12:10:00 | 281.1             | 13.01                  | 0.999        | 3012.5       | 17.55                      | 50.11                        | 82.65                     | 100.00                    | 162.36                         | 565.11                        | 41.34                          | 566.91                        | 381.05                               | 383.35                               |
| 26-Oct-15 | 12:10:05 | 281.2             | 12.90                  | 0.999        | 3012.2       | 17.55                      | 50.14                        | 82.33                     | 100.00                    | 162.36                         | 565.13                        | 41.34                          | 566.91                        | 381.06                               | 383.35                               |
| 26-Oct-15 | 12:10:10 | 281.2             | 12.33                  | 0.999        | 3013.5       | 17.55                      | 50.14                        | 82.51                     | 100.00                    | 162.36                         | 565.13                        | 41.34                          | 566.91                        | 381.07                               | 383.35                               |
| 26-Oct-15 | 12:10:15 | 281.2             | 11.75                  | 0.999        | 3018.6       | 17.55                      | 50.13                        | 83.01                     | 100.00                    | 162.36                         | 565.13                        | 41.34                          | 566.91                        | 381.07                               | 383.36                               |
| 26-Oct-15 | 12:10:20 | 281.4             | 11.44                  | 0.999        | 3018.9       | 17.55                      | 50.12                        | 82.26                     | 100.00                    | 162.36                         | 565.12                        | 41.34                          | 566.91                        | 381.08                               | 383.36                               |
| 26-Oct-15 | 12:10:25 | 282.1             | 11.99                  | 0.999        | 3013.8       | 17.55                      | 50.11                        | 81.61                     | 100.00                    | 162.39                         | 565.07                        | 41.34                          | 566.90                        | 381.09                               | 383.37                               |
| 26-Oct-15 | 12:10:30 | 281.7             | 12.54                  | 0.999        | 3008.9       | 17.55                      | 50.10                        | 81.85                     | 100.00                    | 162.41                         | 565.01                        | 41.35                          | 566.88                        | 381.10                               | 383.38                               |
| 26-Oct-15 | 12:10:35 | 280.9             | 13.09                  | 0.999        | 3011.3       | 17.55                      | 50.10                        | 82.58                     | 100.00                    | 162.43                         | 564.95                        | 41.35                          | 566.86                        | 381.11                               | 383.38                               |
| 26-Oct-15 | 12:10:40 | 281.5             | 13.29                  | 0.999        | 3014.1       | 17.55                      | 50.13                        | 82.73                     | 100.00                    | 162.46                         | 564.89                        | 41.35                          | 566.85                        | 381.11                               | 383.35                               |
| 26-Oct-15 | 12:10:45 | 281.6             | 11.35                  | 0.999        | 3015.2       | 17.54                      | 50.17                        | 82.76                     | 100.00                    | 162.46                         | 564.84                        | 41.36                          | 566.83                        | 381.13                               | 383.37                               |
| 26-Oct-15 | 12:10:50 | 281.6             | 11.74                  | 0.999        | 3013.0       | 17.53                      | 50.20                        | 81.64                     | 100.00                    | 162.47                         | 564.78                        | 41.36                          | 566.82                        | 381.12                               | 383.35                               |
| 26-Oct-15 | 12:10:55 | 281.6             | 12.14                  | 0.999        | 3012.8       | 17.52                      | 50.21                        | 81.63                     | 100.00                    | 162.47                         | 564.72                        | 41.36                          | 566.79                        | 381.10                               | 383.38                               |
| 26-Oct-15 | 12:11:00 | 281.4             | 12.53                  | 0.999        | 3015.0       | 17.51                      | 50.21                        | 82.20                     | 100.00                    | 162.47                         | 564.66                        | 41.36                          | 566.75                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:05 | 281.8             | 12.92                  | 0.999        | 3014.8       | 17.51                      | 50.22                        | 81.67                     | 100.00                    | 162.48                         | 564.61                        | 41.37                          | 566.70                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:10 | 281.9             | 13.28                  | 0.999        | 3013.5       | 17.51                      | 50.22                        | 81.53                     | 100.00                    | 162.48                         | 564.56                        | 41.37                          | 566.65                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:15 | 280.9             | 12.80                  | 0.999        | 3015.8       | 17.51                      | 50.23                        | 82.79                     | 100.00                    | 162.49                         | 564.56                        | 41.37                          | 566.61                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:20 | 281.4             | 12.31                  | 0.999        | 3017.1       | 17.50                      | 50.23                        | 82.06                     | 100.00                    | 162.49                         | 564.56                        | 41.38                          | 566.56                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:25 | 281.4             | 11.83                  | 0.999        | 3018.3       | 17.50                      | 50.24                        | 81.97                     | 100.00                    | 162.49                         | 564.56                        | 41.38                          | 566.52                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:30 | 281.4             | 11.40                  | 0.999        | 3017.9       | 17.50                      | 50.24                        | 81.84                     | 100.00                    | 162.50                         | 564.56                        | 41.38                          | 566.47                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:35 | 281.7             | 12.54                  | 0.999        | 3014.8       | 17.50                      | 50.23                        | 81.03                     | 100.00                    | 162.50                         | 564.56                        | 41.39                          | 566.42                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:40 | 282.6             | 12.82                  | 0.999        | 3015.1       | 17.49                      | 50.20                        | 80.49                     | 100.00                    | 162.50                         | 564.56                        | 41.39                          | 566.38                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:45 | 281.2             | 11.79                  | 0.999        | 3015.8       | 17.49                      | 50.22                        | 82.90                     | 100.00                    | 162.50                         | 564.56                        | 41.39                          | 566.33                        | 381.13                               | 383.35                               |
| 26-Oct-15 | 12:11:50 | 281.6             | 12.59                  | 0.999        | 3019.7       | 17.49                      | 50.24                        | 82.28                     | 100.00                    | 162.50                         | 564.56                        | 41.39                          | 566.29                        | 381.17                               | 383.35                               |
| 26-Oct-15 | 12:11:55 | 281.9             | 13.34                  | 0.999        | 3015.0       | 17.49                      | 50.22                        | 81.84                     | 100.00                    | 162.50                         | 564.56                        | 41.40                          | 566.25                        | 381.18                               | 383.35                               |
| 26-Oct-15 | 12:12:00 | 282.3             | 12.63                  | 0.999        | 3013.8       | 17.48                      | 50.18                        | 81.13                     | 100.00                    | 162.50                         | 564.47                        | 41.40                          | 566.25                        | 381.18                               | 383.36                               |
| 26-Oct-15 | 12:12:05 | 281.5             | 11.93                  | 0.999        | 3014.1       | 17.48                      | 50.17                        | 82.72                     | 100.00                    | 162.50                         | 563.91                        | 41.40                          | 566.19                        | 381.19                               | 383.36                               |
| 26-Oct-15 | 12:12:10 | 281.2             | 11.39                  | 0.999        | 3015.2       | 17.48                      | 50.18                        | 82.59                     | 100.00                    | 162.49                         | 563.52                        | 41.40                          | 566.12                        | 381.19                               | 383.36                               |
| 26-Oct-15 | 12:12:15 | 282.3             | 11.39                  | 0.999        | 3010.6       | 17.48                      | 50.14                        | 81.26                     | 100.00                    | 162.49                         | 563.47                        | 41.40                          | 566.06                        | 381.20                               | 383.36                               |
| 26-Oct-15 | 12:12:20 | 281.0             | 11.39                  | 0.999        | 3011.2       | 17.48                      | 50.14                        | 82.77                     | 100.00                    | 162.49                         | 563.42                        | 41.40                          | 566.00                        | 381.20                               | 383.37                               |
| 26-Oct-15 | 12:12:25 | 281.5             | 11.22                  | 0.999        | 3015.0       | 17.48                      | 50.15                        | 82.76                     | 100.00                    | 162.48                         | 563.37                        | 41.40                          | 565.93                        | 381.21                               | 383.37                               |
| 26-Oct-15 | 12:12:30 | 281.6             | 10.51                  | 0.999        | 3015.1       | 17.48                      | 50.19                        | 83.05                     | 100.00                    | 162.48                         | 563.32                        | 41.39                          | 565.87                        | 381.21                               | 383.37                               |
| 26-Oct-15 | 12:12:35 | 281.5             | 9.79                   | 0.999        | 3015.2       | 17.48                      | 50.18                        | 83.46                     | 100.00                    | 162.48                         | 563.28                        | 41.39                          | 565.81                        | 381.22                               | 383.38                               |
| 26-Oct-15 | 12:12:40 | 281.9             | 10.80                  | 0.999        | 3014.9       | 17.48                      | 50.16                        | 82.67                     | 100.00                    | 162.47                         | 563.23                        | 41.39                          | 565.74                        | 381.23                               | 383.38                               |
| 26-Oct-15 | 12:12:45 | 281.8             | 11.19                  | 0.999        | 3011.7       | 17.48                      | 50.15                        | 82.37                     | 100.00                    | 162.47                         | 563.18                        | 41.39                          | 565.68                        | 381.24                               | 383.38                               |
| 26-Oct-15 | 12:12:50 | 281.6             | 11.02                  | 0.999        | 3012.9       | 17.48                      | 50.14                        | 82.66                     | 100.00                    | 162.46                         | 563.13                        | 41.39                          | 565.62                        | 381.25                               | 383.36                               |
| 26-Oct-15 | 12:12:55 | 281.5             | 10.85                  | 0.999        | 3014.2       | 17.48                      | 50.15                        | 83.09                     | 100.00                    | 162.46                         | 563.08                        | 41.39                          | 565.59                        | 381.22                               | 383.39                               |
| 26-Oct-15 | 12:13:00 | 281.3             | 10.68                  | 0.999        | 3015.2       | 17.48                      | 50.18                        | 83.21                     | 100.00                    | 162.45                         | 563.03                        | 41.39                          | 565.59                        | 381.26                               | 383.40                               |
| 26-Oct-15 | 12:13:05 | 281.5             | 10.51                  | 0.999        | 3013.3       | 17.49                      | 50.19                        | 82.86                     | 100.00                    | 162.45                         | 562.98                        | 41.39                          | 565.59                        | 381.27                               | 383.40                               |
| 26-Oct-15 | 12:13:10 | 281.4             | 10.33                  | 0.999        | 3012.6       | 17.49                      | 50.18                        | 82.68                     | 100.00                    | 162.45                         | 562.95                        | 41.39                          | 565.59                        | 381.28                               | 383.41                               |
| 26-Oct-15 | 12:13:15 | 281.3             | 10.16                  | 0.999        | 3018.8       | 17.49                      | 50.18                        | 82.78                     | 100.00                    | 162.44                         | 562.95                        | 41.39                          | 565.59                        | 381.27                               | 383.42                               |
| 26-Oct-15 | 12:13:20 | 281.2             | 9.99                   | 0.999        | 3013.8       | 17.49                      | 50.17                        | 82.87                     | 100.00                    | 162.44                         | 562.95                        | 41.39                          | 565.59                        | 381.29                               | 383.42                               |
| 26-Oct-15 | 12:13:25 | 281.6             | 9.82                   | 0.999        | 3012.3       | 17.49                      | 50.16                        | 82.55                     | 100.00                    | 162.43                         | 562.95                        | 41.39                          | 565.59                        | 381.29                               | 383.42                               |
| 26-Oct-15 | 12:13:30 | 281.5             | 9.65                   | 0.999        | 3012.8       | 17.49                      | 50.16                        | 82.74                     | 100.00                    | 162.43                         | 562.95                        | 41.39                          | 565.59                        | 381.30                               | 383.43                               |
| 26-Oct-15 | 12:13:35 | 281.8             | 11.48                  | 0.999        | 3017.5       | 17.49                      | 50.17                        | 82.77                     | 100.00                    | 162.43                         | 562.95                        | 41.39                          | 565.59                        | 381.32                               | 383.44                               |
| 26-Oct-15 | 12:13:40 | 281.2             | 10.54                  | 0.999        | 3019.0       | 17.49                      | 50.15                        | 83.24                     | 100.00                    | 162.42                         | 562.94                        | 41.39                          | 565.59                        | 381.24                               | 383.44                               |
| 26-Oct-15 | 12:13:45 | 281.8             | 11.51                  | 0.999        | 3011.5       | 17.49                      | 50.14                        | 82.31                     | 100.00                    | 162.41                         | 562.89                        | 41.37                          | 565.40                        | 381.36                               | 383.45                               |
| 26-Oct-15 | 12:13:50 | 281.4             | 11.51                  | 0.999        | 3011.9       | 17.49                      | 50.14                        | 82.88                     | 100.00                    | 162.40                         | 562.84                        | 41.34                          | 565.21                        | 381.35                               | 383.46                               |
| 26-Oct-15 | 12:13:55 | 281.0             | 11.51                  | 0.999        | 3014.5       | 17.49                      | 50.14                        | 83.49                     | 100.00                    | 162.40                         | 562.78                        | 41.33                          | 565.07                        | 381.37                               | 383.47                               |
| 26-Oct-15 | 12:14:00 | 280.9             | 11.51                  | 0.999        | 3016.4       | 17.49                      | 50.14                        | 83.52                     | 100.00                    | 162.39                         | 562.73                        | 41.32                          | 565.04                        | 381.37                               | 383.48                               |
| 26-Oct-15 | 12:14:05 | 281.0             | 11.51                  | 0.999        | 3014.2       | 17.49                      | 50.15                        | 83.54                     | 100.00                    | 162.38                         | 562.68                        | 41.32                          | 565.00                        | 381.38                               | 383.49                               |
| 26-Oct-15 | 12:14:10 | 280.8             | 11.53                  | 0.999        | 3016.6       | 17.49                      | 50.18                        | 83.48                     | 100.00                    | 162.38                         | 562.64                        | 41.31                          | 564.97                        | 381.38                               | 383.50                               |
| 26-Oct-15 | 12:14:15 | 281.3             | 11.56                  | 0.999        | 3018.8       | 17.49                      | 50.19                        | 83.05                     | 100.00                    | 162.37                         | 562.61                        | 41.30                          | 564.94                        | 381.39                               | 383.48                               |
| 26-Oct-15 | 12:14:20 | 281.7             | 11.58                  | 0.999        | 3013.8       | 17.49                      | 50.19                        | 83.36                     | 100.00                    | 162.36                         | 562.59                        | 41.29                          | 564.90                        | 381.40                               | 383.50                               |
| 26-Oct-15 | 12:14:25 | 280.8             | 11.60                  | 0.999        | 3019.1       | 17.49                      | 50.19                        | 84.10                     | 100.00                    | 162.36                         | 562.56                        | 41.29                          | 564.87                        | 381.39                               | 383.51                               |
| 26-Oct-15 | 12:14:30 | 280.6             | 11.62                  | 0.999        | 3019.0       | 17.49                      | 50.19                        | 83.77                     | 100.00                    | 162.35                         | 562                           |                                |                               |                                      |                                      |



Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:18:40 | 280.3             | 10.17                  | 0.999        | 3009.4       | 17.49                      | 50.13                        | 86.48                     | 100.00                    | 161.47                         | 562.54                        | 41.15                          | 564.72                        | 381.62                               | 383.91                               |
| 26-Oct-15 | 12:18:45 | 280.5             | 10.17                  | 0.999        | 3007.6       | 17.49                      | 50.13                        | 86.22                     | 100.00                    | 161.48                         | 562.59                        | 41.12                          | 564.86                        | 381.59                               | 383.92                               |
| 26-Oct-15 | 12:18:50 | 280.9             | 10.17                  | 0.999        | 3003.1       | 17.49                      | 50.09                        | 85.06                     | 100.00                    | 161.49                         | 562.64                        | 41.12                          | 565.00                        | 381.58                               | 383.93                               |
| 26-Oct-15 | 12:18:55 | 280.7             | 10.17                  | 0.999        | 2999.8       | 17.49                      | 50.01                        | 85.60                     | 100.00                    | 161.49                         | 562.70                        | 41.12                          | 565.12                        | 381.58                               | 383.93                               |
| 26-Oct-15 | 12:19:00 | 280.2             | 10.17                  | 0.999        | 3005.2       | 17.49                      | 49.98                        | 86.11                     | 100.00                    | 161.50                         | 562.75                        | 41.12                          | 565.15                        | 381.57                               | 383.94                               |
| 26-Oct-15 | 12:19:05 | 280.4             | 10.14                  | 0.999        | 3010.2       | 17.49                      | 50.00                        | 86.44                     | 100.00                    | 161.51                         | 562.81                        | 41.11                          | 565.17                        | 381.57                               | 383.95                               |
| 26-Oct-15 | 12:19:10 | 280.5             | 10.02                  | 0.999        | 3005.9       | 17.49                      | 50.04                        | 86.23                     | 100.00                    | 161.52                         | 562.84                        | 41.11                          | 565.19                        | 381.56                               | 383.95                               |
| 26-Oct-15 | 12:19:15 | 280.2             | 9.90                   | 0.999        | 3010.3       | 17.49                      | 50.05                        | 86.67                     | 100.00                    | 161.53                         | 562.85                        | 41.11                          | 565.21                        | 381.56                               | 383.96                               |
| 26-Oct-15 | 12:19:20 | 279.9             | 10.01                  | 0.999        | 3009.2       | 17.49                      | 50.07                        | 86.88                     | 100.00                    | 161.54                         | 562.86                        | 41.11                          | 565.24                        | 381.58                               | 383.97                               |
| 26-Oct-15 | 12:19:25 | 280.1             | 10.89                  | 0.999        | 3009.1       | 17.49                      | 50.09                        | 86.62                     | 100.00                    | 161.55                         | 562.87                        | 41.10                          | 565.26                        | 381.59                               | 383.98                               |
| 26-Oct-15 | 12:19:30 | 280.9             | 11.72                  | 0.999        | 3003.1       | 17.49                      | 50.06                        | 85.64                     | 100.00                    | 161.56                         | 562.87                        | 41.10                          | 565.28                        | 381.56                               | 383.99                               |
| 26-Oct-15 | 12:19:35 | 280.6             | 10.98                  | 0.999        | 3001.6       | 17.49                      | 50.02                        | 85.26                     | 100.00                    | 161.57                         | 562.88                        | 41.10                          | 565.30                        | 381.58                               | 384.00                               |
| 26-Oct-15 | 12:19:40 | 280.0             | 10.23                  | 0.999        | 3003.3       | 17.49                      | 50.00                        | 86.41                     | 100.00                    | 161.57                         | 562.89                        | 41.10                          | 565.33                        | 381.56                               | 384.00                               |
| 26-Oct-15 | 12:19:45 | 279.5             | 10.88                  | 0.999        | 3007.6       | 17.49                      | 50.03                        | 87.74                     | 100.00                    | 161.57                         | 562.90                        | 41.10                          | 565.35                        | 381.59                               | 384.00                               |
| 26-Oct-15 | 12:19:50 | 280.0             | 11.63                  | 0.999        | 3009.2       | 17.49                      | 50.08                        | 87.55                     | 100.00                    | 161.57                         | 562.90                        | 41.10                          | 565.37                        | 381.59                               | 384.00                               |
| 26-Oct-15 | 12:19:55 | 280.9             | 11.43                  | 0.999        | 3007.4       | 17.49                      | 50.07                        | 86.07                     | 100.00                    | 161.57                         | 562.91                        | 41.10                          | 565.39                        | 381.59                               | 384.00                               |
| 26-Oct-15 | 12:20:00 | 280.6             | 11.23                  | 0.999        | 3007.7       | 17.49                      | 50.06                        | 86.80                     | 100.00                    | 161.57                         | 562.92                        | 41.10                          | 565.39                        | 381.59                               | 384.00                               |
| 26-Oct-15 | 12:20:05 | 280.5             | 11.02                  | 0.999        | 3007.3       | 17.49                      | 50.05                        | 86.19                     | 100.00                    | 161.57                         | 562.93                        | 41.10                          | 565.39                        | 381.59                               | 384.00                               |
| 26-Oct-15 | 12:20:10 | 281.3             | 10.82                  | 0.999        | 3001.6       | 17.49                      | 50.04                        | 85.61                     | 100.00                    | 161.57                         | 562.93                        | 41.10                          | 565.39                        | 381.60                               | 384.01                               |
| 26-Oct-15 | 12:20:15 | 280.6             | 10.62                  | 0.999        | 2999.5       | 17.49                      | 49.99                        | 85.92                     | 100.00                    | 161.57                         | 562.93                        | 41.10                          | 565.39                        | 381.60                               | 384.03                               |
| 26-Oct-15 | 12:20:20 | 280.1             | 10.41                  | 0.999        | 3009.3       | 17.49                      | 50.02                        | 86.96                     | 100.00                    | 161.57                         | 562.94                        | 41.10                          | 565.39                        | 381.61                               | 384.03                               |
| 26-Oct-15 | 12:20:25 | 280.0             | 10.21                  | 0.999        | 3007.3       | 17.49                      | 50.04                        | 87.87                     | 100.00                    | 161.56                         | 562.97                        | 41.10                          | 565.47                        | 381.61                               | 384.04                               |
| 26-Oct-15 | 12:20:30 | 280.4             | 10.01                  | 0.999        | 3010.5       | 17.49                      | 50.09                        | 86.98                     | 100.00                    | 161.56                         | 563.00                        | 41.11                          | 565.56                        | 381.62                               | 384.05                               |
| 26-Oct-15 | 12:20:35 | 280.5             | 11.01                  | 0.999        | 3009.1       | 17.49                      | 50.09                        | 86.27                     | 100.00                    | 161.55                         | 563.04                        | 41.12                          | 565.64                        | 381.62                               | 384.06                               |
| 26-Oct-15 | 12:20:40 | 280.5             | 11.80                  | 0.999        | 3009.0       | 17.49                      | 50.09                        | 86.27                     | 100.00                    | 161.54                         | 563.07                        | 41.13                          | 565.73                        | 381.63                               | 384.07                               |
| 26-Oct-15 | 12:20:45 | 281.2             | 11.77                  | 0.999        | 3005.5       | 17.49                      | 50.03                        | 86.69                     | 100.00                    | 161.53                         | 563.11                        | 41.13                          | 565.81                        | 381.63                               | 384.04                               |
| 26-Oct-15 | 12:20:50 | 280.5             | 11.66                  | 0.999        | 3004.8       | 17.49                      | 49.99                        | 87.09                     | 100.00                    | 161.52                         | 563.14                        | 41.14                          | 565.90                        | 381.63                               | 384.05                               |
| 26-Oct-15 | 12:20:55 | 280.5             | 11.56                  | 0.999        | 3003.7       | 17.50                      | 49.99                        | 86.60                     | 100.00                    | 161.51                         | 563.17                        | 41.14                          | 565.98                        | 381.63                               | 384.06                               |
| 26-Oct-15 | 12:21:00 | 280.3             | 11.45                  | 0.999        | 3003.4       | 17.50                      | 50.00                        | 86.62                     | 100.00                    | 161.50                         | 563.21                        | 41.14                          | 566.04                        | 381.63                               | 384.07                               |
| 26-Oct-15 | 12:21:05 | 280.7             | 11.34                  | 0.999        | 3002.9       | 17.50                      | 50.01                        | 86.20                     | 100.00                    | 161.48                         | 563.24                        | 41.14                          | 566.07                        | 381.63                               | 384.08                               |
| 26-Oct-15 | 12:21:10 | 280.7             | 11.23                  | 0.999        | 3002.1       | 17.51                      | 50.01                        | 86.69                     | 100.00                    | 161.47                         | 563.27                        | 41.15                          | 566.11                        | 381.63                               | 384.08                               |
| 26-Oct-15 | 12:21:15 | 280.3             | 11.12                  | 0.999        | 3003.7       | 17.51                      | 50.02                        | 87.26                     | 100.00                    | 161.46                         | 563.27                        | 41.15                          | 566.14                        | 381.63                               | 384.09                               |
| 26-Oct-15 | 12:21:20 | 280.3             | 11.02                  | 0.999        | 3005.1       | 17.51                      | 50.02                        | 87.52                     | 100.00                    | 161.45                         | 563.27                        | 41.15                          | 566.17                        | 381.63                               | 384.09                               |
| 26-Oct-15 | 12:21:25 | 280.2             | 10.91                  | 0.999        | 3005.7       | 17.51                      | 50.03                        | 87.79                     | 100.00                    | 161.44                         | 563.27                        | 41.16                          | 566.21                        | 381.63                               | 384.09                               |
| 26-Oct-15 | 12:21:30 | 279.8             | 10.80                  | 0.999        | 3010.3       | 17.51                      | 50.03                        | 88.05                     | 100.00                    | 161.43                         | 563.27                        | 41.16                          | 566.24                        | 381.63                               | 384.10                               |
| 26-Oct-15 | 12:21:35 | 280.6             | 10.69                  | 0.999        | 3007.6       | 17.51                      | 50.02                        | 87.15                     | 100.00                    | 161.42                         | 563.27                        | 41.16                          | 566.27                        | 381.63                               | 384.10                               |
| 26-Oct-15 | 12:21:40 | 280.9             | 10.65                  | 0.999        | 3002.9       | 17.51                      | 50.01                        | 86.14                     | 100.00                    | 161.41                         | 563.27                        | 41.16                          | 566.31                        | 381.63                               | 384.11                               |
| 26-Oct-15 | 12:21:45 | 280.5             | 10.65                  | 0.999        | 3002.4       | 17.51                      | 49.99                        | 86.99                     | 100.00                    | 161.41                         | 563.27                        | 41.17                          | 566.34                        | 381.63                               | 384.11                               |
| 26-Oct-15 | 12:21:50 | 280.3             | 10.65                  | 0.999        | 3001.9       | 17.51                      | 49.99                        | 87.37                     | 100.00                    | 161.41                         | 563.27                        | 41.17                          | 566.38                        | 381.63                               | 384.12                               |
| 26-Oct-15 | 12:21:55 | 280.5             | 10.65                  | 0.999        | 3001.3       | 17.51                      | 50.01                        | 87.68                     | 100.00                    | 161.41                         | 563.27                        | 41.17                          | 566.41                        | 381.62                               | 384.12                               |
| 26-Oct-15 | 12:22:00 | 280.9             | 10.65                  | 0.999        | 3007.2       | 17.51                      | 50.02                        | 87.99                     | 100.00                    | 161.41                         | 563.27                        | 41.17                          | 566.41                        | 381.62                               | 384.13                               |
| 26-Oct-15 | 12:22:05 | 280.1             | 10.65                  | 0.999        | 3007.3       | 17.51                      | 50.04                        | 88.11                     | 100.00                    | 161.41                         | 563.26                        | 41.17                          | 566.43                        | 381.62                               | 384.14                               |
| 26-Oct-15 | 12:22:10 | 280.6             | 10.65                  | 0.999        | 3007.0       | 17.51                      | 50.06                        | 87.08                     | 100.00                    | 161.42                         | 563.25                        | 41.18                          | 566.45                        | 381.62                               | 384.15                               |
| 26-Oct-15 | 12:22:15 | 280.3             | 10.65                  | 0.999        | 3007.6       | 17.51                      | 50.09                        | 87.29                     | 100.00                    | 161.42                         | 563.26                        | 41.18                          | 566.47                        | 381.61                               | 384.15                               |
| 26-Oct-15 | 12:22:20 | 281.0             | 10.65                  | 0.999        | 3007.0       | 17.51                      | 50.06                        | 86.61                     | 100.00                    | 161.42                         | 563.26                        | 41.19                          | 566.49                        | 381.61                               | 384.16                               |
| 26-Oct-15 | 12:22:25 | 280.8             | 10.69                  | 0.999        | 3000.0       | 17.51                      | 50.03                        | 86.37                     | 100.00                    | 161.42                         | 563.26                        | 41.19                          | 566.51                        | 381.61                               | 384.17                               |
| 26-Oct-15 | 12:22:30 | 280.6             | 10.83                  | 0.999        | 3003.3       | 17.51                      | 49.99                        | 86.89                     | 100.00                    | 161.42                         | 563.26                        | 41.20                          | 566.52                        | 381.60                               | 384.18                               |
| 26-Oct-15 | 12:22:35 | 280.4             | 10.97                  | 0.999        | 3007.1       | 17.50                      | 50.02                        | 87.67                     | 100.00                    | 161.43                         | 563.26                        | 41.20                          | 566.54                        | 381.60                               | 384.19                               |
| 26-Oct-15 | 12:22:40 | 280.9             | 11.04                  | 0.999        | 3010.3       | 17.50                      | 50.04                        | 87.24                     | 100.00                    | 161.43                         | 563.27                        | 41.21                          | 566.56                        | 381.60                               | 384.20                               |
| 26-Oct-15 | 12:22:45 | 280.4             | 11.02                  | 0.999        | 3007.4       | 17.50                      | 50.05                        | 87.17                     | 100.00                    | 161.41                         | 563.27                        | 41.21                          | 566.58                        | 381.60                               | 384.21                               |
| 26-Oct-15 | 12:22:50 | 280.3             | 11.01                  | 0.999        | 3011.1       | 17.50                      | 50.06                        | 87.38                     | 100.00                    | 161.38                         | 563.27                        | 41.20                          | 566.60                        | 381.59                               | 384.22                               |
| 26-Oct-15 | 12:22:55 | 280.2             | 11.00                  | 0.999        | 3007.6       | 17.50                      | 50.07                        | 87.60                     | 100.00                    | 161.34                         | 563.27                        | 41.19                          | 566.62                        | 381.62                               | 384.23                               |
| 26-Oct-15 | 12:23:00 | 280.1             | 10.98                  | 0.999        | 3009.3       | 17.50                      | 50.07                        | 87.82                     | 100.00                    | 161.31                         | 563.27                        | 41.19                          | 566.62                        | 381.62                               | 384.23                               |
| 26-Oct-15 | 12:23:05 | 279.9             | 10.97                  | 0.999        | 3008.9       | 17.50                      | 50.08                        | 88.04                     | 100.00                    | 161.28                         | 563.28                        | 41.18                          | 566.62                        | 381.62                               | 384.24                               |
| 26-Oct-15 | 12:23:10 | 279.6             | 10.96                  | 0.999        | 3008.5       | 17.49                      | 50.09                        | 87.78                     | 100.00                    | 161.24                         | 563.28                        | 41.17                          | 566.62                        | 381.60                               | 384.24                               |
| 26-Oct-15 | 12:23:15 | 280.8             | 10.94                  | 0.999        | 3006.9       | 17.49                      | 50.06                        | 86.79                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.62                               | 384.25                               |
| 26-Oct-15 | 12:23:20 | 280.5             | 10.83                  | 0.999        | 3004.9       | 17.49                      | 50.04                        | 86.43                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.59                               | 384.26                               |
| 26-Oct-15 | 12:23:25 | 279.8             | 10.92                  | 0.999        | 3006.9       | 17.49                      | 50.03                        | 87.83                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.59                               | 384.26                               |
| 26-Oct-15 | 12:23:30 | 280.0             | 10.90                  | 0.999        | 3008.0       | 17.49                      | 50.02                        | 87.76                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.59                               | 384.27                               |
| 26-Oct-15 | 12:23:35 | 280.5             | 10.89                  | 0.999        | 3008.9       | 17.49                      | 50.01                        | 87.17                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.59                               | 384.27                               |
| 26-Oct-15 | 12:23:40 | 280.7             | 10.59                  | 0.999        | 3008.3       | 17.49                      | 50.00                        | 87.17                     | 100.00                    | 161.23                         | 563.28                        | 41.16                          | 566.62                        | 381.58                               | 384.28                               |
| 26-Oct-15 | 12:23:45 | 280.8             | 10.12                  | 0.999        | 3003.2       | 17.48                      | 49.99                        | 87.17                     | 100.00                    | 161.24                         | 563.32                        | 41.17                          | 566.69                        | 381.58                               | 384.29                               |
| 26-Oct-15 | 12:23:50 | 281.0             | 9.66                   | 0.999        | 2996.5       | 17.48                      | 49.98                        | 86.36                     | 100.00                    | 161.25                         | 563.35                        | 41.18                          | 566.75                        | 381.58                               | 384.29                               |
| 26-Oct-15 | 12:23:55 | 281.0             | 9.20                   | 0.999        | 2993.0       | 17.48                      | 49.90                        | 86.52                     | 100.00                    | 161.25                         | 563.38                        | 41.19                          | 566.82                        | 381.57                               | 384.29                               |
| 26-Oct-15 | 12:24:00 | 280.5             | 8.94                   | 0.999        | 2995.3       | 17.48                      | 49.88                        | 87.01                     | 100.00                    | 161.26                         | 563.41                        | 41.20                          | 566.84                        | 381.57                               | 384.27                               |
| 26-Oct-15 | 12:24:05 | 280.2             | 8.95                   | 0.999        | 2999.4       | 17.48                      | 49.88                        | 86.97                     | 100.00                    | 161.27                         | 563.45                        | 41.20                          | 566.83                        | 381.57                               | 384.31                               |
| 26-Oct-15 | 12:24:10 | 280.5             | 9.04                   | 0.999        | 2999.5       | 17.48                      | 49.90                        | 86.58                     | 100.00                    | 161.28                         | 563.48                        | 41.21                          | 566.83                        | 381.57                               | 384.31                               |
| 26-Oct-15 | 12:24:15 | 280.4             | 9.12                   | 0.999        | 2995.3       | 17.48                      | 49.91                        | 86.56                     | 100.00                    | 161.26                         | 563.48                        | 41.20                          | 566.83                        | 381.56                               | 384.32                               |
| 26-Oct-15 | 12:24:20 | 280.1             | 9.20                   | 0.999        | 2999.9       | 17.48                      | 49.92                        | 86.54                     | 100.00                    | 161.21                         | 563.48</                      |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:28:30 | 280.5             | 9.65                   | 0.999        | 2987.7       | 17.48                      | 49.74                        | 85.00                     | 100.00                    | 161.42                         | 563.78                        | 41.21                          | 566.32                        | 381.75                               | 384.58                               |
| 26-Oct-15 | 12:28:35 | 280.4             | 9.65                   | 0.999        | 2990.0       | 17.48                      | 49.75                        | 85.20                     | 100.00                    | 161.42                         | 563.78                        | 41.21                          | 566.32                        | 381.77                               | 384.59                               |
| 26-Oct-15 | 12:28:40 | 280.6             | 9.65                   | 0.999        | 2994.7       | 17.48                      | 49.77                        | 85.20                     | 100.00                    | 161.42                         | 563.77                        | 41.21                          | 566.32                        | 381.75                               | 384.60                               |
| 26-Oct-15 | 12:28:45 | 280.9             | 9.65                   | 0.999        | 2994.9       | 17.48                      | 49.76                        | 85.20                     | 100.00                    | 161.40                         | 563.75                        | 41.20                          | 566.20                        | 381.75                               | 384.59                               |
| 26-Oct-15 | 12:28:50 | 280.7             | 9.65                   | 0.999        | 2994.6       | 17.48                      | 49.75                        | 84.75                     | 100.00                    | 161.39                         | 563.73                        | 41.19                          | 566.08                        | 381.77                               | 384.61                               |
| 26-Oct-15 | 12:28:55 | 280.7             | 9.65                   | 0.999        | 2993.7       | 17.48                      | 49.74                        | 84.75                     | 100.00                    | 161.38                         | 563.71                        | 41.19                          | 565.95                        | 381.76                               | 384.62                               |
| 26-Oct-15 | 12:29:00 | 280.9             | 9.65                   | 0.999        | 2998.9       | 17.48                      | 49.73                        | 84.28                     | 100.00                    | 161.37                         | 563.68                        | 41.19                          | 565.93                        | 381.76                               | 384.63                               |
| 26-Oct-15 | 12:29:05 | 280.6             | 9.63                   | 0.999        | 2988.8       | 17.48                      | 49.73                        | 85.01                     | 100.00                    | 161.35                         | 563.66                        | 41.18                          | 565.93                        | 381.79                               | 384.63                               |
| 26-Oct-15 | 12:29:10 | 279.9             | 9.51                   | 0.999        | 2994.4       | 17.49                      | 49.77                        | 85.92                     | 100.00                    | 161.34                         | 563.64                        | 41.18                          | 565.94                        | 381.79                               | 384.64                               |
| 26-Oct-15 | 12:29:15 | 281.5             | 9.39                   | 0.999        | 2987.3       | 17.50                      | 49.80                        | 84.28                     | 100.00                    | 161.33                         | 563.62                        | 41.18                          | 565.94                        | 381.80                               | 384.65                               |
| 26-Oct-15 | 12:29:20 | 280.8             | 9.27                   | 0.999        | 2991.2       | 17.51                      | 49.77                        | 84.42                     | 100.00                    | 161.32                         | 563.60                        | 41.17                          | 565.95                        | 381.81                               | 384.65                               |
| 26-Oct-15 | 12:29:25 | 280.4             | 9.15                   | 0.999        | 2987.6       | 17.51                      | 49.75                        | 84.72                     | 100.00                    | 161.30                         | 563.58                        | 41.17                          | 565.96                        | 381.82                               | 384.66                               |
| 26-Oct-15 | 12:29:30 | 280.2             | 9.40                   | 0.999        | 2991.1       | 17.52                      | 49.74                        | 84.80                     | 100.00                    | 161.29                         | 563.56                        | 41.17                          | 565.96                        | 381.79                               | 384.66                               |
| 26-Oct-15 | 12:29:35 | 280.8             | 9.72                   | 0.999        | 2988.6       | 17.53                      | 49.73                        | 84.34                     | 100.00                    | 161.28                         | 563.55                        | 41.16                          | 565.97                        | 381.81                               | 384.67                               |
| 26-Oct-15 | 12:29:40 | 280.1             | 10.04                  | 0.999        | 2987.7       | 17.53                      | 49.72                        | 84.67                     | 100.00                    | 161.28                         | 563.53                        | 41.16                          | 565.97                        | 381.79                               | 384.68                               |
| 26-Oct-15 | 12:29:45 | 280.2             | 10.37                  | 0.999        | 2990.3       | 17.54                      | 49.70                        | 84.69                     | 100.00                    | 161.28                         | 563.51                        | 41.16                          | 565.98                        | 381.80                               | 384.68                               |
| 26-Oct-15 | 12:29:50 | 281.1             | 10.69                  | 0.999        | 2983.5       | 17.55                      | 49.69                        | 83.80                     | 100.00                    | 161.28                         | 563.49                        | 41.16                          | 565.99                        | 381.82                               | 384.69                               |
| 26-Oct-15 | 12:29:55 | 280.6             | 11.01                  | 0.999        | 2989.9       | 17.55                      | 49.67                        | 84.53                     | 100.00                    | 161.28                         | 563.47                        | 41.16                          | 565.99                        | 381.82                               | 384.70                               |
| 26-Oct-15 | 12:30:00 | 279.5             | 11.06                  | 0.999        | 2992.9       | 17.56                      | 49.78                        | 86.01                     | 100.00                    | 161.28                         | 563.45                        | 41.16                          | 565.99                        | 381.82                               | 384.71                               |
| 26-Oct-15 | 12:30:05 | 280.3             | 11.06                  | 0.999        | 2995.2       | 17.56                      | 49.82                        | 84.65                     | 100.00                    | 161.28                         | 563.44                        | 41.16                          | 565.99                        | 381.82                               | 384.72                               |
| 26-Oct-15 | 12:30:10 | 280.1             | 11.06                  | 0.999        | 2993.7       | 17.56                      | 49.83                        | 85.30                     | 100.00                    | 161.28                         | 563.42                        | 41.16                          | 565.99                        | 381.83                               | 384.71                               |
| 26-Oct-15 | 12:30:15 | 280.7             | 11.06                  | 0.999        | 2992.2       | 17.56                      | 49.84                        | 84.66                     | 100.00                    | 161.28                         | 563.41                        | 41.16                          | 565.99                        | 381.84                               | 384.73                               |
| 26-Oct-15 | 12:30:20 | 280.9             | 11.06                  | 0.999        | 2991.3       | 17.56                      | 49.85                        | 84.37                     | 100.00                    | 161.30                         | 563.41                        | 41.16                          | 565.99                        | 381.84                               | 384.74                               |
| 26-Oct-15 | 12:30:25 | 280.5             | 11.06                  | 0.999        | 2991.5       | 17.56                      | 49.85                        | 84.37                     | 100.00                    | 161.47                         | 563.37                        | 41.16                          | 565.99                        | 381.85                               | 384.75                               |
| 26-Oct-15 | 12:30:30 | 280.1             | 11.06                  | 0.999        | 2992.5       | 17.56                      | 49.86                        | 85.29                     | 100.00                    | 161.50                         | 563.33                        | 41.17                          | 565.98                        | 381.85                               | 384.76                               |
| 26-Oct-15 | 12:30:35 | 280.3             | 11.06                  | 0.999        | 2994.5       | 17.56                      | 49.87                        | 85.54                     | 100.00                    | 161.52                         | 563.29                        | 41.17                          | 565.98                        | 381.86                               | 384.77                               |
| 26-Oct-15 | 12:30:40 | 280.5             | 11.06                  | 0.999        | 2996.8       | 17.56                      | 49.88                        | 85.66                     | 100.00                    | 161.54                         | 563.25                        | 41.17                          | 565.97                        | 381.86                               | 384.78                               |
| 26-Oct-15 | 12:30:45 | 280.6             | 11.02                  | 0.999        | 2999.4       | 17.56                      | 49.89                        | 85.13                     | 100.00                    | 161.56                         | 563.21                        | 41.18                          | 565.96                        | 381.87                               | 384.78                               |
| 26-Oct-15 | 12:30:50 | 280.3             | 10.86                  | 0.999        | 2999.4       | 17.56                      | 49.93                        | 85.50                     | 100.00                    | 161.58                         | 563.17                        | 41.18                          | 565.96                        | 381.87                               | 384.79                               |
| 26-Oct-15 | 12:30:55 | 280.5             | 10.72                  | 0.999        | 3003.1       | 17.55                      | 49.97                        | 85.14                     | 100.00                    | 161.61                         | 563.14                        | 41.18                          | 565.95                        | 381.88                               | 384.77                               |
| 26-Oct-15 | 12:31:00 | 280.8             | 10.93                  | 0.999        | 3003.0       | 17.55                      | 49.97                        | 84.80                     | 100.00                    | 161.63                         | 563.10                        | 41.19                          | 565.96                        | 381.88                               | 384.77                               |
| 26-Oct-15 | 12:31:05 | 281.1             | 11.14                  | 0.999        | 3000.9       | 17.55                      | 49.95                        | 84.46                     | 100.00                    | 161.65                         | 563.06                        | 41.19                          | 565.97                        | 381.89                               | 384.81                               |
| 26-Oct-15 | 12:31:10 | 280.9             | 11.36                  | 0.999        | 2994.2       | 17.55                      | 49.91                        | 84.52                     | 100.00                    | 161.67                         | 563.02                        | 41.20                          | 565.99                        | 381.89                               | 384.82                               |
| 26-Oct-15 | 12:31:15 | 280.7             | 11.57                  | 0.999        | 2991.8       | 17.55                      | 49.88                        | 85.00                     | 100.00                    | 161.68                         | 563.00                        | 41.20                          | 566.00                        | 381.89                               | 384.83                               |
| 26-Oct-15 | 12:31:20 | 280.8             | 11.79                  | 0.999        | 2993.5       | 17.55                      | 49.87                        | 85.11                     | 100.00                    | 161.68                         | 563.00                        | 41.20                          | 566.02                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:25 | 281.0             | 12.00                  | 0.999        | 2993.5       | 17.55                      | 49.86                        | 84.41                     | 100.00                    | 161.68                         | 563.00                        | 41.21                          | 566.03                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:30 | 280.4             | 12.22                  | 0.999        | 2997.1       | 17.55                      | 49.86                        | 85.30                     | 100.00                    | 161.68                         | 563.00                        | 41.21                          | 566.05                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:35 | 280.2             | 12.43                  | 0.999        | 2999.3       | 17.55                      | 49.85                        | 84.85                     | 100.00                    | 161.68                         | 563.00                        | 41.22                          | 566.06                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:40 | 280.8             | 12.65                  | 0.999        | 2995.8       | 17.55                      | 49.85                        | 84.40                     | 100.00                    | 161.68                         | 563.00                        | 41.22                          | 566.08                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:45 | 281.1             | 12.78                  | 0.999        | 2993.2       | 17.55                      | 49.85                        | 84.51                     | 100.00                    | 161.68                         | 563.00                        | 41.22                          | 566.10                        | 381.90                               | 384.83                               |
| 26-Oct-15 | 12:31:50 | 281.3             | 10.79                  | 0.999        | 2991.4       | 17.55                      | 49.83                        | 84.84                     | 100.00                    | 161.68                         | 563.00                        | 41.22                          | 566.11                        | 381.90                               | 384.85                               |
| 26-Oct-15 | 12:31:55 | 280.7             | 11.86                  | 0.999        | 2991.6       | 17.55                      | 49.83                        | 85.17                     | 100.00                    | 161.68                         | 563.00                        | 41.22                          | 566.13                        | 381.90                               | 384.84                               |
| 26-Oct-15 | 12:32:00 | 280.5             | 12.67                  | 0.999        | 2991.3       | 17.55                      | 49.85                        | 85.30                     | 100.00                    | 161.69                         | 563.03                        | 41.22                          | 566.13                        | 381.90                               | 384.88                               |
| 26-Oct-15 | 12:32:05 | 280.5             | 12.67                  | 0.999        | 2995.2       | 17.55                      | 49.87                        | 85.30                     | 100.00                    | 161.76                         | 563.18                        | 41.23                          | 566.17                        | 381.90                               | 384.89                               |
| 26-Oct-15 | 12:32:10 | 280.5             | 12.67                  | 0.999        | 2999.7       | 17.55                      | 49.88                        | 85.05                     | 100.00                    | 161.82                         | 563.33                        | 41.24                          | 566.20                        | 381.90                               | 384.90                               |
| 26-Oct-15 | 12:32:15 | 280.9             | 12.67                  | 0.999        | 2998.8       | 17.55                      | 49.86                        | 84.66                     | 100.00                    | 161.88                         | 563.43                        | 41.25                          | 566.24                        | 381.90                               | 384.90                               |
| 26-Oct-15 | 12:32:20 | 281.8             | 12.67                  | 0.999        | 2991.4       | 17.55                      | 49.84                        | 84.24                     | 100.00                    | 161.93                         | 563.48                        | 41.25                          | 566.27                        | 381.90                               | 384.90                               |
| 26-Oct-15 | 12:32:25 | 281.3             | 12.54                  | 0.999        | 2994.2       | 17.55                      | 49.84                        | 84.81                     | 100.00                    | 161.99                         | 563.53                        | 41.26                          | 566.31                        | 381.90                               | 384.88                               |
| 26-Oct-15 | 12:32:30 | 280.2             | 12.00                  | 0.999        | 2999.2       | 17.55                      | 49.87                        | 86.25                     | 100.00                    | 162.04                         | 563.58                        | 41.27                          | 566.34                        | 381.90                               | 384.89                               |
| 26-Oct-15 | 12:32:35 | 281.0             | 11.46                  | 0.999        | 2995.4       | 17.55                      | 49.87                        | 85.32                     | 100.00                    | 162.08                         | 563.63                        | 41.28                          | 566.38                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:32:40 | 281.9             | 10.92                  | 0.999        | 2991.8       | 17.54                      | 49.84                        | 83.56                     | 100.00                    | 162.11                         | 563.68                        | 41.28                          | 566.41                        | 381.90                               | 384.89                               |
| 26-Oct-15 | 12:32:45 | 281.4             | 10.78                  | 0.999        | 2990.8       | 17.54                      | 49.82                        | 84.37                     | 100.00                    | 162.14                         | 563.73                        | 41.29                          | 566.44                        | 381.90                               | 384.88                               |
| 26-Oct-15 | 12:32:50 | 281.4             | 10.87                  | 0.999        | 2988.4       | 17.54                      | 49.79                        | 84.23                     | 100.00                    | 162.17                         | 563.77                        | 41.30                          | 566.48                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:32:55 | 281.6             | 10.95                  | 0.999        | 2991.2       | 17.54                      | 49.77                        | 84.31                     | 100.00                    | 162.20                         | 563.82                        | 41.31                          | 566.51                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:00 | 281.4             | 11.03                  | 0.999        | 2988.7       | 17.54                      | 49.76                        | 84.78                     | 100.00                    | 162.24                         | 563.87                        | 41.31                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:05 | 281.0             | 11.11                  | 0.999        | 2991.3       | 17.54                      | 49.75                        | 84.76                     | 100.00                    | 162.24                         | 563.92                        | 41.32                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:10 | 281.6             | 11.20                  | 0.999        | 2987.5       | 17.54                      | 49.74                        | 84.03                     | 100.00                    | 162.24                         | 563.97                        | 41.32                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:15 | 281.5             | 11.24                  | 0.999        | 2991.0       | 17.54                      | 49.73                        | 84.12                     | 100.00                    | 162.24                         | 564.00                        | 41.32                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:20 | 281.2             | 11.26                  | 0.999        | 2991.0       | 17.54                      | 49.76                        | 84.25                     | 100.00                    | 162.24                         | 564.00                        | 41.32                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:25 | 281.4             | 11.44                  | 0.999        | 2994.7       | 17.54                      | 49.78                        | 84.26                     | 100.00                    | 162.24                         | 564.00                        | 41.32                          | 566.55                        | 381.90                               | 384.91                               |
| 26-Oct-15 | 12:33:30 | 281.6             | 11.53                  | 0.999        | 2992.6       | 17.54                      | 49.79                        | 83.92                     | 100.00                    | 162.24                         | 564.00                        | 41.32                          | 566.55                        | 381.86                               | 384.91                               |
| 26-Oct-15 | 12:33:35 | 281.7             | 11.61                  | 0.999        | 2991.3       | 17.54                      | 49.80                        | 83.58                     | 100.00                    | 162.24                         | 564.00                        | 41.32                          | 566.55                        | 381.87                               | 384.92                               |
| 26-Oct-15 | 12:33:40 | 281.4             | 11.69                  | 0.999        | 2991.7       | 17.54                      | 49.81                        | 84.53                     | 100.00                    | 162.24                         | 564.01                        | 41.32                          | 566.55                        | 381.88                               | 384.92                               |
| 26-Oct-15 | 12:33:45 | 281.6             | 11.69                  | 0.999        | 2991.4       | 17.54                      | 49.81                        | 84.53                     | 100.00                    | 162.26                         | 564.01                        | 41.34                          | 566.58                        | 381.86                               | 384.92                               |
| 26-Oct-15 | 12:33:50 | 282.0             | 11.69                  | 0.999        | 2989.8       | 17.54                      | 49.82                        | 83.69                     | 100.00                    | 162.29                         | 564.02                        | 41.36                          | 566.61                        | 381.86                               | 384.93                               |
| 26-Oct-15 | 12:33:55 | 281.5             | 11.69                  | 0.999        | 2992.4       | 17.54                      | 49.83                        | 84.55                     | 100.00                    | 162.31                         | 564.03                        | 41.38                          | 566.63                        | 381.87                               | 384.93                               |
| 26-Oct-15 | 12:34:00 | 281.1             | 11.69                  | 0.999        | 2993.2       | 17.54                      | 49.84                        | 85.02                     | 100.00                    | 162.33                         | 564.04                        | 41.38                          | 566.65                        | 381.87                               | 384.93                               |
| 26-Oct-15 | 12:34:05 | 282.0             | 11.66                  | 0.999        | 2989.4       | 17.54                      | 49.83                        | 83.53                     | 100.00                    | 162.34                         | 564.04                        | 41.38                          | 566.64                        | 381.87                               | 384.93                               |
| 26-Oct-15 | 12:34:10 | 281.8             | 11.53                  | 0.999        | 2987.7       | 17.54                      | 49.79                        | 84.06                     | 100.00                    | 162.34                         | 564.05                        | 41                             |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:38:20 | 281.5             | 10.22                  | 0.999        | 3010.1       | 17.54                      | 50.08                        | 85.49                     | 100.00                    | 162.16                         | 562.65                        | 41.39                          | 565.59                        | 381.82                               | 385.03                               |
| 26-Oct-15 | 12:38:25 | 281.2             | 10.34                  | 0.999        | 3007.2       | 17.54                      | 50.08                        | 85.96                     | 100.00                    | 162.16                         | 562.65                        | 41.39                          | 565.59                        | 381.82                               | 385.03                               |
| 26-Oct-15 | 12:38:30 | 280.8             | 10.45                  | 0.999        | 3011.2       | 17.54                      | 50.07                        | 87.11                     | 100.00                    | 162.16                         | 562.65                        | 41.39                          | 565.59                        | 381.81                               | 385.03                               |
| 26-Oct-15 | 12:38:35 | 281.2             | 10.57                  | 0.999        | 3011.1       | 17.54                      | 50.07                        | 86.30                     | 100.00                    | 162.16                         | 562.65                        | 41.39                          | 565.59                        | 381.80                               | 385.03                               |
| 26-Oct-15 | 12:38:40 | 281.6             | 10.68                  | 0.999        | 3010.5       | 17.53                      | 50.06                        | 85.48                     | 100.00                    | 162.16                         | 562.65                        | 41.39                          | 565.59                        | 381.79                               | 385.03                               |
| 26-Oct-15 | 12:38:45 | 281.6             | 10.80                  | 0.999        | 3007.3       | 17.53                      | 50.06                        | 85.26                     | 100.00                    | 162.14                         | 562.65                        | 41.39                          | 565.55                        | 381.78                               | 385.04                               |
| 26-Oct-15 | 12:38:50 | 281.6             | 10.91                  | 0.999        | 3003.4       | 17.53                      | 50.05                        | 85.53                     | 100.00                    | 162.12                         | 562.66                        | 41.40                          | 565.52                        | 381.79                               | 385.04                               |
| 26-Oct-15 | 12:38:55 | 281.3             | 11.03                  | 0.999        | 3004.3       | 17.53                      | 50.01                        | 85.96                     | 100.00                    | 162.10                         | 562.66                        | 41.39                          | 565.48                        | 381.82                               | 385.04                               |
| 26-Oct-15 | 12:39:00 | 281.0             | 11.14                  | 0.999        | 3005.2       | 17.53                      | 50.00                        | 86.24                     | 100.00                    | 162.08                         | 562.66                        | 41.39                          | 565.44                        | 381.80                               | 385.05                               |
| 26-Oct-15 | 12:39:05 | 281.2             | 11.21                  | 0.999        | 3006.1       | 17.53                      | 50.00                        | 85.65                     | 100.00                    | 162.07                         | 562.66                        | 41.38                          | 565.42                        | 381.81                               | 385.05                               |
| 26-Oct-15 | 12:39:10 | 281.0             | 11.20                  | 0.999        | 3006.9       | 17.53                      | 50.02                        | 85.79                     | 100.00                    | 162.06                         | 562.66                        | 41.38                          | 565.40                        | 381.80                               | 385.05                               |
| 26-Oct-15 | 12:39:15 | 280.9             | 11.19                  | 0.999        | 3009.3       | 17.53                      | 50.05                        | 85.91                     | 100.00                    | 162.04                         | 562.67                        | 41.38                          | 565.38                        | 381.82                               | 385.06                               |
| 26-Oct-15 | 12:39:20 | 281.2             | 11.19                  | 0.999        | 3007.0       | 17.53                      | 50.09                        | 85.49                     | 100.00                    | 162.03                         | 562.69                        | 41.37                          | 565.36                        | 381.78                               | 385.06                               |
| 26-Oct-15 | 12:39:25 | 281.6             | 11.18                  | 0.999        | 3009.0       | 17.54                      | 50.08                        | 85.32                     | 100.00                    | 162.02                         | 562.71                        | 41.37                          | 565.35                        | 381.78                               | 385.05                               |
| 26-Oct-15 | 12:39:30 | 281.4             | 11.17                  | 0.999        | 3006.9       | 17.54                      | 50.05                        | 85.51                     | 100.00                    | 162.00                         | 562.72                        | 41.36                          | 565.33                        | 381.77                               | 385.03                               |
| 26-Oct-15 | 12:39:35 | 281.3             | 11.17                  | 0.999        | 3005.4       | 17.54                      | 50.03                        | 85.69                     | 100.00                    | 161.99                         | 562.74                        | 41.36                          | 565.31                        | 381.77                               | 385.03                               |
| 26-Oct-15 | 12:39:40 | 281.1             | 11.16                  | 0.999        | 3006.5       | 17.54                      | 50.02                        | 85.87                     | 100.00                    | 161.98                         | 562.76                        | 41.35                          | 565.29                        | 381.76                               | 385.03                               |
| 26-Oct-15 | 12:39:45 | 281.0             | 11.15                  | 0.999        | 2999.7       | 17.54                      | 50.00                        | 86.05                     | 100.00                    | 161.96                         | 562.78                        | 41.35                          | 565.27                        | 381.76                               | 385.03                               |
| 26-Oct-15 | 12:39:50 | 280.8             | 11.15                  | 0.999        | 2999.7       | 17.54                      | 49.95                        | 86.24                     | 100.00                    | 161.95                         | 562.80                        | 41.35                          | 565.25                        | 381.76                               | 385.03                               |
| 26-Oct-15 | 12:39:55 | 280.1             | 11.14                  | 0.999        | 3007.4       | 17.54                      | 49.99                        | 86.95                     | 100.00                    | 161.94                         | 562.82                        | 41.35                          | 565.23                        | 381.75                               | 385.03                               |
| 26-Oct-15 | 12:40:00 | 280.6             | 11.13                  | 0.999        | 3010.0       | 17.55                      | 50.08                        | 86.39                     | 100.00                    | 161.92                         | 562.84                        | 41.35                          | 565.21                        | 381.75                               | 385.03                               |
| 26-Oct-15 | 12:40:05 | 281.1             | 11.23                  | 0.999        | 3007.4       | 17.55                      | 50.12                        | 85.56                     | 100.00                    | 161.92                         | 562.85                        | 41.35                          | 565.21                        | 381.78                               | 385.03                               |
| 26-Oct-15 | 12:40:10 | 280.6             | 11.47                  | 0.999        | 3013.8       | 17.55                      | 50.13                        | 85.77                     | 100.00                    | 161.92                         | 562.87                        | 41.35                          | 565.21                        | 381.76                               | 385.03                               |
| 26-Oct-15 | 12:40:15 | 280.5             | 11.70                  | 0.999        | 3011.7       | 17.55                      | 50.15                        | 86.15                     | 100.00                    | 161.92                         | 562.88                        | 41.35                          | 565.21                        | 381.78                               | 385.03                               |
| 26-Oct-15 | 12:40:20 | 280.9             | 11.93                  | 0.999        | 3014.5       | 17.55                      | 50.14                        | 85.64                     | 100.00                    | 161.92                         | 562.89                        | 41.35                          | 565.21                        | 381.76                               | 385.03                               |
| 26-Oct-15 | 12:40:25 | 281.4             | 12.17                  | 0.999        | 3010.7       | 17.55                      | 50.11                        | 85.25                     | 100.00                    | 161.91                         | 562.90                        | 41.33                          | 565.22                        | 381.77                               | 385.04                               |
| 26-Oct-15 | 12:40:30 | 281.6             | 12.40                  | 0.999        | 3005.9       | 17.55                      | 50.04                        | 84.57                     | 100.00                    | 161.90                         | 562.92                        | 41.31                          | 565.23                        | 381.76                               | 385.04                               |
| 26-Oct-15 | 12:40:35 | 280.8             | 12.63                  | 0.999        | 3003.4       | 17.55                      | 50.01                        | 85.16                     | 100.00                    | 161.89                         | 562.93                        | 41.30                          | 565.23                        | 381.77                               | 385.05                               |
| 26-Oct-15 | 12:40:40 | 280.4             | 12.87                  | 0.999        | 3008.4       | 17.55                      | 50.04                        | 85.29                     | 100.00                    | 161.89                         | 562.95                        | 41.30                          | 565.24                        | 381.75                               | 385.05                               |
| 26-Oct-15 | 12:40:45 | 281.2             | 12.93                  | 0.999        | 3009.8       | 17.55                      | 50.05                        | 85.15                     | 100.00                    | 161.88                         | 562.96                        | 41.29                          | 565.25                        | 381.75                               | 385.05                               |
| 26-Oct-15 | 12:40:50 | 281.0             | 12.47                  | 0.999        | 3007.1       | 17.55                      | 50.06                        | 85.00                     | 100.00                    | 161.87                         | 562.98                        | 41.29                          | 565.25                        | 381.76                               | 385.06                               |
| 26-Oct-15 | 12:40:55 | 280.8             | 12.00                  | 0.999        | 3007.1       | 17.54                      | 50.07                        | 84.85                     | 100.00                    | 161.86                         | 563.00                        | 41.29                          | 565.26                        | 381.77                               | 385.06                               |
| 26-Oct-15 | 12:41:00 | 280.9             | 11.54                  | 0.999        | 3007.1       | 17.54                      | 50.08                        | 84.71                     | 100.00                    | 161.86                         | 563.01                        | 41.29                          | 565.27                        | 381.77                               | 385.06                               |
| 26-Oct-15 | 12:41:05 | 281.0             | 11.08                  | 0.999        | 3011.1       | 17.54                      | 50.10                        | 84.56                     | 100.00                    | 161.85                         | 563.03                        | 41.29                          | 565.28                        | 381.78                               | 385.03                               |
| 26-Oct-15 | 12:41:10 | 281.1             | 10.77                  | 0.999        | 3007.2       | 17.54                      | 50.08                        | 84.42                     | 100.00                    | 161.85                         | 563.04                        | 41.29                          | 565.29                        | 381.76                               | 385.06                               |
| 26-Oct-15 | 12:41:15 | 281.4             | 10.47                  | 0.999        | 3003.8       | 17.53                      | 50.05                        | 84.14                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.30                        | 381.78                               | 385.07                               |
| 26-Oct-15 | 12:41:20 | 281.4             | 10.16                  | 0.999        | 2999.5       | 17.53                      | 50.00                        | 83.42                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.31                        | 381.75                               | 385.08                               |
| 26-Oct-15 | 12:41:25 | 281.2             | 9.86                   | 0.999        | 2999.8       | 17.52                      | 49.94                        | 84.38                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.32                        | 381.75                               | 385.10                               |
| 26-Oct-15 | 12:41:30 | 280.4             | 9.55                   | 0.999        | 3000.7       | 17.52                      | 49.97                        | 85.37                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.33                        | 381.78                               | 385.08                               |
| 26-Oct-15 | 12:41:35 | 280.5             | 9.25                   | 0.999        | 3007.8       | 17.51                      | 49.99                        | 85.18                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.34                        | 381.78                               | 385.08                               |
| 26-Oct-15 | 12:41:40 | 280.7             | 10.14                  | 0.999        | 3007.4       | 17.51                      | 49.94                        | 84.87                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.35                        | 381.78                               | 385.10                               |
| 26-Oct-15 | 12:41:45 | 280.5             | 10.31                  | 0.999        | 3010.8       | 17.50                      | 50.07                        | 84.87                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.36                        | 381.78                               | 385.10                               |
| 26-Oct-15 | 12:41:50 | 280.5             | 9.24                   | 0.999        | 3013.8       | 17.50                      | 50.10                        | 84.96                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.38                        | 381.79                               | 385.11                               |
| 26-Oct-15 | 12:41:55 | 280.7             | 9.07                   | 0.999        | 3011.8       | 17.49                      | 50.15                        | 84.59                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.39                        | 381.80                               | 385.13                               |
| 26-Oct-15 | 12:42:00 | 280.9             | 9.07                   | 0.999        | 3012.8       | 17.49                      | 50.15                        | 84.64                     | 100.00                    | 161.85                         | 563.05                        | 41.29                          | 565.40                        | 381.81                               | 385.13                               |
| 26-Oct-15 | 12:42:05 | 280.6             | 9.07                   | 0.999        | 3015.0       | 17.48                      | 50.15                        | 85.34                     | 100.00                    | 161.85                         | 563.03                        | 41.28                          | 565.40                        | 381.80                               | 385.14                               |
| 26-Oct-15 | 12:42:10 | 280.6             | 9.07                   | 0.999        | 3012.0       | 17.48                      | 50.15                        | 84.71                     | 100.00                    | 161.86                         | 563.00                        | 41.28                          | 565.41                        | 381.81                               | 385.15                               |
| 26-Oct-15 | 12:42:15 | 281.0             | 9.07                   | 0.999        | 3012.2       | 17.48                      | 50.15                        | 84.51                     | 100.00                    | 161.87                         | 562.98                        | 41.28                          | 565.41                        | 381.83                               | 385.15                               |
| 26-Oct-15 | 12:42:20 | 280.8             | 9.07                   | 0.999        | 3013.5       | 17.48                      | 50.15                        | 84.82                     | 100.00                    | 161.87                         | 562.97                        | 41.27                          | 565.42                        | 381.84                               | 385.16                               |
| 26-Oct-15 | 12:42:25 | 280.6             | 9.05                   | 0.999        | 3014.7       | 17.48                      | 50.15                        | 85.12                     | 100.00                    | 161.88                         | 562.97                        | 41.27                          | 565.43                        | 381.84                               | 385.16                               |
| 26-Oct-15 | 12:42:30 | 280.7             | 8.96                   | 0.999        | 3015.6       | 17.48                      | 50.19                        | 85.12                     | 100.00                    | 161.89                         | 562.97                        | 41.27                          | 565.43                        | 381.85                               | 385.17                               |
| 26-Oct-15 | 12:42:35 | 281.3             | 8.87                   | 1.000        | 3016.3       | 17.48                      | 50.20                        | 84.35                     | 100.00                    | 161.89                         | 562.96                        | 41.27                          | 565.44                        | 381.82                               | 385.18                               |
| 26-Oct-15 | 12:42:40 | 280.9             | 8.78                   | 1.000        | 3017.0       | 17.48                      | 50.21                        | 84.73                     | 100.00                    | 161.90                         | 562.96                        | 41.27                          | 565.44                        | 381.86                               | 385.15                               |
| 26-Oct-15 | 12:42:45 | 280.7             | 8.69                   | 1.000        | 3017.7       | 17.48                      | 50.22                        | 85.12                     | 100.00                    | 161.91                         | 562.96                        | 41.27                          | 565.45                        | 381.87                               | 385.17                               |
| 26-Oct-15 | 12:42:50 | 281.0             | 8.61                   | 1.000        | 3018.4       | 17.48                      | 50.23                        | 84.89                     | 100.00                    | 161.92                         | 562.96                        | 41.27                          | 565.46                        | 381.87                               | 385.15                               |
| 26-Oct-15 | 12:42:55 | 281.0             | 8.87                   | 1.000        | 3019.5       | 17.48                      | 50.24                        | 84.38                     | 100.00                    | 161.92                         | 562.95                        | 41.27                          | 565.46                        | 381.88                               | 385.17                               |
| 26-Oct-15 | 12:43:00 | 280.5             | 9.33                   | 0.999        | 3019.5       | 17.48                      | 50.24                        | 84.83                     | 100.00                    | 161.93                         | 562.95                        | 41.27                          | 565.47                        | 381.88                               | 385.15                               |
| 26-Oct-15 | 12:43:05 | 280.9             | 10.29                  | 0.999        | 3020.7       | 17.48                      | 50.24                        | 84.34                     | 100.00                    | 161.93                         | 562.95                        | 41.27                          | 565.47                        | 381.89                               | 385.14                               |
| 26-Oct-15 | 12:43:10 | 280.9             | 10.25                  | 0.999        | 3019.2       | 17.48                      | 50.22                        | 84.92                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.90                               | 385.17                               |
| 26-Oct-15 | 12:43:15 | 281.8             | 10.71                  | 0.999        | 3012.8       | 17.48                      | 50.20                        | 84.03                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.90                               | 385.14                               |
| 26-Oct-15 | 12:43:20 | 281.2             | 10.79                  | 0.999        | 3013.8       | 17.48                      | 50.21                        | 84.37                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.90                               | 385.16                               |
| 26-Oct-15 | 12:43:25 | 280.2             | 10.79                  | 0.999        | 3019.2       | 17.48                      | 50.23                        | 85.52                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.90                               | 385.18                               |
| 26-Oct-15 | 12:43:30 | 282.2             | 10.79                  | 0.999        | 3013.5       | 17.48                      | 50.24                        | 84.14                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.92                               | 385.18                               |
| 26-Oct-15 | 12:43:35 | 281.3             | 10.79                  | 0.999        | 3011.3       | 17.48                      | 50.20                        | 84.09                     | 100.00                    | 161.93                         | 562.94                        | 41.28                          | 565.47                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:43:40 | 281.2             | 10.79                  | 0.999        | 3015.0       | 17.48                      | 50.21                        | 84.95                     | 100.00                    | 161.95                         | 562.95                        | 41.28                          | 565.47                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:43:45 | 281.2             | 10.79                  | 0.999        | 3015.0       | 17.48                      | 50.22                        | 84.22                     | 100.00                    | 162.08                         | 563.01                        | 41.29                          | 565.56                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:43:50 | 281.2             | 10.79                  | 0.999        | 3017.5       | 17.48                      | 50.23                        | 84.01                     | 100.00                    | 162.13                         | 563.08                        | 41.29                          | 565.67                        | 381.95                               | 385.18                               |
| 26-Oct-15 | 12:43:55 | 281.4             | 10.79                  | 0.999        | 3019.2       | 17.48                      | 50.24                        | 83.66                     | 100.00                    | 162.14                         | 563.14                        | 41.30                          | 565.77                        | 381.95                               | 385.18                               |
| 26-Oct-15 | 12:44:00 | 281.6             | 10.79                  | 0.999        | 3014.9       | 17.48                      | 50.24                        | 83.31                     | 100.00                    | 162.14                         | 563.21                        | 41.31</                        |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:48:10 | 280.9             | 8.17                   | 1.000        | 3011.7       | 17.49                      | 50.16                        | 83.43                     | 100.00                    | 161.96                         | 562.56                        | 41.28                          | 565.45                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:48:15 | 280.7             | 8.41                   | 1.000        | 3013.0       | 17.49                      | 50.16                        | 83.78                     | 100.00                    | 161.96                         | 562.52                        | 41.28                          | 565.45                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:48:20 | 280.8             | 8.65                   | 1.000        | 3014.2       | 17.49                      | 50.17                        | 84.06                     | 100.00                    | 161.96                         | 562.50                        | 41.28                          | 565.45                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:48:25 | 280.6             | 8.90                   | 0.999        | 3015.7       | 17.49                      | 50.17                        | 84.35                     | 100.00                    | 161.96                         | 562.50                        | 41.28                          | 565.45                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:48:30 | 280.5             | 9.14                   | 0.999        | 3022.5       | 17.49                      | 50.20                        | 84.30                     | 100.00                    | 161.96                         | 562.50                        | 41.28                          | 565.45                        | 381.94                               | 385.18                               |
| 26-Oct-15 | 12:48:35 | 281.1             | 9.38                   | 0.999        | 3015.2       | 17.49                      | 50.22                        | 83.40                     | 100.00                    | 161.96                         | 562.50                        | 41.28                          | 565.45                        | 381.95                               | 385.19                               |
| 26-Oct-15 | 12:48:40 | 281.1             | 8.77                   | 1.000        | 3015.0       | 17.49                      | 50.20                        | 83.05                     | 100.00                    | 161.96                         | 562.52                        | 41.28                          | 565.45                        | 381.96                               | 385.20                               |
| 26-Oct-15 | 12:48:45 | 281.0             | 7.63                   | 1.000        | 3015.0       | 17.49                      | 50.18                        | 83.53                     | 100.00                    | 161.98                         | 562.61                        | 41.27                          | 565.58                        | 381.97                               | 385.21                               |
| 26-Oct-15 | 12:48:50 | 281.0             | 7.63                   | 1.000        | 3015.1       | 17.49                      | 50.18                        | 84.03                     | 100.00                    | 161.99                         | 562.69                        | 41.27                          | 565.71                        | 381.98                               | 385.21                               |
| 26-Oct-15 | 12:48:55 | 280.6             | 7.63                   | 1.000        | 3015.0       | 17.49                      | 50.18                        | 84.31                     | 100.00                    | 162.01                         | 562.78                        | 41.27                          | 565.85                        | 381.99                               | 385.20                               |
| 26-Oct-15 | 12:49:00 | 281.3             | 7.63                   | 1.000        | 3015.2       | 17.49                      | 50.18                        | 83.21                     | 100.00                    | 162.03                         | 562.87                        | 41.28                          | 565.98                        | 382.00                               | 385.18                               |
| 26-Oct-15 | 12:49:05 | 282.0             | 8.83                   | 1.000        | 3009.4       | 17.46                      | 50.16                        | 81.88                     | 100.00                    | 162.05                         | 562.96                        | 41.29                          | 566.02                        | 382.01                               | 385.19                               |
| 26-Oct-15 | 12:49:10 | 280.9             | 8.87                   | 1.000        | 3012.2       | 17.45                      | 50.14                        | 83.42                     | 100.00                    | 162.07                         | 563.05                        | 41.29                          | 566.04                        | 382.02                               | 385.21                               |
| 26-Oct-15 | 12:49:15 | 280.7             | 8.00                   | 1.000        | 3014.0       | 17.45                      | 50.17                        | 83.88                     | 100.00                    | 162.10                         | 563.14                        | 41.30                          | 566.05                        | 382.03                               | 385.20                               |
| 26-Oct-15 | 12:49:20 | 281.2             | 7.72                   | 1.000        | 3012.5       | 17.46                      | 50.17                        | 82.99                     | 100.00                    | 162.12                         | 563.18                        | 41.31                          | 566.06                        | 382.04                               | 385.20                               |
| 26-Oct-15 | 12:49:25 | 280.8             | 7.77                   | 1.000        | 3014.4       | 17.46                      | 50.15                        | 83.98                     | 100.00                    | 162.15                         | 563.18                        | 41.31                          | 566.07                        | 382.05                               | 385.22                               |
| 26-Oct-15 | 12:49:30 | 281.2             | 7.82                   | 1.000        | 3011.6       | 17.46                      | 50.14                        | 83.48                     | 100.00                    | 162.17                         | 563.18                        | 41.32                          | 566.09                        | 382.07                               | 385.22                               |
| 26-Oct-15 | 12:49:35 | 282.2             | 7.87                   | 1.000        | 3007.1       | 17.46                      | 50.12                        | 81.77                     | 100.00                    | 162.19                         | 563.18                        | 41.33                          | 566.10                        | 382.08                               | 385.22                               |
| 26-Oct-15 | 12:49:40 | 281.8             | 7.91                   | 1.000        | 3002.5       | 17.47                      | 50.07                        | 83.13                     | 100.00                    | 162.22                         | 563.18                        | 41.34                          | 566.11                        | 382.07                               | 385.22                               |
| 26-Oct-15 | 12:49:45 | 281.6             | 7.96                   | 1.000        | 2999.5       | 17.47                      | 50.00                        | 83.64                     | 100.00                    | 162.24                         | 563.17                        | 41.35                          | 566.13                        | 382.10                               | 385.22                               |
| 26-Oct-15 | 12:49:50 | 281.1             | 8.01                   | 1.000        | 3004.3       | 17.47                      | 49.99                        | 84.16                     | 100.00                    | 162.24                         | 563.17                        | 41.35                          | 566.14                        | 382.11                               | 385.22                               |
| 26-Oct-15 | 12:49:55 | 281.3             | 8.05                   | 1.000        | 3007.0       | 17.48                      | 50.02                        | 83.65                     | 100.00                    | 162.24                         | 563.17                        | 41.36                          | 566.15                        | 382.13                               | 385.22                               |
| 26-Oct-15 | 12:50:00 | 281.9             | 8.10                   | 1.000        | 3003.1       | 17.48                      | 50.01                        | 82.78                     | 100.00                    | 162.24                         | 563.17                        | 41.37                          | 566.16                        | 382.13                               | 385.22                               |
| 26-Oct-15 | 12:50:05 | 281.7             | 8.15                   | 1.000        | 3002.3       | 17.48                      | 50.00                        | 82.78                     | 100.00                    | 162.24                         | 563.17                        | 41.37                          | 566.17                        | 382.13                               | 385.22                               |
| 26-Oct-15 | 12:50:10 | 281.6             | 8.20                   | 1.000        | 3001.4       | 17.48                      | 50.00                        | 82.78                     | 100.00                    | 162.24                         | 563.17                        | 41.37                          | 566.17                        | 382.14                               | 385.22                               |
| 26-Oct-15 | 12:50:15 | 281.5             | 8.24                   | 1.000        | 3000.5       | 17.48                      | 49.99                        | 82.78                     | 100.00                    | 162.24                         | 563.17                        | 41.37                          | 566.17                        | 382.16                               | 385.22                               |
| 26-Oct-15 | 12:50:20 | 281.4             | 8.26                   | 1.000        | 2999.7       | 17.48                      | 49.98                        | 82.78                     | 100.00                    | 162.24                         | 563.17                        | 41.37                          | 566.17                        | 382.17                               | 385.22                               |
| 26-Oct-15 | 12:50:25 | 281.3             | 8.26                   | 1.000        | 2999.5       | 17.48                      | 49.97                        | 82.78                     | 100.00                    | 162.25                         | 563.15                        | 41.37                          | 566.14                        | 382.18                               | 385.22                               |
| 26-Oct-15 | 12:50:30 | 281.2             | 8.26                   | 1.000        | 3001.5       | 17.48                      | 49.98                        | 82.99                     | 100.00                    | 162.26                         | 563.13                        | 41.37                          | 566.10                        | 382.18                               | 385.22                               |
| 26-Oct-15 | 12:50:35 | 281.6             | 8.26                   | 1.000        | 2999.5       | 17.48                      | 50.00                        | 83.33                     | 100.00                    | 162.27                         | 563.10                        | 41.37                          | 566.07                        | 382.19                               | 385.22                               |
| 26-Oct-15 | 12:50:40 | 281.1             | 8.26                   | 1.000        | 3004.4       | 17.48                      | 50.01                        | 83.67                     | 100.00                    | 162.28                         | 563.08                        | 41.37                          | 566.04                        | 382.20                               | 385.22                               |
| 26-Oct-15 | 12:50:45 | 281.3             | 8.26                   | 1.000        | 3006.5       | 17.48                      | 50.02                        | 83.50                     | 100.00                    | 162.29                         | 563.06                        | 41.37                          | 566.00                        | 382.19                               | 385.22                               |
| 26-Oct-15 | 12:50:50 | 281.4             | 8.27                   | 1.000        | 3004.6       | 17.48                      | 50.03                        | 82.90                     | 100.00                    | 162.28                         | 563.04                        | 41.37                          | 565.97                        | 382.17                               | 385.22                               |
| 26-Oct-15 | 12:50:55 | 281.2             | 8.27                   | 1.000        | 3006.3       | 17.48                      | 50.04                        | 83.50                     | 100.00                    | 162.27                         | 563.02                        | 41.37                          | 565.93                        | 382.17                               | 385.22                               |
| 26-Oct-15 | 12:51:00 | 281.4             | 8.28                   | 1.000        | 3009.0       | 17.48                      | 50.05                        | 83.52                     | 100.00                    | 162.27                         | 563.00                        | 41.37                          | 565.90                        | 382.22                               | 385.22                               |
| 26-Oct-15 | 12:51:05 | 281.6             | 8.28                   | 1.000        | 3007.6       | 17.48                      | 50.06                        | 83.09                     | 100.00                    | 162.26                         | 562.97                        | 41.37                          | 565.88                        | 382.23                               | 385.22                               |
| 26-Oct-15 | 12:51:10 | 281.3             | 8.29                   | 1.000        | 3013.0       | 17.48                      | 50.07                        | 83.30                     | 100.00                    | 162.25                         | 562.95                        | 41.37                          | 565.88                        | 382.24                               | 385.22                               |
| 26-Oct-15 | 12:51:15 | 282.6             | 8.29                   | 1.000        | 3002.9       | 17.48                      | 50.04                        | 82.13                     | 100.00                    | 162.25                         | 562.93                        | 41.37                          | 565.88                        | 382.25                               | 385.22                               |
| 26-Oct-15 | 12:51:20 | 282.2             | 8.40                   | 1.000        | 2995.3       | 17.48                      | 49.94                        | 81.98                     | 100.00                    | 162.24                         | 562.92                        | 41.36                          | 565.88                        | 382.26                               | 385.22                               |
| 26-Oct-15 | 12:51:25 | 281.8             | 8.64                   | 1.000        | 2998.7       | 17.48                      | 49.97                        | 83.28                     | 100.00                    | 162.24                         | 562.92                        | 41.36                          | 565.88                        | 382.27                               | 385.22                               |
| 26-Oct-15 | 12:51:30 | 280.8             | 8.88                   | 1.000        | 3003.6       | 17.48                      | 49.97                        | 83.37                     | 100.00                    | 162.23                         | 562.92                        | 41.36                          | 565.88                        | 382.28                               | 385.22                               |
| 26-Oct-15 | 12:51:35 | 281.3             | 9.11                   | 0.999        | 3003.2       | 17.48                      | 50.02                        | 83.00                     | 100.00                    | 162.22                         | 562.92                        | 41.36                          | 565.88                        | 382.24                               | 385.22                               |
| 26-Oct-15 | 12:51:40 | 281.3             | 9.35                   | 0.999        | 3006.2       | 17.48                      | 50.01                        | 83.26                     | 100.00                    | 162.22                         | 562.92                        | 41.36                          | 565.88                        | 382.28                               | 385.22                               |
| 26-Oct-15 | 12:51:45 | 281.5             | 9.59                   | 0.999        | 3006.8       | 17.48                      | 50.00                        | 83.47                     | 100.00                    | 162.21                         | 562.92                        | 41.36                          | 565.88                        | 382.28                               | 385.22                               |
| 26-Oct-15 | 12:51:50 | 281.8             | 9.82                   | 0.999        | 3001.7       | 17.48                      | 49.99                        | 83.12                     | 100.00                    | 162.21                         | 562.92                        | 41.36                          | 565.88                        | 382.28                               | 385.22                               |
| 26-Oct-15 | 12:51:55 | 281.7             | 10.06                  | 0.999        | 3000.0       | 17.48                      | 49.98                        | 83.57                     | 100.00                    | 162.21                         | 562.92                        | 41.36                          | 565.88                        | 382.29                               | 385.22                               |
| 26-Oct-15 | 12:52:00 | 281.8             | 9.85                   | 0.999        | 3000.3       | 17.48                      | 49.97                        | 83.29                     | 100.00                    | 162.22                         | 562.90                        | 41.36                          | 565.88                        | 382.30                               | 385.22                               |
| 26-Oct-15 | 12:52:05 | 280.6             | 8.33                   | 1.000        | 3003.2       | 17.48                      | 49.97                        | 83.88                     | 100.00                    | 162.23                         | 562.78                        | 41.36                          | 565.51                        | 382.30                               | 385.22                               |
| 26-Oct-15 | 12:52:10 | 281.5             | 8.33                   | 1.000        | 3003.0       | 17.48                      | 49.97                        | 83.63                     | 100.00                    | 162.24                         | 562.66                        | 41.36                          | 565.49                        | 382.31                               | 385.22                               |
| 26-Oct-15 | 12:52:15 | 281.6             | 8.33                   | 1.000        | 3002.8       | 17.48                      | 49.97                        | 83.07                     | 100.00                    | 162.25                         | 562.54                        | 41.36                          | 565.47                        | 382.32                               | 385.22                               |
| 26-Oct-15 | 12:52:20 | 281.8             | 8.33                   | 1.000        | 2999.1       | 17.48                      | 49.97                        | 82.87                     | 100.00                    | 162.26                         | 562.45                        | 41.35                          | 565.44                        | 382.32                               | 385.22                               |
| 26-Oct-15 | 12:52:25 | 281.8             | 8.35                   | 1.000        | 2999.2       | 17.48                      | 49.94                        | 83.15                     | 100.00                    | 162.27                         | 562.42                        | 41.35                          | 565.42                        | 382.32                               | 385.22                               |
| 26-Oct-15 | 12:52:30 | 281.4             | 8.45                   | 1.000        | 2999.3       | 17.48                      | 49.92                        | 83.44                     | 100.00                    | 162.28                         | 562.39                        | 41.35                          | 565.40                        | 382.33                               | 385.22                               |
| 26-Oct-15 | 12:52:35 | 281.2             | 8.55                   | 1.000        | 3001.0       | 17.48                      | 49.91                        | 83.62                     | 100.00                    | 162.29                         | 562.35                        | 41.35                          | 565.38                        | 382.33                               | 385.22                               |
| 26-Oct-15 | 12:52:40 | 281.3             | 8.65                   | 1.000        | 3001.0       | 17.48                      | 49.91                        | 83.23                     | 100.00                    | 162.30                         | 562.32                        | 41.34                          | 565.35                        | 382.34                               | 385.22                               |
| 26-Oct-15 | 12:52:45 | 281.4             | 8.74                   | 1.000        | 3000.1       | 17.48                      | 49.91                        | 83.51                     | 100.00                    | 162.31                         | 562.29                        | 41.34                          | 565.33                        | 382.34                               | 385.22                               |
| 26-Oct-15 | 12:52:50 | 281.2             | 8.84                   | 1.000        | 2999.8       | 17.48                      | 49.90                        | 83.54                     | 100.00                    | 162.31                         | 562.25                        | 41.34                          | 565.31                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:52:55 | 281.2             | 8.84                   | 0.999        | 2999.2       | 17.48                      | 49.90                        | 83.55                     | 100.00                    | 162.31                         | 562.25                        | 41.34                          | 565.31                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:53:00 | 281.2             | 9.04                   | 0.999        | 2995.8       | 17.48                      | 49.90                        | 82.95                     | 100.00                    | 162.31                         | 562.19                        | 41.34                          | 565.26                        | 382.34                               | 385.22                               |
| 26-Oct-15 | 12:53:05 | 281.2             | 9.14                   | 0.999        | 2997.1       | 17.48                      | 49.90                        | 83.33                     | 100.00                    | 162.31                         | 562.15                        | 41.34                          | 565.25                        | 382.34                               | 385.22                               |
| 26-Oct-15 | 12:53:10 | 280.6             | 9.17                   | 0.999        | 2999.4       | 17.48                      | 49.89                        | 84.64                     | 100.00                    | 162.31                         | 562.12                        | 41.34                          | 565.25                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:53:15 | 281.3             | 9.17                   | 0.999        | 3001.4       | 17.48                      | 49.89                        | 84.25                     | 100.00                    | 162.31                         | 562.09                        | 41.34                          | 565.25                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:53:20 | 281.5             | 9.17                   | 0.999        | 2996.5       | 17.48                      | 49.89                        | 83.98                     | 100.00                    | 162.31                         | 562.07                        | 41.34                          | 565.25                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:53:25 | 281.5             | 9.17                   | 0.999        | 2999.4       | 17.48                      | 49.88                        | 84.35                     | 100.00                    | 162.31                         | 562.07                        | 41.34                          | 565.25                        | 382.35                               | 385.22                               |
| 26-Oct-15 | 12:53:30 | 281.1             | 9.17                   | 0.999        | 3002.4       | 17.48                      | 49.90                        | 84.73                     | 100.00                    | 162.31                         | 562.07                        | 41.34                          | 565.25                        | 382.40                               | 385.22                               |
| 26-Oct-15 | 12:53:35 | 281.3             | 9.17                   | 0.999        | 2999.8       | 17.48                      | 49.93                        | 84.52                     | 100.00                    | 162.31                         | 562.07                        | 41.34                          | 565.25                        | 382.40                               | 385.22                               |
| 26-Oct-15 | 12:53:40 | 281.1             | 9.17                   | 0.999        | 2998.6       | 17.48                      | 49.92                        | 84.08                     | 100.00                    | 162.30                         | 562.06                        | 41.34                          | 565.25                        | 382.41                               | 385.22                               |
| 26-Oct-15 | 12:53:45 | 280.9             | 9.17                   | 0.999        | 2999.3       | 17.48                      | 49.90                        | 84.73                     | 100.00                    | 162.29                         | 561.99                        | 41.33                          | 565.17                        | 382.42                               | 385.22                               |
| 26-Oct-15 | 12:53:50 | 281.7             | 9.17                   | 0.999        | 2995.1       | 17.48                      | 49.89                        | 83.83                     | 100.00                    | 162.28                         | 561.93                        | 41.32                          | 565.09                        | 382.42                               | 385.22                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------------------------------|
| 26-Oct-15 | 12:58:00 | 280.7             | 8.60                   | 1.000        | 3002.2       | 17.48                      | 50.01                        | 85.53                     | 100.00                    | 161.63                         | 561.78                        | 41.27                          | 565.47                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:05 | 280.5             | 8.61                   | 1.000        | 3001.1       | 17.48                      | 50.02                        | 85.75                     | 100.00                    | 161.62                         | 561.82                        | 41.27                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:10 | 280.1             | 8.61                   | 1.000        | 3005.7       | 17.48                      | 50.02                        | 86.06                     | 100.00                    | 161.61                         | 561.86                        | 41.26                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:15 | 280.2             | 8.61                   | 1.000        | 3007.2       | 17.48                      | 50.03                        | 85.81                     | 100.00                    | 161.61                         | 561.90                        | 41.26                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:20 | 280.6             | 8.61                   | 1.000        | 3010.9       | 17.48                      | 50.03                        | 85.43                     | 100.00                    | 161.61                         | 561.92                        | 41.25                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:25 | 280.6             | 8.61                   | 1.000        | 3003.2       | 17.48                      | 50.03                        | 85.08                     | 100.00                    | 161.61                         | 561.92                        | 41.25                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:30 | 280.4             | 8.61                   | 1.000        | 3006.0       | 17.48                      | 50.03                        | 85.72                     | 100.00                    | 161.61                         | 561.92                        | 41.25                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:35 | 280.7             | 8.61                   | 1.000        | 3006.0       | 17.48                      | 50.03                        | 85.70                     | 100.00                    | 161.61                         | 561.92                        | 41.25                          | 565.49                        | 382.55                             | 385.25                               |
| 26-Oct-15 | 12:58:40 | 281.1             | 8.61                   | 1.000        | 3005.0       | 17.48                      | 50.03                        | 85.36                     | 100.00                    | 161.61                         | 561.93                        | 41.25                          | 565.49                        | 382.57                             | 385.27                               |
| 26-Oct-15 | 12:58:45 | 280.2             | 8.61                   | 1.000        | 3008.3       | 17.48                      | 50.03                        | 86.14                     | 100.00                    | 161.63                         | 561.99                        | 41.24                          | 565.53                        | 382.58                             | 385.28                               |
| 26-Oct-15 | 12:58:50 | 280.4             | 8.61                   | 1.000        | 3007.8       | 17.48                      | 50.03                        | 85.31                     | 100.00                    | 161.65                         | 562.05                        | 41.24                          | 565.58                        | 382.58                             | 385.29                               |
| 26-Oct-15 | 12:58:55 | 281.0             | 8.61                   | 1.000        | 3003.3       | 17.48                      | 50.03                        | 84.65                     | 100.00                    | 161.67                         | 562.10                        | 41.23                          | 565.62                        | 382.59                             | 385.29                               |
| 26-Oct-15 | 12:59:00 | 281.1             | 8.61                   | 1.000        | 3003.4       | 17.48                      | 50.03                        | 84.78                     | 100.00                    | 161.69                         | 562.16                        | 41.23                          | 565.66                        | 382.60                             | 385.27                               |
| 26-Oct-15 | 12:59:05 | 281.2             | 8.45                   | 1.000        | 3002.1       | 17.48                      | 50.02                        | 84.40                     | 100.00                    | 161.71                         | 562.22                        | 41.22                          | 565.70                        | 382.60                             | 385.26                               |
| 26-Oct-15 | 12:59:10 | 281.3             | 7.94                   | 1.000        | 2999.7       | 17.48                      | 50.00                        | 84.03                     | 100.00                    | 161.72                         | 562.28                        | 41.22                          | 565.74                        | 382.61                             | 385.28                               |
| 26-Oct-15 | 12:59:15 | 280.5             | 7.85                   | 1.000        | 3004.4       | 17.48                      | 49.99                        | 85.14                     | 100.00                    | 161.72                         | 562.33                        | 41.21                          | 565.78                        | 382.61                             | 385.26                               |
| 26-Oct-15 | 12:59:20 | 280.3             | 7.77                   | 1.000        | 3004.7       | 17.48                      | 50.01                        | 85.56                     | 100.00                    | 161.72                         | 562.37                        | 41.21                          | 565.81                        | 382.62                             | 385.30                               |
| 26-Oct-15 | 12:59:25 | 280.1             | 7.68                   | 1.000        | 3007.4       | 17.48                      | 50.02                        | 85.99                     | 100.00                    | 161.71                         | 562.37                        | 41.20                          | 565.85                        | 382.62                             | 385.30                               |
| 26-Oct-15 | 12:59:30 | 279.9             | 7.59                   | 1.000        | 3013.7       | 17.48                      | 50.08                        | 86.17                     | 100.00                    | 161.71                         | 562.37                        | 41.20                          | 565.89                        | 382.62                             | 385.31                               |
| 26-Oct-15 | 12:59:35 | 280.8             | 7.50                   | 1.000        | 3007.5       | 17.48                      | 50.09                        | 85.06                     | 100.00                    | 161.71                         | 562.37                        | 41.20                          | 565.93                        | 382.62                             | 385.32                               |
| 26-Oct-15 | 12:59:40 | 280.7             | 7.41                   | 1.000        | 3008.0       | 17.48                      | 50.09                        | 84.91                     | 100.00                    | 161.71                         | 562.37                        | 41.20                          | 565.97                        | 382.62                             | 385.32                               |
| 26-Oct-15 | 12:59:45 | 280.5             | 7.33                   | 1.000        | 3007.0       | 17.48                      | 50.09                        | 84.76                     | 100.00                    | 161.70                         | 562.37                        | 41.20                          | 566.00                        | 382.62                             | 385.33                               |
| 26-Oct-15 | 12:59:50 | 280.5             | 7.24                   | 1.000        | 3008.7       | 17.48                      | 50.10                        | 84.61                     | 100.00                    | 161.70                         | 562.37                        | 41.20                          | 566.04                        | 382.62                             | 385.30                               |
| 26-Oct-15 | 12:59:55 | 280.7             | 7.15                   | 1.000        | 3007.0       | 17.48                      | 50.10                        | 84.46                     | 100.00                    | 161.70                         | 562.37                        | 41.20                          | 566.08                        | 382.62                             | 385.32                               |
| 26-Oct-15 | 13:00:00 | 280.6             | 7.06                   | 1.000        | 3007.3       | 17.48                      | 50.11                        | 84.31                     | 100.00                    | 161.69                         | 562.37                        | 41.20                          | 566.12                        | 382.62                             | 385.33                               |
| 26-Oct-15 | 13:00:05 | 280.7             | 6.98                   | 1.000        | 3006.7       | 17.48                      | 50.11                        | 84.16                     | 100.00                    | 161.69                         | 562.37                        | 41.20                          | 566.15                        | 382.62                             | 385.33                               |
| 26-Oct-15 | 13:00:10 | 281.0             | 7.27                   | 1.000        | 3004.1       | 17.48                      | 50.11                        | 84.03                     | 100.00                    | 161.69                         | 562.37                        | 41.20                          | 566.16                        | 382.64                             | 385.37                               |
| 26-Oct-15 | 13:00:15 | 280.7             | 7.64                   | 1.000        | 3003.3       | 17.48                      | 50.12                        | 84.87                     | 100.00                    | 161.69                         | 562.37                        | 41.20                          | 566.16                        | 382.65                             | 385.38                               |
| 26-Oct-15 | 13:00:20 | 280.5             | 8.01                   | 1.000        | 3007.3       | 17.48                      | 50.12                        | 85.29                     | 100.00                    | 161.69                         | 562.61                        | 41.20                          | 566.16                        | 382.66                             | 385.38                               |
| 26-Oct-15 | 13:00:25 | 280.3             | 8.38                   | 1.000        | 3011.1       | 17.48                      | 50.12                        | 85.60                     | 100.00                    | 161.70                         | 562.68                        | 41.22                          | 566.20                        | 382.67                             | 385.39                               |
| 26-Oct-15 | 13:00:30 | 280.7             | 8.75                   | 1.000        | 3013.3       | 17.48                      | 50.13                        | 84.79                     | 100.00                    | 161.71                         | 562.70                        | 41.23                          | 566.24                        | 382.68                             | 385.39                               |
| 26-Oct-15 | 13:00:35 | 281.2             | 9.01                   | 0.999        | 3010.1       | 17.48                      | 50.07                        | 83.58                     | 100.00                    | 161.73                         | 562.72                        | 41.24                          | 566.28                        | 382.68                             | 385.40                               |
| 26-Oct-15 | 13:00:40 | 280.8             | 7.13                   | 1.000        | 3003.4       | 17.48                      | 50.07                        | 84.64                     | 100.00                    | 161.74                         | 562.75                        | 41.24                          | 566.32                        | 382.69                             | 385.39                               |
| 26-Oct-15 | 13:00:45 | 280.7             | 7.28                   | 1.000        | 3004.7       | 17.48                      | 50.05                        | 84.42                     | 100.00                    | 161.75                         | 562.77                        | 41.24                          | 566.36                        | 382.70                             | 385.39                               |
| 26-Oct-15 | 13:00:50 | 280.5             | 7.89                   | 1.000        | 3005.9       | 17.49                      | 50.03                        | 84.77                     | 100.00                    | 161.76                         | 562.79                        | 41.25                          | 566.40                        | 382.70                             | 385.41                               |
| 26-Oct-15 | 13:00:55 | 280.0             | 8.49                   | 1.000        | 3007.1       | 17.50                      | 50.06                        | 85.26                     | 100.00                    | 161.78                         | 562.81                        | 41.25                          | 566.44                        | 382.71                             | 385.41                               |
| 26-Oct-15 | 13:01:00 | 279.9             | 9.09                   | 0.999        | 3011.4       | 17.50                      | 50.10                        | 85.74                     | 100.00                    | 161.79                         | 562.84                        | 41.25                          | 566.48                        | 382.71                             | 385.41                               |
| 26-Oct-15 | 13:01:05 | 281.0             | 9.09                   | 0.999        | 3011.8       | 17.51                      | 50.11                        | 84.45                     | 100.00                    | 161.80                         | 562.86                        | 41.26                          | 566.52                        | 382.72                             | 385.41                               |
| 26-Oct-15 | 13:01:10 | 281.2             | 8.77                   | 1.000        | 3007.1       | 17.51                      | 50.09                        | 84.38                     | 100.00                    | 161.81                         | 562.88                        | 41.26                          | 566.52                        | 382.73                             | 385.41                               |
| 26-Oct-15 | 13:01:15 | 280.9             | 8.44                   | 1.000        | 3007.0       | 17.51                      | 50.07                        | 84.89                     | 100.00                    | 161.81                         | 562.90                        | 41.26                          | 566.52                        | 382.73                             | 385.41                               |
| 26-Oct-15 | 13:01:20 | 280.5             | 8.12                   | 1.000        | 3007.5       | 17.51                      | 50.05                        | 84.31                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:25 | 281.5             | 7.79                   | 1.000        | 3005.7       | 17.51                      | 50.04                        | 83.52                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:30 | 281.6             | 7.47                   | 1.000        | 2999.3       | 17.50                      | 50.01                        | 83.44                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:35 | 281.2             | 7.36                   | 1.000        | 2999.6       | 17.50                      | 49.97                        | 83.97                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:40 | 280.6             | 7.36                   | 1.000        | 3004.1       | 17.50                      | 49.99                        | 85.14                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:45 | 280.6             | 7.36                   | 1.000        | 3008.4       | 17.50                      | 50.01                        | 84.63                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.74                             | 385.41                               |
| 26-Oct-15 | 13:01:50 | 280.7             | 7.36                   | 1.000        | 3008.2       | 17.49                      | 50.04                        | 84.13                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.78                             | 385.45                               |
| 26-Oct-15 | 13:01:55 | 281.0             | 7.36                   | 1.000        | 3007.5       | 17.49                      | 50.06                        | 83.65                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.79                             | 385.46                               |
| 26-Oct-15 | 13:02:00 | 281.7             | 7.36                   | 1.000        | 3001.1       | 17.49                      | 50.02                        | 83.08                     | 100.00                    | 161.81                         | 562.93                        | 41.27                          | 566.52                        | 382.79                             | 385.46                               |
| 26-Oct-15 | 13:02:05 | 281.3             | 7.36                   | 1.000        | 2999.6       | 17.49                      | 49.96                        | 83.62                     | 100.00                    | 161.84                         | 562.97                        | 41.27                          | 566.67                        | 382.80                             | 385.47                               |
| 26-Oct-15 | 13:02:10 | 280.5             | 7.36                   | 1.000        | 3003.2       | 17.48                      | 49.99                        | 84.19                     | 100.00                    | 161.86                         | 563.00                        | 41.27                          | 566.69                        | 382.81                             | 385.48                               |
| 26-Oct-15 | 13:02:15 | 280.7             | 7.36                   | 1.000        | 3005.8       | 17.48                      | 50.01                        | 83.98                     | 100.00                    | 161.86                         | 563.04                        | 41.27                          | 566.71                        | 382.81                             | 385.48                               |
| 26-Oct-15 | 13:02:20 | 280.6             | 7.36                   | 1.000        | 3007.3       | 17.48                      | 50.01                        | 83.76                     | 100.00                    | 161.85                         | 563.07                        | 41.27                          | 566.73                        | 382.79                             | 385.49                               |
| 26-Oct-15 | 13:02:25 | 280.4             | 7.51                   | 1.000        | 3006.6       | 17.48                      | 50.04                        | 83.55                     | 100.00                    | 161.84                         | 563.09                        | 41.27                          | 566.76                        | 382.78                             | 385.49                               |
| 26-Oct-15 | 13:02:30 | 281.3             | 8.11                   | 1.000        | 3003.7       | 17.48                      | 50.04                        | 83.33                     | 100.00                    | 161.83                         | 563.11                        | 41.27                          | 566.78                        | 382.82                             | 385.50                               |
| 26-Oct-15 | 13:02:35 | 281.4             | 8.37                   | 1.000        | 3003.3       | 17.48                      | 50.02                        | 83.70                     | 100.00                    | 161.82                         | 563.12                        | 41.28                          | 566.80                        | 382.82                             | 385.50                               |
| 26-Oct-15 | 13:02:40 | 280.7             | 8.18                   | 1.000        | 3003.4       | 17.47                      | 50.04                        | 84.20                     | 100.00                    | 161.81                         | 563.14                        | 41.28                          | 566.82                        | 382.83                             | 385.51                               |
| 26-Oct-15 | 13:02:45 | 280.7             | 7.89                   | 1.000        | 3007.7       | 17.47                      | 50.05                        | 84.07                     | 100.00                    | 161.80                         | 563.15                        | 41.28                          | 566.84                        | 382.84                             | 385.49                               |
| 26-Oct-15 | 13:02:50 | 281.0             | 7.80                   | 1.000        | 3007.5       | 17.47                      | 50.06                        | 83.54                     | 100.00                    | 161.79                         | 563.17                        | 41.28                          | 566.86                        | 382.84                             | 385.52                               |
| 26-Oct-15 | 13:02:55 | 280.7             | 7.62                   | 1.000        | 3007.5       | 17.47                      | 50.05                        | 83.15                     | 100.00                    | 161.78                         | 563.19                        | 41.28                          | 566.88                        | 382.85                             | 385.52                               |
| 26-Oct-15 | 13:03:00 | 280.8             | 7.43                   | 1.000        | 3008.4       | 17.46                      | 50.03                        | 82.85                     | 100.00                    | 161.77                         | 563.20                        | 41.28                          | 566.90                        | 382.84                             | 385.52                               |
| 26-Oct-15 | 13:03:05 | 281.1             | 7.24                   | 1.000        | 3003.7       | 17.46                      | 50.02                        | 82.54                     | 100.00                    | 161.76                         | 563.22                        | 41.28                          | 566.92                        | 382.84                             | 385.52                               |
| 26-Oct-15 | 13:03:10 | 281.0             | 7.05                   | 1.000        | 3002.7       | 17.46                      | 50.02                        | 82.70                     | 100.00                    | 161.75                         | 563.23                        | 41.28                          | 566.92                        | 382.81                             | 385.52                               |
| 26-Oct-15 | 13:03:15 | 280.3             | 6.87                   | 1.000        | 3006.9       | 17.46                      | 50.04                        | 83.65                     | 100.00                    | 161.75                         | 563.25                        | 41.28                          | 566.92                        | 382.83                             | 385.52                               |
| 26-Oct-15 | 13:03:20 | 279.8             | 6.68                   | 1.000        | 3007.3       | 17.46                      | 50.06                        | 84.34                     | 100.00                    | 161.75                         | 563.27                        | 41.28                          | 566.92                        | 382.85                             | 385.52                               |
| 26-Oct-15 | 13:03:25 | 280.4             | 6.49                   | 1.000        | 3012.7       | 17.46                      | 50.10                        | 83.96                     | 100.00                    | 161.75                         | 563.27                        | 41.28                          | 566.92                        | 382.83                             | 385.52                               |
| 26-Oct-15 | 13:03:30 | 281.0             | 6.46                   | 1.000        | 3012.6       | 17.46                      | 50.09                        | 83.36                     | 100.00                    | 161.75                         | 563.27                        | 41.28                          | 566.92                        | 382.82                             | 385.51                               |
| 26-Oct-15 | 13:03:35 | 281.2             | 6.46                   | 1.000        | 3006.6       | 17.46                      | 50.07                        | 82.61                     | 100.00                    | 161.75                         | 563.27                        | 41.28                          | 566.92                        | 382.82                             | 385.50                               |
| 26-Oct-15 | 13:03:40 | 281.5             | 6.46                   | 1.000        | 3002.9       | 17.46                      | 49.99                        | 82.01                     | 100.00                    | 161.76                         | 563.26                        | 41.28                          | 566.92                        | 382.85                             | 385.49                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                    |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:07:50 | 281.5             | 8.36                   | 1.000        | 3003.7       | 17.48                      | 49.99                        | 84.20                     | 100.00                    | 162.34                         | 563.01                        | 41.41                          | 565.99                        | 383.09                               | 385.57                               |
| 26-Oct-15 | 13:07:55 | 281.7             | 8.81                   | 1.000        | 3006.8       | 17.48                      | 50.00                        | 84.12                     | 100.00                    | 162.36                         | 563.02                        | 41.42                          | 565.99                        | 383.12                               | 385.60                               |
| 26-Oct-15 | 13:08:00 | 281.8             | 8.91                   | 1.000        | 3003.1       | 17.48                      | 50.01                        | 84.12                     | 100.00                    | 162.36                         | 563.04                        | 41.42                          | 566.00                        | 383.13                               | 385.60                               |
| 26-Oct-15 | 13:08:05 | 281.7             | 7.92                   | 1.000        | 3000.5       | 17.48                      | 50.01                        | 84.40                     | 100.00                    | 162.36                         | 563.05                        | 41.43                          | 566.01                        | 383.13                               | 385.60                               |
| 26-Oct-15 | 13:08:10 | 281.3             | 7.18                   | 1.000        | 3003.3       | 17.48                      | 50.02                        | 84.67                     | 100.00                    | 162.36                         | 563.07                        | 41.43                          | 566.01                        | 383.14                               | 385.60                               |
| 26-Oct-15 | 13:08:15 | 281.4             | 7.18                   | 1.000        | 3003.6       | 17.48                      | 50.03                        | 84.32                     | 100.00                    | 162.36                         | 563.09                        | 41.43                          | 566.01                        | 383.14                               | 385.60                               |
| 26-Oct-15 | 13:08:20 | 281.4             | 7.18                   | 1.000        | 3007.4       | 17.48                      | 50.04                        | 84.13                     | 100.00                    | 162.36                         | 563.10                        | 41.43                          | 566.01                        | 383.15                               | 385.60                               |
| 26-Oct-15 | 13:08:25 | 281.1             | 7.18                   | 1.000        | 3011.0       | 17.48                      | 50.07                        | 84.35                     | 100.00                    | 162.36                         | 563.10                        | 41.43                          | 566.01                        | 383.16                               | 385.60                               |
| 26-Oct-15 | 13:08:30 | 281.8             | 7.18                   | 1.000        | 3007.3       | 17.48                      | 50.08                        | 83.86                     | 100.00                    | 162.36                         | 563.10                        | 41.43                          | 566.01                        | 383.17                               | 385.63                               |
| 26-Oct-15 | 13:08:35 | 281.7             | 7.18                   | 1.000        | 3009.3       | 17.48                      | 50.07                        | 84.10                     | 100.00                    | 162.36                         | 563.10                        | 41.43                          | 566.01                        | 383.18                               | 385.63                               |
| 26-Oct-15 | 13:08:40 | 281.9             | 7.18                   | 1.000        | 3010.0       | 17.48                      | 50.06                        | 84.26                     | 100.00                    | 162.36                         | 563.10                        | 41.43                          | 566.01                        | 383.19                               | 385.63                               |
| 26-Oct-15 | 13:08:45 | 281.9             | 7.18                   | 1.000        | 3009.9       | 17.48                      | 50.05                        | 83.72                     | 100.00                    | 162.39                         | 563.08                        | 41.44                          | 566.04                        | 383.16                               | 385.61                               |
| 26-Oct-15 | 13:08:50 | 281.9             | 7.18                   | 1.000        | 3004.1       | 17.48                      | 50.04                        | 84.02                     | 100.00                    | 162.41                         | 563.05                        | 41.45                          | 566.07                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:08:55 | 281.5             | 7.18                   | 1.000        | 3010.3       | 17.48                      | 50.06                        | 84.51                     | 100.00                    | 162.44                         | 563.03                        | 41.45                          | 566.10                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:00 | 281.2             | 7.18                   | 1.000        | 3011.6       | 17.48                      | 50.09                        | 84.65                     | 100.00                    | 162.44                         | 563.01                        | 41.46                          | 566.14                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:05 | 281.6             | 7.24                   | 1.000        | 3013.7       | 17.48                      | 50.10                        | 84.06                     | 100.00                    | 162.43                         | 562.99                        | 41.47                          | 566.17                        | 383.19                               | 385.63                               |
| 26-Oct-15 | 13:09:10 | 281.8             | 7.43                   | 1.000        | 3011.4       | 17.48                      | 50.14                        | 84.47                     | 100.00                    | 162.43                         | 562.97                        | 41.47                          | 566.16                        | 383.19                               | 385.63                               |
| 26-Oct-15 | 13:09:15 | 281.6             | 7.44                   | 1.000        | 3013.7       | 17.48                      | 50.12                        | 83.73                     | 100.00                    | 162.43                         | 562.95                        | 41.47                          | 566.12                        | 383.19                               | 385.63                               |
| 26-Oct-15 | 13:09:20 | 282.2             | 7.45                   | 1.000        | 3007.7       | 17.48                      | 50.10                        | 83.43                     | 100.00                    | 162.43                         | 562.93                        | 41.47                          | 566.09                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:25 | 281.8             | 7.45                   | 1.000        | 3007.1       | 17.48                      | 50.09                        | 84.35                     | 100.00                    | 162.43                         | 562.92                        | 41.47                          | 566.05                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:30 | 281.6             | 7.45                   | 1.000        | 3011.0       | 17.48                      | 50.08                        | 84.52                     | 100.00                    | 162.43                         | 562.92                        | 41.46                          | 566.01                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:35 | 282.0             | 7.47                   | 1.000        | 3007.8       | 17.48                      | 50.07                        | 84.19                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.97                        | 383.19                               | 385.62                               |
| 26-Oct-15 | 13:09:40 | 282.0             | 7.48                   | 1.000        | 3007.3       | 17.48                      | 50.06                        | 83.76                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.94                        | 383.19                               | 385.61                               |
| 26-Oct-15 | 13:09:45 | 281.9             | 7.49                   | 1.000        | 3007.5       | 17.48                      | 50.06                        | 83.80                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.90                        | 383.19                               | 385.61                               |
| 26-Oct-15 | 13:09:50 | 281.8             | 7.50                   | 1.000        | 3007.3       | 17.48                      | 50.05                        | 83.84                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.86                        | 383.19                               | 385.61                               |
| 26-Oct-15 | 13:09:55 | 281.8             | 7.51                   | 1.000        | 3003.1       | 17.48                      | 50.04                        | 83.28                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.83                        | 383.19                               | 385.60                               |
| 26-Oct-15 | 13:10:00 | 281.7             | 7.51                   | 1.000        | 3002.9       | 17.48                      | 50.01                        | 83.92                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.79                        | 383.19                               | 385.60                               |
| 26-Oct-15 | 13:10:05 | 281.6             | 7.52                   | 1.000        | 3003.4       | 17.48                      | 49.99                        | 83.92                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.75                        | 383.19                               | 385.60                               |
| 26-Oct-15 | 13:10:10 | 282.0             | 7.92                   | 1.000        | 3001.1       | 17.48                      | 50.00                        | 83.77                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.73                        | 383.20                               | 385.61                               |
| 26-Oct-15 | 13:10:15 | 281.9             | 9.28                   | 0.999        | 2999.8       | 17.48                      | 50.01                        | 83.73                     | 100.00                    | 162.42                         | 562.92                        | 41.46                          | 565.73                        | 383.21                               | 385.63                               |
| 26-Oct-15 | 13:10:20 | 281.1             | 7.94                   | 1.000        | 3007.5       | 17.48                      | 50.03                        | 84.86                     | 100.00                    | 162.42                         | 562.82                        | 41.46                          | 565.73                        | 383.22                               | 385.62                               |
| 26-Oct-15 | 13:10:25 | 281.3             | 8.89                   | 1.000        | 3010.1       | 17.48                      | 50.04                        | 84.76                     | 100.00                    | 162.43                         | 562.56                        | 41.49                          | 565.70                        | 383.23                               | 385.63                               |
| 26-Oct-15 | 13:10:30 | 282.4             | 8.52                   | 1.000        | 3004.9       | 17.48                      | 50.04                        | 83.57                     | 100.00                    | 162.44                         | 562.55                        | 41.50                          | 565.67                        | 383.23                               | 385.62                               |
| 26-Oct-15 | 13:10:35 | 281.4             | 7.44                   | 1.000        | 3008.9       | 17.48                      | 50.04                        | 84.59                     | 100.00                    | 162.45                         | 562.53                        | 41.50                          | 565.63                        | 383.20                               | 385.63                               |
| 26-Oct-15 | 13:10:40 | 281.9             | 7.44                   | 1.000        | 3007.3       | 17.48                      | 50.04                        | 84.00                     | 100.00                    | 162.46                         | 562.51                        | 41.49                          | 565.60                        | 383.20                               | 385.62                               |
| 26-Oct-15 | 13:10:45 | 281.9             | 7.53                   | 1.000        | 3007.4       | 17.48                      | 50.03                        | 83.75                     | 100.00                    | 162.47                         | 562.50                        | 41.49                          | 565.57                        | 383.21                               | 385.60                               |
| 26-Oct-15 | 13:10:50 | 281.7             | 7.92                   | 1.000        | 3007.5       | 17.48                      | 50.03                        | 84.08                     | 100.00                    | 162.48                         | 562.48                        | 41.48                          | 565.53                        | 383.22                               | 385.62                               |
| 26-Oct-15 | 13:10:55 | 281.8             | 8.30                   | 1.000        | 3007.5       | 17.48                      | 50.02                        | 83.85                     | 100.00                    | 162.49                         | 562.46                        | 41.47                          | 565.50                        | 383.23                               | 385.60                               |
| 26-Oct-15 | 13:11:00 | 281.9             | 8.69                   | 1.000        | 3007.8       | 17.48                      | 50.01                        | 83.62                     | 100.00                    | 162.49                         | 562.45                        | 41.47                          | 565.47                        | 383.23                               | 385.60                               |
| 26-Oct-15 | 13:11:05 | 281.9             | 9.07                   | 0.999        | 3007.4       | 17.48                      | 50.00                        | 83.39                     | 100.00                    | 162.49                         | 562.43                        | 41.46                          | 565.43                        | 383.22                               | 385.60                               |
| 26-Oct-15 | 13:11:10 | 282.3             | 8.12                   | 0.999        | 3001.6       | 17.48                      | 49.99                        | 83.00                     | 100.00                    | 162.49                         | 562.41                        | 41.46                          | 565.40                        | 383.22                               | 385.60                               |
| 26-Oct-15 | 13:11:15 | 281.6             | 8.17                   | 1.000        | 2999.8       | 17.48                      | 49.98                        | 83.61                     | 100.00                    | 162.49                         | 562.40                        | 41.46                          | 565.42                        | 383.22                               | 385.60                               |
| 26-Oct-15 | 13:11:20 | 281.3             | 7.72                   | 1.000        | 3002.0       | 17.48                      | 49.97                        | 84.12                     | 100.00                    | 162.49                         | 562.38                        | 41.46                          | 565.42                        | 383.21                               | 385.60                               |
| 26-Oct-15 | 13:11:25 | 281.6             | 8.80                   | 1.000        | 3000.7       | 17.48                      | 49.96                        | 83.66                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.21                               | 385.60                               |
| 26-Oct-15 | 13:11:30 | 282.0             | 9.39                   | 0.999        | 2999.5       | 17.48                      | 49.95                        | 83.40                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.20                               | 385.60                               |
| 26-Oct-15 | 13:11:35 | 281.7             | 9.39                   | 0.999        | 3001.9       | 17.48                      | 49.94                        | 83.87                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.20                               | 385.60                               |
| 26-Oct-15 | 13:11:40 | 281.9             | 9.39                   | 0.999        | 3001.5       | 17.48                      | 49.92                        | 84.17                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.19                               | 385.60                               |
| 26-Oct-15 | 13:11:45 | 282.0             | 9.39                   | 0.999        | 2999.0       | 17.48                      | 49.91                        | 83.58                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.19                               | 385.60                               |
| 26-Oct-15 | 13:11:50 | 281.9             | 9.39                   | 0.999        | 2996.4       | 17.48                      | 49.89                        | 83.41                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.19                               | 385.59                               |
| 26-Oct-15 | 13:11:55 | 281.8             | 9.39                   | 0.999        | 2998.9       | 17.48                      | 49.87                        | 83.48                     | 100.00                    | 162.49                         | 562.37                        | 41.46                          | 565.42                        | 383.19                               | 385.59                               |
| 26-Oct-15 | 13:12:00 | 281.8             | 9.39                   | 0.999        | 2991.6       | 17.48                      | 49.85                        | 83.80                     | 100.00                    | 162.48                         | 562.35                        | 41.46                          | 565.42                        | 383.18                               | 385.59                               |
| 26-Oct-15 | 13:12:05 | 281.9             | 9.39                   | 0.999        | 2991.8       | 17.48                      | 49.82                        | 83.31                     | 100.00                    | 162.43                         | 562.24                        | 41.44                          | 565.17                        | 383.18                               | 385.58                               |
| 26-Oct-15 | 13:12:10 | 282.1             | 9.39                   | 0.999        | 2988.1       | 17.48                      | 49.79                        | 83.58                     | 100.00                    | 162.37                         | 562.13                        | 41.42                          | 564.99                        | 383.17                               | 385.58                               |
| 26-Oct-15 | 13:12:15 | 281.5             | 9.39                   | 0.999        | 2989.5       | 17.48                      | 49.80                        | 84.01                     | 100.00                    | 162.31                         | 562.01                        | 41.42                          | 564.94                        | 383.17                               | 385.58                               |
| 26-Oct-15 | 13:12:20 | 280.9             | 9.39                   | 0.999        | 2995.6       | 17.48                      | 49.82                        | 84.55                     | 100.00                    | 162.28                         | 561.90                        | 41.41                          | 564.90                        | 383.16                               | 385.57                               |
| 26-Oct-15 | 13:12:25 | 281.3             | 9.65                   | 0.999        | 2993.9       | 17.48                      | 49.82                        | 83.98                     | 100.00                    | 162.25                         | 561.83                        | 41.40                          | 564.85                        | 383.16                               | 385.57                               |
| 26-Oct-15 | 13:12:30 | 281.3             | 9.69                   | 0.999        | 2990.8       | 17.48                      | 49.79                        | 83.92                     | 100.00                    | 162.23                         | 561.76                        | 41.40                          | 564.80                        | 383.16                               | 385.57                               |
| 26-Oct-15 | 13:12:35 | 281.4             | 8.15                   | 1.000        | 2991.6       | 17.48                      | 49.77                        | 83.26                     | 100.00                    | 162.21                         | 561.71                        | 41.39                          | 564.77                        | 383.15                               | 385.56                               |
| 26-Oct-15 | 13:12:40 | 281.2             | 8.95                   | 0.999        | 2990.6       | 17.48                      | 49.75                        | 84.05                     | 100.00                    | 162.19                         | 561.73                        | 41.38                          | 564.70                        | 383.15                               | 385.56                               |
| 26-Oct-15 | 13:12:45 | 282.0             | 10.03                  | 0.999        | 2987.9       | 17.48                      | 49.73                        | 82.80                     | 100.00                    | 162.17                         | 561.69                        | 41.37                          | 564.66                        | 383.14                               | 385.59                               |
| 26-Oct-15 | 13:12:50 | 281.2             | 8.20                   | 1.000        | 2989.7       | 17.48                      | 49.72                        | 83.91                     | 100.00                    | 162.14                         | 561.66                        | 41.37                          | 564.61                        | 383.14                               | 385.56                               |
| 26-Oct-15 | 13:12:55 | 281.4             | 8.60                   | 1.000        | 2987.3       | 17.48                      | 49.71                        | 83.92                     | 100.00                    | 162.12                         | 561.62                        | 41.36                          | 564.56                        | 383.13                               | 385.56                               |
| 26-Oct-15 | 13:13:00 | 281.1             | 9.00                   | 0.999        | 2987.6       | 17.48                      | 49.70                        | 83.94                     | 100.00                    | 162.10                         | 561.59                        | 41.35                          | 564.51                        | 383.13                               | 385.56                               |
| 26-Oct-15 | 13:13:05 | 280.8             | 9.39                   | 0.999        | 2987.9       | 17.48                      | 49.69                        | 83.93                     | 100.00                    | 162.08                         | 561.56                        | 41.34                          | 564.46                        | 383.12                               | 385.56                               |
| 26-Oct-15 | 13:13:10 | 281.3             | 9.79                   | 0.999        | 2987.0       | 17.48                      | 49.69                        | 83.29                     | 100.00                    | 162.05                         | 561.52                        | 41.33                          | 564.42                        | 383.13                               | 385.56                               |
| 26-Oct-15 | 13:13:15 | 280.7             | 10.18                  | 0.999        | 2986.8       | 17.52                      | 49.68                        | 83.27                     | 100.00                    | 162.02                         | 561.49                        | 41.32                          | 564.42                        | 383.14                               | 385.56                               |
| 26-Oct-15 | 13:13:20 | 279.6             | 10.70                  | 0.999        | 2991.0       | 17.57                      | 49.73                        | 85.59                     | 100.00                    | 161.99                         | 561.45                        | 41.32                          | 564.42                        | 383.12                               | 385.56                               |
| 26-Oct-15 | 13:13:25 | 281.5             | 11.25                  | 0.999        | 2989.4       | 17.59                      | 49.79                        | 84.03                     | 100.00                    | 161.96                         | 561.43                        | 41.32                          | 564.42                        | 383.12                               | 385.56                               |
| 26-Oct-15 | 13:13:30 | 280.5             | 11.79                  | 0.999        | 2991.6       | 17.59                      | 49.81                        | 84.25                     | 100.00                    | 161.93                         | 561.43                        | 41.32                          | 564.42                        | 383.12                               | 385.58                               |
| 26-Oct-   |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:17:40 | 282.5             | 10.19                  | 0.999        | 3008.6       | 17.54                      | 50.10                        | 85.64                     | 100.00                    | 162.73                         | 561.95                        | 41.47                          | 565.81                        | 383.21                               | 385.79                               |
| 26-Oct-15 | 13:17:45 | 282.6             | 10.45                  | 0.999        | 3004.9       | 17.54                      | 50.09                        | 84.62                     | 100.00                    | 162.71                         | 561.90                        | 41.47                          | 565.80                        | 383.20                               | 385.79                               |
| 26-Oct-15 | 13:17:50 | 282.3             | 10.70                  | 0.999        | 3002.3       | 17.54                      | 50.03                        | 85.00                     | 100.00                    | 162.68                         | 561.85                        | 41.47                          | 565.80                        | 383.20                               | 385.79                               |
| 26-Oct-15 | 13:17:55 | 282.2             | 10.95                  | 0.999        | 3001.3       | 17.54                      | 50.01                        | 85.30                     | 100.00                    | 162.66                         | 561.80                        | 41.47                          | 565.79                        | 383.20                               | 385.79                               |
| 26-Oct-15 | 13:18:00 | 282.4             | 11.21                  | 0.999        | 3000.3       | 17.53                      | 49.99                        | 85.53                     | 100.00                    | 162.64                         | 561.75                        | 41.47                          | 565.78                        | 383.19                               | 385.79                               |
| 26-Oct-15 | 13:18:05 | 282.1             | 11.46                  | 0.999        | 2999.9       | 17.53                      | 49.98                        | 85.77                     | 100.00                    | 162.62                         | 561.71                        | 41.47                          | 565.78                        | 383.18                               | 385.79                               |
| 26-Oct-15 | 13:18:10 | 281.7             | 11.72                  | 0.999        | 3004.1       | 17.53                      | 49.99                        | 85.79                     | 100.00                    | 162.59                         | 561.66                        | 41.47                          | 565.77                        | 383.17                               | 385.79                               |
| 26-Oct-15 | 13:18:15 | 282.4             | 11.97                  | 0.999        | 3005.2       | 17.53                      | 50.00                        | 84.95                     | 100.00                    | 162.57                         | 561.61                        | 41.47                          | 565.77                        | 383.17                               | 385.79                               |
| 26-Oct-15 | 13:18:20 | 281.9             | 11.75                  | 0.999        | 3006.2       | 17.53                      | 50.01                        | 85.13                     | 100.00                    | 162.55                         | 561.56                        | 41.47                          | 565.77                        | 383.16                               | 385.79                               |
| 26-Oct-15 | 13:18:25 | 281.6             | 11.44                  | 0.999        | 3007.8       | 17.53                      | 50.03                        | 85.31                     | 100.00                    | 162.55                         | 561.53                        | 41.47                          | 565.77                        | 383.16                               | 385.79                               |
| 26-Oct-15 | 13:18:30 | 281.5             | 11.13                  | 0.999        | 3009.5       | 17.53                      | 50.04                        | 85.41                     | 100.00                    | 162.55                         | 561.53                        | 41.47                          | 565.77                        | 383.15                               | 385.78                               |
| 26-Oct-15 | 13:18:35 | 281.4             | 10.82                  | 0.999        | 3007.1       | 17.53                      | 50.07                        | 85.21                     | 100.00                    | 162.55                         | 561.53                        | 41.47                          | 565.77                        | 383.14                               | 385.77                               |
| 26-Oct-15 | 13:18:40 | 281.7             | 10.51                  | 0.999        | 3012.6       | 17.53                      | 50.09                        | 85.02                     | 100.00                    | 162.55                         | 561.52                        | 41.47                          | 565.77                        | 383.14                               | 385.76                               |
| 26-Oct-15 | 13:18:45 | 281.4             | 10.19                  | 0.999        | 3014.8       | 17.53                      | 50.12                        | 85.29                     | 100.00                    | 162.53                         | 561.44                        | 41.47                          | 565.69                        | 383.13                               | 385.75                               |
| 26-Oct-15 | 13:18:50 | 281.3             | 9.88                   | 0.999        | 3017.7       | 17.53                      | 50.16                        | 85.61                     | 100.00                    | 162.51                         | 561.35                        | 41.46                          | 565.60                        | 383.12                               | 385.76                               |
| 26-Oct-15 | 13:18:55 | 282.1             | 9.84                   | 0.999        | 3012.8       | 17.53                      | 50.19                        | 84.75                     | 100.00                    | 162.50                         | 561.27                        | 41.46                          | 565.52                        | 383.13                               | 385.78                               |
| 26-Oct-15 | 13:19:00 | 281.6             | 9.84                   | 0.999        | 3014.4       | 17.53                      | 50.19                        | 85.47                     | 100.00                    | 162.48                         | 561.19                        | 41.45                          | 565.43                        | 383.15                               | 385.77                               |
| 26-Oct-15 | 13:19:05 | 281.3             | 9.90                   | 0.999        | 3018.8       | 17.53                      | 50.19                        | 85.82                     | 100.00                    | 162.46                         | 561.11                        | 41.45                          | 565.34                        | 383.12                               | 385.78                               |
| 26-Oct-15 | 13:19:10 | 281.9             | 10.12                  | 0.999        | 3017.2       | 17.53                      | 50.20                        | 85.27                     | 100.00                    | 162.44                         | 561.02                        | 41.44                          | 565.26                        | 383.11                               | 385.77                               |
| 26-Oct-15 | 13:19:15 | 281.8             | 10.34                  | 0.999        | 3016.7       | 17.54                      | 50.21                        | 85.39                     | 100.00                    | 162.43                         | 560.94                        | 41.44                          | 565.22                        | 383.10                               | 385.77                               |
| 26-Oct-15 | 13:19:20 | 281.3             | 10.57                  | 0.999        | 3016.8       | 17.54                      | 50.22                        | 85.97                     | 100.00                    | 162.41                         | 560.86                        | 41.43                          | 565.19                        | 383.10                               | 385.75                               |
| 26-Oct-15 | 13:19:25 | 281.4             | 10.79                  | 0.999        | 3021.1       | 17.53                      | 50.23                        | 85.51                     | 100.00                    | 162.39                         | 560.81                        | 41.43                          | 565.17                        | 383.09                               | 385.74                               |
| 26-Oct-15 | 13:19:30 | 281.5             | 11.01                  | 0.999        | 3020.9       | 17.51                      | 50.23                        | 85.59                     | 100.00                    | 162.37                         | 560.81                        | 41.42                          | 565.14                        | 383.09                               | 385.74                               |
| 26-Oct-15 | 13:19:35 | 281.4             | 11.24                  | 0.999        | 3016.8       | 17.49                      | 50.22                        | 85.53                     | 100.00                    | 162.35                         | 560.81                        | 41.41                          | 565.12                        | 383.08                               | 385.73                               |
| 26-Oct-15 | 13:19:40 | 281.4             | 11.46                  | 0.999        | 3022.8       | 17.49                      | 50.22                        | 85.61                     | 100.00                    | 162.33                         | 560.81                        | 41.40                          | 565.09                        | 383.09                               | 385.72                               |
| 26-Oct-15 | 13:19:45 | 281.8             | 11.69                  | 0.999        | 3017.7       | 17.45                      | 50.20                        | 85.08                     | 100.00                    | 162.31                         | 560.81                        | 41.39                          | 565.07                        | 383.08                               | 385.72                               |
| 26-Oct-15 | 13:19:50 | 282.3             | 11.85                  | 0.999        | 3011.2       | 17.44                      | 50.15                        | 83.96                     | 100.00                    | 162.29                         | 560.81                        | 41.38                          | 565.04                        | 383.08                               | 385.71                               |
| 26-Oct-15 | 13:19:55 | 281.4             | 11.85                  | 0.999        | 3013.5       | 17.44                      | 50.13                        | 85.83                     | 100.00                    | 162.26                         | 560.81                        | 41.38                          | 565.02                        | 383.08                               | 385.71                               |
| 26-Oct-15 | 13:20:00 | 281.1             | 11.85                  | 0.999        | 3011.4       | 17.44                      | 50.12                        | 85.63                     | 100.00                    | 162.24                         | 560.81                        | 41.38                          | 564.99                        | 383.08                               | 385.71                               |
| 26-Oct-15 | 13:20:05 | 281.2             | 11.85                  | 0.999        | 3012.3       | 17.44                      | 50.11                        | 85.88                     | 100.00                    | 162.22                         | 560.81                        | 41.38                          | 564.96                        | 383.08                               | 385.71                               |
| 26-Oct-15 | 13:20:10 | 281.3             | 11.85                  | 0.999        | 3008.8       | 17.44                      | 50.10                        | 85.61                     | 100.00                    | 162.21                         | 560.81                        | 41.38                          | 564.94                        | 383.07                               | 385.70                               |
| 26-Oct-15 | 13:20:15 | 281.1             | 11.85                  | 0.999        | 3007.5       | 17.44                      | 50.09                        | 85.65                     | 100.00                    | 162.21                         | 560.81                        | 41.38                          | 564.92                        | 383.06                               | 385.69                               |
| 26-Oct-15 | 13:20:20 | 281.1             | 11.85                  | 0.999        | 3011.4       | 17.44                      | 50.09                        | 85.88                     | 100.00                    | 162.20                         | 560.76                        | 41.38                          | 564.92                        | 383.05                               | 385.68                               |
| 26-Oct-15 | 13:20:25 | 281.2             | 11.85                  | 0.999        | 3011.1       | 17.44                      | 50.09                        | 85.49                     | 100.00                    | 162.16                         | 560.74                        | 41.37                          | 564.92                        | 383.07                               | 385.67                               |
| 26-Oct-15 | 13:20:30 | 281.4             | 11.85                  | 0.999        | 3008.7       | 17.44                      | 50.09                        | 85.36                     | 100.00                    | 162.12                         | 560.55                        | 41.36                          | 564.92                        | 383.06                               | 385.67                               |
| 26-Oct-15 | 13:20:35 | 281.2             | 11.85                  | 0.999        | 3008.4       | 17.44                      | 50.09                        | 85.64                     | 100.00                    | 162.08                         | 560.57                        | 41.35                          | 564.92                        | 383.04                               | 385.66                               |
| 26-Oct-15 | 13:20:40 | 281.1             | 11.85                  | 0.999        | 3008.2       | 17.44                      | 50.09                        | 85.83                     | 100.00                    | 162.04                         | 560.58                        | 41.34                          | 564.91                        | 383.04                               | 385.66                               |
| 26-Oct-15 | 13:20:45 | 280.8             | 11.90                  | 0.999        | 3014.4       | 17.44                      | 50.09                        | 85.73                     | 100.00                    | 162.00                         | 560.59                        | 41.33                          | 564.91                        | 383.04                               | 385.65                               |
| 26-Oct-15 | 13:20:50 | 281.1             | 11.94                  | 0.999        | 3010.4       | 17.46                      | 50.10                        | 85.24                     | 100.00                    | 161.95                         | 560.61                        | 41.32                          | 564.91                        | 383.03                               | 385.65                               |
| 26-Oct-15 | 13:20:55 | 280.8             | 11.92                  | 0.999        | 3008.2       | 17.46                      | 50.13                        | 85.66                     | 100.00                    | 161.91                         | 560.62                        | 41.31                          | 564.91                        | 383.03                               | 385.64                               |
| 26-Oct-15 | 13:21:00 | 280.5             | 11.10                  | 0.999        | 3014.0       | 17.46                      | 50.13                        | 85.89                     | 100.00                    | 161.86                         | 560.64                        | 41.30                          | 564.90                        | 383.03                               | 385.64                               |
| 26-Oct-15 | 13:21:05 | 280.7             | 10.68                  | 0.999        | 3013.3       | 17.45                      | 50.13                        | 85.47                     | 100.00                    | 161.81                         | 560.65                        | 41.29                          | 564.90                        | 383.02                               | 385.64                               |
| 26-Oct-15 | 13:21:10 | 280.5             | 10.27                  | 0.999        | 3014.8       | 17.45                      | 50.13                        | 85.54                     | 100.00                    | 161.78                         | 560.66                        | 41.28                          | 564.90                        | 383.02                               | 385.65                               |
| 26-Oct-15 | 13:21:15 | 281.0             | 10.27                  | 0.999        | 3012.0       | 17.45                      | 50.13                        | 85.16                     | 100.00                    | 161.75                         | 560.68                        | 41.27                          | 564.90                        | 383.02                               | 385.65                               |
| 26-Oct-15 | 13:21:20 | 280.7             | 10.50                  | 0.999        | 3012.9       | 17.45                      | 50.12                        | 85.42                     | 100.00                    | 161.72                         | 560.69                        | 41.26                          | 564.90                        | 383.01                               | 385.65                               |
| 26-Oct-15 | 13:21:25 | 280.4             | 10.73                  | 0.999        | 3011.3       | 17.45                      | 50.12                        | 85.99                     | 100.00                    | 161.70                         | 560.70                        | 41.26                          | 564.90                        | 383.01                               | 385.65                               |
| 26-Oct-15 | 13:21:30 | 280.7             | 10.97                  | 0.999        | 3011.4       | 17.45                      | 50.12                        | 85.95                     | 100.00                    | 161.67                         | 560.70                        | 41.25                          | 564.90                        | 383.01                               | 385.66                               |
| 26-Oct-15 | 13:21:35 | 280.7             | 11.20                  | 0.999        | 3012.1       | 17.45                      | 50.12                        | 85.91                     | 100.00                    | 161.64                         | 560.70                        | 41.24                          | 564.90                        | 383.01                               | 385.64                               |
| 26-Oct-15 | 13:21:40 | 280.3             | 11.43                  | 0.999        | 3013.0       | 17.45                      | 50.11                        | 85.87                     | 100.00                    | 161.62                         | 560.70                        | 41.24                          | 564.90                        | 383.02                               | 385.64                               |
| 26-Oct-15 | 13:21:45 | 280.5             | 11.66                  | 0.999        | 3011.1       | 17.45                      | 50.11                        | 85.87                     | 100.00                    | 161.59                         | 560.70                        | 41.23                          | 564.90                        | 383.01                               | 385.64                               |
| 26-Oct-15 | 13:21:50 | 280.7             | 11.89                  | 0.999        | 3009.2       | 17.45                      | 50.11                        | 86.12                     | 100.00                    | 161.59                         | 560.70                        | 41.23                          | 564.90                        | 383.01                               | 385.64                               |
| 26-Oct-15 | 13:21:55 | 280.3             | 11.97                  | 0.999        | 3010.0       | 17.45                      | 50.10                        | 86.57                     | 100.00                    | 161.59                         | 560.70                        | 41.23                          | 564.90                        | 383.02                               | 385.64                               |
| 26-Oct-15 | 13:22:00 | 280.4             | 11.56                  | 0.999        | 3010.3       | 17.45                      | 50.10                        | 86.09                     | 100.00                    | 161.59                         | 560.71                        | 41.23                          | 564.90                        | 383.03                               | 385.64                               |
| 26-Oct-15 | 13:22:05 | 280.4             | 11.15                  | 0.999        | 3011.1       | 17.45                      | 50.11                        | 86.09                     | 100.00                    | 161.58                         | 560.73                        | 41.22                          | 564.97                        | 383.03                               | 385.64                               |
| 26-Oct-15 | 13:22:10 | 280.6             | 10.75                  | 0.999        | 3008.5       | 17.45                      | 50.13                        | 86.56                     | 100.00                    | 161.57                         | 560.76                        | 41.22                          | 565.05                        | 383.04                               | 385.65                               |
| 26-Oct-15 | 13:22:15 | 279.6             | 10.34                  | 0.999        | 3011.4       | 17.45                      | 50.14                        | 87.37                     | 100.00                    | 161.56                         | 560.79                        | 41.21                          | 565.08                        | 383.02                               | 385.65                               |
| 26-Oct-15 | 13:22:20 | 279.9             | 7.11                   | 1.000        | 3014.3       | 17.45                      | 50.15                        | 87.20                     | 100.00                    | 161.55                         | 560.81                        | 41.21                          | 565.11                        | 383.04                               | 385.65                               |
| 26-Oct-15 | 13:22:25 | 280.2             | 5.22                   | 1.000        | 3013.3       | 17.45                      | 50.16                        | 86.87                     | 100.00                    | 161.54                         | 560.84                        | 41.21                          | 565.14                        | 383.05                               | 385.65                               |
| 26-Oct-15 | 13:22:30 | 279.9             | 5.20                   | 1.000        | 3012.3       | 17.45                      | 50.19                        | 87.19                     | 100.00                    | 161.53                         | 560.88                        | 41.20                          | 565.17                        | 383.05                               | 385.66                               |
| 26-Oct-15 | 13:22:35 | 280.7             | 5.18                   | 1.000        | 3011.3       | 17.45                      | 50.18                        | 86.25                     | 100.00                    | 161.51                         | 560.92                        | 41.20                          | 565.21                        | 383.05                               | 385.66                               |
| 26-Oct-15 | 13:22:40 | 280.8             | 5.16                   | 1.000        | 3009.1       | 17.45                      | 50.16                        | 86.20                     | 100.00                    | 161.50                         | 560.96                        | 41.20                          | 565.24                        | 383.05                               | 385.67                               |
| 26-Oct-15 | 13:22:45 | 281.0             | 5.14                   | 1.000        | 3007.1       | 17.45                      | 50.12                        | 86.16                     | 100.00                    | 161.49                         | 561.00                        | 41.19                          | 565.27                        | 383.06                               | 385.67                               |
| 26-Oct-15 | 13:22:50 | 280.3             | 5.12                   | 1.000        | 3010.5       | 17.45                      | 50.10                        | 86.58                     | 100.00                    | 161.49                         | 561.05                        | 41.19                          | 565.30                        | 383.06                               | 385.67                               |
| 26-Oct-15 | 13:22:55 | 280.0             | 5.10                   | 1.000        | 3013.9       | 17.45                      | 50.09                        | 86.92                     | 100.00                    | 161.49                         | 561.09                        | 41.19                          | 565.33                        | 383.06                               | 385.66                               |
| 26-Oct-15 | 13:23:00 | 280.4             | 5.09                   | 1.000        | 3014.4       | 17.46                      | 50.09                        | 86.69                     | 100.00                    | 161.49                         | 561.13                        | 41.19                          | 565.36                        | 383.07                               | 385.65                               |
| 26-Oct-15 | 13:23:05 | 280.2             | 5.07                   | 1.000        | 3012.1       | 17.46                      | 50.08                        | 86.30                     | 100.00                    | 161.49                         | 561.17                        | 41.19                          | 565.39                        | 383.07                               | 385.66                               |
| 26-Oct-15 | 13:23:10 | 281.0             | 5.05                   | 1.000        | 3011.7       | 17.46                      | 50.08                        | 86.03                     | 100.00                    | 161.49                         | 561.21                        | 41.19                          | 565.43                        | 383.07                               | 385.67                               |
| 26-Oct-15 | 13:23:15 | 280.2             | 5.03                   | 1.000        | 3013.6       | 17.46                      | 50.07                        | 86.33                     | 100.00                    | 161.49                         | 561.26                        | 41.19                          | 565.43                        | 383.07                               | 385.66                               |
| 26-Oct-15 | 13:23:20 | 280.9             | 5.01                   | 1.000        | 3008.8       | 17.47                      | 50.06                        | 85.84                     | 100.00                    | 161.49                         | 561.30                        | 41.19                          |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:27:30 | 281.7             | 6.53                   | 1.000        | 3015.1       | 17.42                      | 50.21                        | 83.06                     | 100.00                    | 161.82                         | 562.59                        | 41.27                          | 566.81                        | 383.28                               | 386.10                               |
| 26-Oct-15 | 13:27:35 | 281.3             | 6.99                   | 1.000        | 3011.8       | 17.42                      | 50.19                        | 83.28                     | 100.00                    | 161.85                         | 562.59                        | 41.28                          | 566.82                        | 383.28                               | 386.11                               |
| 26-Oct-15 | 13:27:40 | 281.2             | 7.45                   | 1.000        | 3013.8       | 17.42                      | 50.17                        | 83.49                     | 100.00                    | 161.88                         | 562.60                        | 41.29                          | 566.82                        | 383.29                               | 386.12                               |
| 26-Oct-15 | 13:27:45 | 281.1             | 7.83                   | 1.000        | 3012.6       | 17.42                      | 50.15                        | 83.71                     | 100.00                    | 161.91                         | 562.60                        | 41.29                          | 566.83                        | 383.29                               | 386.13                               |
| 26-Oct-15 | 13:27:50 | 281.0             | 6.94                   | 1.000        | 3014.5       | 17.42                      | 50.17                        | 83.92                     | 100.00                    | 161.94                         | 562.61                        | 41.30                          | 566.84                        | 383.30                               | 386.14                               |
| 26-Oct-15 | 13:27:55 | 280.6             | 6.05                   | 1.000        | 3018.6       | 17.42                      | 50.19                        | 83.86                     | 100.00                    | 161.97                         | 562.62                        | 41.31                          | 566.84                        | 383.30                               | 386.15                               |
| 26-Oct-15 | 13:28:00 | 281.4             | 6.28                   | 1.000        | 3018.9       | 17.42                      | 50.19                        | 83.35                     | 100.00                    | 162.00                         | 562.62                        | 41.31                          | 566.85                        | 383.30                               | 386.16                               |
| 26-Oct-15 | 13:28:05 | 281.6             | 6.70                   | 1.000        | 3015.0       | 17.43                      | 50.18                        | 83.37                     | 100.00                    | 162.04                         | 562.63                        | 41.32                          | 566.86                        | 383.29                               | 386.14                               |
| 26-Oct-15 | 13:28:10 | 281.1             | 7.12                   | 1.000        | 3016.8       | 17.43                      | 50.18                        | 83.93                     | 100.00                    | 162.10                         | 562.63                        | 41.33                          | 566.86                        | 383.31                               | 386.17                               |
| 26-Oct-15 | 13:28:15 | 281.7             | 7.54                   | 1.000        | 3014.5       | 17.43                      | 50.17                        | 83.08                     | 100.00                    | 162.15                         | 562.64                        | 41.34                          | 566.87                        | 383.33                               | 386.17                               |
| 26-Oct-15 | 13:28:20 | 281.7             | 7.96                   | 1.000        | 3011.3       | 17.43                      | 50.16                        | 83.25                     | 100.00                    | 162.21                         | 562.65                        | 41.35                          | 566.87                        | 383.33                               | 386.17                               |
| 26-Oct-15 | 13:28:25 | 281.7             | 7.49                   | 1.000        | 3011.2       | 17.44                      | 50.15                        | 83.41                     | 100.00                    | 162.22                         | 562.65                        | 41.35                          | 566.87                        | 383.33                               | 386.17                               |
| 26-Oct-15 | 13:28:30 | 281.4             | 6.53                   | 1.000        | 3015.9       | 17.44                      | 50.17                        | 83.55                     | 100.00                    | 162.22                         | 562.65                        | 41.36                          | 566.87                        | 383.32                               | 386.20                               |
| 26-Oct-15 | 13:28:35 | 281.6             | 6.20                   | 1.000        | 3015.0       | 17.44                      | 50.20                        | 83.13                     | 100.00                    | 162.22                         | 562.65                        | 41.36                          | 566.87                        | 383.34                               | 386.20                               |
| 26-Oct-15 | 13:28:40 | 281.5             | 6.20                   | 1.000        | 3017.9       | 17.44                      | 50.20                        | 83.05                     | 100.00                    | 162.22                         | 562.64                        | 41.36                          | 566.87                        | 383.35                               | 386.21                               |
| 26-Oct-15 | 13:28:45 | 281.3             | 6.20                   | 1.000        | 3013.6       | 17.45                      | 50.20                        | 83.05                     | 100.00                    | 162.23                         | 562.57                        | 41.36                          | 566.79                        | 383.35                               | 386.22                               |
| 26-Oct-15 | 13:28:50 | 281.2             | 6.20                   | 1.000        | 3017.5       | 17.45                      | 50.20                        | 82.93                     | 100.00                    | 162.24                         | 562.51                        | 41.36                          | 566.71                        | 383.36                               | 386.23                               |
| 26-Oct-15 | 13:28:55 | 281.2             | 6.20                   | 1.000        | 3018.9       | 17.45                      | 50.20                        | 82.72                     | 100.00                    | 162.25                         | 562.44                        | 41.36                          | 566.64                        | 383.36                               | 386.24                               |
| 26-Oct-15 | 13:29:00 | 281.4             | 6.20                   | 1.000        | 3015.7       | 17.45                      | 50.20                        | 82.52                     | 100.00                    | 162.26                         | 562.37                        | 41.36                          | 566.56                        | 383.37                               | 386.24                               |
| 26-Oct-15 | 13:29:05 | 281.6             | 6.32                   | 1.000        | 3019.0       | 17.45                      | 50.19                        | 82.32                     | 100.00                    | 162.27                         | 562.30                        | 41.36                          | 566.49                        | 383.38                               | 386.26                               |
| 26-Oct-15 | 13:29:10 | 281.8             | 6.79                   | 1.000        | 3018.9       | 17.45                      | 50.18                        | 82.11                     | 100.00                    | 162.28                         | 562.24                        | 41.36                          | 566.41                        | 383.38                               | 386.28                               |
| 26-Oct-15 | 13:29:15 | 281.3             | 7.25                   | 1.000        | 3016.7       | 17.45                      | 50.17                        | 83.02                     | 100.00                    | 162.29                         | 562.17                        | 41.36                          | 566.35                        | 383.35                               | 386.29                               |
| 26-Oct-15 | 13:29:20 | 281.7             | 7.72                   | 1.000        | 3013.2       | 17.45                      | 50.16                        | 82.33                     | 100.00                    | 162.30                         | 562.10                        | 41.36                          | 566.31                        | 383.38                               | 386.30                               |
| 26-Oct-15 | 13:29:25 | 281.8             | 8.19                   | 1.000        | 3014.6       | 17.45                      | 50.15                        | 82.35                     | 100.00                    | 162.30                         | 562.04                        | 41.36                          | 566.27                        | 383.38                               | 386.31                               |
| 26-Oct-15 | 13:29:30 | 281.1             | 7.21                   | 1.000        | 3018.6       | 17.45                      | 50.16                        | 83.28                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.23                        | 383.38                               | 386.31                               |
| 26-Oct-15 | 13:29:35 | 281.4             | 6.29                   | 1.000        | 3018.6       | 17.45                      | 50.19                        | 82.93                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.19                        | 383.38                               | 386.31                               |
| 26-Oct-15 | 13:29:40 | 281.9             | 6.26                   | 1.000        | 3011.4       | 17.45                      | 50.19                        | 82.62                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.14                        | 383.38                               | 386.34                               |
| 26-Oct-15 | 13:29:45 | 281.6             | 6.24                   | 1.000        | 3012.5       | 17.45                      | 50.18                        | 83.62                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.10                        | 383.38                               | 386.36                               |
| 26-Oct-15 | 13:29:50 | 281.4             | 6.22                   | 1.000        | 3013.9       | 17.45                      | 50.17                        | 83.80                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.06                        | 383.38                               | 386.36                               |
| 26-Oct-15 | 13:29:55 | 281.7             | 6.20                   | 1.000        | 3011.5       | 17.45                      | 50.16                        | 83.07                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 566.02                        | 383.38                               | 386.36                               |
| 26-Oct-15 | 13:30:00 | 281.3             | 6.17                   | 1.000        | 3011.4       | 17.45                      | 50.15                        | 82.93                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 565.98                        | 383.38                               | 386.36                               |
| 26-Oct-15 | 13:30:05 | 281.2             | 6.15                   | 1.000        | 3013.9       | 17.45                      | 50.14                        | 83.83                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 565.93                        | 383.38                               | 386.36                               |
| 26-Oct-15 | 13:30:10 | 281.9             | 6.13                   | 1.000        | 3014.2       | 17.45                      | 50.14                        | 83.08                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 565.89                        | 383.39                               | 386.39                               |
| 26-Oct-15 | 13:30:15 | 281.6             | 6.10                   | 1.000        | 3012.7       | 17.45                      | 50.14                        | 83.08                     | 100.00                    | 162.30                         | 562.02                        | 41.36                          | 565.87                        | 383.40                               | 386.41                               |
| 26-Oct-15 | 13:30:20 | 281.5             | 6.08                   | 1.000        | 3014.7       | 17.45                      | 50.14                        | 83.08                     | 100.00                    | 162.42                         | 561.94                        | 41.36                          | 565.87                        | 383.41                               | 386.42                               |
| 26-Oct-15 | 13:30:25 | 281.8             | 6.06                   | 1.000        | 3011.1       | 17.45                      | 50.14                        | 83.08                     | 100.00                    | 162.46                         | 561.49                        | 41.38                          | 565.83                        | 383.42                               | 386.43                               |
| 26-Oct-15 | 13:30:30 | 281.5             | 6.04                   | 1.000        | 3011.8       | 17.45                      | 50.14                        | 83.49                     | 100.00                    | 162.48                         | 561.37                        | 41.40                          | 565.78                        | 383.40                               | 386.42                               |
| 26-Oct-15 | 13:30:35 | 282.1             | 6.02                   | 1.000        | 3011.2       | 17.45                      | 50.14                        | 83.31                     | 100.00                    | 162.51                         | 561.34                        | 41.40                          | 565.73                        | 383.42                               | 386.40                               |
| 26-Oct-15 | 13:30:40 | 281.9             | 6.00                   | 1.000        | 3011.3       | 17.45                      | 50.14                        | 83.69                     | 100.00                    | 162.53                         | 561.32                        | 41.40                          | 565.68                        | 383.43                               | 386.44                               |
| 26-Oct-15 | 13:30:45 | 281.4             | 5.79                   | 1.000        | 3012.0       | 17.45                      | 50.15                        | 84.06                     | 100.00                    | 162.55                         | 561.29                        | 41.40                          | 565.63                        | 383.43                               | 386.45                               |
| 26-Oct-15 | 13:30:50 | 281.4             | 4.87                   | 1.000        | 3013.6       | 17.46                      | 50.19                        | 83.77                     | 100.00                    | 162.57                         | 561.26                        | 41.39                          | 565.58                        | 383.44                               | 386.45                               |
| 26-Oct-15 | 13:30:55 | 281.8             | 4.01                   | 1.000        | 3012.0       | 17.46                      | 50.17                        | 83.34                     | 100.00                    | 162.60                         | 561.23                        | 41.39                          | 565.53                        | 383.45                               | 386.46                               |
| 26-Oct-15 | 13:31:00 | 282.4             | 4.19                   | 1.000        | 3011.5       | 17.45                      | 50.15                        | 82.65                     | 100.00                    | 162.62                         | 561.21                        | 41.39                          | 565.48                        | 383.45                               | 386.47                               |
| 26-Oct-15 | 13:31:05 | 281.7             | 4.37                   | 1.000        | 3012.4       | 17.45                      | 50.14                        | 83.50                     | 100.00                    | 162.64                         | 561.18                        | 41.39                          | 565.43                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:10 | 281.9             | 4.56                   | 1.000        | 3013.3       | 17.45                      | 50.14                        | 83.97                     | 100.00                    | 162.64                         | 561.15                        | 41.39                          | 565.39                        | 383.45                               | 386.45                               |
| 26-Oct-15 | 13:31:15 | 281.7             | 4.74                   | 1.000        | 3014.2       | 17.44                      | 50.13                        | 84.09                     | 100.00                    | 162.64                         | 561.12                        | 41.39                          | 565.34                        | 383.44                               | 386.47                               |
| 26-Oct-15 | 13:31:20 | 281.5             | 4.92                   | 1.000        | 3015.2       | 17.44                      | 50.13                        | 84.19                     | 100.00                    | 162.64                         | 561.10                        | 41.39                          | 565.34                        | 383.45                               | 386.47                               |
| 26-Oct-15 | 13:31:25 | 282.1             | 5.10                   | 1.000        | 3010.9       | 17.44                      | 50.12                        | 84.03                     | 100.00                    | 162.64                         | 561.07                        | 41.39                          | 565.34                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:30 | 281.9             | 5.29                   | 1.000        | 3010.1       | 17.43                      | 50.11                        | 84.15                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:35 | 281.6             | 5.47                   | 1.000        | 3009.2       | 17.43                      | 50.11                        | 84.42                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:40 | 281.4             | 5.65                   | 1.000        | 3008.3       | 17.43                      | 50.10                        | 84.68                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:45 | 281.9             | 5.83                   | 1.000        | 3007.4       | 17.43                      | 50.10                        | 83.88                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.46                               | 386.47                               |
| 26-Oct-15 | 13:31:50 | 281.8             | 6.01                   | 1.000        | 3007.7       | 17.42                      | 50.09                        | 84.15                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.47                               | 386.47                               |
| 26-Oct-15 | 13:31:55 | 281.4             | 4.02                   | 1.000        | 3009.9       | 17.42                      | 50.08                        | 84.61                     | 100.00                    | 162.64                         | 561.06                        | 41.39                          | 565.34                        | 383.48                               | 386.47                               |
| 26-Oct-15 | 13:32:00 | 281.6             | 4.02                   | 1.000        | 3009.9       | 17.42                      | 50.07                        | 84.67                     | 100.00                    | 162.62                         | 561.04                        | 41.39                          | 565.34                        | 383.49                               | 386.47                               |
| 26-Oct-15 | 13:32:05 | 281.8             | 4.02                   | 1.000        | 3007.3       | 17.42                      | 50.06                        | 84.67                     | 100.00                    | 162.52                         | 560.93                        | 41.39                          | 565.19                        | 383.50                               | 386.47                               |
| 26-Oct-15 | 13:32:10 | 282.3             | 4.02                   | 1.000        | 3004.1       | 17.42                      | 50.05                        | 83.96                     | 100.00                    | 162.50                         | 560.82                        | 41.39                          | 565.03                        | 383.50                               | 386.47                               |
| 26-Oct-15 | 13:32:15 | 281.4             | 4.02                   | 1.000        | 3007.2       | 17.42                      | 50.06                        | 84.45                     | 100.00                    | 162.49                         | 560.82                        | 41.39                          | 564.92                        | 383.51                               | 386.47                               |
| 26-Oct-15 | 13:32:20 | 281.2             | 4.02                   | 1.000        | 3010.3       | 17.42                      | 50.09                        | 85.01                     | 100.00                    | 162.47                         | 560.61                        | 41.39                          | 564.88                        | 383.51                               | 386.47                               |
| 26-Oct-15 | 13:32:25 | 281.4             | 4.04                   | 1.000        | 3007.1       | 17.42                      | 50.09                        | 84.65                     | 100.00                    | 162.45                         | 560.50                        | 41.39                          | 564.84                        | 383.51                               | 386.47                               |
| 26-Oct-15 | 13:32:30 | 281.2             | 4.14                   | 1.000        | 3008.2       | 17.42                      | 50.06                        | 84.63                     | 100.00                    | 162.43                         | 560.42                        | 41.39                          | 564.80                        | 383.52                               | 386.47                               |
| 26-Oct-15 | 13:32:35 | 281.1             | 4.23                   | 1.000        | 3009.3       | 17.42                      | 50.03                        | 84.61                     | 100.00                    | 162.42                         | 560.36                        | 41.39                          | 564.76                        | 383.52                               | 386.47                               |
| 26-Oct-15 | 13:32:40 | 281.7             | 4.33                   | 1.000        | 3010.5       | 17.43                      | 50.02                        | 84.59                     | 100.00                    | 162.40                         | 560.29                        | 41.38                          | 564.71                        | 383.52                               | 386.47                               |
| 26-Oct-15 | 13:32:45 | 281.8             | 4.42                   | 1.000        | 3004.6       | 17.43                      | 50.01                        | 84.69                     | 100.00                    | 162.38                         | 560.23                        | 41.38                          | 564.67                        | 383.53                               | 386.47                               |
| 26-Oct-15 | 13:32:50 | 281.5             | 4.51                   | 1.000        | 3006.8       | 17.43                      | 49.99                        | 85.15                     | 100.00                    | 162.37                         | 560.16                        | 41.37                          | 564.63                        | 383.53                               | 386.47                               |
| 26-Oct-15 | 13:32:55 | 281.3             | 4.60                   | 1.000        | 3009.0       | 17.43                      | 50.02                        | 85.43                     | 100.00                    | 162.35                         | 560.10                        | 41.36                          | 564.59                        | 383.53                               | 386.47                               |
| 26-Oct-15 | 13:33:00 | 280.8             | 4.58                   | 1.000        | 3009.6       | 17.43                      | 50.04                        | 85.54                     | 100.00                    | 162.33                         | 560.03                        | 41.36                          | 564.55                        | 383.54                               | 386.47                               |
| 26-Oct-15 | 13:33:05 | 281.2             | 4.56                   | 1.000        | 3007.1       | 17.43                      | 50.03                        | 85.10                     | 100.00                    | 162.32                         | 559.97                        | 41.35                          | 564.51                        | 383.53                               | 386.47                               |
| 26-Oct-15 | 13:33:10 | 281.4             | 4.55                   | 1.000        | 3007.1       | 17.43                      | 50.03                        | 85.01                     | 100.00                    | 162.32                         | 559.90                        | 41.35                          | 564.47                        | 383.51                               | 386.47                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |



Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:37:20 | 280.3             | 5.37                   | 1.000        | 2995.2       | 17.45                      | 49.95                        | 88.02                     | 100.00                    | 160.89                         | 560.58                        | 41.09                          | 565.77                        | 383.73                               | 386.41                               |
| 26-Oct-15 | 13:37:25 | 279.7             | 5.35                   | 1.000        | 2995.4       | 17.45                      | 49.94                        | 88.31                     | 100.00                    | 160.88                         | 560.61                        | 41.08                          | 565.78                        | 383.70                               | 386.43                               |
| 26-Oct-15 | 13:37:30 | 278.7             | 5.30                   | 1.000        | 2999.5       | 17.45                      | 49.95                        | 88.78                     | 100.00                    | 160.87                         | 560.63                        | 41.08                          | 565.80                        | 383.72                               | 386.44                               |
| 26-Oct-15 | 13:37:35 | 279.7             | 5.25                   | 1.000        | 3001.7       | 17.44                      | 49.97                        | 88.07                     | 100.00                    | 160.86                         | 560.64                        | 41.07                          | 565.82                        | 383.70                               | 386.45                               |
| 26-Oct-15 | 13:37:40 | 280.6             | 5.20                   | 1.000        | 2998.6       | 17.44                      | 49.95                        | 87.31                     | 100.00                    | 160.85                         | 560.65                        | 41.07                          | 565.83                        | 383.70                               | 386.45                               |
| 26-Oct-15 | 13:37:45 | 279.8             | 5.15                   | 1.000        | 2993.9       | 17.43                      | 49.90                        | 87.52                     | 100.00                    | 160.84                         | 560.66                        | 41.07                          | 565.85                        | 383.72                               | 386.46                               |
| 26-Oct-15 | 13:37:50 | 279.7             | 5.10                   | 1.000        | 2992.3       | 17.43                      | 49.88                        | 87.85                     | 100.00                    | 160.83                         | 560.67                        | 41.07                          | 565.86                        | 383.72                               | 386.46                               |
| 26-Oct-15 | 13:37:55 | 279.5             | 5.05                   | 1.000        | 2993.0       | 17.43                      | 49.89                        | 87.90                     | 100.00                    | 160.83                         | 560.68                        | 41.07                          | 565.88                        | 383.70                               | 386.47                               |
| 26-Oct-15 | 13:38:00 | 279.2             | 5.00                   | 1.000        | 2995.8       | 17.43                      | 49.89                        | 88.27                     | 100.00                    | 160.80                         | 560.69                        | 41.07                          | 565.90                        | 383.72                               | 386.44                               |
| 26-Oct-15 | 13:38:05 | 279.1             | 4.95                   | 1.000        | 2997.2       | 17.43                      | 49.90                        | 88.36                     | 100.00                    | 160.79                         | 560.70                        | 41.07                          | 565.91                        | 383.70                               | 386.44                               |
| 26-Oct-15 | 13:38:10 | 279.6             | 4.90                   | 1.000        | 2998.5       | 17.43                      | 49.90                        | 87.86                     | 100.00                    | 160.78                         | 560.71                        | 41.06                          | 565.93                        | 383.71                               | 386.45                               |
| 26-Oct-15 | 13:38:15 | 279.1             | 4.85                   | 1.000        | 2999.5       | 17.43                      | 49.91                        | 88.14                     | 100.00                    | 160.77                         | 560.71                        | 41.06                          | 565.94                        | 383.72                               | 386.46                               |
| 26-Oct-15 | 13:38:20 | 279.6             | 4.82                   | 1.000        | 2997.7       | 17.43                      | 49.91                        | 87.52                     | 100.00                    | 160.77                         | 560.72                        | 41.06                          | 565.94                        | 383.69                               | 386.47                               |
| 26-Oct-15 | 13:38:25 | 279.7             | 4.82                   | 1.000        | 2996.3       | 17.43                      | 49.92                        | 87.83                     | 100.00                    | 160.77                         | 560.73                        | 41.06                          | 565.94                        | 383.69                               | 386.47                               |
| 26-Oct-15 | 13:38:30 | 279.4             | 4.82                   | 1.000        | 2998.0       | 17.43                      | 49.92                        | 88.40                     | 100.00                    | 160.77                         | 560.74                        | 41.06                          | 565.94                        | 383.70                               | 386.48                               |
| 26-Oct-15 | 13:38:35 | 279.1             | 4.82                   | 1.000        | 3000.8       | 17.43                      | 49.93                        | 88.59                     | 100.00                    | 160.77                         | 560.74                        | 41.06                          | 565.94                        | 383.71                               | 386.48                               |
| 26-Oct-15 | 13:38:40 | 279.5             | 4.82                   | 1.000        | 3000.2       | 17.43                      | 49.93                        | 88.33                     | 100.00                    | 160.78                         | 560.75                        | 41.06                          | 565.94                        | 383.71                               | 386.49                               |
| 26-Oct-15 | 13:38:45 | 279.7             | 4.82                   | 1.000        | 3002.4       | 17.43                      | 49.93                        | 88.08                     | 100.00                    | 160.79                         | 560.81                        | 41.06                          | 566.00                        | 383.72                               | 386.49                               |
| 26-Oct-15 | 13:38:50 | 279.5             | 4.82                   | 1.000        | 3002.3       | 17.43                      | 49.93                        | 88.07                     | 100.00                    | 160.80                         | 560.87                        | 41.07                          | 566.07                        | 383.69                               | 386.50                               |
| 26-Oct-15 | 13:38:55 | 279.7             | 4.82                   | 1.000        | 3002.4       | 17.43                      | 49.93                        | 88.05                     | 100.00                    | 160.82                         | 560.93                        | 41.08                          | 566.14                        | 383.70                               | 386.50                               |
| 26-Oct-15 | 13:39:00 | 279.8             | 4.82                   | 1.000        | 2999.2       | 17.43                      | 49.93                        | 88.03                     | 100.00                    | 160.83                         | 560.99                        | 41.08                          | 566.20                        | 383.70                               | 386.51                               |
| 26-Oct-15 | 13:39:05 | 279.8             | 4.76                   | 1.000        | 2995.8       | 17.43                      | 49.93                        | 88.01                     | 100.00                    | 160.84                         | 561.05                        | 41.09                          | 566.27                        | 383.70                               | 386.52                               |
| 26-Oct-15 | 13:39:10 | 279.8             | 4.53                   | 1.000        | 2998.1       | 17.43                      | 49.95                        | 88.02                     | 100.00                    | 160.86                         | 561.11                        | 41.10                          | 566.33                        | 383.71                               | 386.53                               |
| 26-Oct-15 | 13:39:15 | 279.1             | 4.30                   | 1.000        | 3001.4       | 17.43                      | 49.96                        | 88.58                     | 100.00                    | 160.87                         | 561.17                        | 41.10                          | 566.40                        | 383.71                               | 386.53                               |
| 26-Oct-15 | 13:39:20 | 279.6             | 4.21                   | 1.000        | 3002.1       | 17.43                      | 49.98                        | 87.92                     | 100.00                    | 160.88                         | 561.23                        | 41.11                          | 566.43                        | 383.72                               | 386.54                               |
| 26-Oct-15 | 13:39:25 | 280.0             | 4.28                   | 1.000        | 3000.2       | 17.43                      | 49.97                        | 87.52                     | 100.00                    | 160.90                         | 561.29                        | 41.11                          | 566.47                        | 383.72                               | 386.55                               |
| 26-Oct-15 | 13:39:30 | 280.1             | 4.35                   | 1.000        | 3003.1       | 17.43                      | 49.96                        | 87.34                     | 100.00                    | 160.91                         | 561.32                        | 41.11                          | 566.50                        | 383.73                               | 386.56                               |
| 26-Oct-15 | 13:39:35 | 280.2             | 4.43                   | 1.000        | 3001.6       | 17.43                      | 49.95                        | 87.17                     | 100.00                    | 160.92                         | 561.32                        | 41.11                          | 566.53                        | 383.69                               | 386.56                               |
| 26-Oct-15 | 13:39:40 | 280.3             | 4.50                   | 1.000        | 3000.4       | 17.43                      | 49.94                        | 86.99                     | 100.00                    | 160.93                         | 561.32                        | 41.11                          | 566.57                        | 383.70                               | 386.57                               |
| 26-Oct-15 | 13:39:45 | 280.2             | 4.58                   | 1.000        | 2995.5       | 17.43                      | 49.93                        | 87.01                     | 100.00                    | 160.95                         | 561.32                        | 41.11                          | 566.60                        | 383.72                               | 386.57                               |
| 26-Oct-15 | 13:39:50 | 279.9             | 4.65                   | 1.000        | 2997.0       | 17.42                      | 49.89                        | 87.28                     | 100.00                    | 160.96                         | 561.32                        | 41.11                          | 566.63                        | 383.73                               | 386.58                               |
| 26-Oct-15 | 13:39:55 | 279.7             | 4.72                   | 1.000        | 2998.5       | 17.42                      | 49.87                        | 87.15                     | 100.00                    | 160.97                         | 561.32                        | 41.11                          | 566.67                        | 383.73                               | 386.58                               |
| 26-Oct-15 | 13:40:00 | 280.1             | 4.80                   | 1.000        | 2994.8       | 17.42                      | 49.85                        | 86.95                     | 100.00                    | 160.99                         | 561.32                        | 41.11                          | 566.70                        | 383.73                               | 386.59                               |
| 26-Oct-15 | 13:40:05 | 280.5             | 4.87                   | 1.000        | 2993.1       | 17.42                      | 49.84                        | 86.75                     | 100.00                    | 161.00                         | 561.32                        | 41.11                          | 566.73                        | 383.73                               | 386.59                               |
| 26-Oct-15 | 13:40:10 | 280.3             | 4.94                   | 1.000        | 2992.0       | 17.42                      | 49.83                        | 86.66                     | 100.00                    | 161.01                         | 561.32                        | 41.11                          | 566.77                        | 383.74                               | 386.59                               |
| 26-Oct-15 | 13:40:15 | 280.2             | 5.02                   | 1.000        | 2993.2       | 17.42                      | 49.81                        | 86.87                     | 100.00                    | 161.03                         | 561.32                        | 41.11                          | 566.80                        | 383.76                               | 386.60                               |
| 26-Oct-15 | 13:40:20 | 280.5             | 5.25                   | 1.000        | 2989.7       | 17.42                      | 49.80                        | 86.24                     | 100.00                    | 161.03                         | 561.34                        | 41.11                          | 566.80                        | 383.75                               | 386.62                               |
| 26-Oct-15 | 13:40:25 | 280.2             | 5.66                   | 1.000        | 2987.5       | 17.42                      | 49.78                        | 86.64                     | 100.00                    | 161.03                         | 561.46                        | 41.13                          | 566.83                        | 383.73                               | 386.62                               |
| 26-Oct-15 | 13:40:30 | 280.2             | 6.08                   | 1.000        | 2987.7       | 17.42                      | 49.76                        | 86.76                     | 100.00                    | 161.04                         | 561.56                        | 41.14                          | 566.85                        | 383.77                               | 386.62                               |
| 26-Oct-15 | 13:40:35 | 280.8             | 6.49                   | 1.000        | 2983.5       | 17.42                      | 49.73                        | 86.49                     | 100.00                    | 161.04                         | 561.57                        | 41.14                          | 566.87                        | 383.77                               | 386.63                               |
| 26-Oct-15 | 13:40:40 | 280.8             | 6.81                   | 1.000        | 2986.1       | 17.42                      | 49.78                        | 86.55                     | 100.00                    | 161.04                         | 561.58                        | 41.14                          | 566.90                        | 383.78                               | 386.64                               |
| 26-Oct-15 | 13:40:45 | 279.6             | 7.72                   | 1.000        | 2988.7       | 17.43                      | 49.69                        | 88.09                     | 100.00                    | 161.05                         | 561.59                        | 41.14                          | 566.92                        | 383.78                               | 386.65                               |
| 26-Oct-15 | 13:40:50 | 280.4             | 9.00                   | 0.999        | 2988.6       | 17.46                      | 49.76                        | 87.32                     | 100.00                    | 161.05                         | 561.60                        | 41.14                          | 566.95                        | 383.78                               | 386.65                               |
| 26-Oct-15 | 13:40:55 | 280.7             | 8.29                   | 1.000        | 2989.8       | 17.49                      | 49.77                        | 85.81                     | 100.00                    | 161.05                         | 561.61                        | 41.14                          | 566.97                        | 383.79                               | 386.66                               |
| 26-Oct-15 | 13:41:00 | 280.0             | 7.57                   | 1.000        | 2990.3       | 17.49                      | 49.75                        | 86.71                     | 100.00                    | 161.06                         | 561.62                        | 41.14                          | 566.99                        | 383.79                               | 386.63                               |
| 26-Oct-15 | 13:41:05 | 280.1             | 9.46                   | 0.999        | 2985.4       | 17.50                      | 49.73                        | 86.18                     | 100.00                    | 161.06                         | 561.63                        | 41.15                          | 567.02                        | 383.80                               | 386.65                               |
| 26-Oct-15 | 13:41:10 | 279.7             | 9.95                   | 0.999        | 2983.8       | 17.50                      | 49.71                        | 86.52                     | 100.00                    | 161.06                         | 561.64                        | 41.15                          | 567.04                        | 383.80                               | 386.67                               |
| 26-Oct-15 | 13:41:15 | 279.3             | 10.44                  | 0.999        | 2985.7       | 17.51                      | 49.69                        | 86.86                     | 100.00                    | 161.07                         | 561.65                        | 41.15                          | 567.06                        | 383.80                               | 386.68                               |
| 26-Oct-15 | 13:41:20 | 278.9             | 10.94                  | 0.999        | 2987.9       | 17.51                      | 49.68                        | 87.19                     | 100.00                    | 161.07                         | 561.66                        | 41.15                          | 567.07                        | 383.80                               | 386.69                               |
| 26-Oct-15 | 13:41:25 | 280.1             | 10.58                  | 0.999        | 2988.9       | 17.52                      | 49.78                        | 87.41                     | 100.00                    | 161.07                         | 561.67                        | 41.15                          | 567.07                        | 383.80                               | 386.70                               |
| 26-Oct-15 | 13:41:30 | 280.5             | 9.33                   | 0.999        | 2987.4       | 17.52                      | 49.76                        | 85.78                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.80                               | 386.67                               |
| 26-Oct-15 | 13:41:35 | 280.5             | 9.98                   | 0.999        | 2984.0       | 17.52                      | 49.74                        | 85.88                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.80                               | 386.68                               |
| 26-Oct-15 | 13:41:40 | 280.6             | 10.64                  | 0.999        | 2981.9       | 17.53                      | 49.70                        | 85.96                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.80                               | 386.69                               |
| 26-Oct-15 | 13:41:45 | 280.3             | 11.30                  | 0.999        | 2980.2       | 17.53                      | 49.69                        | 85.91                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.80                               | 386.67                               |
| 26-Oct-15 | 13:41:50 | 280.4             | 11.12                  | 0.999        | 2982.3       | 17.54                      | 49.70                        | 85.87                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.84                               | 386.71                               |
| 26-Oct-15 | 13:41:55 | 279.9             | 10.81                  | 0.999        | 2987.6       | 17.54                      | 49.71                        | 86.31                     | 100.00                    | 161.07                         | 561.68                        | 41.15                          | 567.07                        | 383.81                               | 386.73                               |
| 26-Oct-15 | 13:42:00 | 279.9             | 10.50                  | 0.999        | 2989.3       | 17.54                      | 49.73                        | 85.89                     | 100.00                    | 161.07                         | 561.69                        | 41.15                          | 567.07                        | 383.83                               | 386.74                               |
| 26-Oct-15 | 13:42:05 | 280.5             | 10.18                  | 0.999        | 2987.5       | 17.54                      | 49.74                        | 85.78                     | 100.00                    | 161.11                         | 561.69                        | 41.16                          | 566.96                        | 383.87                               | 386.75                               |
| 26-Oct-15 | 13:42:10 | 280.7             | 9.87                   | 0.999        | 2989.8       | 17.54                      | 49.71                        | 85.38                     | 100.00                    | 161.15                         | 561.53                        | 41.17                          | 566.84                        | 383.81                               | 386.76                               |
| 26-Oct-15 | 13:42:15 | 280.5             | 9.55                   | 0.999        | 2991.2       | 17.54                      | 49.70                        | 86.18                     | 100.00                    | 161.18                         | 561.46                        | 41.18                          | 566.73                        | 383.81                               | 386.76                               |
| 26-Oct-15 | 13:42:20 | 280.9             | 9.32                   | 0.999        | 2984.0       | 17.54                      | 49.69                        | 84.79                     | 100.00                    | 161.21                         | 561.39                        | 41.18                          | 566.69                        | 383.84                               | 386.77                               |
| 26-Oct-15 | 13:42:25 | 280.2             | 9.97                   | 0.999        | 2986.6       | 17.54                      | 49.68                        | 85.55                     | 100.00                    | 161.23                         | 561.32                        | 41.19                          | 566.68                        | 383.81                               | 386.78                               |
| 26-Oct-15 | 13:42:30 | 279.9             | 11.01                  | 0.999        | 2989.1       | 17.54                      | 49.71                        | 86.27                     | 100.00                    | 161.24                         | 561.27                        | 41.19                          | 566.66                        | 383.84                               | 386.78                               |
| 26-Oct-15 | 13:42:35 | 280.4             | 10.26                  | 0.999        | 2989.7       | 17.54                      | 49.77                        | 86.39                     | 100.00                    | 161.26                         | 561.25                        | 41.19                          | 566.65                        | 383.85                               | 386.80                               |
| 26-Oct-15 | 13:42:40 | 280.9             | 9.52                   | 0.999        | 2987.2       | 17.54                      | 49.75                        | 84.86                     | 100.00                    | 161.28                         | 561.24                        | 41.20                          | 566.63                        | 383.85                               | 386.82                               |
| 26-Oct-15 | 13:42:45 | 280.8             | 12.18                  | 0.999        | 2983.6       | 17.55                      | 49.70                        | 84.64                     | 100.00                    | 161.30                         | 561.23                        | 41.20                          | 566.62                        | 383.86                               | 386.83                               |
| 26-Oct-15 | 13:42:50 | 279.4             | 15.96                  | 0.998        | 2988.2       | 17.55                      | 49.72                        | 87.05                     | 100.00                    | 161.31                         | 561.22                        | 41.20                          | 566.60                        | 383.86                               | 386.85                               |
| 26-Oct-15 | 13:42:55 | 280.8             | 13.61                  | 0.999        | 2988.2       | 17.55                      | 49.78                        | 86.14                     | 100.00                    | 161.33                         | 561.21                        | 41.20                          | 566.58                        | 383.86                               | 386.86                               |
| 26-Oct-15 | 13:43:00 | 280.8             | 11.81                  | 0.999        | 2988.9       | 17.54                      | 49.77                        | 85.24                     | 100.00                    | 161.35                         | 561.20                        | 41.21                          | 566.57                        | 383.87                               | 386.88                               |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:47:10 | 281.2             | 12.49                  | 0.999        | 2995.8       | 17.55                      | 49.89                        | 84.98                     | 100.00                    | 162.26                         | 561.30                        | 41.37                          | 566.25                        | 384.06                               | 387.19                               |
| 26-Oct-15 | 13:47:15 | 281.4             | 12.49                  | 0.999        | 2996.7       | 17.55                      | 49.87                        | 85.36                     | 100.00                    | 162.26                         | 561.27                        | 41.37                          | 566.17                        | 384.06                               | 387.17                               |
| 26-Oct-15 | 13:47:20 | 281.4             | 12.49                  | 0.999        | 2997.6       | 17.55                      | 49.86                        | 85.65                     | 100.00                    | 162.25                         | 561.24                        | 41.37                          | 566.11                        | 384.07                               | 387.16                               |
| 26-Oct-15 | 13:47:25 | 281.4             | 12.48                  | 0.999        | 2998.5       | 17.55                      | 49.86                        | 85.43                     | 100.00                    | 162.24                         | 561.21                        | 41.37                          | 566.09                        | 384.07                               | 387.19                               |
| 26-Oct-15 | 13:47:30 | 281.0             | 12.45                  | 0.999        | 2999.3       | 17.54                      | 49.89                        | 85.78                     | 100.00                    | 162.24                         | 561.18                        | 41.37                          | 566.07                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:47:35 | 280.9             | 12.41                  | 0.999        | 2999.5       | 17.54                      | 49.91                        | 85.72                     | 100.00                    | 162.23                         | 561.13                        | 41.37                          | 566.05                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:47:40 | 281.2             | 12.38                  | 0.999        | 2999.6       | 17.54                      | 49.92                        | 85.07                     | 100.00                    | 162.22                         | 561.08                        | 41.37                          | 566.04                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:47:45 | 281.2             | 12.34                  | 0.999        | 2999.8       | 17.54                      | 49.92                        | 85.38                     | 100.00                    | 162.21                         | 561.03                        | 41.37                          | 566.02                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:47:50 | 281.2             | 12.31                  | 0.999        | 3000.2       | 17.54                      | 49.92                        | 85.56                     | 100.00                    | 162.21                         | 560.98                        | 41.37                          | 566.00                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:47:55 | 281.4             | 12.27                  | 0.999        | 3000.0       | 17.54                      | 49.93                        | 85.34                     | 100.00                    | 162.20                         | 560.93                        | 41.37                          | 565.98                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:00 | 281.5             | 12.24                  | 0.999        | 2999.4       | 17.54                      | 49.94                        | 85.29                     | 100.00                    | 162.20                         | 560.88                        | 41.37                          | 565.97                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:05 | 281.6             | 12.20                  | 0.999        | 3001.8       | 17.54                      | 49.94                        | 85.46                     | 100.00                    | 162.20                         | 560.83                        | 41.37                          | 565.95                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:10 | 281.7             | 12.00                  | 0.999        | 3000.0       | 17.53                      | 49.95                        | 85.64                     | 100.00                    | 162.20                         | 560.78                        | 41.37                          | 565.93                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:15 | 281.6             | 11.77                  | 0.999        | 2997.4       | 17.53                      | 49.95                        | 85.81                     | 100.00                    | 162.20                         | 560.73                        | 41.37                          | 565.91                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:20 | 281.0             | 11.54                  | 0.999        | 3001.5       | 17.53                      | 49.96                        | 85.99                     | 100.00                    | 162.20                         | 560.68                        | 41.37                          | 565.90                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:25 | 281.1             | 11.31                  | 0.999        | 3003.8       | 17.53                      | 49.96                        | 85.49                     | 100.00                    | 162.20                         | 560.63                        | 41.37                          | 565.90                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:30 | 281.2             | 11.08                  | 0.999        | 3005.1       | 17.53                      | 50.00                        | 85.47                     | 100.00                    | 162.20                         | 560.58                        | 41.37                          | 565.90                        | 384.06                               | 387.21                               |
| 26-Oct-15 | 13:48:35 | 281.2             | 10.85                  | 0.999        | 3006.5       | 17.52                      | 50.02                        | 84.98                     | 100.00                    | 162.20                         | 560.57                        | 41.37                          | 565.90                        | 384.04                               | 387.23                               |
| 26-Oct-15 | 13:48:40 | 280.8             | 10.62                  | 0.999        | 3007.7       | 17.52                      | 50.02                        | 85.98                     | 100.00                    | 162.19                         | 560.56                        | 41.37                          | 565.90                        | 384.06                               | 387.20                               |
| 26-Oct-15 | 13:48:45 | 281.1             | 10.39                  | 0.999        | 3003.2       | 17.52                      | 50.02                        | 85.98                     | 100.00                    | 162.17                         | 560.48                        | 41.37                          | 565.81                        | 384.05                               | 387.20                               |
| 26-Oct-15 | 13:48:50 | 281.1             | 10.22                  | 0.999        | 3003.5       | 17.52                      | 50.02                        | 85.22                     | 100.00                    | 162.15                         | 560.40                        | 41.36                          | 565.71                        | 384.07                               | 387.20                               |
| 26-Oct-15 | 13:48:55 | 280.7             | 10.22                  | 0.999        | 3004.2       | 17.51                      | 50.02                        | 85.84                     | 100.00                    | 162.13                         | 560.33                        | 41.36                          | 565.62                        | 384.04                               | 387.20                               |
| 26-Oct-15 | 13:49:00 | 280.7             | 10.22                  | 0.999        | 3009.6       | 17.51                      | 50.02                        | 85.82                     | 100.00                    | 162.11                         | 560.25                        | 41.35                          | 565.52                        | 384.03                               | 387.20                               |
| 26-Oct-15 | 13:49:05 | 280.6             | 10.22                  | 0.999        | 3010.4       | 17.51                      | 50.02                        | 85.58                     | 100.00                    | 162.09                         | 560.17                        | 41.35                          | 565.42                        | 384.03                               | 387.20                               |
| 26-Oct-15 | 13:49:10 | 281.0             | 10.20                  | 0.999        | 3013.9       | 17.51                      | 50.09                        | 85.35                     | 100.00                    | 162.06                         | 560.10                        | 41.34                          | 565.33                        | 384.02                               | 387.20                               |
| 26-Oct-15 | 13:49:15 | 281.2             | 10.17                  | 0.999        | 3014.4       | 17.51                      | 50.12                        | 85.11                     | 100.00                    | 162.04                         | 560.02                        | 41.34                          | 565.23                        | 384.02                               | 387.20                               |
| 26-Oct-15 | 13:49:20 | 281.6             | 10.15                  | 0.999        | 3010.4       | 17.51                      | 50.08                        | 85.15                     | 100.00                    | 162.01                         | 559.94                        | 41.34                          | 565.17                        | 384.01                               | 387.20                               |
| 26-Oct-15 | 13:49:25 | 281.5             | 10.13                  | 0.999        | 3006.6       | 17.51                      | 50.02                        | 85.74                     | 100.00                    | 161.99                         | 559.86                        | 41.33                          | 565.15                        | 384.01                               | 387.20                               |
| 26-Oct-15 | 13:49:30 | 280.8             | 10.11                  | 0.999        | 3005.9       | 17.51                      | 50.03                        | 86.30                     | 100.00                    | 161.96                         | 559.79                        | 41.33                          | 565.12                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:49:35 | 280.4             | 10.09                  | 0.999        | 3006.1       | 17.51                      | 50.05                        | 86.84                     | 100.00                    | 161.94                         | 559.77                        | 41.32                          | 565.09                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:49:40 | 280.3             | 10.07                  | 0.999        | 3010.9       | 17.51                      | 50.07                        | 86.62                     | 100.00                    | 161.91                         | 559.77                        | 41.32                          | 565.06                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:49:45 | 280.7             | 10.05                  | 0.999        | 3011.8       | 17.51                      | 50.11                        | 86.14                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 565.03                        | 384.02                               | 387.20                               |
| 26-Oct-15 | 13:49:50 | 280.6             | 10.16                  | 0.999        | 3011.5       | 17.51                      | 50.09                        | 86.05                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 565.00                        | 384.02                               | 387.20                               |
| 26-Oct-15 | 13:49:55 | 281.1             | 10.65                  | 0.999        | 3007.1       | 17.51                      | 50.07                        | 85.75                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 564.97                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:50:00 | 281.8             | 11.14                  | 0.999        | 3001.1       | 17.51                      | 50.03                        | 84.92                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 564.94                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:50:05 | 280.7             | 11.64                  | 0.999        | 3001.8       | 17.51                      | 50.01                        | 86.28                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 564.91                        | 384.00                               | 387.20                               |
| 26-Oct-15 | 13:50:10 | 280.3             | 12.00                  | 0.999        | 3005.8       | 17.51                      | 50.02                        | 86.97                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 564.88                        | 383.99                               | 387.21                               |
| 26-Oct-15 | 13:50:15 | 280.3             | 12.00                  | 0.999        | 3009.3       | 17.51                      | 50.03                        | 87.12                     | 100.00                    | 161.91                         | 559.77                        | 41.31                          | 564.85                        | 383.99                               | 387.23                               |
| 26-Oct-15 | 13:50:20 | 280.4             | 12.00                  | 0.999        | 3007.8       | 17.51                      | 50.05                        | 87.26                     | 100.00                    | 161.92                         | 559.75                        | 41.31                          | 564.83                        | 383.98                               | 387.22                               |
| 26-Oct-15 | 13:50:25 | 280.5             | 12.00                  | 0.999        | 3011.1       | 17.51                      | 50.07                        | 87.40                     | 100.00                    | 161.93                         | 559.64                        | 41.31                          | 564.83                        | 383.98                               | 387.21                               |
| 26-Oct-15 | 13:50:30 | 281.0             | 12.00                  | 0.999        | 3010.2       | 17.51                      | 50.10                        | 86.58                     | 100.00                    | 161.93                         | 559.53                        | 41.30                          | 564.83                        | 383.97                               | 387.21                               |
| 26-Oct-15 | 13:50:35 | 280.8             | 12.00                  | 0.999        | 3009.3       | 17.51                      | 50.08                        | 87.28                     | 100.00                    | 161.96                         | 559.48                        | 41.30                          | 564.83                        | 383.97                               | 387.23                               |
| 26-Oct-15 | 13:50:40 | 281.0             | 12.00                  | 0.999        | 3007.2       | 17.51                      | 50.07                        | 86.60                     | 100.00                    | 161.98                         | 559.47                        | 41.30                          | 564.83                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:50:45 | 280.9             | 11.90                  | 0.999        | 3003.3       | 17.52                      | 50.06                        | 86.80                     | 100.00                    | 161.97                         | 559.45                        | 41.30                          | 564.83                        | 383.96                               | 387.21                               |
| 26-Oct-15 | 13:50:50 | 280.6             | 11.51                  | 0.999        | 3004.0       | 17.52                      | 50.08                        | 87.20                     | 100.00                    | 161.95                         | 559.43                        | 41.30                          | 564.83                        | 383.96                               | 387.23                               |
| 26-Oct-15 | 13:50:55 | 280.1             | 11.12                  | 0.999        | 3008.0       | 17.52                      | 50.10                        | 87.80                     | 100.00                    | 161.92                         | 559.41                        | 41.29                          | 564.83                        | 383.99                               | 387.22                               |
| 26-Oct-15 | 13:51:00 | 280.3             | 10.72                  | 0.999        | 3018.3       | 17.53                      | 50.13                        | 88.09                     | 100.00                    | 161.90                         | 559.39                        | 41.28                          | 564.83                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:05 | 280.6             | 10.33                  | 0.999        | 3015.7       | 17.53                      | 50.15                        | 87.41                     | 100.00                    | 161.87                         | 559.38                        | 41.28                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:10 | 280.4             | 10.09                  | 0.999        | 3011.2       | 17.53                      | 50.14                        | 87.25                     | 100.00                    | 161.84                         | 559.36                        | 41.27                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:15 | 280.3             | 10.28                  | 0.999        | 3014.0       | 17.53                      | 50.12                        | 87.44                     | 100.00                    | 161.82                         | 559.34                        | 41.26                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:20 | 280.1             | 10.48                  | 0.999        | 3012.7       | 17.53                      | 50.11                        | 87.83                     | 100.00                    | 161.79                         | 559.32                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:25 | 280.2             | 10.67                  | 0.999        | 3013.7       | 17.54                      | 50.15                        | 88.21                     | 100.00                    | 161.79                         | 559.31                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:30 | 280.4             | 10.86                  | 0.999        | 3018.8       | 17.54                      | 50.19                        | 88.50                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:35 | 280.3             | 11.06                  | 0.999        | 3019.1       | 17.54                      | 50.21                        | 88.04                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:40 | 280.3             | 11.25                  | 0.999        | 3019.2       | 17.54                      | 50.20                        | 88.02                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:45 | 280.5             | 11.45                  | 0.999        | 3021.6       | 17.54                      | 50.19                        | 87.91                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:50 | 280.1             | 11.64                  | 0.999        | 3020.8       | 17.54                      | 50.18                        | 87.81                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:51:55 | 280.5             | 11.83                  | 0.999        | 3021.5       | 17.54                      | 50.17                        | 87.55                     | 100.00                    | 161.79                         | 559.29                        | 41.25                          | 564.84                        | 383.96                               | 387.20                               |
| 26-Oct-15 | 13:52:00 | 281.4             | 13.25                  | 0.999        | 3012.8       | 17.55                      | 50.16                        | 86.44                     | 100.00                    | 161.78                         | 559.28                        | 41.25                          | 564.84                        | 383.92                               | 387.19                               |
| 26-Oct-15 | 13:52:05 | 280.3             | 13.34                  | 0.999        | 3011.1       | 17.55                      | 50.17                        | 88.42                     | 100.00                    | 161.75                         | 559.27                        | 41.25                          | 564.82                        | 383.96                               | 387.19                               |
| 26-Oct-15 | 13:52:10 | 280.3             | 12.64                  | 0.999        | 3013.6       | 17.55                      | 50.19                        | 88.27                     | 100.00                    | 161.72                         | 559.25                        | 41.26                          | 564.80                        | 383.96                               | 387.19                               |
| 26-Oct-15 | 13:52:15 | 280.1             | 11.98                  | 0.999        | 3015.0       | 17.55                      | 50.20                        | 88.03                     | 100.00                    | 161.69                         | 559.24                        | 41.26                          | 564.79                        | 383.97                               | 387.18                               |
| 26-Oct-15 | 13:52:20 | 280.5             | 11.98                  | 0.999        | 3015.1       | 17.55                      | 50.21                        | 87.78                     | 100.00                    | 161.65                         | 559.22                        | 41.26                          | 564.79                        | 383.97                               | 387.18                               |
| 26-Oct-15 | 13:52:25 | 280.6             | 12.02                  | 0.999        | 3015.1       | 17.54                      | 50.21                        | 87.65                     | 100.00                    | 161.64                         | 559.21                        | 41.27                          | 564.83                        | 383.97                               | 387.18                               |
| 26-Oct-15 | 13:52:30 | 280.4             | 12.17                  | 0.999        | 3015.2       | 17.54                      | 50.20                        | 87.64                     | 100.00                    | 161.63                         | 559.19                        | 41.27                          | 564.88                        | 383.97                               | 387.18                               |
| 26-Oct-15 | 13:52:35 | 280.4             | 12.31                  | 0.999        | 3015.2       | 17.53                      | 50.19                        | 87.63                     | 100.00                    | 161.62                         | 559.20                        | 41.26                          | 564.92                        | 383.98                               | 387.17                               |
| 26-Oct-15 | 13:52:40 | 280.7             | 12.46                  | 0.999        | 3013.4       | 17.52                      | 50.18                        | 87.63                     | 100.00                    | 161.60                         | 559.21                        | 41.26                          | 564.96                        | 383.98                               | 387.17                               |
| 26-Oct-15 | 13:52:45 | 280.7             | 12.61                  | 0.999        | 3011.8       | 17.51                      | 50.17                        | 87.62                     | 100.00                    | 161.59                         | 559.23                        | 41.26                          | 565.00                        | 383.98                               | 387.17                               |
| 26-Oct-15 | 13:52:50 | 280.7             | 12.76                  | 0.999        | 3009.9       | 17.50                      | 50.14                        | 87.81                     | 100.00                    | 161.58                         |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 13:57:00 | 279.5             | 9.65                   | 0.999        | 3011.1       | 17.48                      | 50.15                        | 87.51                     | 100.00                    | 160.94                         | 559.23                        | 41.08                          | 565.58                        | 383.95                               | 387.40                               |
| 26-Oct-15 | 13:57:05 | 279.7             | 9.41                   | 0.999        | 3011.1       | 17.48                      | 50.15                        | 87.71                     | 100.00                    | 160.95                         | 559.29                        | 41.08                          | 565.69                        | 383.96                               | 387.41                               |
| 26-Oct-15 | 13:57:10 | 279.9             | 9.16                   | 0.999        | 3013.6       | 17.48                      | 50.16                        | 87.35                     | 100.00                    | 160.95                         | 559.35                        | 41.09                          | 565.81                        | 383.97                               | 387.42                               |
| 26-Oct-15 | 13:57:15 | 279.7             | 8.98                   | 0.999        | 3014.6       | 17.48                      | 50.16                        | 87.00                     | 100.00                    | 160.95                         | 559.41                        | 41.09                          | 565.93                        | 383.97                               | 387.40                               |
| 26-Oct-15 | 13:57:20 | 280.1             | 8.98                   | 0.999        | 3014.0       | 17.48                      | 50.16                        | 86.98                     | 100.00                    | 160.96                         | 559.47                        | 41.09                          | 566.04                        | 383.97                               | 387.41                               |
| 26-Oct-15 | 13:57:25 | 279.8             | 10.24                  | 0.999        | 3014.1       | 17.48                      | 50.17                        | 87.43                     | 100.00                    | 160.96                         | 559.53                        | 41.10                          | 566.09                        | 383.98                               | 387.43                               |
| 26-Oct-15 | 13:57:30 | 279.9             | 9.38                   | 0.999        | 3013.8       | 17.48                      | 50.18                        | 87.24                     | 100.00                    | 160.96                         | 559.59                        | 41.10                          | 566.14                        | 383.98                               | 387.45                               |
| 26-Oct-15 | 13:57:35 | 280.4             | 10.69                  | 0.999        | 3012.7       | 17.48                      | 50.19                        | 86.87                     | 100.00                    | 160.97                         | 559.64                        | 41.11                          | 566.18                        | 383.99                               | 387.46                               |
| 26-Oct-15 | 13:57:40 | 279.8             | 10.22                  | 0.999        | 3014.0       | 17.48                      | 50.20                        | 87.27                     | 100.00                    | 160.97                         | 559.68                        | 41.11                          | 566.22                        | 384.00                               | 387.45                               |
| 26-Oct-15 | 13:57:45 | 279.6             | 9.95                   | 0.999        | 3018.4       | 17.48                      | 50.21                        | 87.54                     | 100.00                    | 160.98                         | 559.72                        | 41.11                          | 566.27                        | 384.00                               | 387.47                               |
| 26-Oct-15 | 13:57:50 | 280.0             | 9.58                   | 0.999        | 3014.9       | 17.48                      | 50.20                        | 86.86                     | 100.00                    | 161.00                         | 559.76                        | 41.12                          | 566.31                        | 384.01                               | 387.48                               |
| 26-Oct-15 | 13:57:55 | 280.2             | 9.21                   | 0.999        | 3011.7       | 17.48                      | 50.18                        | 86.43                     | 100.00                    | 161.02                         | 559.80                        | 41.12                          | 566.36                        | 384.02                               | 387.48                               |
| 26-Oct-15 | 13:58:00 | 279.9             | 8.84                   | 1.000        | 3012.8       | 17.48                      | 50.17                        | 86.96                     | 100.00                    | 161.04                         | 559.84                        | 41.12                          | 566.40                        | 384.03                               | 387.49                               |
| 26-Oct-15 | 13:58:05 | 279.9             | 9.01                   | 0.999        | 3015.0       | 17.49                      | 50.20                        | 87.34                     | 100.00                    | 161.06                         | 559.88                        | 41.12                          | 566.45                        | 384.03                               | 387.49                               |
| 26-Oct-15 | 13:58:10 | 280.4             | 9.82                   | 0.999        | 3015.1       | 17.49                      | 50.22                        | 86.59                     | 100.00                    | 161.08                         | 559.92                        | 41.12                          | 566.49                        | 384.01                               | 387.50                               |
| 26-Oct-15 | 13:58:15 | 280.6             | 10.57                  | 0.999        | 3015.2       | 17.49                      | 50.22                        | 86.30                     | 100.00                    | 161.11                         | 559.96                        | 41.12                          | 566.54                        | 384.03                               | 387.50                               |
| 26-Oct-15 | 13:58:20 | 280.3             | 10.23                  | 0.999        | 3015.2       | 17.49                      | 50.22                        | 86.78                     | 100.00                    | 161.13                         | 560.00                        | 41.12                          | 566.58                        | 384.03                               | 387.50                               |
| 26-Oct-15 | 13:58:25 | 279.8             | 9.89                   | 0.999        | 3020.8       | 17.49                      | 50.22                        | 86.83                     | 100.00                    | 161.15                         | 560.05                        | 41.12                          | 566.58                        | 384.03                               | 387.50                               |
| 26-Oct-15 | 13:58:30 | 280.8             | 9.55                   | 0.999        | 3014.8       | 17.49                      | 50.22                        | 85.96                     | 100.00                    | 161.17                         | 560.09                        | 41.12                          | 566.58                        | 384.04                               | 387.51                               |
| 26-Oct-15 | 13:58:35 | 280.6             | 9.21                   | 0.999        | 3011.8       | 17.49                      | 50.22                        | 86.35                     | 100.00                    | 161.18                         | 560.11                        | 41.12                          | 566.58                        | 384.05                               | 387.53                               |
| 26-Oct-15 | 13:58:40 | 280.3             | 8.87                   | 0.999        | 3015.2       | 17.49                      | 50.22                        | 86.62                     | 100.00                    | 161.18                         | 560.12                        | 41.12                          | 566.58                        | 384.05                               | 387.54                               |
| 26-Oct-15 | 13:58:45 | 280.5             | 8.69                   | 1.000        | 3015.0       | 17.49                      | 50.22                        | 86.72                     | 100.00                    | 161.20                         | 560.15                        | 41.15                          | 566.62                        | 384.06                               | 387.55                               |
| 26-Oct-15 | 13:58:50 | 280.7             | 8.69                   | 1.000        | 3015.1       | 17.49                      | 50.22                        | 85.86                     | 100.00                    | 161.22                         | 560.18                        | 41.17                          | 566.66                        | 384.07                               | 387.55                               |
| 26-Oct-15 | 13:58:55 | 280.4             | 8.69                   | 1.000        | 3016.9       | 17.49                      | 50.22                        | 86.45                     | 100.00                    | 161.24                         | 560.22                        | 41.18                          | 566.70                        | 384.04                               | 387.56                               |
| 26-Oct-15 | 13:59:00 | 280.1             | 8.69                   | 1.000        | 3021.4       | 17.49                      | 50.22                        | 86.66                     | 100.00                    | 161.27                         | 560.25                        | 41.18                          | 566.74                        | 384.07                               | 387.57                               |
| 26-Oct-15 | 13:59:05 | 280.7             | 8.86                   | 1.000        | 3015.1       | 17.49                      | 50.22                        | 86.10                     | 100.00                    | 161.29                         | 560.29                        | 41.19                          | 566.78                        | 384.06                               | 387.58                               |
| 26-Oct-15 | 13:59:10 | 280.4             | 9.52                   | 0.999        | 3016.2       | 17.49                      | 50.22                        | 86.16                     | 100.00                    | 161.31                         | 560.32                        | 41.19                          | 566.82                        | 384.04                               | 387.56                               |
| 26-Oct-15 | 13:59:15 | 280.1             | 10.19                  | 0.999        | 3017.3       | 17.49                      | 50.21                        | 86.32                     | 100.00                    | 161.33                         | 560.35                        | 41.20                          | 566.86                        | 384.07                               | 387.58                               |
| 26-Oct-15 | 13:59:20 | 281.2             | 10.77                  | 0.999        | 3013.6       | 17.49                      | 50.19                        | 85.29                     | 100.00                    | 161.35                         | 560.39                        | 41.20                          | 566.90                        | 384.08                               | 387.60                               |
| 26-Oct-15 | 13:59:25 | 280.8             | 10.03                  | 0.999        | 3012.6       | 17.49                      | 50.18                        | 86.19                     | 100.00                    | 161.37                         | 560.42                        | 41.21                          | 566.92                        | 384.08                               | 387.61                               |
| 26-Oct-15 | 13:59:30 | 279.9             | 9.29                   | 0.999        | 3019.0       | 17.49                      | 50.21                        | 87.10                     | 100.00                    | 161.38                         | 560.45                        | 41.21                          | 566.94                        | 384.09                               | 387.60                               |
| 26-Oct-15 | 13:59:35 | 280.6             | 8.99                   | 0.999        | 3015.5       | 17.49                      | 50.21                        | 86.56                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 566.96                        | 384.09                               | 387.61                               |
| 26-Oct-15 | 13:59:40 | 281.5             | 9.20                   | 0.999        | 3011.5       | 17.48                      | 50.18                        | 86.61                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 566.98                        | 384.10                               | 387.62                               |
| 26-Oct-15 | 13:59:45 | 280.3             | 9.41                   | 0.999        | 3015.1       | 17.48                      | 50.20                        | 86.03                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.00                        | 384.10                               | 387.63                               |
| 26-Oct-15 | 13:59:50 | 280.2             | 9.62                   | 0.999        | 3020.2       | 17.48                      | 50.22                        | 85.79                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.02                        | 384.11                               | 387.64                               |
| 26-Oct-15 | 13:59:55 | 281.0             | 9.82                   | 0.999        | 3020.1       | 17.48                      | 50.21                        | 84.98                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.04                        | 384.11                               | 387.65                               |
| 26-Oct-15 | 14:00:00 | 281.3             | 10.03                  | 0.999        | 3015.6       | 17.48                      | 50.19                        | 84.57                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.06                        | 384.11                               | 387.64                               |
| 26-Oct-15 | 14:00:05 | 281.0             | 10.24                  | 0.999        | 3014.3       | 17.48                      | 50.18                        | 85.38                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.08                        | 384.11                               | 387.66                               |
| 26-Oct-15 | 14:00:10 | 280.8             | 10.45                  | 0.999        | 3015.4       | 17.48                      | 50.19                        | 84.93                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.10                        | 384.11                               | 387.66                               |
| 26-Oct-15 | 14:00:15 | 281.6             | 10.66                  | 0.999        | 3013.8       | 17.48                      | 50.20                        | 84.89                     | 100.00                    | 161.38                         | 560.48                        | 41.22                          | 567.12                        | 384.12                               | 387.67                               |
| 26-Oct-15 | 14:00:20 | 280.7             | 10.82                  | 0.999        | 3015.0       | 17.48                      | 50.21                        | 85.33                     | 100.00                    | 161.39                         | 560.51                        | 41.22                          | 567.14                        | 384.12                               | 387.67                               |
| 26-Oct-15 | 14:00:25 | 280.2             | 10.82                  | 0.999        | 3019.3       | 17.48                      | 50.23                        | 86.54                     | 100.00                    | 161.43                         | 560.65                        | 41.22                          | 567.14                        | 384.13                               | 387.68                               |
| 26-Oct-15 | 14:00:30 | 281.2             | 10.82                  | 0.999        | 3015.2       | 17.48                      | 50.20                        | 84.96                     | 100.00                    | 161.48                         | 560.79                        | 41.22                          | 567.13                        | 384.14                               | 387.68                               |
| 26-Oct-15 | 14:00:35 | 281.1             | 10.82                  | 0.999        | 3015.7       | 17.48                      | 50.18                        | 84.54                     | 100.00                    | 161.52                         | 560.91                        | 41.23                          | 567.12                        | 384.14                               | 387.69                               |
| 26-Oct-15 | 14:00:40 | 280.5             | 10.82                  | 0.999        | 3015.7       | 17.48                      | 50.21                        | 85.23                     | 100.00                    | 161.57                         | 560.90                        | 41.23                          | 567.12                        | 384.15                               | 387.69                               |
| 26-Oct-15 | 14:00:45 | 280.8             | 10.52                  | 0.999        | 3020.2       | 17.48                      | 50.23                        | 84.76                     | 100.00                    | 161.62                         | 560.89                        | 41.23                          | 567.11                        | 384.11                               | 387.70                               |
| 26-Oct-15 | 14:00:50 | 280.7             | 9.39                   | 0.999        | 3021.0       | 17.49                      | 50.25                        | 84.63                     | 100.00                    | 161.66                         | 560.88                        | 41.24                          | 567.10                        | 384.13                               | 387.71                               |
| 26-Oct-15 | 14:00:55 | 280.5             | 9.06                   | 0.999        | 3022.4       | 17.50                      | 50.26                        | 84.94                     | 100.00                    | 161.71                         | 560.87                        | 41.25                          | 567.09                        | 384.15                               | 387.72                               |
| 26-Oct-15 | 14:01:00 | 280.6             | 9.66                   | 0.999        | 3022.8       | 17.51                      | 50.27                        | 85.26                     | 100.00                    | 161.75                         | 560.87                        | 41.25                          | 567.09                        | 384.15                               | 387.73                               |
| 26-Oct-15 | 14:01:05 | 281.1             | 10.26                  | 0.999        | 3022.2       | 17.51                      | 50.26                        | 84.52                     | 100.00                    | 161.79                         | 560.86                        | 41.26                          | 567.08                        | 384.15                               | 387.73                               |
| 26-Oct-15 | 14:01:10 | 281.4             | 10.63                  | 0.999        | 3015.4       | 17.50                      | 50.23                        | 83.76                     | 100.00                    | 161.84                         | 560.85                        | 41.26                          | 567.07                        | 384.15                               | 387.75                               |
| 26-Oct-15 | 14:01:15 | 281.0             | 10.36                  | 0.999        | 3022.2       | 17.50                      | 50.25                        | 84.67                     | 100.00                    | 161.85                         | 560.84                        | 41.27                          | 567.06                        | 384.15                               | 387.76                               |
| 26-Oct-15 | 14:01:20 | 280.7             | 10.09                  | 0.999        | 3022.9       | 17.50                      | 50.27                        | 85.33                     | 100.00                    | 161.85                         | 560.83                        | 41.28                          | 567.06                        | 384.15                               | 387.77                               |
| 26-Oct-15 | 14:01:25 | 280.9             | 9.82                   | 0.999        | 3023.1       | 17.50                      | 50.27                        | 84.87                     | 100.00                    | 161.85                         | 560.83                        | 41.28                          | 567.06                        | 384.15                               | 387.78                               |
| 26-Oct-15 | 14:01:30 | 281.0             | 9.55                   | 0.999        | 3024.6       | 17.50                      | 50.27                        | 84.44                     | 100.00                    | 161.85                         | 560.82                        | 41.28                          | 567.06                        | 384.15                               | 387.79                               |
| 26-Oct-15 | 14:01:35 | 281.1             | 9.28                   | 0.999        | 3024.7       | 17.50                      | 50.26                        | 84.51                     | 100.00                    | 161.85                         | 560.81                        | 41.28                          | 567.06                        | 384.15                               | 387.80                               |
| 26-Oct-15 | 14:01:40 | 281.2             | 9.01                   | 0.999        | 3019.7       | 17.50                      | 50.26                        | 84.58                     | 100.00                    | 161.85                         | 560.81                        | 41.28                          | 567.06                        | 384.15                               | 387.81                               |
| 26-Oct-15 | 14:01:45 | 280.5             | 8.74                   | 1.000        | 3022.1       | 17.50                      | 50.25                        | 84.65                     | 100.00                    | 161.85                         | 560.81                        | 41.28                          | 567.06                        | 384.15                               | 387.81                               |
| 26-Oct-15 | 14:01:50 | 280.8             | 8.65                   | 1.000        | 3023.2       | 17.49                      | 50.25                        | 84.72                     | 100.00                    | 161.85                         | 560.81                        | 41.28                          | 567.06                        | 384.15                               | 387.82                               |
| 26-Oct-15 | 14:01:55 | 281.1             | 8.65                   | 1.000        | 3022.2       | 17.49                      | 50.25                        | 84.79                     | 100.00                    | 161.85                         | 560.81                        | 41.28                          | 567.06                        | 384.16                               | 387.83                               |
| 26-Oct-15 | 14:02:00 | 280.9             | 8.65                   | 1.000        | 3020.0       | 17.49                      | 50.24                        | 84.86                     | 100.00                    | 161.86                         | 560.80                        | 41.28                          | 567.06                        | 384.17                               | 387.84                               |
| 26-Oct-15 | 14:02:05 | 280.8             | 8.65                   | 1.000        | 3022.9       | 17.49                      | 50.24                        | 84.94                     | 100.00                    | 161.92                         | 560.73                        | 41.28                          | 567.06                        | 384.18                               | 387.84                               |
| 26-Oct-15 | 14:02:10 | 281.2             | 8.65                   | 1.000        | 3020.5       | 17.49                      | 50.23                        | 84.29                     | 100.00                    | 161.97                         | 560.66                        | 41.29                          | 567.06                        | 384.18                               | 387.83                               |
| 26-Oct-15 | 14:02:15 | 281.5             | 8.65                   | 1.000        | 3021.1       | 17.49                      | 50.23                        | 84.12                     | 100.00                    | 162.00                         | 560.59                        | 41.30                          | 567.06                        | 384.18                               | 387.85                               |
| 26-Oct-15 | 14:02:20 | 281.2             | 8.65                   | 1.000        | 3016.0       | 17.49                      | 50.22                        | 84.47                     | 100.00                    | 162.00                         | 560.53                        | 41.30                          | 567.06                        | 384.15                               | 387.86                               |
| 26-Oct-15 | 14:02:25 | 280.6             | 8.60                   | 1.000        | 3018.4       | 17.49                      | 50.22                        | 84.91                     | 100.00                    | 162.00                         | 560.46                        | 41.31                          | 567.06                        | 384.18                               | 387.86                               |
| 26-Oct-15 | 14:02:30 | 280.5             | 8.43                   | 1.000        | 3022.0       | 17.49                      | 50.22                        | 85.18                     | 100.00                    | 162.00                         | 560.39                        | 41.31                          | 567.06                        | 384.17                               | 387.87                               |
| 26-Oct-15 | 14:02:35 | 281.0             | 8.25                   | 1.000        | 3019.9       | 17.49                      | 50.21                        | 84.39                     | 100.00                    | 162.00                         | 560.33                        | 41.31                          | 567.06                        | 384.18                               | 387.88                               |
| 26-Oct-15 | 14:02:40 | 280.9             | 8.07                   | 1.000        | 3020.0       | 17.49                      | 50.20                        | 84.16                     | 100.00                    | 162.00                         | 560.27                        | 41.31                          | 567.06                        | 384.18                               | 387                                  |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 14:06:50 | 280.8             | 7.55                   | 1.000        | 3023.1       | 17.49                      | 50.30                        | 86.04                     | 100.00                    | 161.78                         | 558.91                        | 41.24                          | 565.16                        | 384.11                               | 388.05                               |
| 26-Oct-15 | 14:06:55 | 280.6             | 7.44                   | 1.000        | 3022.8       | 17.49                      | 50.30                        | 86.60                     | 100.00                    | 161.78                         | 558.91                        | 41.24                          | 565.16                        | 384.11                               | 388.05                               |
| 26-Oct-15 | 14:07:00 | 281.2             | 7.44                   | 1.000        | 3019.9       | 17.49                      | 50.28                        | 85.96                     | 100.00                    | 161.81                         | 558.91                        | 41.24                          | 565.16                        | 384.12                               | 388.06                               |
| 26-Oct-15 | 14:07:05 | 281.1             | 7.44                   | 1.000        | 3015.0       | 17.49                      | 50.26                        | 85.96                     | 100.00                    | 161.89                         | 558.94                        | 41.25                          | 565.26                        | 384.12                               | 388.07                               |
| 26-Oct-15 | 14:07:10 | 280.9             | 7.44                   | 1.000        | 3016.9       | 17.49                      | 50.26                        | 86.32                     | 100.00                    | 161.88                         | 558.97                        | 41.26                          | 565.35                        | 384.12                               | 388.08                               |
| 26-Oct-15 | 14:07:15 | 280.5             | 7.44                   | 1.000        | 3019.5       | 17.49                      | 50.26                        | 86.89                     | 100.00                    | 161.86                         | 559.00                        | 41.27                          | 565.45                        | 384.12                               | 388.09                               |
| 26-Oct-15 | 14:07:20 | 280.3             | 7.44                   | 1.000        | 3021.0       | 17.49                      | 50.26                        | 86.67                     | 100.00                    | 161.85                         | 559.03                        | 41.27                          | 565.55                        | 384.13                               | 388.10                               |
| 26-Oct-15 | 14:07:25 | 280.7             | 7.48                   | 1.000        | 3021.7       | 17.49                      | 50.25                        | 86.19                     | 100.00                    | 161.84                         | 559.05                        | 41.27                          | 565.60                        | 384.13                               | 388.11                               |
| 26-Oct-15 | 14:07:30 | 280.6             | 7.64                   | 1.000        | 3019.3       | 17.50                      | 50.24                        | 86.15                     | 100.00                    | 161.83                         | 559.08                        | 41.27                          | 565.62                        | 384.13                               | 388.11                               |
| 26-Oct-15 | 14:07:35 | 280.9             | 7.80                   | 1.000        | 3015.6       | 17.50                      | 50.23                        | 86.36                     | 100.00                    | 161.81                         | 559.11                        | 41.27                          | 565.64                        | 384.13                               | 388.09                               |
| 26-Oct-15 | 14:07:40 | 280.8             | 7.96                   | 1.000        | 3015.1       | 17.50                      | 50.21                        | 86.57                     | 100.00                    | 161.80                         | 559.12                        | 41.27                          | 565.67                        | 384.14                               | 388.11                               |
| 26-Oct-15 | 14:07:45 | 280.7             | 8.12                   | 1.000        | 3015.3       | 17.51                      | 50.21                        | 86.79                     | 100.00                    | 161.79                         | 559.12                        | 41.27                          | 565.69                        | 384.14                               | 388.11                               |
| 26-Oct-15 | 14:07:50 | 280.6             | 8.28                   | 1.000        | 3015.4       | 17.51                      | 50.22                        | 87.00                     | 100.00                    | 161.77                         | 559.12                        | 41.27                          | 565.71                        | 384.14                               | 388.11                               |
| 26-Oct-15 | 14:07:55 | 280.3             | 8.44                   | 1.000        | 3019.3       | 17.51                      | 50.23                        | 86.49                     | 100.00                    | 161.76                         | 559.12                        | 41.26                          | 565.73                        | 384.14                               | 388.11                               |
| 26-Oct-15 | 14:08:00 | 280.5             | 8.51                   | 1.000        | 3019.3       | 17.51                      | 50.24                        | 85.96                     | 100.00                    | 161.75                         | 559.12                        | 41.26                          | 565.76                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:05 | 280.6             | 8.47                   | 1.000        | 3020.2       | 17.51                      | 50.25                        | 85.80                     | 100.00                    | 161.75                         | 559.12                        | 41.26                          | 565.78                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:10 | 280.7             | 8.44                   | 1.000        | 3020.5       | 17.51                      | 50.25                        | 85.63                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.80                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:15 | 280.8             | 8.40                   | 1.000        | 3020.6       | 17.51                      | 50.23                        | 85.46                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.82                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:20 | 280.9             | 8.37                   | 1.000        | 3013.9       | 17.51                      | 50.22                        | 85.29                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.85                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:25 | 281.2             | 8.33                   | 1.000        | 3011.5       | 17.50                      | 50.20                        | 85.12                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.87                        | 384.15                               | 388.11                               |
| 26-Oct-15 | 14:08:30 | 280.8             | 8.30                   | 1.000        | 3013.1       | 17.50                      | 50.16                        | 86.06                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.87                        | 384.16                               | 388.12                               |
| 26-Oct-15 | 14:08:35 | 280.1             | 8.26                   | 1.000        | 3015.0       | 17.50                      | 50.18                        | 86.90                     | 100.00                    | 161.75                         | 559.13                        | 41.26                          | 565.87                        | 384.18                               | 388.13                               |
| 26-Oct-15 | 14:08:40 | 280.3             | 8.23                   | 1.000        | 3015.0       | 17.50                      | 50.20                        | 87.03                     | 100.00                    | 161.74                         | 559.13                        | 41.26                          | 565.87                        | 384.17                               | 388.14                               |
| 26-Oct-15 | 14:08:45 | 280.3             | 8.19                   | 1.000        | 3015.0       | 17.50                      | 50.20                        | 87.03                     | 100.00                    | 161.70                         | 559.10                        | 41.26                          | 565.88                        | 384.19                               | 388.14                               |
| 26-Oct-15 | 14:08:50 | 280.3             | 8.16                   | 1.000        | 3014.1       | 17.50                      | 50.20                        | 86.80                     | 100.00                    | 161.65                         | 559.07                        | 41.26                          | 565.88                        | 384.19                               | 388.13                               |
| 26-Oct-15 | 14:08:55 | 280.7             | 8.13                   | 1.000        | 3012.7       | 17.49                      | 50.20                        | 86.43                     | 100.00                    | 161.61                         | 559.04                        | 41.26                          | 565.89                        | 384.19                               | 388.14                               |
| 26-Oct-15 | 14:09:00 | 280.6             | 8.13                   | 1.000        | 3011.4       | 17.49                      | 50.20                        | 86.05                     | 100.00                    | 161.56                         | 559.01                        | 41.26                          | 565.90                        | 384.19                               | 388.14                               |
| 26-Oct-15 | 14:09:05 | 280.5             | 8.15                   | 1.000        | 3011.2       | 17.49                      | 50.15                        | 86.31                     | 100.00                    | 161.55                         | 558.98                        | 41.26                          | 565.91                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:10 | 280.3             | 8.24                   | 1.000        | 3012.3       | 17.49                      | 50.15                        | 86.69                     | 100.00                    | 161.54                         | 558.95                        | 41.27                          | 565.92                        | 384.19                               | 388.10                               |
| 26-Oct-15 | 14:09:15 | 280.6             | 8.33                   | 1.000        | 3014.7       | 17.50                      | 50.14                        | 87.01                     | 100.00                    | 161.53                         | 558.92                        | 41.27                          | 565.92                        | 384.19                               | 388.09                               |
| 26-Oct-15 | 14:09:20 | 280.7             | 8.42                   | 1.000        | 3012.5       | 17.50                      | 50.14                        | 86.19                     | 100.00                    | 161.52                         | 558.89                        | 41.27                          | 565.93                        | 384.19                               | 388.08                               |
| 26-Oct-15 | 14:09:25 | 280.5             | 8.50                   | 1.000        | 3011.6       | 17.50                      | 50.13                        | 86.51                     | 100.00                    | 161.51                         | 558.86                        | 41.26                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:30 | 280.2             | 8.59                   | 1.000        | 3013.8       | 17.50                      | 50.13                        | 86.96                     | 100.00                    | 161.49                         | 558.83                        | 41.26                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:35 | 280.1             | 8.68                   | 1.000        | 3013.3       | 17.50                      | 50.12                        | 86.56                     | 100.00                    | 161.48                         | 558.80                        | 41.25                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:40 | 280.7             | 8.77                   | 1.000        | 3011.4       | 17.50                      | 50.12                        | 86.16                     | 100.00                    | 161.47                         | 558.79                        | 41.25                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:45 | 280.7             | 8.86                   | 1.000        | 3011.9       | 17.51                      | 50.12                        | 86.52                     | 100.00                    | 161.46                         | 558.79                        | 41.24                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:50 | 280.2             | 8.95                   | 0.999        | 3012.5       | 17.51                      | 50.11                        | 87.00                     | 100.00                    | 161.45                         | 558.79                        | 41.23                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:09:55 | 280.3             | 9.03                   | 0.999        | 3010.4       | 17.51                      | 50.11                        | 86.54                     | 100.00                    | 161.44                         | 558.79                        | 41.23                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:10:00 | 280.6             | 9.03                   | 0.999        | 3007.5       | 17.51                      | 50.10                        | 86.09                     | 100.00                    | 161.43                         | 558.79                        | 41.22                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:10:05 | 280.3             | 9.03                   | 0.999        | 3007.2       | 17.51                      | 50.10                        | 86.95                     | 100.00                    | 161.43                         | 558.79                        | 41.22                          | 565.94                        | 384.19                               | 388.11                               |
| 26-Oct-15 | 14:10:10 | 280.0             | 9.03                   | 0.999        | 3007.9       | 17.51                      | 50.10                        | 87.17                     | 100.00                    | 161.43                         | 558.79                        | 41.22                          | 565.94                        | 384.20                               | 388.10                               |
| 26-Oct-15 | 14:10:15 | 279.9             | 9.03                   | 0.999        | 3007.9       | 17.51                      | 50.10                        | 87.21                     | 100.00                    | 161.43                         | 558.79                        | 41.22                          | 565.94                        | 384.22                               | 388.11                               |
| 26-Oct-15 | 14:10:20 | 279.8             | 9.03                   | 0.999        | 3011.1       | 17.49                      | 50.10                        | 87.45                     | 100.00                    | 161.40                         | 558.78                        | 41.22                          | 565.94                        | 384.20                               | 388.11                               |
| 26-Oct-15 | 14:10:25 | 280.0             | 9.03                   | 0.999        | 3011.1       | 17.51                      | 50.10                        | 87.35                     | 100.00                    | 161.28                         | 558.70                        | 41.21                          | 565.64                        | 384.22                               | 388.10                               |
| 26-Oct-15 | 14:10:30 | 280.3             | 9.03                   | 0.999        | 3012.7       | 17.51                      | 50.10                        | 87.05                     | 100.00                    | 161.21                         | 558.63                        | 41.21                          | 565.65                        | 384.19                               | 388.10                               |
| 26-Oct-15 | 14:10:35 | 279.8             | 9.03                   | 0.999        | 3011.6       | 17.51                      | 50.10                        | 87.07                     | 100.00                    | 161.20                         | 558.55                        | 41.21                          | 565.67                        | 384.19                               | 388.09                               |
| 26-Oct-15 | 14:10:40 | 280.1             | 9.03                   | 0.999        | 3013.3       | 17.51                      | 50.10                        | 87.08                     | 100.00                    | 161.18                         | 558.55                        | 41.20                          | 565.68                        | 384.21                               | 388.09                               |
| 26-Oct-15 | 14:10:45 | 280.6             | 9.05                   | 0.999        | 3009.9       | 17.51                      | 50.09                        | 86.56                     | 100.00                    | 161.16                         | 558.56                        | 41.20                          | 565.69                        | 384.22                               | 388.08                               |
| 26-Oct-15 | 14:10:50 | 280.4             | 9.13                   | 0.999        | 3003.5       | 17.51                      | 50.06                        | 86.28                     | 100.00                    | 161.14                         | 558.58                        | 41.20                          | 565.70                        | 384.23                               | 388.08                               |
| 26-Oct-15 | 14:10:55 | 279.9             | 9.20                   | 0.999        | 3008.3       | 17.51                      | 50.06                        | 87.16                     | 100.00                    | 161.12                         | 558.60                        | 41.20                          | 565.71                        | 384.24                               | 388.11                               |
| 26-Oct-15 | 14:11:00 | 280.0             | 9.21                   | 0.999        | 3007.6       | 17.52                      | 50.08                        | 86.85                     | 100.00                    | 161.11                         | 558.61                        | 41.19                          | 565.73                        | 384.24                               | 388.10                               |
| 26-Oct-15 | 14:11:05 | 279.8             | 9.22                   | 0.999        | 3011.4       | 17.51                      | 50.09                        | 86.55                     | 100.00                    | 161.09                         | 558.63                        | 41.19                          | 565.74                        | 384.25                               | 388.10                               |
| 26-Oct-15 | 14:11:10 | 280.6             | 9.22                   | 0.999        | 3008.1       | 17.51                      | 50.08                        | 86.25                     | 100.00                    | 161.07                         | 558.64                        | 41.18                          | 565.75                        | 384.26                               | 388.11                               |
| 26-Oct-15 | 14:11:15 | 280.2             | 9.23                   | 0.999        | 3008.1       | 17.51                      | 50.06                        | 86.47                     | 100.00                    | 161.05                         | 558.66                        | 41.16                          | 565.76                        | 384.27                               | 388.08                               |
| 26-Oct-15 | 14:11:20 | 279.8             | 9.24                   | 0.999        | 3010.9       | 17.51                      | 50.05                        | 86.98                     | 100.00                    | 161.03                         | 558.67                        | 41.15                          | 565.77                        | 384.27                               | 388.08                               |
| 26-Oct-15 | 14:11:25 | 279.8             | 9.25                   | 0.999        | 3008.3       | 17.50                      | 50.06                        | 87.13                     | 100.00                    | 161.02                         | 558.69                        | 41.14                          | 565.78                        | 384.28                               | 388.08                               |
| 26-Oct-15 | 14:11:30 | 279.8             | 9.25                   | 0.999        | 3008.1       | 17.50                      | 50.07                        | 87.07                     | 100.00                    | 161.02                         | 558.70                        | 41.14                          | 565.78                        | 384.28                               | 388.08                               |
| 26-Oct-15 | 14:11:35 | 280.3             | 9.26                   | 0.999        | 3010.3       | 17.50                      | 50.08                        | 87.02                     | 100.00                    | 161.02                         | 558.72                        | 41.14                          | 565.78                        | 384.29                               | 388.08                               |
| 26-Oct-15 | 14:11:40 | 279.7             | 9.27                   | 0.999        | 3008.5       | 17.50                      | 50.08                        | 87.23                     | 100.00                    | 161.02                         | 558.72                        | 41.14                          | 565.78                        | 384.30                               | 388.08                               |
| 26-Oct-15 | 14:11:45 | 279.8             | 9.28                   | 0.999        | 3012.3       | 17.49                      | 50.09                        | 87.67                     | 100.00                    | 161.02                         | 558.72                        | 41.14                          | 565.78                        | 384.30                               | 388.08                               |
| 26-Oct-15 | 14:11:50 | 280.0             | 9.28                   | 0.999        | 3014.2       | 17.49                      | 50.10                        | 87.34                     | 100.00                    | 161.02                         | 558.72                        | 41.14                          | 565.78                        | 384.31                               | 388.09                               |
| 26-Oct-15 | 14:11:55 | 280.3             | 9.29                   | 0.999        | 3007.8       | 17.49                      | 50.10                        | 87.24                     | 100.00                    | 161.02                         | 558.72                        | 41.14                          | 565.78                        | 384.32                               | 388.11                               |
| 26-Oct-15 | 14:12:00 | 280.1             | 9.29                   | 0.999        | 3007.8       | 17.49                      | 50.10                        | 87.24                     | 100.00                    | 161.06                         | 558.73                        | 41.14                          | 565.78                        | 384.33                               | 388.10                               |
| 26-Oct-15 | 14:12:05 | 280.3             | 9.29                   | 0.999        | 3008.4       | 17.49                      | 50.10                        | 87.24                     | 100.00                    | 161.23                         | 558.76                        | 41.17                          | 565.83                        | 384.34                               | 388.09                               |
| 26-Oct-15 | 14:12:10 | 280.4             | 9.29                   | 0.999        | 3007.3       | 17.49                      | 50.10                        | 87.10                     | 100.00                    | 161.23                         | 558.80                        | 41.19                          | 565.89                        | 384.35                               | 388.09                               |
| 26-Oct-15 | 14:12:15 | 280.1             | 9.29                   | 0.999        | 3011.1       | 17.49                      | 50.10                        | 86.87                     | 100.00                    | 161.23                         | 558.83                        | 41.19                          | 565.94                        | 384.36                               | 388.12                               |
| 26-Oct-15 | 14:12:20 | 280.1             | 9.29                   | 0.999        | 3009.9       | 17.49                      | 50.10                        | 86.65                     | 100.00                    | 161.24                         | 558.87                        | 41.18                          | 566.00                        | 384.37                               | 388.13                               |
| 26-Oct-15 | 14:12:25 | 280.3             | 9.28                   | 0.999        | 3008.7       | 17.49                      | 50.10                        | 86.42                     | 100.00                    | 161.24                         | 558.90                        | 41.18                          | 566.05                        | 384.37                               | 388.14                               |
| 26-Oct-15 | 14:12:30 | 280.4             | 9.23                   | 0.999        | 3007.5       | 17.49                      | 50.10                        | 86.24                     | 100.00                    | 161.24                         | 558.94                        | 41.18                          | 566.09                        | 384.34                               | 388.15                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 14:16:40 | 280.3             | 9.38                   | 0.999        | 3010.1       | 17.50                      | 50.05                        | 86.94                     | 100.00                    | 161.35                         | 558.74                        | 41.22                          | 566.06                        | 384.39                               | 388.27                               |
| 26-Oct-15 | 14:16:45 | 279.7             | 9.38                   | 0.999        | 3013.9       | 17.50                      | 50.08                        | 87.16                     | 100.00                    | 161.33                         | 558.74                        | 41.22                          | 566.06                        | 384.41                               | 388.27                               |
| 26-Oct-15 | 14:16:50 | 280.0             | 9.38                   | 0.999        | 3012.7       | 17.51                      | 50.11                        | 87.16                     | 100.00                    | 161.31                         | 558.74                        | 41.22                          | 566.06                        | 384.41                               | 388.29                               |
| 26-Oct-15 | 14:16:55 | 280.2             | 9.38                   | 0.999        | 3011.2       | 17.51                      | 50.13                        | 87.16                     | 100.00                    | 161.29                         | 558.74                        | 41.21                          | 566.06                        | 384.40                               | 388.27                               |
| 26-Oct-15 | 14:17:00 | 280.4             | 9.38                   | 0.999        | 3011.5       | 17.51                      | 50.14                        | 87.16                     | 100.00                    | 161.28                         | 558.73                        | 41.21                          | 566.06                        | 384.38                               | 388.28                               |
| 26-Oct-15 | 14:17:05 | 280.5             | 9.38                   | 0.999        | 3009.2       | 17.51                      | 50.12                        | 87.16                     | 100.00                    | 161.28                         | 558.71                        | 41.21                          | 566.04                        | 384.41                               | 388.29                               |
| 26-Oct-15 | 14:17:10 | 280.5             | 9.38                   | 0.999        | 3007.8       | 17.51                      | 50.10                        | 87.11                     | 100.00                    | 161.27                         | 558.68                        | 41.21                          | 566.01                        | 384.39                               | 388.28                               |
| 26-Oct-15 | 14:17:15 | 280.2             | 9.38                   | 0.999        | 3007.5       | 17.51                      | 50.09                        | 87.12                     | 100.00                    | 161.26                         | 558.66                        | 41.21                          | 565.98                        | 384.39                               | 388.27                               |
| 26-Oct-15 | 14:17:20 | 280.0             | 9.38                   | 0.999        | 3011.3       | 17.51                      | 50.09                        | 86.94                     | 100.00                    | 161.26                         | 558.63                        | 41.20                          | 565.95                        | 384.39                               | 388.31                               |
| 26-Oct-15 | 14:17:25 | 279.9             | 9.38                   | 0.999        | 3012.0       | 17.51                      | 50.09                        | 86.85                     | 100.00                    | 161.25                         | 558.61                        | 41.20                          | 565.92                        | 384.42                               | 388.31                               |
| 26-Oct-15 | 14:17:30 | 279.8             | 9.41                   | 0.999        | 3011.5       | 17.51                      | 50.10                        | 86.77                     | 100.00                    | 161.25                         | 558.58                        | 41.20                          | 565.91                        | 384.42                               | 388.32                               |
| 26-Oct-15 | 14:17:35 | 280.0             | 9.43                   | 0.999        | 3013.1       | 17.51                      | 50.10                        | 86.68                     | 100.00                    | 161.24                         | 558.56                        | 41.20                          | 565.90                        | 384.42                               | 388.32                               |
| 26-Oct-15 | 14:17:40 | 280.3             | 9.45                   | 0.999        | 3012.6       | 17.51                      | 50.11                        | 86.60                     | 100.00                    | 161.24                         | 558.54                        | 41.19                          | 565.89                        | 384.43                               | 388.32                               |
| 26-Oct-15 | 14:17:45 | 280.4             | 9.47                   | 0.999        | 3008.0       | 17.51                      | 50.11                        | 86.62                     | 100.00                    | 161.23                         | 558.54                        | 41.19                          | 565.87                        | 384.43                               | 388.33                               |
| 26-Oct-15 | 14:17:50 | 280.2             | 9.49                   | 0.999        | 3008.7       | 17.51                      | 50.12                        | 86.96                     | 100.00                    | 161.23                         | 558.54                        | 41.19                          | 565.86                        | 384.44                               | 388.33                               |
| 26-Oct-15 | 14:17:55 | 280.0             | 9.51                   | 0.999        | 3007.0       | 17.51                      | 50.13                        | 87.29                     | 100.00                    | 161.22                         | 558.54                        | 41.19                          | 565.85                        | 384.44                               | 388.33                               |
| 26-Oct-15 | 14:18:00 | 279.8             | 9.50                   | 0.999        | 3011.2       | 17.51                      | 50.13                        | 87.41                     | 100.00                    | 161.22                         | 558.53                        | 41.19                          | 565.84                        | 384.44                               | 388.34                               |
| 26-Oct-15 | 14:18:05 | 280.2             | 9.48                   | 0.999        | 3012.4       | 17.51                      | 50.14                        | 87.15                     | 100.00                    | 161.22                         | 558.53                        | 41.19                          | 565.82                        | 384.45                               | 388.34                               |
| 26-Oct-15 | 14:18:10 | 280.7             | 9.45                   | 0.999        | 3009.9       | 17.51                      | 50.14                        | 86.76                     | 100.00                    | 161.22                         | 558.53                        | 41.19                          | 565.81                        | 384.45                               | 388.33                               |
| 26-Oct-15 | 14:18:15 | 280.5             | 9.43                   | 0.999        | 3008.1       | 17.51                      | 50.11                        | 86.79                     | 100.00                    | 161.22                         | 558.53                        | 41.19                          | 565.80                        | 384.45                               | 388.33                               |
| 26-Oct-15 | 14:18:20 | 280.2             | 9.40                   | 0.999        | 3010.2       | 17.51                      | 50.09                        | 87.37                     | 100.00                    | 161.22                         | 558.52                        | 41.19                          | 565.79                        | 384.45                               | 388.31                               |
| 26-Oct-15 | 14:18:25 | 280.3             | 9.38                   | 0.999        | 3007.3       | 17.51                      | 50.10                        | 87.57                     | 100.00                    | 161.22                         | 558.52                        | 41.19                          | 565.77                        | 384.45                               | 388.34                               |
| 26-Oct-15 | 14:18:30 | 280.4             | 9.35                   | 0.999        | 3007.5       | 17.51                      | 50.11                        | 87.57                     | 100.00                    | 161.22                         | 558.52                        | 41.19                          | 565.77                        | 384.46                               | 388.35                               |
| 26-Oct-15 | 14:18:35 | 280.1             | 9.33                   | 0.999        | 3008.2       | 17.51                      | 50.11                        | 87.57                     | 100.00                    | 161.22                         | 558.52                        | 41.19                          | 565.77                        | 384.46                               | 388.36                               |
| 26-Oct-15 | 14:18:40 | 280.4             | 9.30                   | 0.999        | 3008.3       | 17.51                      | 50.12                        | 87.57                     | 100.00                    | 161.22                         | 558.52                        | 41.19                          | 565.77                        | 384.46                               | 388.36                               |
| 26-Oct-15 | 14:18:45 | 280.4             | 9.28                   | 0.999        | 3007.8       | 17.51                      | 50.13                        | 87.57                     | 100.00                    | 161.26                         | 558.54                        | 41.20                          | 565.79                        | 384.47                               | 388.37                               |
| 26-Oct-15 | 14:18:50 | 280.1             | 9.25                   | 0.999        | 3012.1       | 17.51                      | 50.14                        | 88.05                     | 100.00                    | 161.30                         | 558.57                        | 41.21                          | 565.81                        | 384.47                               | 388.37                               |
| 26-Oct-15 | 14:18:55 | 279.9             | 9.23                   | 0.999        | 3016.6       | 17.51                      | 50.14                        | 88.30                     | 100.00                    | 161.33                         | 558.59                        | 41.22                          | 565.83                        | 384.48                               | 388.38                               |
| 26-Oct-15 | 14:19:00 | 280.4             | 9.22                   | 0.999        | 3014.6       | 17.51                      | 50.14                        | 87.53                     | 100.00                    | 161.34                         | 558.61                        | 41.23                          | 565.85                        | 384.48                               | 388.35                               |
| 26-Oct-15 | 14:19:05 | 280.2             | 9.20                   | 0.999        | 3014.4       | 17.51                      | 50.15                        | 87.46                     | 100.00                    | 161.33                         | 558.64                        | 41.23                          | 565.87                        | 384.49                               | 388.37                               |
| 26-Oct-15 | 14:19:10 | 280.2             | 9.11                   | 0.999        | 3013.5       | 17.51                      | 50.15                        | 87.39                     | 100.00                    | 161.33                         | 558.66                        | 41.23                          | 565.90                        | 384.49                               | 388.38                               |
| 26-Oct-15 | 14:19:15 | 280.4             | 9.03                   | 0.999        | 3012.6       | 17.50                      | 50.16                        | 87.32                     | 100.00                    | 161.32                         | 558.68                        | 41.23                          | 565.92                        | 384.48                               | 388.39                               |
| 26-Oct-15 | 14:19:20 | 280.5             | 8.94                   | 0.999        | 3012.2       | 17.50                      | 50.17                        | 87.29                     | 100.00                    | 161.32                         | 558.71                        | 41.23                          | 565.94                        | 384.50                               | 388.40                               |
| 26-Oct-15 | 14:19:25 | 280.3             | 8.86                   | 1.000        | 3016.5       | 17.50                      | 50.18                        | 87.87                     | 100.00                    | 161.31                         | 558.73                        | 41.24                          | 565.96                        | 384.51                               | 388.41                               |
| 26-Oct-15 | 14:19:30 | 280.3             | 8.77                   | 1.000        | 3015.7       | 17.50                      | 50.19                        | 88.01                     | 100.00                    | 161.31                         | 558.75                        | 41.24                          | 565.97                        | 384.52                               | 388.42                               |
| 26-Oct-15 | 14:19:35 | 280.4             | 8.69                   | 1.000        | 3011.3       | 17.50                      | 50.19                        | 88.15                     | 100.00                    | 161.30                         | 558.78                        | 41.24                          | 565.97                        | 384.52                               | 388.40                               |
| 26-Oct-15 | 14:19:40 | 280.2             | 8.60                   | 1.000        | 3015.0       | 17.50                      | 50.19                        | 88.29                     | 100.00                    | 161.30                         | 558.80                        | 41.24                          | 565.97                        | 384.49                               | 388.42                               |
| 26-Oct-15 | 14:19:45 | 280.4             | 8.52                   | 1.000        | 3017.5       | 17.50                      | 50.19                        | 88.43                     | 100.00                    | 161.29                         | 558.80                        | 41.24                          | 565.97                        | 384.50                               | 388.42                               |
| 26-Oct-15 | 14:19:50 | 280.3             | 8.43                   | 1.000        | 3019.0       | 17.50                      | 50.18                        | 88.57                     | 100.00                    | 161.29                         | 558.80                        | 41.24                          | 565.97                        | 384.51                               | 388.42                               |
| 26-Oct-15 | 14:19:55 | 280.5             | 8.35                   | 1.000        | 3017.4       | 17.50                      | 50.18                        | 88.00                     | 100.00                    | 161.28                         | 558.80                        | 41.24                          | 565.97                        | 384.52                               | 388.42                               |
| 26-Oct-15 | 14:20:00 | 280.3             | 8.30                   | 1.000        | 3015.1       | 17.50                      | 50.17                        | 87.78                     | 100.00                    | 161.28                         | 558.80                        | 41.24                          | 565.97                        | 384.53                               | 388.42                               |
| 26-Oct-15 | 14:20:05 | 280.2             | 8.30                   | 1.000        | 3015.2       | 17.50                      | 50.17                        | 88.04                     | 100.00                    | 161.28                         | 558.80                        | 41.22                          | 565.97                        | 384.53                               | 388.42                               |
| 26-Oct-15 | 14:20:10 | 280.3             | 8.30                   | 1.000        | 3015.2       | 17.50                      | 50.17                        | 88.30                     | 100.00                    | 161.28                         | 558.80                        | 41.21                          | 565.97                        | 384.52                               | 388.44                               |
| 26-Oct-15 | 14:20:15 | 279.7             | 8.30                   | 1.000        | 3014.1       | 17.50                      | 50.16                        | 88.56                     | 100.00                    | 161.28                         | 558.80                        | 41.20                          | 565.97                        | 384.50                               | 388.46                               |
| 26-Oct-15 | 14:20:20 | 280.5             | 8.30                   | 1.000        | 3012.2       | 17.50                      | 50.16                        | 87.03                     | 100.00                    | 161.27                         | 558.81                        | 41.20                          | 565.97                        | 384.53                               | 388.47                               |
| 26-Oct-15 | 14:20:25 | 280.5             | 8.30                   | 1.000        | 3011.1       | 17.50                      | 50.16                        | 86.51                     | 100.00                    | 161.21                         | 558.89                        | 41.20                          | 566.38                        | 384.53                               | 388.47                               |
| 26-Oct-15 | 14:20:30 | 280.1             | 8.30                   | 1.000        | 3012.7       | 17.50                      | 50.15                        | 87.41                     | 100.00                    | 161.15                         | 558.97                        | 41.20                          | 566.50                        | 384.54                               | 388.48                               |
| 26-Oct-15 | 14:20:35 | 279.7             | 8.30                   | 1.000        | 3015.1       | 17.50                      | 50.15                        | 87.44                     | 100.00                    | 161.09                         | 559.06                        | 41.21                          | 566.53                        | 384.54                               | 388.49                               |
| 26-Oct-15 | 14:20:40 | 280.2             | 8.30                   | 1.000        | 3014.2       | 17.50                      | 50.15                        | 87.21                     | 100.00                    | 161.09                         | 559.14                        | 41.21                          | 566.56                        | 384.54                               | 388.49                               |
| 26-Oct-15 | 14:20:45 | 280.3             | 8.35                   | 1.000        | 3011.2       | 17.50                      | 50.15                        | 86.99                     | 100.00                    | 161.11                         | 559.16                        | 41.22                          | 566.59                        | 384.55                               | 388.50                               |
| 26-Oct-15 | 14:20:50 | 280.1             | 8.51                   | 1.000        | 3012.0       | 17.50                      | 50.16                        | 86.76                     | 100.00                    | 161.13                         | 559.17                        | 41.22                          | 566.62                        | 384.55                               | 388.52                               |
| 26-Oct-15 | 14:20:55 | 280.0             | 8.68                   | 1.000        | 3012.7       | 17.51                      | 50.17                        | 86.79                     | 100.00                    | 161.15                         | 559.18                        | 41.23                          | 566.66                        | 384.55                               | 388.53                               |
| 26-Oct-15 | 14:21:00 | 279.9             | 8.83                   | 1.000        | 3013.5       | 17.51                      | 50.17                        | 87.60                     | 100.00                    | 161.17                         | 559.18                        | 41.23                          | 566.69                        | 384.55                               | 388.54                               |
| 26-Oct-15 | 14:21:05 | 280.3             | 8.79                   | 1.000        | 3014.3       | 17.51                      | 50.18                        | 87.39                     | 100.00                    | 161.19                         | 559.19                        | 41.23                          | 566.72                        | 384.56                               | 388.54                               |
| 26-Oct-15 | 14:21:10 | 280.2             | 8.76                   | 1.000        | 3013.6       | 17.51                      | 50.19                        | 87.19                     | 100.00                    | 161.21                         | 559.20                        | 41.24                          | 566.75                        | 384.56                               | 388.55                               |
| 26-Oct-15 | 14:21:15 | 280.1             | 8.72                   | 1.000        | 3018.0       | 17.51                      | 50.20                        | 86.98                     | 100.00                    | 161.23                         | 559.21                        | 41.24                          | 566.78                        | 384.56                               | 388.56                               |
| 26-Oct-15 | 14:21:20 | 280.3             | 8.69                   | 1.000        | 3014.0       | 17.51                      | 50.20                        | 86.78                     | 100.00                    | 161.25                         | 559.21                        | 41.24                          | 566.81                        | 384.56                               | 388.57                               |
| 26-Oct-15 | 14:21:25 | 280.5             | 8.65                   | 1.000        | 3012.9       | 17.51                      | 50.19                        | 86.59                     | 100.00                    | 161.25                         | 559.22                        | 41.24                          | 566.84                        | 384.57                               | 388.57                               |
| 26-Oct-15 | 14:21:30 | 280.6             | 8.61                   | 1.000        | 3011.8       | 17.51                      | 50.17                        | 86.87                     | 100.00                    | 161.28                         | 559.22                        | 41.24                          | 566.84                        | 384.57                               | 388.59                               |
| 26-Oct-15 | 14:21:35 | 280.7             | 8.58                   | 1.000        | 3012.6       | 17.51                      | 50.16                        | 87.14                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.61                               |
| 26-Oct-15 | 14:21:40 | 280.4             | 8.54                   | 1.000        | 3011.9       | 17.51                      | 50.16                        | 87.42                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.61                               |
| 26-Oct-15 | 14:21:45 | 280.5             | 8.51                   | 1.000        | 3015.0       | 17.51                      | 50.18                        | 87.51                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.61                               |
| 26-Oct-15 | 14:21:50 | 280.7             | 8.47                   | 1.000        | 3015.0       | 17.51                      | 50.20                        | 87.03                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.62                               |
| 26-Oct-15 | 14:21:55 | 281.2             | 8.44                   | 1.000        | 3015.0       | 17.50                      | 50.20                        | 86.57                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.63                               |
| 26-Oct-15 | 14:22:00 | 280.7             | 8.42                   | 1.000        | 3015.0       | 17.50                      | 50.20                        | 86.57                     | 100.00                    | 161.28                         | 559.24                        | 41.24                          | 566.84                        | 384.57                               | 388.64                               |
| 26-Oct-15 | 14:22:05 | 280.4             | 8.42                   | 1.000        | 3015.0       | 17.50                      | 50.20                        | 86.57                     | 100.00                    | 161.27                         | 559.22                        | 41.29                          | 566.82                        | 384.57                               | 388.65                               |
| 26-Oct-15 | 14:22:10 | 280.4             | 8.42                   | 1.000        | 3016.0       | 17.50                      | 50.20                        | 86.40                     | 100.00                    | 161.26                         | 559.19                        | 41.29                          | 566.79                        | 384.57                               | 388.66                               |
| 26-Oct-15 | 14:22:15 | 280.5             | 8.42                   | 1.000        | 3017.6       | 17.50                      | 50.20                        | 86.12                     | 100.00                    | 161.26                         | 559.17                        | 41.27                          | 566.77                        | 384.57                               | 388.67                               |
| 26-Oct-15 | 14:22:20 | 280.7             | 8.42                   | 1.000        | 3018.7       | 17.50                      | 50.20                        | 85.85                     | 100.00                    | 161.25                         | 559.15                        | 41.26                          | 566.74                        | 384.57                               | 388.68                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 14:26:30 | 280.1             | 9.15                   | 0.999        | 3007.4       | 17.50                      | 50.06                        | 87.56                     | 100.00                    | 161.64                         | 557.81                        | 41.23                          | 565.25                        | 384.57                               | 388.88                               |
| 26-Oct-15 | 14:26:35 | 280.3             | 9.19                   | 0.999        | 3011.3       | 17.50                      | 50.12                        | 87.32                     | 100.00                    | 161.64                         | 557.77                        | 41.23                          | 565.25                        | 384.57                               | 388.88                               |
| 26-Oct-15 | 14:26:40 | 280.6             | 9.24                   | 0.999        | 3011.0       | 17.50                      | 50.14                        | 86.76                     | 100.00                    | 161.64                         | 557.72                        | 41.23                          | 565.25                        | 384.57                               | 388.88                               |
| 26-Oct-15 | 14:26:45 | 280.8             | 9.29                   | 0.999        | 3008.6       | 17.51                      | 50.12                        | 86.84                     | 100.00                    | 161.64                         | 557.72                        | 41.23                          | 565.25                        | 384.57                               | 388.88                               |
| 26-Oct-15 | 14:26:50 | 280.7             | 9.34                   | 0.999        | 3008.0       | 17.51                      | 50.10                        | 87.13                     | 100.00                    | 161.64                         | 557.72                        | 41.23                          | 565.25                        | 384.54                               | 388.88                               |
| 26-Oct-15 | 14:26:55 | 280.6             | 9.38                   | 0.999        | 3007.5       | 17.51                      | 50.11                        | 87.42                     | 100.00                    | 161.64                         | 557.72                        | 41.23                          | 565.25                        | 384.57                               | 388.88                               |
| 26-Oct-15 | 14:27:00 | 280.1             | 9.43                   | 0.999        | 3012.3       | 17.51                      | 50.12                        | 87.71                     | 100.00                    | 161.64                         | 557.73                        | 41.23                          | 565.25                        | 384.55                               | 388.89                               |
| 26-Oct-15 | 14:27:05 | 280.3             | 9.48                   | 0.999        | 3011.1       | 17.51                      | 50.13                        | 87.75                     | 100.00                    | 161.64                         | 557.76                        | 41.23                          | 565.25                        | 384.54                               | 388.89                               |
| 26-Oct-15 | 14:27:10 | 280.5             | 9.50                   | 0.999        | 3011.6       | 17.51                      | 50.14                        | 87.10                     | 100.00                    | 161.65                         | 557.79                        | 41.23                          | 565.24                        | 384.53                               | 388.89                               |
| 26-Oct-15 | 14:27:15 | 280.8             | 9.50                   | 0.999        | 3014.2       | 17.51                      | 50.15                        | 86.77                     | 100.00                    | 161.65                         | 557.82                        | 41.23                          | 565.23                        | 384.53                               | 388.90                               |
| 26-Oct-15 | 14:27:20 | 280.5             | 9.50                   | 0.999        | 3012.3       | 17.51                      | 50.15                        | 86.81                     | 100.00                    | 161.65                         | 557.85                        | 41.23                          | 565.22                        | 384.54                               | 388.90                               |
| 26-Oct-15 | 14:27:25 | 280.9             | 9.50                   | 0.999        | 3011.8       | 17.51                      | 50.14                        | 86.85                     | 100.00                    | 161.66                         | 557.88                        | 41.23                          | 565.22                        | 384.54                               | 388.90                               |
| 26-Oct-15 | 14:27:30 | 280.5             | 9.48                   | 0.999        | 3014.5       | 17.51                      | 50.12                        | 86.89                     | 100.00                    | 161.66                         | 557.91                        | 41.23                          | 565.22                        | 384.55                               | 388.90                               |
| 26-Oct-15 | 14:27:35 | 280.6             | 9.46                   | 0.999        | 3008.1       | 17.51                      | 50.10                        | 86.93                     | 100.00                    | 161.67                         | 557.94                        | 41.24                          | 565.24                        | 384.56                               | 388.91                               |
| 26-Oct-15 | 14:27:40 | 280.7             | 9.44                   | 0.999        | 3007.3       | 17.51                      | 50.09                        | 86.96                     | 100.00                    | 161.68                         | 557.97                        | 41.24                          | 565.27                        | 384.56                               | 388.91                               |
| 26-Oct-15 | 14:27:45 | 280.8             | 9.43                   | 0.999        | 3007.5       | 17.51                      | 50.08                        | 87.00                     | 100.00                    | 161.69                         | 557.98                        | 41.24                          | 565.29                        | 384.57                               | 388.91                               |
| 26-Oct-15 | 14:27:50 | 280.8             | 9.41                   | 0.999        | 3007.2       | 17.51                      | 50.08                        | 87.04                     | 100.00                    | 161.70                         | 557.98                        | 41.24                          | 565.32                        | 384.53                               | 388.91                               |
| 26-Oct-15 | 14:27:55 | 280.9             | 9.39                   | 0.999        | 3007.1       | 17.51                      | 50.07                        | 87.08                     | 100.00                    | 161.71                         | 557.98                        | 41.25                          | 565.35                        | 384.56                               | 388.88                               |
| 26-Oct-15 | 14:28:00 | 280.5             | 9.37                   | 0.999        | 3007.0       | 17.51                      | 50.07                        | 87.12                     | 100.00                    | 161.71                         | 557.98                        | 41.25                          | 565.37                        | 384.54                               | 388.91                               |
| 26-Oct-15 | 14:28:05 | 280.2             | 9.36                   | 0.999        | 3011.2       | 17.51                      | 50.06                        | 87.16                     | 100.00                    | 161.72                         | 557.98                        | 41.25                          | 565.40                        | 384.55                               | 388.92                               |
| 26-Oct-15 | 14:28:10 | 280.5             | 9.35                   | 0.999        | 3011.6       | 17.51                      | 50.06                        | 87.12                     | 100.00                    | 161.73                         | 557.98                        | 41.25                          | 565.43                        | 384.56                               | 388.92                               |
| 26-Oct-15 | 14:28:15 | 280.8             | 9.35                   | 0.999        | 3007.1       | 17.51                      | 50.05                        | 86.35                     | 100.00                    | 161.74                         | 557.98                        | 41.26                          | 565.45                        | 384.53                               | 388.92                               |
| 26-Oct-15 | 14:28:20 | 280.7             | 9.35                   | 0.999        | 3003.5       | 17.51                      | 50.05                        | 86.64                     | 100.00                    | 161.75                         | 557.98                        | 41.26                          | 565.48                        | 384.53                               | 388.92                               |
| 26-Oct-15 | 14:28:25 | 280.6             | 9.35                   | 0.999        | 3010.2       | 17.51                      | 50.06                        | 87.03                     | 100.00                    | 161.76                         | 557.98                        | 41.26                          | 565.50                        | 384.53                               | 388.92                               |
| 26-Oct-15 | 14:28:30 | 280.2             | 9.35                   | 0.999        | 3009.6       | 17.51                      | 50.08                        | 87.13                     | 100.00                    | 161.77                         | 557.98                        | 41.26                          | 565.52                        | 384.53                               | 388.92                               |
| 26-Oct-15 | 14:28:35 | 280.4             | 9.35                   | 0.999        | 3010.9       | 17.51                      | 50.09                        | 86.84                     | 100.00                    | 161.77                         | 557.98                        | 41.26                          | 565.52                        | 384.54                               | 388.93                               |
| 26-Oct-15 | 14:28:40 | 280.7             | 9.35                   | 0.999        | 3010.9       | 17.51                      | 50.08                        | 86.56                     | 100.00                    | 161.77                         | 557.98                        | 41.26                          | 565.52                        | 384.54                               | 388.94                               |
| 26-Oct-15 | 14:28:45 | 280.9             | 9.35                   | 0.999        | 3010.5       | 17.51                      | 50.06                        | 86.28                     | 100.00                    | 161.76                         | 557.96                        | 41.26                          | 565.53                        | 384.54                               | 388.95                               |
| 26-Oct-15 | 14:28:50 | 281.3             | 9.35                   | 0.999        | 3009.0       | 17.51                      | 50.05                        | 86.52                     | 100.00                    | 161.75                         | 557.92                        | 41.26                          | 565.54                        | 384.54                               | 388.92                               |
| 26-Oct-15 | 14:28:55 | 280.5             | 9.35                   | 0.999        | 3007.2       | 17.51                      | 50.04                        | 86.96                     | 100.00                    | 161.74                         | 557.89                        | 41.26                          | 565.55                        | 384.55                               | 388.95                               |
| 26-Oct-15 | 14:29:00 | 280.4             | 9.35                   | 0.999        | 3007.1       | 17.51                      | 50.04                        | 87.18                     | 100.00                    | 161.74                         | 557.86                        | 41.25                          | 565.56                        | 384.55                               | 388.93                               |
| 26-Oct-15 | 14:29:05 | 280.6             | 10.06                  | 0.999        | 3007.7       | 17.51                      | 50.09                        | 86.70                     | 100.00                    | 161.73                         | 557.82                        | 41.25                          | 565.57                        | 384.55                               | 388.95                               |
| 26-Oct-15 | 14:29:10 | 280.8             | 10.91                  | 0.999        | 3011.3       | 17.51                      | 50.08                        | 86.48                     | 100.00                    | 161.72                         | 557.79                        | 41.25                          | 565.58                        | 384.56                               | 388.96                               |
| 26-Oct-15 | 14:29:15 | 280.9             | 10.86                  | 0.999        | 3008.3       | 17.51                      | 50.06                        | 86.40                     | 100.00                    | 161.71                         | 557.75                        | 41.25                          | 565.59                        | 384.56                               | 388.96                               |
| 26-Oct-15 | 14:29:20 | 280.8             | 10.80                  | 0.999        | 3007.5       | 17.51                      | 50.05                        | 86.57                     | 100.00                    | 161.70                         | 557.72                        | 41.24                          | 565.60                        | 384.56                               | 388.96                               |
| 26-Oct-15 | 14:29:25 | 280.6             | 10.75                  | 0.999        | 3003.7       | 17.51                      | 50.04                        | 86.79                     | 100.00                    | 161.70                         | 557.68                        | 41.24                          | 565.61                        | 384.57                               | 388.97                               |
| 26-Oct-15 | 14:29:30 | 280.4             | 10.69                  | 0.999        | 3004.7       | 17.51                      | 50.03                        | 87.01                     | 100.00                    | 161.69                         | 557.65                        | 41.24                          | 565.61                        | 384.55                               | 388.97                               |
| 26-Oct-15 | 14:29:35 | 280.3             | 10.64                  | 0.999        | 3005.8       | 17.51                      | 50.02                        | 87.09                     | 100.00                    | 161.69                         | 557.62                        | 41.24                          | 565.61                        | 384.56                               | 388.97                               |
| 26-Oct-15 | 14:29:40 | 280.4             | 10.58                  | 0.999        | 3006.9       | 17.51                      | 50.02                        | 87.00                     | 100.00                    | 161.69                         | 557.58                        | 41.24                          | 565.61                        | 384.54                               | 388.98                               |
| 26-Oct-15 | 14:29:45 | 280.3             | 10.53                  | 0.999        | 3010.4       | 17.51                      | 50.01                        | 86.88                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.98                               |
| 26-Oct-15 | 14:29:50 | 281.0             | 10.48                  | 0.999        | 3003.5       | 17.51                      | 50.00                        | 86.67                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.98                               |
| 26-Oct-15 | 14:29:55 | 280.6             | 10.42                  | 0.999        | 3004.9       | 17.51                      | 49.99                        | 86.78                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.99                               |
| 26-Oct-15 | 14:30:00 | 280.2             | 10.37                  | 0.999        | 3007.6       | 17.51                      | 50.02                        | 87.23                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.99                               |
| 26-Oct-15 | 14:30:05 | 280.9             | 10.31                  | 0.999        | 3005.2       | 17.51                      | 50.03                        | 86.27                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.97                               |
| 26-Oct-15 | 14:30:10 | 280.7             | 10.29                  | 0.999        | 3003.2       | 17.51                      | 50.00                        | 86.80                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.97                               |
| 26-Oct-15 | 14:30:15 | 280.3             | 10.29                  | 0.999        | 3003.3       | 17.51                      | 49.99                        | 87.05                     | 100.00                    | 161.69                         | 557.57                        | 41.24                          | 565.61                        | 384.57                               | 388.98                               |
| 26-Oct-15 | 14:30:20 | 280.6             | 10.29                  | 0.999        | 3003.5       | 17.51                      | 49.99                        | 86.51                     | 100.00                    | 161.68                         | 557.58                        | 41.24                          | 565.61                        | 384.57                               | 388.99                               |
| 26-Oct-15 | 14:30:25 | 280.5             | 10.29                  | 0.999        | 3003.3       | 17.51                      | 49.99                        | 86.21                     | 100.00                    | 161.63                         | 557.60                        | 41.24                          | 565.83                        | 384.57                               | 389.00                               |
| 26-Oct-15 | 14:30:30 | 280.5             | 10.29                  | 0.999        | 3004.2       | 17.51                      | 49.99                        | 86.46                     | 100.00                    | 161.59                         | 557.62                        | 41.24                          | 565.96                        | 384.57                               | 389.00                               |
| 26-Oct-15 | 14:30:35 | 280.4             | 10.29                  | 0.999        | 3004.8       | 17.51                      | 49.99                        | 86.84                     | 100.00                    | 161.58                         | 557.64                        | 41.24                          | 565.95                        | 384.57                               | 389.00                               |
| 26-Oct-15 | 14:30:40 | 280.3             | 10.29                  | 0.999        | 3005.3       | 17.51                      | 49.99                        | 87.04                     | 100.00                    | 161.57                         | 557.67                        | 41.24                          | 565.94                        | 384.57                               | 389.01                               |
| 26-Oct-15 | 14:30:45 | 280.1             | 10.30                  | 0.999        | 3005.9       | 17.51                      | 49.99                        | 87.03                     | 100.00                    | 161.57                         | 557.65                        | 41.24                          | 565.93                        | 384.57                               | 389.01                               |
| 26-Oct-15 | 14:30:50 | 280.6             | 10.30                  | 0.999        | 3007.0       | 17.51                      | 49.99                        | 86.58                     | 100.00                    | 161.57                         | 557.62                        | 41.24                          | 565.92                        | 384.57                               | 389.01                               |
| 26-Oct-15 | 14:30:55 | 280.5             | 10.31                  | 0.999        | 3006.8       | 17.50                      | 50.00                        | 86.37                     | 100.00                    | 161.56                         | 557.59                        | 41.24                          | 565.91                        | 384.57                               | 389.02                               |
| 26-Oct-15 | 14:31:00 | 280.4             | 10.32                  | 0.999        | 3003.3       | 17.49                      | 50.00                        | 86.97                     | 100.00                    | 161.56                         | 557.56                        | 41.24                          | 565.90                        | 384.57                               | 389.02                               |
| 26-Oct-15 | 14:31:05 | 280.2             | 10.33                  | 0.999        | 3010.2       | 17.49                      | 50.00                        | 86.95                     | 100.00                    | 161.55                         | 557.53                        | 41.24                          | 565.89                        | 384.57                               | 389.02                               |
| 26-Oct-15 | 14:31:10 | 281.0             | 10.33                  | 0.999        | 3001.1       | 17.49                      | 50.00                        | 86.28                     | 100.00                    | 161.55                         | 557.50                        | 41.24                          | 565.88                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:15 | 280.3             | 10.33                  | 0.999        | 3005.3       | 17.50                      | 50.00                        | 87.08                     | 100.00                    | 161.55                         | 557.47                        | 41.24                          | 565.87                        | 384.57                               | 389.02                               |
| 26-Oct-15 | 14:31:20 | 280.4             | 10.32                  | 0.999        | 3004.6       | 17.50                      | 50.00                        | 87.25                     | 100.00                    | 161.54                         | 557.44                        | 41.24                          | 565.86                        | 384.57                               | 389.01                               |
| 26-Oct-15 | 14:31:25 | 280.5             | 10.32                  | 0.999        | 3005.8       | 17.50                      | 50.01                        | 87.50                     | 100.00                    | 161.54                         | 557.41                        | 41.24                          | 565.85                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:30 | 280.2             | 10.32                  | 0.999        | 3006.9       | 17.50                      | 50.01                        | 87.65                     | 100.00                    | 161.53                         | 557.38                        | 41.24                          | 565.84                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:35 | 280.2             | 10.32                  | 0.999        | 3007.5       | 17.50                      | 50.01                        | 87.54                     | 100.00                    | 161.53                         | 557.36                        | 41.24                          | 565.84                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:40 | 280.6             | 10.31                  | 0.999        | 3008.1       | 17.50                      | 50.01                        | 87.24                     | 100.00                    | 161.53                         | 557.33                        | 41.24                          | 565.84                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:45 | 280.5             | 10.31                  | 0.999        | 3003.2       | 17.51                      | 50.01                        | 87.36                     | 100.00                    | 161.53                         | 557.32                        | 41.24                          | 565.84                        | 384.57                               | 389.03                               |
| 26-Oct-15 | 14:31:50 | 280.4             | 10.31                  | 0.999        | 3003.2       | 17.51                      | 50.01                        | 87.47                     | 100.00                    | 161.53                         | 557.32                        | 41.24                          | 565.84                        | 384.59                               | 389.04                               |
| 26-Oct-15 | 14:31:55 | 280.3             | 10.31                  | 0.999        | 3003.2       | 17.51                      | 50.01                        | 87.58                     | 100.00                    | 161.53                         | 557.32                        | 41.24                          | 565.84                        | 384.61                               | 389.04                               |
| 26-Oct-15 | 14:32:00 | 280.3             | 10.30                  | 0.999        | 3003.2       | 17.51                      | 50.01                        | 87.69                     | 100.00                    | 161.53                         | 557.32                        | 41.24                          | 565.84                        | 384.61                               | 389.05                               |
| 26-Oct-15 | 14:32:05 | 280.4             | 10.30                  | 0.999        | 3003.2       | 17.51                      | 50.02                        | 87.75                     | 100.00                    | 161.52                         | 557.30                        | 41.24                          | 565.81                        | 384.61                               | 389.06                               |
| 26-Oct-15 | 14:32:10 | 280.6             | 10.30                  | 0.999        | 3002.2       | 17.51                      | 50.02                        | 87.32                     | 100.00                    | 161.51                         | 557.29                        | 41.24                          | 565.77                        |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 14:36:20 | 279.9             | 9.65                   | 0.999        | 2997.4       | 17.49                      | 49.90                        | 88.81                     | 100.00                    | 161.05                         | 557.62                        | 41.16                          | 565.56                        | 384.69                               | 388.95                               |
| 26-Oct-15 | 14:36:25 | 279.9             | 9.43                   | 0.999        | 2998.5       | 17.50                      | 49.89                        | 89.17                     | 100.00                    | 161.04                         | 557.64                        | 41.16                          | 565.57                        | 384.70                               | 388.95                               |
| 26-Oct-15 | 14:36:30 | 280.0             | 9.21                   | 0.999        | 2999.8       | 17.50                      | 49.89                        | 88.56                     | 100.00                    | 161.03                         | 557.66                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:36:35 | 280.1             | 8.99                   | 0.999        | 2999.3       | 17.50                      | 49.89                        | 88.82                     | 100.00                    | 161.03                         | 557.68                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:36:40 | 280.2             | 8.77                   | 1.000        | 2998.6       | 17.50                      | 49.88                        | 88.54                     | 100.00                    | 161.03                         | 557.70                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:36:45 | 279.6             | 8.55                   | 1.000        | 3002.6       | 17.50                      | 49.89                        | 89.10                     | 100.00                    | 161.03                         | 557.72                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:36:50 | 279.9             | 8.33                   | 1.000        | 3001.2       | 17.51                      | 49.90                        | 88.81                     | 100.00                    | 161.03                         | 557.72                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:36:55 | 280.2             | 8.11                   | 1.000        | 2995.3       | 17.51                      | 49.91                        | 88.26                     | 100.00                    | 161.03                         | 557.72                        | 41.16                          | 565.57                        | 384.72                               | 388.95                               |
| 26-Oct-15 | 14:37:00 | 279.7             | 7.89                   | 1.000        | 2998.3       | 17.51                      | 49.92                        | 89.05                     | 100.00                    | 161.03                         | 557.73                        | 41.16                          | 565.57                        | 384.72                               | 388.97                               |
| 26-Oct-15 | 14:37:05 | 279.6             | 7.73                   | 1.000        | 3001.4       | 17.51                      | 49.94                        | 89.24                     | 100.00                    | 161.05                         | 557.77                        | 41.15                          | 565.62                        | 384.74                               | 388.97                               |
| 26-Oct-15 | 14:37:10 | 279.8             | 7.73                   | 1.000        | 3002.4       | 17.51                      | 49.94                        | 88.92                     | 100.00                    | 161.07                         | 557.82                        | 41.15                          | 565.67                        | 384.75                               | 388.97                               |
| 26-Oct-15 | 14:37:15 | 280.2             | 7.73                   | 1.000        | 3000.6       | 17.51                      | 49.94                        | 88.43                     | 100.00                    | 161.08                         | 557.87                        | 41.14                          | 565.72                        | 384.75                               | 388.98                               |
| 26-Oct-15 | 14:37:20 | 280.1             | 7.73                   | 1.000        | 2999.3       | 17.51                      | 49.94                        | 88.47                     | 100.00                    | 161.10                         | 557.91                        | 41.14                          | 565.77                        | 384.76                               | 388.98                               |
| 26-Oct-15 | 14:37:25 | 279.9             | 7.78                   | 1.000        | 2999.2       | 17.51                      | 49.94                        | 88.95                     | 100.00                    | 161.11                         | 557.96                        | 41.14                          | 565.82                        | 384.74                               | 388.98                               |
| 26-Oct-15 | 14:37:30 | 280.1             | 7.97                   | 1.000        | 2999.1       | 17.51                      | 49.95                        | 89.19                     | 100.00                    | 161.13                         | 558.00                        | 41.14                          | 565.87                        | 384.72                               | 388.99                               |
| 26-Oct-15 | 14:37:35 | 279.9             | 8.16                   | 1.000        | 2999.3       | 17.50                      | 49.96                        | 89.20                     | 100.00                    | 161.14                         | 558.05                        | 41.14                          | 565.89                        | 384.74                               | 388.99                               |
| 26-Oct-15 | 14:37:40 | 279.6             | 8.34                   | 1.000        | 3003.0       | 17.50                      | 49.98                        | 89.87                     | 100.00                    | 161.13                         | 558.10                        | 41.15                          | 565.91                        | 384.75                               | 388.96                               |
| 26-Oct-15 | 14:37:45 | 280.2             | 8.52                   | 1.000        | 3000.3       | 17.50                      | 49.98                        | 88.56                     | 100.00                    | 161.13                         | 558.13                        | 41.15                          | 565.93                        | 384.74                               | 388.96                               |
| 26-Oct-15 | 14:37:50 | 280.0             | 8.73                   | 1.000        | 3000.9       | 17.49                      | 49.97                        | 88.58                     | 100.00                    | 161.13                         | 558.13                        | 41.15                          | 565.95                        | 384.74                               | 388.97                               |
| 26-Oct-15 | 14:37:55 | 280.0             | 8.90                   | 0.999        | 3001.5       | 17.49                      | 49.96                        | 89.16                     | 100.00                    | 161.12                         | 558.13                        | 41.15                          | 565.97                        | 384.75                               | 388.98                               |
| 26-Oct-15 | 14:38:00 | 280.5             | 9.09                   | 0.999        | 3000.9       | 17.49                      | 49.94                        | 88.26                     | 100.00                    | 161.12                         | 558.13                        | 41.15                          | 565.99                        | 384.73                               | 388.98                               |
| 26-Oct-15 | 14:38:05 | 280.4             | 9.23                   | 0.999        | 2995.7       | 17.48                      | 49.94                        | 88.49                     | 100.00                    | 161.12                         | 558.13                        | 41.15                          | 566.01                        | 384.76                               | 388.99                               |
| 26-Oct-15 | 14:38:10 | 280.2             | 8.67                   | 1.000        | 2998.4       | 17.48                      | 49.95                        | 88.82                     | 100.00                    | 161.11                         | 558.13                        | 41.15                          | 566.03                        | 384.73                               | 388.98                               |
| 26-Oct-15 | 14:38:15 | 279.6             | 8.11                   | 1.000        | 3000.0       | 17.48                      | 49.97                        | 89.16                     | 100.00                    | 161.11                         | 558.13                        | 41.15                          | 566.05                        | 384.73                               | 388.97                               |
| 26-Oct-15 | 14:38:20 | 279.6             | 7.56                   | 1.000        | 3002.8       | 17.48                      | 49.98                        | 88.90                     | 100.00                    | 161.11                         | 558.13                        | 41.15                          | 566.07                        | 384.73                               | 388.96                               |
| 26-Oct-15 | 14:38:25 | 279.8             | 8.16                   | 1.000        | 3003.2       | 17.48                      | 49.99                        | 88.53                     | 100.00                    | 161.11                         | 558.13                        | 41.15                          | 566.09                        | 384.76                               | 388.96                               |
| 26-Oct-15 | 14:38:30 | 280.4             | 9.21                   | 0.999        | 3003.2       | 17.48                      | 49.99                        | 88.23                     | 100.00                    | 161.10                         | 558.13                        | 41.15                          | 566.11                        | 384.72                               | 388.99                               |
| 26-Oct-15 | 14:38:35 | 279.9             | 8.47                   | 1.000        | 3003.2       | 17.48                      | 49.99                        | 89.13                     | 100.00                    | 161.10                         | 558.13                        | 41.15                          | 566.11                        | 384.75                               | 389.00                               |
| 26-Oct-15 | 14:38:40 | 280.1             | 7.73                   | 1.000        | 3003.2       | 17.48                      | 49.99                        | 88.77                     | 100.00                    | 161.10                         | 558.25                        | 41.15                          | 566.11                        | 384.73                               | 389.00                               |
| 26-Oct-15 | 14:38:45 | 280.2             | 7.33                   | 1.000        | 3003.2       | 17.48                      | 49.99                        | 89.20                     | 100.00                    | 161.10                         | 558.67                        | 41.15                          | 566.15                        | 384.75                               | 389.00                               |
| 26-Oct-15 | 14:38:50 | 280.2             | 7.33                   | 1.000        | 3003.9       | 17.48                      | 49.99                        | 89.02                     | 100.00                    | 161.10                         | 558.70                        | 41.16                          | 566.19                        | 384.75                               | 389.01                               |
| 26-Oct-15 | 14:38:55 | 280.0             | 7.33                   | 1.000        | 3004.9       | 17.48                      | 49.99                        | 88.74                     | 100.00                    | 161.10                         | 558.73                        | 41.16                          | 566.23                        | 384.75                               | 389.01                               |
| 26-Oct-15 | 14:39:00 | 279.9             | 7.33                   | 1.000        | 3006.9       | 17.48                      | 49.99                        | 88.46                     | 100.00                    | 161.10                         | 558.76                        | 41.16                          | 566.28                        | 384.72                               | 389.01                               |
| 26-Oct-15 | 14:39:05 | 280.4             | 8.19                   | 1.000        | 3001.4       | 17.48                      | 49.99                        | 88.21                     | 100.00                    | 161.10                         | 558.79                        | 41.16                          | 566.32                        | 384.75                               | 389.02                               |
| 26-Oct-15 | 14:39:10 | 280.4             | 8.41                   | 1.000        | 2999.1       | 17.48                      | 49.99                        | 88.72                     | 100.00                    | 161.10                         | 558.82                        | 41.17                          | 566.36                        | 384.73                               | 389.02                               |
| 26-Oct-15 | 14:39:15 | 279.8             | 7.24                   | 1.000        | 3003.0       | 17.48                      | 49.99                        | 89.20                     | 100.00                    | 161.10                         | 558.85                        | 41.17                          | 566.40                        | 384.75                               | 389.02                               |
| 26-Oct-15 | 14:39:20 | 280.2             | 7.28                   | 1.000        | 3002.6       | 17.48                      | 49.99                        | 88.57                     | 100.00                    | 161.10                         | 558.88                        | 41.17                          | 566.45                        | 384.73                               | 389.03                               |
| 26-Oct-15 | 14:39:25 | 280.2             | 7.31                   | 1.000        | 3002.1       | 17.48                      | 50.00                        | 88.21                     | 100.00                    | 161.10                         | 558.90                        | 41.17                          | 566.49                        | 384.75                               | 389.01                               |
| 26-Oct-15 | 14:39:30 | 280.0             | 7.34                   | 1.000        | 3001.6       | 17.48                      | 50.00                        | 88.30                     | 100.00                    | 161.10                         | 558.93                        | 41.17                          | 566.53                        | 384.74                               | 389.02                               |
| 26-Oct-15 | 14:39:35 | 279.9             | 7.37                   | 1.000        | 3001.4       | 17.48                      | 50.00                        | 88.09                     | 100.00                    | 161.10                         | 558.96                        | 41.17                          | 566.53                        | 384.73                               | 389.00                               |
| 26-Oct-15 | 14:39:40 | 280.0             | 7.40                   | 1.000        | 3003.6       | 17.48                      | 50.02                        | 88.48                     | 100.00                    | 161.10                         | 558.99                        | 41.17                          | 566.53                        | 384.75                               | 389.01                               |
| 26-Oct-15 | 14:39:45 | 280.1             | 7.43                   | 1.000        | 3004.6       | 17.48                      | 50.03                        | 88.07                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.73                               | 389.00                               |
| 26-Oct-15 | 14:39:50 | 280.3             | 7.46                   | 1.000        | 3006.4       | 17.48                      | 50.03                        | 87.99                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.72                               | 389.02                               |
| 26-Oct-15 | 14:39:55 | 279.9             | 7.50                   | 1.000        | 3008.1       | 17.48                      | 50.04                        | 88.14                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.75                               | 389.00                               |
| 26-Oct-15 | 14:40:00 | 280.1             | 7.53                   | 1.000        | 3008.7       | 17.48                      | 50.04                        | 88.09                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.73                               | 389.02                               |
| 26-Oct-15 | 14:40:05 | 280.4             | 7.56                   | 1.000        | 3003.0       | 17.48                      | 50.02                        | 87.76                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.72                               | 389.03                               |
| 26-Oct-15 | 14:40:10 | 280.5             | 7.59                   | 1.000        | 2999.7       | 17.48                      | 49.98                        | 88.00                     | 100.00                    | 161.10                         | 559.01                        | 41.18                          | 566.53                        | 384.73                               | 389.03                               |
| 26-Oct-15 | 14:40:15 | 279.8             | 7.62                   | 1.000        | 3000.9       | 17.48                      | 49.96                        | 88.61                     | 100.00                    | 161.10                         | 559.01                        | 41.19                          | 566.53                        | 384.75                               | 389.04                               |
| 26-Oct-15 | 14:40:20 | 280.1             | 7.62                   | 1.000        | 3005.8       | 17.48                      | 49.99                        | 88.94                     | 100.00                    | 161.10                         | 559.01                        | 41.19                          | 566.53                        | 384.74                               | 389.04                               |
| 26-Oct-15 | 14:40:25 | 280.5             | 7.62                   | 1.000        | 3003.2       | 17.48                      | 50.00                        | 88.23                     | 100.00                    | 161.12                         | 559.01                        | 41.19                          | 566.55                        | 384.73                               | 389.04                               |
| 26-Oct-15 | 14:40:30 | 280.6             | 7.62                   | 1.000        | 3002.5       | 17.48                      | 50.00                        | 87.86                     | 100.00                    | 161.14                         | 559.02                        | 41.19                          | 566.57                        | 384.73                               | 389.05                               |
| 26-Oct-15 | 14:40:35 | 280.5             | 7.62                   | 1.000        | 3001.4       | 17.48                      | 50.00                        | 87.62                     | 100.00                    | 161.16                         | 559.02                        | 41.19                          | 566.58                        | 384.74                               | 389.05                               |
| 26-Oct-15 | 14:40:40 | 280.4             | 7.62                   | 1.000        | 2999.9       | 17.48                      | 50.00                        | 87.70                     | 100.00                    | 161.15                         | 559.02                        | 41.19                          | 566.58                        | 384.75                               | 389.06                               |
| 26-Oct-15 | 14:40:45 | 280.3             | 7.68                   | 1.000        | 3000.0       | 17.48                      | 49.94                        | 87.78                     | 100.00                    | 161.15                         | 559.03                        | 41.19                          | 566.58                        | 384.75                               | 389.06                               |
| 26-Oct-15 | 14:40:50 | 280.3             | 7.92                   | 1.000        | 2999.6       | 17.48                      | 49.93                        | 87.74                     | 100.00                    | 161.14                         | 559.05                        | 41.19                          | 566.58                        | 384.72                               | 389.06                               |
| 26-Oct-15 | 14:40:55 | 280.6             | 8.16                   | 1.000        | 2997.5       | 17.48                      | 49.92                        | 87.38                     | 100.00                    | 161.14                         | 559.07                        | 41.19                          | 566.58                        | 384.71                               | 389.07                               |
| 26-Oct-15 | 14:41:00 | 280.5             | 8.41                   | 1.000        | 2996.1       | 17.48                      | 49.90                        | 87.24                     | 100.00                    | 161.14                         | 559.09                        | 41.19                          | 566.57                        | 384.73                               | 389.03                               |
| 26-Oct-15 | 14:41:05 | 280.3             | 8.65                   | 1.000        | 2998.2       | 17.48                      | 49.89                        | 87.49                     | 100.00                    | 161.13                         | 559.11                        | 41.20                          | 566.57                        | 384.70                               | 389.05                               |
| 26-Oct-15 | 14:41:10 | 280.5             | 8.89                   | 0.999        | 3001.0       | 17.48                      | 49.89                        | 87.43                     | 100.00                    | 161.13                         | 559.13                        | 41.20                          | 566.57                        | 384.70                               | 389.04                               |
| 26-Oct-15 | 14:41:15 | 280.6             | 9.13                   | 0.999        | 2995.2       | 17.48                      | 49.88                        | 87.18                     | 100.00                    | 161.13                         | 559.15                        | 41.20                          | 566.57                        | 384.69                               | 389.04                               |
| 26-Oct-15 | 14:41:20 | 280.7             | 9.07                   | 0.999        | 2994.4       | 17.48                      | 49.87                        | 87.28                     | 100.00                    | 161.12                         | 559.17                        | 41.20                          | 566.57                        | 384.69                               | 389.05                               |
| 26-Oct-15 | 14:41:25 | 280.0             | 8.96                   | 0.999        | 2993.6       | 17.48                      | 49.86                        | 87.54                     | 100.00                    | 161.12                         | 559.19                        | 41.20                          | 566.57                        | 384.68                               | 389.06                               |
| 26-Oct-15 | 14:41:30 | 280.4             | 8.86                   | 1.000        | 2992.9       | 17.48                      | 49.86                        | 87.14                     | 100.00                    | 161.11                         | 559.21                        | 41.20                          | 566.57                        | 384.71                               | 389.06                               |
| 26-Oct-15 | 14:41:35 | 280.3             | 8.75                   | 1.000        | 2992.1       | 17.48                      | 49.85                        | 87.10                     | 100.00                    | 161.11                         | 559.23                        | 41.20                          | 566.57                        | 384.68                               | 389.04                               |
| 26-Oct-15 | 14:41:40 | 280.2             | 8.65                   | 1.000        | 2991.5       | 17.48                      | 49.84                        | 87.24                     | 100.00                    | 161.11                         | 559.24                        | 41.20                          | 566.57                        | 384.69                               | 389.05                               |
| 26-Oct-15 | 14:41:45 | 280.1             | 8.55                   | 1.000        | 2993.9       | 17.48                      | 49.83                        | 87.39                     | 100.00                    | 161.11                         | 559.26                        | 41.20                          | 566.57                        | 384.72                               | 389.07                               |
| 26-Oct-15 | 14:41:50 | 280.2             | 8.44                   | 1.000        | 2994.0       | 17.48                      | 49.82                        | 87.22                     | 100.00                    | 161.11                         | 559.27                        | 41.20                          | 566.57                        | 384.71                               | 389.05                               |
| 26-Oct-15 | 14:41:55 | 280.4             | 8.34                   | 1.000        | 2991.4       | 17.48                      | 49.81                        | 86.90                     | 100.00                    | 161.11                         | 559.27                        | 41.20                          | 566.57                        | 384.70                               | 389.04                               |
| 26-Oct-15 | 14:42:00 | 280.3             | 8.23                   | 1.000        | 2991.6       | 17.48                      | 49.79                        | 86.88                     | 100.00                    | 161.11                         | 559.26                        | 41.20                          | 566.57                        | 384.68                               | 389.05                               |
| 26-Oct-15 |          |                   |                        |              |              |                            |                              |                           |                           |                                |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 14:46:10 | 280.7             | 10.67                  | 0.999        | 2988.3       | 17.48                      | 49.72                        | 86.69                     | 100.00                    | 161.33                         | 559.13                        | 41.22                          | 565.97                        | 384.81                               | 389.18                               |
| 26-Oct-15 | 14:46:15 | 280.9             | 10.72                  | 0.999        | 2987.4       | 17.48                      | 49.72                        | 86.71                     | 100.00                    | 161.33                         | 559.13                        | 41.22                          | 565.97                        | 384.82                               | 389.18                               |
| 26-Oct-15 | 14:46:20 | 280.8             | 10.77                  | 0.999        | 2987.8       | 17.48                      | 49.72                        | 86.73                     | 100.00                    | 161.33                         | 559.12                        | 41.22                          | 565.96                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:25 | 280.5             | 10.82                  | 0.999        | 2988.3       | 17.48                      | 49.72                        | 86.75                     | 100.00                    | 161.34                         | 559.12                        | 41.22                          | 565.95                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:30 | 280.4             | 10.87                  | 0.999        | 2988.0       | 17.48                      | 49.72                        | 86.77                     | 100.00                    | 161.34                         | 559.11                        | 41.22                          | 565.94                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:35 | 280.3             | 10.92                  | 0.999        | 2986.6       | 17.48                      | 49.72                        | 86.81                     | 100.00                    | 161.34                         | 559.11                        | 41.22                          | 565.94                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:40 | 280.1             | 10.98                  | 0.999        | 2987.4       | 17.48                      | 49.73                        | 86.72                     | 100.00                    | 161.39                         | 559.10                        | 41.22                          | 565.94                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:45 | 280.5             | 11.05                  | 0.999        | 2985.8       | 17.48                      | 49.73                        | 86.64                     | 100.00                    | 161.44                         | 559.09                        | 41.22                          | 565.94                        | 384.83                               | 389.18                               |
| 26-Oct-15 | 14:46:50 | 280.2             | 11.45                  | 0.999        | 2986.7       | 17.49                      | 49.74                        | 86.43                     | 100.00                    | 161.50                         | 559.09                        | 41.22                          | 565.94                        | 384.84                               | 389.18                               |
| 26-Oct-15 | 14:46:55 | 280.2             | 11.84                  | 0.999        | 2987.8       | 17.49                      | 49.75                        | 86.81                     | 100.00                    | 161.55                         | 559.09                        | 41.22                          | 565.94                        | 384.84                               | 389.18                               |
| 26-Oct-15 | 14:47:00 | 280.9             | 12.23                  | 0.999        | 2984.0       | 17.49                      | 49.75                        | 86.28                     | 100.00                    | 161.55                         | 559.09                        | 41.22                          | 565.94                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:47:05 | 280.7             | 12.63                  | 0.999        | 2986.4       | 17.49                      | 49.76                        | 86.28                     | 100.00                    | 161.59                         | 559.06                        | 41.22                          | 565.93                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:47:10 | 279.8             | 12.87                  | 0.999        | 2989.9       | 17.49                      | 49.76                        | 87.12                     | 100.00                    | 161.62                         | 559.04                        | 41.22                          | 565.92                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:47:15 | 280.5             | 11.07                  | 0.999        | 2990.1       | 17.49                      | 49.77                        | 86.46                     | 100.00                    | 161.65                         | 559.02                        | 41.22                          | 565.92                        | 384.86                               | 389.18                               |
| 26-Oct-15 | 14:47:20 | 280.8             | 10.84                  | 0.999        | 2988.6       | 17.49                      | 49.77                        | 85.95                     | 100.00                    | 161.69                         | 558.99                        | 41.22                          | 565.91                        | 384.86                               | 389.18                               |
| 26-Oct-15 | 14:47:25 | 281.0             | 10.85                  | 0.999        | 2990.8       | 17.49                      | 49.75                        | 85.47                     | 100.00                    | 161.72                         | 558.97                        | 41.22                          | 565.90                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:47:30 | 281.1             | 10.88                  | 0.999        | 2984.7       | 17.49                      | 49.71                        | 85.70                     | 100.00                    | 161.75                         | 558.94                        | 41.23                          | 565.89                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:47:35 | 280.6             | 10.91                  | 0.999        | 2987.7       | 17.49                      | 49.72                        | 86.30                     | 100.00                    | 161.76                         | 558.92                        | 41.23                          | 565.88                        | 384.86                               | 389.18                               |
| 26-Oct-15 | 14:47:40 | 280.3             | 10.94                  | 0.999        | 2989.6       | 17.49                      | 49.73                        | 86.25                     | 100.00                    | 161.77                         | 558.89                        | 41.23                          | 565.87                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:47:45 | 280.7             | 10.97                  | 0.999        | 2987.7       | 17.49                      | 49.74                        | 86.19                     | 100.00                    | 161.77                         | 558.87                        | 41.23                          | 565.86                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:47:50 | 280.8             | 11.00                  | 0.999        | 2984.6       | 17.49                      | 49.75                        | 86.46                     | 100.00                    | 161.78                         | 558.87                        | 41.23                          | 565.85                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:47:55 | 280.3             | 11.03                  | 0.999        | 2987.7       | 17.49                      | 49.76                        | 87.22                     | 100.00                    | 161.78                         | 558.87                        | 41.23                          | 565.84                        | 384.84                               | 389.18                               |
| 26-Oct-15 | 14:48:00 | 280.4             | 11.07                  | 0.999        | 2988.5       | 17.49                      | 49.77                        | 86.70                     | 100.00                    | 161.79                         | 558.87                        | 41.23                          | 565.82                        | 384.85                               | 389.18                               |
| 26-Oct-15 | 14:48:05 | 280.6             | 11.10                  | 0.999        | 2989.3       | 17.49                      | 49.81                        | 86.85                     | 100.00                    | 161.79                         | 558.87                        | 41.23                          | 565.81                        | 384.86                               | 389.18                               |
| 26-Oct-15 | 14:48:10 | 280.8             | 11.13                  | 0.999        | 2989.1       | 17.49                      | 49.82                        | 86.07                     | 100.00                    | 161.80                         | 558.87                        | 41.23                          | 565.80                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:48:15 | 280.6             | 11.15                  | 0.999        | 2992.0       | 17.49                      | 49.83                        | 86.51                     | 100.00                    | 161.80                         | 558.87                        | 41.23                          | 565.79                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:48:20 | 280.4             | 11.15                  | 0.999        | 2993.0       | 17.49                      | 49.83                        | 86.66                     | 100.00                    | 161.81                         | 558.87                        | 41.23                          | 565.78                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:48:25 | 280.7             | 11.15                  | 0.999        | 2994.0       | 17.49                      | 49.84                        | 86.80                     | 100.00                    | 161.81                         | 558.87                        | 41.23                          | 565.76                        | 384.87                               | 389.18                               |
| 26-Oct-15 | 14:48:30 | 281.1             | 11.15                  | 0.999        | 2994.0       | 17.49                      | 49.84                        | 86.95                     | 100.00                    | 161.82                         | 558.87                        | 41.23                          | 565.75                        | 384.88                               | 389.19                               |
| 26-Oct-15 | 14:48:35 | 280.7             | 11.15                  | 0.999        | 2994.0       | 17.49                      | 49.85                        | 87.09                     | 100.00                    | 161.82                         | 558.87                        | 41.23                          | 565.75                        | 384.89                               | 389.19                               |
| 26-Oct-15 | 14:48:40 | 280.6             | 11.15                  | 0.999        | 2993.4       | 17.49                      | 49.86                        | 87.24                     | 100.00                    | 161.82                         | 558.82                        | 41.23                          | 565.75                        | 384.90                               | 389.19                               |
| 26-Oct-15 | 14:48:45 | 280.4             | 11.15                  | 0.999        | 2995.2       | 17.49                      | 49.86                        | 87.38                     | 100.00                    | 161.81                         | 558.56                        | 41.24                          | 565.74                        | 384.89                               | 389.19                               |
| 26-Oct-15 | 14:48:50 | 280.4             | 11.15                  | 0.999        | 2994.2       | 17.49                      | 49.85                        | 86.84                     | 100.00                    | 161.80                         | 558.49                        | 41.24                          | 565.74                        | 384.91                               | 389.19                               |
| 26-Oct-15 | 14:48:55 | 281.1             | 11.15                  | 0.999        | 2992.4       | 17.49                      | 49.83                        | 86.50                     | 100.00                    | 161.80                         | 558.46                        | 41.25                          | 565.74                        | 384.92                               | 389.20                               |
| 26-Oct-15 | 14:49:00 | 280.8             | 11.15                  | 0.999        | 2987.9       | 17.49                      | 49.81                        | 86.85                     | 100.00                    | 161.79                         | 558.43                        | 41.25                          | 565.73                        | 384.92                               | 389.20                               |
| 26-Oct-15 | 14:49:05 | 280.6             | 10.92                  | 0.999        | 2988.5       | 17.49                      | 49.82                        | 87.20                     | 100.00                    | 161.78                         | 558.41                        | 41.27                          | 565.73                        | 384.93                               | 389.20                               |
| 26-Oct-15 | 14:49:10 | 280.5             | 10.06                  | 0.999        | 2991.7       | 17.49                      | 49.84                        | 87.21                     | 100.00                    | 161.78                         | 558.38                        | 41.28                          | 565.73                        | 384.93                               | 389.20                               |
| 26-Oct-15 | 14:49:15 | 280.7             | 9.64                   | 0.999        | 2995.5       | 17.49                      | 49.86                        | 86.79                     | 100.00                    | 161.77                         | 558.36                        | 41.30                          | 565.72                        | 384.94                               | 389.21                               |
| 26-Oct-15 | 14:49:20 | 281.2             | 10.38                  | 0.999        | 2991.2       | 17.49                      | 49.84                        | 86.35                     | 100.00                    | 161.76                         | 558.33                        | 41.30                          | 565.72                        | 384.94                               | 389.21                               |
| 26-Oct-15 | 14:49:25 | 281.2             | 11.12                  | 0.999        | 2988.0       | 17.49                      | 49.81                        | 86.38                     | 100.00                    | 161.76                         | 558.30                        | 41.28                          | 565.72                        | 384.94                               | 389.21                               |
| 26-Oct-15 | 14:49:30 | 280.9             | 10.99                  | 0.999        | 2987.7       | 17.49                      | 49.83                        | 86.54                     | 100.00                    | 161.75                         | 558.28                        | 41.27                          | 565.71                        | 384.94                               | 389.21                               |
| 26-Oct-15 | 14:49:35 | 280.8             | 10.43                  | 0.999        | 2986.7       | 17.49                      | 49.72                        | 87.33                     | 100.00                    | 161.75                         | 558.25                        | 41.26                          | 565.71                        | 384.93                               | 389.21                               |
| 26-Oct-15 | 14:49:40 | 280.2             | 9.88                   | 0.999        | 2990.4       | 17.49                      | 49.74                        | 87.72                     | 100.00                    | 161.75                         | 558.23                        | 41.26                          | 565.71                        | 384.93                               | 389.22                               |
| 26-Oct-15 | 14:49:45 | 280.0             | 9.32                   | 0.999        | 2996.9       | 17.49                      | 49.77                        | 87.63                     | 100.00                    | 161.75                         | 558.20                        | 41.27                          | 565.71                        | 384.94                               | 389.22                               |
| 26-Oct-15 | 14:49:50 | 280.7             | 9.25                   | 0.999        | 2998.3       | 17.49                      | 49.81                        | 86.95                     | 100.00                    | 161.75                         | 558.19                        | 41.28                          | 565.71                        | 384.93                               | 389.20                               |
| 26-Oct-15 | 14:49:55 | 281.1             | 9.25                   | 0.999        | 2992.8       | 17.49                      | 49.80                        | 86.84                     | 100.00                    | 161.75                         | 558.19                        | 41.29                          | 565.71                        | 384.94                               | 389.18                               |
| 26-Oct-15 | 14:50:00 | 280.6             | 9.25                   | 0.999        | 2995.0       | 17.49                      | 49.79                        | 86.97                     | 100.00                    | 161.75                         | 558.19                        | 41.30                          | 565.71                        | 384.91                               | 389.18                               |
| 26-Oct-15 | 14:50:05 | 280.5             | 9.25                   | 0.999        | 2999.0       | 17.49                      | 49.79                        | 87.06                     | 100.00                    | 161.75                         | 558.19                        | 41.30                          | 565.71                        | 384.95                               | 389.18                               |
| 26-Oct-15 | 14:50:10 | 281.1             | 9.25                   | 0.999        | 2994.5       | 17.49                      | 49.78                        | 86.59                     | 100.00                    | 161.75                         | 558.19                        | 41.30                          | 565.71                        | 384.91                               | 389.22                               |
| 26-Oct-15 | 14:50:15 | 280.9             | 9.25                   | 0.999        | 2991.4       | 17.49                      | 49.77                        | 86.81                     | 100.00                    | 161.75                         | 558.19                        | 41.30                          | 565.71                        | 384.94                               | 389.23                               |
| 26-Oct-15 | 14:50:20 | 280.7             | 9.25                   | 0.999        | 2990.4       | 17.49                      | 49.76                        | 87.19                     | 100.00                    | 161.75                         | 558.19                        | 41.30                          | 565.71                        | 384.93                               | 389.23                               |
| 26-Oct-15 | 14:50:25 | 280.3             | 9.25                   | 0.999        | 2990.8       | 17.49                      | 49.78                        | 87.51                     | 100.00                    | 161.74                         | 558.18                        | 41.30                          | 565.78                        | 384.92                               | 389.23                               |
| 26-Oct-15 | 14:50:30 | 280.3             | 9.25                   | 0.999        | 2994.0       | 17.49                      | 49.81                        | 87.48                     | 100.00                    | 161.73                         | 558.17                        | 41.30                          | 565.86                        | 384.93                               | 389.23                               |
| 26-Oct-15 | 14:50:35 | 280.5             | 9.25                   | 0.999        | 2998.3       | 17.49                      | 49.85                        | 87.43                     | 100.00                    | 161.72                         | 558.16                        | 41.30                          | 565.93                        | 384.91                               | 389.24                               |
| 26-Oct-15 | 14:50:40 | 280.7             | 9.25                   | 0.999        | 2998.4       | 17.49                      | 49.87                        | 87.39                     | 100.00                    | 161.71                         | 558.15                        | 41.29                          | 565.94                        | 384.94                               | 389.24                               |
| 26-Oct-15 | 14:50:45 | 280.4             | 9.30                   | 0.999        | 2998.6       | 17.49                      | 49.87                        | 87.34                     | 100.00                    | 161.70                         | 558.14                        | 41.29                          | 565.94                        | 384.91                               | 389.24                               |
| 26-Oct-15 | 14:50:50 | 280.5             | 9.41                   | 0.999        | 2993.4       | 17.49                      | 49.88                        | 87.46                     | 100.00                    | 161.69                         | 558.13                        | 41.29                          | 565.95                        | 384.93                               | 389.25                               |
| 26-Oct-15 | 14:50:55 | 280.0             | 9.40                   | 0.999        | 2991.0       | 17.49                      | 49.89                        | 87.67                     | 100.00                    | 161.68                         | 558.12                        | 41.28                          | 565.96                        | 384.94                               | 389.25                               |
| 26-Oct-15 | 14:51:00 | 280.0             | 9.40                   | 0.999        | 2998.8       | 17.49                      | 49.90                        | 88.08                     | 100.00                    | 161.68                         | 558.12                        | 41.28                          | 565.96                        | 384.92                               | 389.25                               |
| 26-Oct-15 | 14:51:05 | 280.0             | 9.40                   | 0.999        | 2998.5       | 17.49                      | 49.91                        | 88.13                     | 100.00                    | 161.67                         | 558.12                        | 41.28                          | 565.96                        | 384.94                               | 389.25                               |
| 26-Oct-15 | 14:51:10 | 280.4             | 9.39                   | 0.999        | 3000.8       | 17.49                      | 49.92                        | 87.94                     | 100.00                    | 161.66                         | 558.12                        | 41.28                          | 565.97                        | 384.93                               | 389.26                               |
| 26-Oct-15 | 14:51:15 | 280.7             | 9.39                   | 0.999        | 3000.1       | 17.49                      | 49.93                        | 87.85                     | 100.00                    | 161.65                         | 558.12                        | 41.28                          | 565.97                        | 384.95                               | 389.25                               |
| 26-Oct-15 | 14:51:20 | 280.4             | 9.38                   | 0.999        | 2996.7       | 17.49                      | 49.94                        | 88.09                     | 100.00                    | 161.64                         | 558.12                        | 41.28                          | 565.98                        | 384.96                               | 389.25                               |
| 26-Oct-15 | 14:51:25 | 280.1             | 9.38                   | 0.999        | 2999.0       | 17.49                      | 49.95                        | 88.32                     | 100.00                    | 161.63                         | 558.11                        | 41.28                          | 565.98                        | 384.97                               | 389.23                               |
| 26-Oct-15 | 14:51:30 | 280.0             | 9.38                   | 0.999        | 3000.4       | 17.49                      | 49.96                        | 88.47                     | 100.00                    | 161.62                         | 558.11                        | 41.28                          | 565.99                        | 384.97                               | 389.26                               |
| 26-Oct-15 | 14:51:35 | 280.2             | 9.37                   | 0.999        | 3002.2       | 17.49                      | 49.98                        | 88.27                     | 100.00                    | 161.62                         | 558.11                        | 41.28                          | 565.99                        | 384.98                               | 389.26                               |
| 26-Oct-15 | 14:51:40 | 280.5             | 9.37                   | 0.999        | 3000.7       | 17.49                      | 50.01                        | 87.78                     | 100.00                    | 161.62                         | 558.11                        | 41.28                          | 565.99                        | 384.99                               | 389.26                               |
| 26-Oct-15 | 14:51:45 | 280.6             | 9.37                   | 0.999        | 2999.4       | 17.49                      | 49.99                        | 87.51                     | 100.00                    | 161.62                         | 558.10                        | 41.28                          | 565.99                        | 384.97                               | 389.26                               |
| 26-Oct-15 | 14:51:50 | 280.5             | 9.05                   | 0.999        | 3000.0       | 17.49                      | 49.96                        | 87.51                     | 100.00                    | 161.62                         | 558.10                        | 41.28                          | 565.99                        |                                      |                                      |



Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage Generator<br>kV | Frequency Generator<br>Hz | HP Valve Position<br>% | IP Valve Position<br>% | HP steam Pressure<br>bar(g) | HP steam Temperature<br>°C | IP steam Pressure<br>bar(g) | IP steam Temperature<br>°C | Outlet Boiler Temperature A<br>°C | Outlet Boiler Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|-------------------------|---------------------------|------------------------|------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------------|-----------------------------------|
| 26-Oct-15 | 14:56:00 | 281.2             | 10.24                  | 0.999        | 3012.8       | 17.48                   | 50.16                     | 87.18                  | 100.00                 | 161.51                      | 559.01                     | 41.33                       | 566.58                     | 385.23                            | 389.48                            |
| 26-Oct-15 | 14:56:05 | 281.3             | 10.06                  | 0.999        | 3011.3       | 17.48                   | 50.16                     | 87.23                  | 100.00                 | 161.51                      | 559.03                     | 41.33                       | 566.59                     | 385.24                            | 389.48                            |
| 26-Oct-15 | 14:56:10 | 280.6             | 9.89                   | 0.999        | 3014.2       | 17.48                   | 50.15                     | 87.24                  | 100.00                 | 161.51                      | 559.05                     | 41.33                       | 566.61                     | 385.25                            | 389.48                            |
| 26-Oct-15 | 14:56:15 | 281.2             | 9.72                   | 0.999        | 3011.1       | 17.48                   | 50.14                     | 86.41                  | 100.00                 | 161.51                      | 559.06                     | 41.33                       | 566.62                     | 385.24                            | 389.47                            |
| 26-Oct-15 | 14:56:20 | 281.2             | 9.55                   | 0.999        | 3011.2       | 17.48                   | 50.14                     | 86.25                  | 100.00                 | 161.51                      | 559.08                     | 41.33                       | 566.63                     | 385.24                            | 389.46                            |
| 26-Oct-15 | 14:56:25 | 280.9             | 9.38                   | 0.999        | 3011.3       | 17.48                   | 50.13                     | 86.40                  | 100.00                 | 161.51                      | 559.10                     | 41.33                       | 566.65                     | 385.24                            | 389.46                            |
| 26-Oct-15 | 14:56:30 | 281.0             | 9.21                   | 0.999        | 3011.4       | 17.48                   | 50.14                     | 86.51                  | 100.00                 | 161.51                      | 559.12                     | 41.33                       | 566.66                     | 385.22                            | 389.49                            |
| 26-Oct-15 | 14:56:35 | 281.1             | 9.04                   | 0.999        | 3011.3       | 17.48                   | 50.15                     | 86.00                  | 100.00                 | 161.51                      | 559.13                     | 41.33                       | 566.67                     | 385.25                            | 389.49                            |
| 26-Oct-15 | 14:56:40 | 280.8             | 8.86                   | 1.000        | 3012.5       | 17.48                   | 50.16                     | 86.11                  | 100.00                 | 161.51                      | 559.15                     | 41.33                       | 566.67                     | 385.25                            | 389.49                            |
| 26-Oct-15 | 14:56:45 | 280.6             | 8.69                   | 1.000        | 3014.1       | 17.48                   | 50.17                     | 86.21                  | 100.00                 | 161.51                      | 559.17                     | 41.33                       | 566.67                     | 385.25                            | 389.49                            |
| 26-Oct-15 | 14:56:50 | 280.4             | 8.52                   | 1.000        | 3014.4       | 17.48                   | 50.18                     | 86.29                  | 100.00                 | 161.51                      | 559.18                     | 41.33                       | 566.67                     | 385.26                            | 389.49                            |
| 26-Oct-15 | 14:56:55 | 280.8             | 8.33                   | 1.000        | 3013.2       | 17.48                   | 50.17                     | 85.86                  | 100.00                 | 161.51                      | 559.18                     | 41.33                       | 566.67                     | 385.26                            | 389.50                            |
| 26-Oct-15 | 14:57:00 | 281.1             | 9.21                   | 0.999        | 3012.0       | 17.48                   | 50.17                     | 85.47                  | 100.00                 | 161.53                      | 559.17                     | 41.33                       | 566.67                     | 385.27                            | 389.51                            |
| 26-Oct-15 | 14:57:05 | 281.6             | 9.60                   | 0.999        | 3011.1       | 17.49                   | 50.16                     | 85.14                  | 100.00                 | 161.62                      | 559.15                     | 41.35                       | 566.64                     | 385.28                            | 389.51                            |
| 26-Oct-15 | 14:57:10 | 280.8             | 9.98                   | 0.999        | 3013.1       | 17.49                   | 50.15                     | 85.55                  | 100.00                 | 161.62                      | 559.12                     | 41.35                       | 566.61                     | 385.28                            | 389.52                            |
| 26-Oct-15 | 14:57:15 | 281.2             | 10.36                  | 0.999        | 3012.1       | 17.49                   | 50.14                     | 84.96                  | 100.00                 | 161.62                      | 559.10                     | 41.34                       | 566.58                     | 385.29                            | 389.52                            |
| 26-Oct-15 | 14:57:20 | 281.2             | 10.41                  | 0.999        | 3010.2       | 17.49                   | 50.13                     | 84.80                  | 100.00                 | 161.63                      | 559.07                     | 41.33                       | 566.55                     | 385.27                            | 389.54                            |
| 26-Oct-15 | 14:57:25 | 281.2             | 9.72                   | 0.999        | 3011.1       | 17.49                   | 50.13                     | 84.64                  | 100.00                 | 161.63                      | 559.05                     | 41.33                       | 566.52                     | 385.26                            | 389.55                            |
| 26-Oct-15 | 14:57:30 | 280.8             | 8.98                   | 0.999        | 3009.6       | 17.49                   | 50.11                     | 84.47                  | 100.00                 | 161.63                      | 559.02                     | 41.32                       | 566.50                     | 385.28                            | 389.56                            |
| 26-Oct-15 | 14:57:35 | 281.1             | 10.22                  | 0.999        | 3008.1       | 17.49                   | 50.10                     | 84.31                  | 100.00                 | 161.63                      | 559.00                     | 41.31                       | 566.47                     | 385.29                            | 389.57                            |
| 26-Oct-15 | 14:57:40 | 281.3             | 10.34                  | 0.999        | 3005.7       | 17.49                   | 50.09                     | 84.17                  | 100.00                 | 161.63                      | 558.97                     | 41.31                       | 566.45                     | 385.27                            | 389.58                            |
| 26-Oct-15 | 14:57:45 | 281.4             | 10.29                  | 0.999        | 3003.5       | 17.49                   | 50.08                     | 84.38                  | 100.00                 | 161.64                      | 558.95                     | 41.30                       | 566.42                     | 385.26                            | 389.58                            |
| 26-Oct-15 | 14:57:50 | 280.9             | 10.24                  | 0.999        | 3004.2       | 17.49                   | 50.05                     | 85.01                  | 100.00                 | 161.64                      | 558.93                     | 41.30                       | 566.40                     | 385.29                            | 389.59                            |
| 26-Oct-15 | 14:57:55 | 281.0             | 10.19                  | 0.999        | 3002.1       | 17.49                   | 50.02                     | 84.20                  | 100.00                 | 161.64                      | 558.93                     | 41.30                       | 566.38                     | 385.28                            | 389.59                            |
| 26-Oct-15 | 14:58:00 | 280.8             | 10.14                  | 0.999        | 3000.9       | 17.49                   | 50.00                     | 84.03                  | 100.00                 | 161.64                      | 558.93                     | 41.30                       | 566.36                     | 385.29                            | 389.60                            |
| 26-Oct-15 | 14:58:05 | 281.2             | 10.09                  | 0.999        | 2999.7       | 17.49                   | 49.99                     | 83.72                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.34                     | 385.29                            | 389.57                            |
| 26-Oct-15 | 14:58:10 | 281.4             | 10.04                  | 0.999        | 2999.2       | 17.49                   | 49.96                     | 83.39                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.32                     | 385.29                            | 389.60                            |
| 26-Oct-15 | 14:58:15 | 281.6             | 9.99                   | 0.999        | 2995.3       | 17.49                   | 49.93                     | 83.12                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.30                     | 385.29                            | 389.60                            |
| 26-Oct-15 | 14:58:20 | 281.3             | 9.94                   | 0.999        | 2996.9       | 17.49                   | 49.89                     | 83.58                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.28                     | 385.29                            | 389.60                            |
| 26-Oct-15 | 14:58:25 | 280.9             | 9.89                   | 0.999        | 2998.5       | 17.49                   | 49.88                     | 83.89                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.25                     | 385.29                            | 389.60                            |
| 26-Oct-15 | 14:58:30 | 280.9             | 9.84                   | 0.999        | 2999.6       | 17.49                   | 49.90                     | 83.88                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.23                     | 385.29                            | 389.61                            |
| 26-Oct-15 | 14:58:35 | 281.0             | 9.79                   | 0.999        | 2999.4       | 17.49                   | 49.91                     | 83.43                  | 100.00                 | 161.65                      | 558.93                     | 41.30                       | 566.21                     | 385.28                            | 389.62                            |
| 26-Oct-15 | 14:58:40 | 281.0             | 10.56                  | 0.999        | 2994.6       | 17.49                   | 49.89                     | 83.05                  | 100.00                 | 161.64                      | 558.89                     | 41.30                       | 566.21                     | 385.27                            | 389.64                            |
| 26-Oct-15 | 14:58:45 | 280.7             | 11.44                  | 0.999        | 2992.2       | 17.49                   | 49.86                     | 83.05                  | 100.00                 | 161.64                      | 558.85                     | 41.28                       | 566.15                     | 385.27                            | 389.65                            |
| 26-Oct-15 | 14:58:50 | 280.7             | 11.18                  | 0.999        | 2991.6       | 17.49                   | 49.83                     | 83.33                  | 100.00                 | 161.64                      | 558.49                     | 41.28                       | 566.09                     | 385.26                            | 389.65                            |
| 26-Oct-15 | 14:58:55 | 281.0             | 10.36                  | 0.999        | 2992.0       | 17.49                   | 49.82                     | 83.76                  | 100.00                 | 161.63                      | 558.45                     | 41.27                       | 566.03                     | 385.28                            | 389.65                            |
| 26-Oct-15 | 14:59:00 | 280.5             | 9.76                   | 0.999        | 2991.9       | 17.49                   | 49.82                     | 84.09                  | 100.00                 | 161.63                      | 558.41                     | 41.26                       | 565.97                     | 385.27                            | 389.66                            |
| 26-Oct-15 | 14:59:05 | 280.6             | 9.81                   | 0.999        | 2993.2       | 17.49                   | 49.87                     | 83.68                  | 100.00                 | 161.63                      | 558.37                     | 41.26                       | 565.91                     | 385.29                            | 389.66                            |
| 26-Oct-15 | 14:59:10 | 280.4             | 9.99                   | 0.999        | 2994.5       | 17.49                   | 49.84                     | 83.87                  | 100.00                 | 161.63                      | 558.34                     | 41.25                       | 565.86                     | 385.26                            | 389.66                            |
| 26-Oct-15 | 14:59:15 | 280.3             | 10.17                  | 0.999        | 2995.6       | 17.49                   | 49.85                     | 84.05                  | 100.00                 | 161.64                      | 558.30                     | 41.25                       | 565.80                     | 385.27                            | 389.67                            |
| 26-Oct-15 | 14:59:20 | 280.6             | 10.36                  | 0.999        | 2996.4       | 17.49                   | 49.87                     | 84.16                  | 100.00                 | 161.64                      | 558.26                     | 41.24                       | 565.76                     | 385.26                            | 389.67                            |
| 26-Oct-15 | 14:59:25 | 280.7             | 10.54                  | 0.999        | 2997.3       | 17.49                   | 49.88                     | 83.75                  | 100.00                 | 161.65                      | 558.22                     | 41.24                       | 565.68                     | 385.27                            | 389.67                            |
| 26-Oct-15 | 14:59:30 | 280.4             | 10.72                  | 0.999        | 2998.2       | 17.49                   | 49.90                     | 84.00                  | 100.00                 | 161.65                      | 558.18                     | 41.23                       | 565.62                     | 385.29                            | 389.68                            |
| 26-Oct-15 | 14:59:35 | 280.4             | 10.91                  | 0.999        | 2999.0       | 17.49                   | 49.91                     | 84.24                  | 100.00                 | 161.66                      | 558.15                     | 41.23                       | 565.56                     | 385.27                            | 389.68                            |
| 26-Oct-15 | 14:59:40 | 280.6             | 11.09                  | 0.999        | 2999.6       | 17.49                   | 49.92                     | 84.14                  | 100.00                 | 161.66                      | 558.11                     | 41.23                       | 565.56                     | 385.29                            | 389.64                            |
| 26-Oct-15 | 14:59:45 | 280.7             | 11.27                  | 0.999        | 2998.7       | 17.49                   | 49.91                     | 84.05                  | 100.00                 | 161.67                      | 558.07                     | 41.23                       | 565.56                     | 385.26                            | 389.66                            |
| 26-Oct-15 | 14:59:50 | 280.4             | 11.46                  | 0.999        | 3000.0       | 17.48                   | 49.90                     | 83.95                  | 100.00                 | 161.68                      | 558.05                     | 41.23                       | 565.56                     | 385.26                            | 389.69                            |
| 26-Oct-15 | 14:59:55 | 280.7             | 11.64                  | 0.999        | 2996.0       | 17.48                   | 49.89                     | 83.85                  | 100.00                 | 161.68                      | 558.05                     | 41.23                       | 565.56                     | 385.27                            | 389.70                            |
| 26-Oct-15 | 15:00:00 | 280.8             | 11.14                  | 0.999        | 2997.7       | 17.48                   | 49.88                     | 84.20                  | 100.00                 | 161.69                      | 558.05                     | 41.23                       | 565.56                     | 385.27                            | 389.71                            |
| 26-Oct-15 | 15:00:05 | 280.9             | 10.54                  | 0.999        | 2998.9       | 17.48                   | 49.87                     | 83.76                  | 100.00                 | 161.69                      | 558.05                     | 41.23                       | 565.56                     | 385.27                            | 389.72                            |
| 26-Oct-15 | 15:00:10 | 280.5             | 9.94                   | 0.999        | 2998.6       | 17.48                   | 49.89                     | 83.85                  | 100.00                 | 161.69                      | 558.05                     | 41.23                       | 565.56                     | 385.26                            | 389.69                            |
| 26-Oct-15 | 15:00:15 | 279.3             | 9.63                   | 0.999        | 3001.7       | 17.48                   | 49.92                     | 85.87                  | 100.00                 | 161.69                      | 558.05                     | 41.23                       | 565.56                     | 385.26                            | 389.72                            |
| 26-Oct-15 | 15:00:20 | 280.1             | 9.63                   | 0.999        | 3005.8       | 17.48                   | 49.97                     | 85.26                  | 100.00                 | 161.70                      | 558.03                     | 41.23                       | 565.56                     | 385.29                            | 389.73                            |
| 26-Oct-15 | 15:00:25 | 280.7             | 9.63                   | 0.999        | 3003.1       | 17.48                   | 49.92                     | 84.35                  | 100.00                 | 161.72                      | 557.95                     | 41.22                       | 565.44                     | 385.30                            | 389.74                            |
| 26-Oct-15 | 15:00:30 | 281.2             | 9.63                   | 0.999        | 2995.1       | 17.48                   | 49.88                     | 83.51                  | 100.00                 | 161.74                      | 557.86                     | 41.22                       | 565.31                     | 385.30                            | 389.75                            |
| 26-Oct-15 | 15:00:35 | 280.9             | 9.63                   | 0.999        | 2994.6       | 17.48                   | 49.82                     | 84.09                  | 100.00                 | 161.77                      | 557.77                     | 41.22                       | 565.19                     | 385.31                            | 389.76                            |
| 26-Oct-15 | 15:00:40 | 281.0             | 9.63                   | 0.999        | 2994.9       | 17.48                   | 49.83                     | 84.27                  | 100.00                 | 161.79                      | 557.69                     | 41.22                       | 565.21                     | 385.32                            | 389.76                            |
| 26-Oct-15 | 15:00:45 | 280.5             | 10.17                  | 0.999        | 2993.6       | 17.48                   | 49.82                     | 84.23                  | 100.00                 | 161.82                      | 557.60                     | 41.23                       | 565.18                     | 385.32                            | 389.77                            |
| 26-Oct-15 | 15:00:50 | 280.4             | 11.50                  | 0.999        | 2992.0       | 17.48                   | 49.83                     | 84.43                  | 100.00                 | 161.84                      | 557.54                     | 41.23                       | 565.25                     | 385.33                            | 389.78                            |
| 26-Oct-15 | 15:00:55 | 280.2             | 11.11                  | 0.999        | 2998.3       | 17.49                   | 49.83                     | 84.53                  | 100.00                 | 161.86                      | 557.57                     | 41.24                       | 565.27                     | 385.31                            | 389.78                            |
| 26-Oct-15 | 15:01:00 | 280.7             | 10.72                  | 0.999        | 2995.8       | 17.49                   | 49.84                     | 84.64                  | 100.00                 | 161.89                      | 557.61                     | 41.24                       | 565.28                     | 385.33                            | 389.79                            |
| 26-Oct-15 | 15:01:05 | 280.7             | 10.32                  | 0.999        | 2991.5       | 17.49                   | 49.85                     | 84.89                  | 100.00                 | 161.90                      | 557.64                     | 41.24                       | 565.30                     | 385.34                            | 389.80                            |
| 26-Oct-15 | 15:01:10 | 280.5             | 9.93                   | 0.999        | 2994.7       | 17.49                   | 49.86                     | 85.23                  | 100.00                 | 161.90                      | 557.68                     | 41.25                       | 565.32                     | 385.35                            | 389.80                            |
| 26-Oct-15 | 15:01:15 | 280.3             | 9.74                   | 0.999        | 2997.2       | 17.49                   | 49.87                     | 85.20                  | 100.00                 | 161.90                      | 557.71                     | 41.25                       | 565.34                     | 385.35                            | 389.81                            |
| 26-Oct-15 | 15:01:20 | 280.2             | 10.08                  | 0.999        | 2999.3       | 17.49                   | 49.89                     | 84.82                  | 100.00                 | 161.90                      | 557.74                     | 41.25                       | 565.36                     | 385.36                            | 389.82                            |
| 26-Oct-15 | 15:01:25 | 280.1             | 10.42                  | 0.999        | 3000.7       | 17.49                   | 49.92                     | 85.05                  | 100.00                 | 161.90                      | 557.78                     | 41.26                       | 565.38                     | 385.37                            | 389.82                            |
| 26-Oct-15 | 15:01:30 | 280.1             | 10.76                  | 0.999        | 3003.1       | 17.49                   | 49.96                     | 84.78                  | 100.00                 | 161.90                      | 557.81                     | 41.26                       | 565.40                     | 385.34                            | 389.83                            |
| 26-Oct-15 | 15:01:35 | 280.8             | 11.11                  | 0.999        | 3001.1       | 17.49                   | 49.98                     | 84.50                  | 100.00                 | 161.90                      | 557.84                     | 41.26                       | 565.41                     | 385.37                            | 389.83                            |
| 26-Oct-15 | 15:01:40 | 280.7             | 11.45                  | 0.999        | 3002.0       | 17.49                   | 50.00                     | 84.77                  | 100.00                 | 161.90                      | 557.88                     | 41.26                       | 565.42                     | 385.37                            | 389.83                            |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 15:05:50 | 280.4             | 10.83                  | 0.999        | 3003.3       | 17.49                      | 49.99                        | 84.26                     | 100.00                    | 162.16                         | 557.57                        | 41.34                          | 565.92                        | 385.43                               | 390.01                               |
| 26-Oct-15 | 15:05:55 | 280.6             | 10.35                  | 0.999        | 3003.3       | 17.49                      | 50.00                        | 83.72                     | 100.00                    | 162.15                         | 557.54                        | 41.34                          | 565.89                        | 385.43                               | 390.01                               |
| 26-Oct-15 | 15:06:00 | 280.4             | 9.86                   | 0.999        | 3004.0       | 17.50                      | 50.01                        | 83.31                     | 100.00                    | 162.14                         | 557.51                        | 41.34                          | 565.87                        | 385.43                               | 390.02                               |
| 26-Oct-15 | 15:06:05 | 280.0             | 9.38                   | 0.999        | 3010.1       | 17.50                      | 50.02                        | 84.09                     | 100.00                    | 162.14                         | 557.49                        | 41.34                          | 565.85                        | 385.42                               | 390.02                               |
| 26-Oct-15 | 15:06:10 | 280.5             | 10.57                  | 0.999        | 3006.0       | 17.50                      | 50.03                        | 83.60                     | 100.00                    | 162.13                         | 557.46                        | 41.34                          | 565.82                        | 385.42                               | 389.99                               |
| 26-Oct-15 | 15:06:15 | 281.0             | 11.01                  | 0.999        | 3003.7       | 17.50                      | 50.03                        | 83.11                     | 100.00                    | 162.12                         | 557.43                        | 41.33                          | 565.80                        | 385.42                               | 390.02                               |
| 26-Oct-15 | 15:06:20 | 280.6             | 10.35                  | 0.999        | 3005.0       | 17.50                      | 50.03                        | 83.66                     | 100.00                    | 162.12                         | 557.41                        | 41.32                          | 565.77                        | 385.41                               | 390.02                               |
| 26-Oct-15 | 15:06:25 | 280.1             | 9.69                   | 0.999        | 3006.3       | 17.50                      | 50.03                        | 84.15                     | 100.00                    | 162.11                         | 557.38                        | 41.31                          | 565.75                        | 385.41                               | 390.02                               |
| 26-Oct-15 | 15:06:30 | 280.1             | 9.51                   | 0.999        | 3008.2       | 17.50                      | 50.02                        | 84.16                     | 100.00                    | 162.11                         | 557.35                        | 41.30                          | 565.73                        | 385.41                               | 390.02                               |
| 26-Oct-15 | 15:06:35 | 280.3             | 9.84                   | 0.999        | 3005.5       | 17.50                      | 50.02                        | 83.72                     | 100.00                    | 162.11                         | 557.32                        | 41.30                          | 565.70                        | 385.42                               | 390.02                               |
| 26-Oct-15 | 15:06:40 | 280.3             | 10.18                  | 0.999        | 3010.2       | 17.50                      | 50.02                        | 83.85                     | 100.00                    | 162.11                         | 557.30                        | 41.29                          | 565.69                        | 385.43                               | 390.02                               |
| 26-Oct-15 | 15:06:45 | 280.3             | 10.52                  | 0.999        | 3008.2       | 17.50                      | 50.02                        | 83.98                     | 100.00                    | 162.11                         | 557.27                        | 41.29                          | 565.69                        | 385.44                               | 390.02                               |
| 26-Oct-15 | 15:06:50 | 280.5             | 10.86                  | 0.999        | 3003.2       | 17.50                      | 50.02                        | 83.56                     | 100.00                    | 162.11                         | 557.24                        | 41.29                          | 565.69                        | 385.40                               | 390.03                               |
| 26-Oct-15 | 15:06:55 | 280.6             | 11.19                  | 0.999        | 3004.4       | 17.50                      | 50.02                        | 83.60                     | 100.00                    | 162.11                         | 557.24                        | 41.29                          | 565.69                        | 385.40                               | 390.04                               |
| 26-Oct-15 | 15:07:00 | 280.6             | 10.53                  | 0.999        | 3005.6       | 17.50                      | 50.02                        | 83.96                     | 100.00                    | 162.11                         | 557.23                        | 41.29                          | 565.69                        | 385.40                               | 390.05                               |
| 26-Oct-15 | 15:07:05 | 279.9             | 9.39                   | 0.999        | 3006.8       | 17.49                      | 50.02                        | 84.31                     | 100.00                    | 162.10                         | 557.22                        | 41.28                          | 565.66                        | 385.39                               | 390.04                               |
| 26-Oct-15 | 15:07:10 | 279.8             | 9.86                   | 0.999        | 3007.7       | 17.49                      | 50.05                        | 84.17                     | 100.00                    | 162.09                         | 557.20                        | 41.28                          | 565.63                        | 385.39                               | 390.04                               |
| 26-Oct-15 | 15:07:15 | 280.1             | 10.56                  | 0.999        | 3007.9       | 17.49                      | 50.05                        | 83.76                     | 100.00                    | 162.08                         | 557.18                        | 41.28                          | 565.61                        | 385.38                               | 390.03                               |
| 26-Oct-15 | 15:07:20 | 280.8             | 11.21                  | 0.999        | 3004.7       | 17.49                      | 50.03                        | 83.22                     | 100.00                    | 162.08                         | 557.17                        | 41.28                          | 565.58                        | 385.38                               | 390.05                               |
| 26-Oct-15 | 15:07:25 | 280.7             | 11.18                  | 0.999        | 3001.6       | 17.49                      | 50.01                        | 82.80                     | 100.00                    | 162.07                         | 557.15                        | 41.28                          | 565.55                        | 385.38                               | 390.04                               |
| 26-Oct-15 | 15:07:30 | 279.9             | 11.07                  | 0.999        | 3005.8       | 17.49                      | 50.02                        | 84.34                     | 100.00                    | 162.06                         | 557.13                        | 41.28                          | 565.52                        | 385.37                               | 390.03                               |
| 26-Oct-15 | 15:07:35 | 280.5             | 10.96                  | 0.999        | 3002.8       | 17.49                      | 50.03                        | 83.54                     | 100.00                    | 162.04                         | 557.12                        | 41.27                          | 565.50                        | 385.37                               | 390.04                               |
| 26-Oct-15 | 15:07:40 | 280.2             | 10.85                  | 0.999        | 3006.0       | 17.49                      | 50.03                        | 83.86                     | 100.00                    | 162.02                         | 557.10                        | 41.27                          | 565.48                        | 385.38                               | 390.04                               |
| 26-Oct-15 | 15:07:45 | 279.9             | 10.74                  | 0.999        | 3006.4       | 17.49                      | 50.04                        | 84.18                     | 100.00                    | 162.01                         | 557.08                        | 41.27                          | 565.49                        | 385.38                               | 390.04                               |
| 26-Oct-15 | 15:07:50 | 279.9             | 10.63                  | 0.999        | 3006.3       | 17.49                      | 50.04                        | 84.18                     | 100.00                    | 161.99                         | 557.07                        | 41.27                          | 565.50                        | 385.39                               | 390.05                               |
| 26-Oct-15 | 15:07:55 | 280.1             | 10.52                  | 0.999        | 3009.7       | 17.49                      | 50.05                        | 83.78                     | 100.00                    | 161.98                         | 557.06                        | 41.27                          | 565.52                        | 385.40                               | 390.04                               |
| 26-Oct-15 | 15:08:00 | 279.9             | 10.41                  | 0.999        | 3007.8       | 17.49                      | 50.06                        | 83.34                     | 100.00                    | 161.96                         | 557.06                        | 41.27                          | 565.53                        | 385.37                               | 390.03                               |
| 26-Oct-15 | 15:08:05 | 280.2             | 10.30                  | 0.999        | 3009.7       | 17.49                      | 50.06                        | 83.19                     | 100.00                    | 161.95                         | 557.06                        | 41.27                          | 565.55                        | 385.37                               | 390.06                               |
| 26-Oct-15 | 15:08:10 | 280.0             | 10.19                  | 0.999        | 3003.9       | 17.49                      | 50.04                        | 83.04                     | 100.00                    | 161.93                         | 557.06                        | 41.27                          | 565.56                        | 385.37                               | 390.06                               |
| 26-Oct-15 | 15:08:15 | 279.9             | 10.08                  | 0.999        | 3005.7       | 17.49                      | 50.02                        | 82.89                     | 100.00                    | 161.92                         | 557.06                        | 41.27                          | 565.57                        | 385.37                               | 390.06                               |
| 26-Oct-15 | 15:08:20 | 279.8             | 10.02                  | 0.999        | 3007.5       | 17.49                      | 50.02                        | 82.74                     | 100.00                    | 161.90                         | 557.06                        | 41.27                          | 565.59                        | 385.37                               | 390.06                               |
| 26-Oct-15 | 15:08:25 | 280.1             | 10.51                  | 0.999        | 3008.1       | 17.49                      | 50.05                        | 82.59                     | 100.00                    | 161.88                         | 557.06                        | 41.27                          | 565.60                        | 385.37                               | 390.06                               |
| 26-Oct-15 | 15:08:30 | 280.3             | 10.99                  | 0.999        | 3002.8       | 17.49                      | 50.05                        | 82.44                     | 100.00                    | 161.88                         | 557.06                        | 41.27                          | 565.62                        | 385.36                               | 390.07                               |
| 26-Oct-15 | 15:08:35 | 280.9             | 11.48                  | 0.999        | 3000.1       | 17.49                      | 49.97                        | 82.12                     | 100.00                    | 161.88                         | 557.06                        | 41.27                          | 565.63                        | 385.36                               | 390.08                               |
| 26-Oct-15 | 15:08:40 | 280.2             | 11.78                  | 0.999        | 2998.3       | 17.49                      | 49.92                        | 82.82                     | 100.00                    | 161.88                         | 557.09                        | 41.27                          | 565.64                        | 385.36                               | 390.09                               |
| 26-Oct-15 | 15:08:45 | 279.7             | 9.94                   | 0.999        | 3003.2       | 17.49                      | 49.95                        | 83.42                     | 100.00                    | 161.88                         | 557.22                        | 41.22                          | 565.66                        | 385.35                               | 390.07                               |
| 26-Oct-15 | 15:08:50 | 279.8             | 9.94                   | 0.999        | 3007.2       | 17.49                      | 50.01                        | 83.82                     | 100.00                    | 161.88                         | 557.35                        | 41.22                          | 565.69                        | 385.35                               | 390.09                               |
| 26-Oct-15 | 15:08:55 | 280.3             | 9.94                   | 0.999        | 3003.0       | 17.49                      | 50.01                        | 82.67                     | 100.00                    | 161.88                         | 557.39                        | 41.22                          | 565.72                        | 385.34                               | 390.10                               |
| 26-Oct-15 | 15:09:00 | 280.4             | 9.94                   | 0.999        | 3003.3       | 17.49                      | 50.01                        | 82.62                     | 100.00                    | 161.88                         | 557.41                        | 41.21                          | 565.75                        | 385.34                               | 390.10                               |
| 26-Oct-15 | 15:09:05 | 280.6             | 9.94                   | 0.999        | 2999.9       | 17.49                      | 49.97                        | 83.10                     | 100.00                    | 161.88                         | 557.44                        | 41.21                          | 565.78                        | 385.33                               | 390.11                               |
| 26-Oct-15 | 15:09:10 | 279.9             | 10.04                  | 0.999        | 3002.6       | 17.49                      | 49.96                        | 83.05                     | 100.00                    | 161.88                         | 557.46                        | 41.21                          | 565.81                        | 385.33                               | 390.11                               |
| 26-Oct-15 | 15:09:15 | 280.1             | 10.12                  | 0.999        | 3001.8       | 17.50                      | 49.97                        | 82.35                     | 100.00                    | 161.88                         | 557.48                        | 41.21                          | 565.83                        | 385.35                               | 390.12                               |
| 26-Oct-15 | 15:09:20 | 280.0             | 10.20                  | 0.999        | 3001.0       | 17.50                      | 49.97                        | 82.42                     | 100.00                    | 161.88                         | 557.50                        | 41.21                          | 565.86                        | 385.36                               | 390.12                               |
| 26-Oct-15 | 15:09:25 | 279.8             | 10.27                  | 0.999        | 3000.2       | 17.50                      | 49.98                        | 82.61                     | 100.00                    | 161.88                         | 557.53                        | 41.20                          | 565.89                        | 385.33                               | 390.12                               |
| 26-Oct-15 | 15:09:30 | 280.0             | 10.35                  | 0.999        | 2999.4       | 17.50                      | 49.98                        | 82.81                     | 100.00                    | 161.88                         | 557.55                        | 41.20                          | 565.92                        | 385.36                               | 390.13                               |
| 26-Oct-15 | 15:09:35 | 280.1             | 10.43                  | 0.999        | 3000.5       | 17.49                      | 49.99                        | 83.00                     | 100.00                    | 161.88                         | 557.57                        | 41.20                          | 565.95                        | 385.35                               | 390.13                               |
| 26-Oct-15 | 15:09:40 | 279.8             | 10.50                  | 0.999        | 3000.9       | 17.49                      | 49.99                        | 83.20                     | 100.00                    | 161.88                         | 557.60                        | 41.20                          | 565.96                        | 385.34                               | 390.14                               |
| 26-Oct-15 | 15:09:45 | 279.9             | 10.58                  | 0.999        | 3004.2       | 17.49                      | 50.00                        | 83.20                     | 100.00                    | 161.88                         | 557.62                        | 41.19                          | 565.96                        | 385.33                               | 390.13                               |
| 26-Oct-15 | 15:09:50 | 280.1             | 10.74                  | 0.999        | 3006.4       | 17.49                      | 50.01                        | 82.77                     | 100.00                    | 161.88                         | 557.64                        | 41.18                          | 565.96                        | 385.34                               | 390.14                               |
| 26-Oct-15 | 15:09:55 | 280.2             | 10.91                  | 0.999        | 3008.6       | 17.49                      | 50.01                        | 82.34                     | 100.00                    | 161.88                         | 557.64                        | 41.18                          | 565.96                        | 385.35                               | 390.14                               |
| 26-Oct-15 | 15:10:00 | 279.6             | 10.99                  | 0.999        | 3010.8       | 17.49                      | 49.99                        | 82.93                     | 100.00                    | 161.88                         | 557.64                        | 41.17                          | 565.96                        | 385.36                               | 390.14                               |
| 26-Oct-15 | 15:10:05 | 280.0             | 11.26                  | 0.999        | 3006.0       | 17.49                      | 49.98                        | 82.28                     | 100.00                    | 161.88                         | 557.64                        | 41.16                          | 565.96                        | 385.33                               | 390.14                               |
| 26-Oct-15 | 15:10:10 | 280.3             | 11.43                  | 0.999        | 3004.5       | 17.48                      | 49.97                        | 81.63                     | 100.00                    | 161.88                         | 557.64                        | 41.15                          | 565.96                        | 385.33                               | 390.14                               |
| 26-Oct-15 | 15:10:15 | 280.0             | 11.60                  | 0.999        | 3000.6       | 17.48                      | 49.96                        | 81.54                     | 100.00                    | 161.88                         | 557.64                        | 41.15                          | 565.96                        | 385.34                               | 390.15                               |
| 26-Oct-15 | 15:10:20 | 279.6             | 11.78                  | 0.999        | 2999.9       | 17.48                      | 49.97                        | 82.12                     | 100.00                    | 161.88                         | 557.65                        | 41.14                          | 565.96                        | 385.34                               | 390.15                               |
| 26-Oct-15 | 15:10:25 | 279.7             | 11.95                  | 0.999        | 3000.7       | 17.48                      | 49.98                        | 82.32                     | 100.00                    | 161.87                         | 557.68                        | 41.17                          | 566.00                        | 385.35                               | 390.16                               |
| 26-Oct-15 | 15:10:30 | 279.5             | 12.12                  | 0.999        | 3003.3       | 17.48                      | 49.98                        | 82.25                     | 100.00                    | 161.87                         | 557.70                        | 41.19                          | 566.05                        | 385.35                               | 390.17                               |
| 26-Oct-15 | 15:10:35 | 280.3             | 12.29                  | 0.999        | 3004.5       | 17.48                      | 50.00                        | 82.58                     | 100.00                    | 161.87                         | 557.73                        | 41.19                          | 566.07                        | 385.36                               | 390.17                               |
| 26-Oct-15 | 15:10:40 | 279.4             | 12.47                  | 0.999        | 3008.3       | 17.48                      | 50.01                        | 82.94                     | 100.00                    | 161.87                         | 557.76                        | 41.19                          | 566.13                        | 385.36                               | 390.18                               |
| 26-Oct-15 | 15:10:45 | 279.6             | 12.60                  | 0.999        | 3007.1       | 17.49                      | 50.04                        | 82.77                     | 100.00                    | 161.87                         | 557.79                        | 41.19                          | 566.13                        | 385.36                               | 390.18                               |
| 26-Oct-15 | 15:10:50 | 280.3             | 12.62                  | 0.999        | 3003.2       | 17.49                      | 50.04                        | 81.51                     | 100.00                    | 161.87                         | 557.82                        | 41.19                          | 566.13                        | 385.37                               | 390.19                               |
| 26-Oct-15 | 15:10:55 | 280.0             | 12.64                  | 0.999        | 3005.5       | 17.50                      | 50.01                        | 81.93                     | 100.00                    | 161.87                         | 557.85                        | 41.19                          | 566.14                        | 385.33                               | 390.19                               |
| 26-Oct-15 | 15:11:00 | 279.9             | 12.66                  | 0.999        | 3001.3       | 17.50                      | 49.98                        | 82.35                     | 100.00                    | 161.87                         | 557.88                        | 41.19                          | 566.14                        | 385.33                               | 390.20                               |
| 26-Oct-15 | 15:11:05 | 280.1             | 12.68                  | 0.999        | 3000.2       | 17.51                      | 49.96                        | 81.92                     | 100.00                    | 161.87                         | 557.91                        | 41.19                          | 566.14                        | 385.33                               | 390.20                               |
| 26-Oct-15 | 15:11:10 | 280.0             | 12.70                  | 0.999        | 2999.1       | 17.51                      | 49.98                        | 82.01                     | 100.00                    | 161.87                         | 557.94                        | 41.19                          | 566.15                        | 385.33                               | 390.21                               |
| 26-Oct-15 | 15:11:15 | 279.3             | 12.73                  | 0.999        | 3003.9       | 17.51                      | 50.00                        | 82.16                     | 100.00                    | 161.87                         | 557.97                        | 41.19                          | 566.15                        | 385.33                               | 390.21                               |
| 26-Oct-15 | 15:11:20 | 279.9             | 12.75                  | 0.999        | 3006.9       | 17.51                      | 50.01                        | 81.88                     | 100.00                    | 161.87                         | 558.00                        | 41.18                          | 566.15                        | 385.33                               | 390.19                               |
| 26-Oct-15 | 15:11:25 | 280.2             | 12.77                  | 0.999        | 3003.4       | 17.51                      | 50.00                        | 81.60                     | 100.00                    | 161.87                         | 558.03                        | 41.18                          | 566.16                        | 385.33                               | 390.20                               |
| 26-Oct-15 | 15:11:30 | 280.3             | 12.79                  | 0.999        | 2999.9       | 17.51                      | 49.98                        | 81.56                     | 100.00                    | 161.87                         | 558.06                        |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 15:15:40 | 280.9             | 11.09                  | 0.999        | 3000.6       | 17.52                      | 50.02                        | 80.56                     | 100.00                    | 162.31                         | 559.34                        | 41.25                          | 565.96                        | 385.39                               | 390.33                               |
| 26-Oct-15 | 15:15:45 | 280.7             | 11.11                  | 0.999        | 3000.6       | 17.51                      | 50.00                        | 80.84                     | 100.00                    | 162.31                         | 559.33                        | 41.25                          | 565.94                        | 385.38                               | 390.33                               |
| 26-Oct-15 | 15:15:50 | 279.9             | 11.17                  | 0.999        | 3006.4       | 17.51                      | 49.99                        | 81.47                     | 100.00                    | 162.30                         | 559.31                        | 41.25                          | 565.92                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:15:55 | 280.0             | 11.23                  | 0.999        | 3009.8       | 17.51                      | 50.05                        | 81.34                     | 100.00                    | 162.30                         | 559.30                        | 41.25                          | 565.90                        | 385.40                               | 390.33                               |
| 26-Oct-15 | 15:16:00 | 280.9             | 11.29                  | 0.999        | 3008.7       | 17.50                      | 50.06                        | 80.56                     | 100.00                    | 162.30                         | 559.30                        | 41.25                          | 565.89                        | 385.38                               | 390.33                               |
| 26-Oct-15 | 15:16:05 | 280.4             | 11.35                  | 0.999        | 3009.0       | 17.50                      | 50.05                        | 80.77                     | 100.00                    | 162.30                         | 559.31                        | 41.25                          | 565.87                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:10 | 280.5             | 11.40                  | 0.999        | 3003.7       | 17.50                      | 50.03                        | 80.98                     | 100.00                    | 162.29                         | 559.31                        | 41.24                          | 565.85                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:15 | 280.7             | 11.46                  | 0.999        | 3004.0       | 17.50                      | 50.01                        | 81.19                     | 100.00                    | 162.29                         | 559.31                        | 41.24                          | 565.83                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:20 | 280.8             | 11.52                  | 0.999        | 2999.5       | 17.50                      | 49.98                        | 81.41                     | 100.00                    | 162.29                         | 559.31                        | 41.24                          | 565.82                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:25 | 279.9             | 11.58                  | 0.999        | 3003.3       | 17.50                      | 50.00                        | 81.51                     | 100.00                    | 162.28                         | 559.31                        | 41.24                          | 565.80                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:30 | 280.2             | 11.64                  | 0.999        | 3006.4       | 17.50                      | 50.05                        | 80.96                     | 100.00                    | 162.28                         | 559.31                        | 41.24                          | 565.78                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:35 | 281.0             | 11.65                  | 0.999        | 3003.5       | 17.50                      | 50.05                        | 80.19                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.76                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:40 | 280.4             | 11.65                  | 0.999        | 3003.3       | 17.49                      | 50.03                        | 80.81                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.74                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:45 | 280.1             | 11.65                  | 0.999        | 3007.5       | 17.49                      | 50.05                        | 81.60                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.74                        | 385.37                               | 390.33                               |
| 26-Oct-15 | 15:16:50 | 280.3             | 11.65                  | 0.999        | 3010.1       | 17.49                      | 50.07                        | 81.15                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.74                        | 385.36                               | 390.34                               |
| 26-Oct-15 | 15:16:55 | 280.6             | 11.65                  | 0.999        | 3011.1       | 17.49                      | 50.05                        | 80.74                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.74                        | 385.36                               | 390.35                               |
| 26-Oct-15 | 15:17:00 | 280.6             | 11.65                  | 0.999        | 3006.1       | 17.49                      | 50.04                        | 80.52                     | 100.00                    | 162.28                         | 559.32                        | 41.24                          | 565.74                        | 385.35                               | 390.36                               |
| 26-Oct-15 | 15:17:05 | 280.5             | 11.65                  | 0.999        | 3002.0       | 17.49                      | 50.02                        | 80.52                     | 100.00                    | 162.29                         | 559.30                        | 41.24                          | 565.73                        | 385.35                               | 390.35                               |
| 26-Oct-15 | 15:17:10 | 280.3             | 11.65                  | 0.999        | 3001.0       | 17.49                      | 49.98                        | 80.82                     | 100.00                    | 162.30                         | 559.29                        | 41.24                          | 565.72                        | 385.34                               | 390.36                               |
| 26-Oct-15 | 15:17:15 | 280.7             | 11.65                  | 0.999        | 3000.4       | 17.49                      | 49.97                        | 80.92                     | 100.00                    | 162.31                         | 559.27                        | 41.25                          | 565.71                        | 385.34                               | 390.36                               |
| 26-Oct-15 | 15:17:20 | 280.2             | 11.65                  | 0.999        | 3001.1       | 17.49                      | 49.97                        | 81.51                     | 100.00                    | 162.32                         | 559.26                        | 41.25                          | 565.69                        | 385.33                               | 390.36                               |
| 26-Oct-15 | 15:17:25 | 280.2             | 11.75                  | 0.999        | 3004.2       | 17.49                      | 49.98                        | 81.38                     | 100.00                    | 162.32                         | 559.24                        | 41.25                          | 565.68                        | 385.36                               | 390.36                               |
| 26-Oct-15 | 15:17:30 | 280.6             | 12.14                  | 0.999        | 3003.4       | 17.49                      | 50.02                        | 80.94                     | 100.00                    | 162.34                         | 559.23                        | 41.26                          | 565.67                        | 385.34                               | 390.35                               |
| 26-Oct-15 | 15:17:35 | 280.2             | 12.10                  | 0.999        | 3006.1       | 17.50                      | 50.01                        | 81.77                     | 100.00                    | 162.36                         | 559.21                        | 41.26                          | 565.66                        | 385.35                               | 390.35                               |
| 26-Oct-15 | 15:17:40 | 280.5             | 12.00                  | 0.999        | 3008.4       | 17.50                      | 49.99                        | 81.02                     | 100.00                    | 162.38                         | 559.20                        | 41.26                          | 565.64                        | 385.37                               | 390.35                               |
| 26-Oct-15 | 15:17:45 | 280.9             | 11.90                  | 0.999        | 3001.0       | 17.50                      | 49.98                        | 80.64                     | 100.00                    | 162.40                         | 559.18                        | 41.26                          | 565.62                        | 385.36                               | 390.35                               |
| 26-Oct-15 | 15:17:50 | 280.9             | 11.81                  | 0.999        | 2999.5       | 17.50                      | 49.97                        | 80.85                     | 100.00                    | 162.42                         | 559.17                        | 41.26                          | 565.60                        | 385.33                               | 390.34                               |
| 26-Oct-15 | 15:17:55 | 280.5             | 11.71                  | 0.999        | 3003.2       | 17.51                      | 49.98                        | 81.27                     | 100.00                    | 162.45                         | 559.16                        | 41.26                          | 565.57                        | 385.33                               | 390.34                               |
| 26-Oct-15 | 15:18:00 | 280.7             | 11.61                  | 0.999        | 3004.5       | 17.51                      | 49.99                        | 81.45                     | 100.00                    | 162.47                         | 559.16                        | 41.26                          | 565.55                        | 385.33                               | 390.34                               |
| 26-Oct-15 | 15:18:05 | 280.4             | 11.51                  | 0.999        | 3004.2       | 17.51                      | 50.00                        | 81.45                     | 100.00                    | 162.49                         | 559.16                        | 41.26                          | 565.52                        | 385.33                               | 390.33                               |
| 26-Oct-15 | 15:18:10 | 280.7             | 11.42                  | 0.999        | 3005.2       | 17.51                      | 50.01                        | 80.91                     | 100.00                    | 162.51                         | 559.16                        | 41.26                          | 565.50                        | 385.33                               | 390.33                               |
| 26-Oct-15 | 15:18:15 | 280.5             | 11.32                  | 0.999        | 3009.9       | 17.52                      | 50.01                        | 81.19                     | 100.00                    | 162.53                         | 559.16                        | 41.26                          | 565.48                        | 385.33                               | 390.33                               |
| 26-Oct-15 | 15:18:20 | 280.7             | 11.22                  | 0.999        | 3008.7       | 17.52                      | 50.00                        | 80.90                     | 100.00                    | 162.53                         | 559.16                        | 41.26                          | 565.45                        | 385.33                               | 390.36                               |
| 26-Oct-15 | 15:18:25 | 281.1             | 11.12                  | 0.999        | 3003.0       | 17.52                      | 49.98                        | 80.62                     | 100.00                    | 162.53                         | 559.16                        | 41.26                          | 565.43                        | 385.33                               | 390.33                               |
| 26-Oct-15 | 15:18:30 | 281.2             | 11.03                  | 0.999        | 3000.3       | 17.52                      | 49.97                        | 80.95                     | 100.00                    | 162.53                         | 559.16                        | 41.26                          | 565.40                        | 385.34                               | 390.33                               |
| 26-Oct-15 | 15:18:35 | 280.8             | 10.99                  | 0.999        | 3001.7       | 17.52                      | 49.92                        | 81.47                     | 100.00                    | 162.53                         | 559.16                        | 41.26                          | 565.38                        | 385.35                               | 390.32                               |
| 26-Oct-15 | 15:18:40 | 280.8             | 10.99                  | 0.999        | 2999.5       | 17.52                      | 49.93                        | 81.59                     | 100.00                    | 162.53                         | 559.14                        | 41.26                          | 565.35                        | 385.37                               | 390.32                               |
| 26-Oct-15 | 15:18:45 | 280.8             | 10.99                  | 0.999        | 2999.3       | 17.52                      | 49.94                        | 81.59                     | 100.00                    | 162.53                         | 559.06                        | 41.31                          | 565.36                        | 385.34                               | 390.32                               |
| 26-Oct-15 | 15:18:50 | 280.8             | 10.99                  | 0.999        | 2999.2       | 17.52                      | 49.95                        | 81.47                     | 100.00                    | 162.53                         | 558.97                        | 41.31                          | 565.36                        | 385.34                               | 390.31                               |
| 26-Oct-15 | 15:18:55 | 281.8             | 10.99                  | 0.999        | 2999.5       | 17.52                      | 49.95                        | 81.28                     | 100.00                    | 162.53                         | 558.90                        | 41.31                          | 565.36                        | 385.35                               | 390.31                               |
| 26-Oct-15 | 15:19:00 | 280.9             | 10.99                  | 0.999        | 3002.7       | 17.52                      | 49.96                        | 81.69                     | 100.00                    | 162.53                         | 558.90                        | 41.31                          | 565.37                        | 385.30                               | 390.31                               |
| 26-Oct-15 | 15:19:05 | 280.5             | 11.04                  | 0.999        | 3002.2       | 17.51                      | 49.97                        | 80.90                     | 100.00                    | 162.53                         | 558.90                        | 41.31                          | 565.37                        | 385.34                               | 390.31                               |
| 26-Oct-15 | 15:19:10 | 281.0             | 11.19                  | 0.999        | 3001.0       | 17.49                      | 49.95                        | 80.71                     | 100.00                    | 162.53                         | 558.89                        | 41.31                          | 565.37                        | 385.36                               | 390.30                               |
| 26-Oct-15 | 15:19:15 | 281.2             | 11.35                  | 0.999        | 2999.6       | 17.49                      | 49.94                        | 80.55                     | 100.00                    | 162.53                         | 558.89                        | 41.30                          | 565.38                        | 385.34                               | 390.30                               |
| 26-Oct-15 | 15:19:20 | 280.9             | 11.51                  | 0.999        | 3003.1       | 17.49                      | 49.92                        | 81.42                     | 100.00                    | 162.51                         | 558.89                        | 41.30                          | 565.38                        | 385.34                               | 390.30                               |
| 26-Oct-15 | 15:19:25 | 280.6             | 11.66                  | 0.999        | 3001.8       | 17.49                      | 49.91                        | 81.28                     | 100.00                    | 162.48                         | 558.89                        | 41.30                          | 565.38                        | 385.35                               | 390.30                               |
| 26-Oct-15 | 15:19:30 | 281.0             | 11.82                  | 0.999        | 2998.9       | 17.50                      | 49.90                        | 80.91                     | 100.00                    | 162.46                         | 558.88                        | 41.30                          | 565.38                        | 385.36                               | 390.29                               |
| 26-Oct-15 | 15:19:35 | 280.9             | 12.03                  | 0.999        | 2994.6       | 17.50                      | 49.89                        | 81.20                     | 100.00                    | 162.44                         | 558.88                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:19:40 | 280.6             | 12.28                  | 0.999        | 2993.3       | 17.50                      | 49.88                        | 80.93                     | 100.00                    | 162.42                         | 558.88                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:19:45 | 280.9             | 12.52                  | 0.999        | 2992.1       | 17.51                      | 49.87                        | 80.67                     | 100.00                    | 162.40                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:19:50 | 280.9             | 12.76                  | 0.999        | 2992.6       | 17.51                      | 49.87                        | 80.83                     | 100.00                    | 162.38                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:19:55 | 280.5             | 13.00                  | 0.999        | 2995.0       | 17.51                      | 49.87                        | 81.40                     | 100.00                    | 162.36                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:20:00 | 280.7             | 13.25                  | 0.999        | 2991.5       | 17.52                      | 49.88                        | 81.38                     | 100.00                    | 162.34                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:20:05 | 280.4             | 13.49                  | 0.999        | 2994.3       | 17.52                      | 49.89                        | 81.07                     | 100.00                    | 162.32                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.29                               |
| 26-Oct-15 | 15:20:10 | 279.9             | 13.73                  | 0.999        | 2998.6       | 17.52                      | 49.89                        | 81.55                     | 100.00                    | 162.32                         | 558.87                        | 41.30                          | 565.39                        | 385.33                               | 390.30                               |
| 26-Oct-15 | 15:20:15 | 280.3             | 13.19                  | 0.999        | 2995.3       | 17.52                      | 49.90                        | 81.55                     | 100.00                    | 162.32                         | 558.87                        | 41.30                          | 565.39                        | 385.32                               | 390.30                               |
| 26-Oct-15 | 15:20:20 | 280.2             | 12.28                  | 0.999        | 2997.4       | 17.52                      | 49.90                        | 81.75                     | 100.00                    | 162.32                         | 558.87                        | 41.30                          | 565.39                        | 385.31                               | 390.31                               |
| 26-Oct-15 | 15:20:25 | 280.5             | 11.80                  | 0.999        | 2999.3       | 17.52                      | 49.91                        | 81.45                     | 100.00                    | 162.33                         | 558.85                        | 41.31                          | 565.38                        | 385.33                               | 390.31                               |
| 26-Oct-15 | 15:20:30 | 279.9             | 11.80                  | 0.999        | 2999.9       | 17.52                      | 49.94                        | 82.51                     | 100.00                    | 162.29                         | 558.84                        | 41.27                          | 565.37                        | 385.30                               | 390.32                               |
| 26-Oct-15 | 15:20:35 | 280.1             | 11.80                  | 0.999        | 3001.8       | 17.52                      | 49.97                        | 81.82                     | 100.00                    | 162.28                         | 558.82                        | 41.26                          | 565.37                        | 385.30                               | 390.30                               |
| 26-Oct-15 | 15:20:40 | 280.2             | 11.80                  | 0.999        | 2999.6       | 17.52                      | 49.97                        | 81.84                     | 100.00                    | 162.27                         | 558.81                        | 41.25                          | 565.36                        | 385.31                               | 390.32                               |
| 26-Oct-15 | 15:20:45 | 280.1             | 11.77                  | 0.999        | 3001.9       | 17.52                      | 49.97                        | 82.10                     | 100.00                    | 162.25                         | 558.79                        | 41.25                          | 565.37                        | 385.31                               | 390.31                               |
| 26-Oct-15 | 15:20:50 | 280.0             | 11.67                  | 0.999        | 2999.8       | 17.52                      | 49.98                        | 82.36                     | 100.00                    | 162.24                         | 558.78                        | 41.24                          | 565.39                        | 385.31                               | 390.29                               |
| 26-Oct-15 | 15:20:55 | 279.7             | 11.56                  | 0.999        | 3003.2       | 17.52                      | 49.99                        | 82.62                     | 100.00                    | 162.23                         | 558.76                        | 41.24                          | 565.40                        | 385.30                               | 390.29                               |
| 26-Oct-15 | 15:21:00 | 279.9             | 11.45                  | 0.999        | 3004.3       | 17.52                      | 49.99                        | 82.47                     | 100.00                    | 162.21                         | 558.76                        | 41.24                          | 565.42                        | 385.33                               | 390.31                               |
| 26-Oct-15 | 15:21:05 | 280.1             | 11.35                  | 0.999        | 3005.4       | 17.52                      | 50.00                        | 82.25                     | 100.00                    | 162.20                         | 558.76                        | 41.24                          | 565.43                        | 385.32                               | 390.33                               |
| 26-Oct-15 | 15:21:10 | 280.2             | 11.24                  | 0.999        | 3006.5       | 17.52                      | 50.01                        | 82.04                     | 100.00                    | 162.20                         | 558.76                        | 41.24                          | 565.44                        | 385.33                               | 390.31                               |
| 26-Oct-15 | 15:21:15 | 279.9             | 11.14                  | 0.999        | 3006.0       | 17.51                      | 50.02                        | 81.82                     | 100.00                    | 162.20                         | 558.76                        | 41.23                          | 565.46                        | 385.33                               | 390.32                               |
| 26-Oct-15 | 15:21:20 | 280.6             | 11.03                  | 0.999        | 3002.6       | 17.51                      | 50.01                        | 81.65                     | 100.00                    | 162.20                         |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 15:25:30 | 279.8             | 10.91                  | 0.999        | 3014.3       | 17.51                      | 50.12                        | 83.37                     | 100.00                    | 162.04                         | 558.23                        | 41.27                          | 565.60                        | 385.31                               | 390.23                               |
| 26-Oct-15 | 15:25:35 | 280.7             | 10.91                  | 0.999        | 3009.7       | 17.51                      | 50.09                        | 82.11                     | 100.00                    | 162.05                         | 558.17                        | 41.26                          | 565.53                        | 385.30                               | 390.22                               |
| 26-Oct-15 | 15:25:40 | 280.3             | 10.91                  | 0.999        | 3003.2       | 17.51                      | 50.07                        | 82.66                     | 100.00                    | 162.03                         | 558.11                        | 41.26                          | 565.46                        | 385.31                               | 390.22                               |
| 26-Oct-15 | 15:25:45 | 280.0             | 10.91                  | 0.999        | 3004.4       | 17.51                      | 50.02                        | 83.06                     | 100.00                    | 162.00                         | 558.06                        | 41.26                          | 565.42                        | 385.32                               | 390.21                               |
| 26-Oct-15 | 15:25:50 | 279.9             | 10.91                  | 0.999        | 3005.6       | 17.51                      | 50.04                        | 83.34                     | 100.00                    | 161.97                         | 558.00                        | 41.25                          | 565.39                        | 385.31                               | 390.23                               |
| 26-Oct-15 | 15:25:55 | 279.8             | 10.91                  | 0.999        | 3006.8       | 17.50                      | 50.06                        | 83.62                     | 100.00                    | 161.94                         | 557.94                        | 41.25                          | 565.36                        | 385.31                               | 390.23                               |
| 26-Oct-15 | 15:26:00 | 279.3             | 10.90                  | 0.999        | 3011.0       | 17.50                      | 50.08                        | 83.75                     | 100.00                    | 161.91                         | 557.92                        | 41.24                          | 565.33                        | 385.31                               | 390.23                               |
| 26-Oct-15 | 15:26:05 | 280.0             | 10.90                  | 0.999        | 3008.0       | 17.49                      | 50.12                        | 83.02                     | 100.00                    | 161.88                         | 557.90                        | 41.24                          | 565.31                        | 385.30                               | 390.21                               |
| 26-Oct-15 | 15:26:10 | 280.1             | 10.90                  | 0.999        | 3007.6       | 17.49                      | 50.12                        | 82.22                     | 100.00                    | 161.85                         | 557.88                        | 41.23                          | 565.28                        | 385.28                               | 390.20                               |
| 26-Oct-15 | 15:26:15 | 279.8             | 10.90                  | 0.999        | 3010.0       | 17.48                      | 50.10                        | 82.31                     | 100.00                    | 161.83                         | 557.86                        | 41.23                          | 565.25                        | 385.27                               | 390.20                               |
| 26-Oct-15 | 15:26:20 | 280.4             | 10.90                  | 0.999        | 3007.8       | 17.48                      | 50.08                        | 81.75                     | 100.00                    | 161.81                         | 557.84                        | 41.22                          | 565.22                        | 385.27                               | 390.19                               |
| 26-Oct-15 | 15:26:25 | 279.5             | 11.12                  | 0.999        | 3008.3       | 17.48                      | 50.07                        | 82.72                     | 100.00                    | 161.78                         | 557.82                        | 41.22                          | 565.19                        | 385.26                               | 390.19                               |
| 26-Oct-15 | 15:26:30 | 279.2             | 11.94                  | 0.999        | 3010.8       | 17.48                      | 50.05                        | 82.33                     | 100.00                    | 161.76                         | 557.80                        | 41.21                          | 565.16                        | 385.25                               | 390.18                               |
| 26-Oct-15 | 15:26:35 | 279.9             | 12.75                  | 0.999        | 3010.5       | 17.48                      | 50.04                        | 81.86                     | 100.00                    | 161.73                         | 557.79                        | 41.20                          | 565.13                        | 385.28                               | 390.18                               |
| 26-Oct-15 | 15:26:40 | 279.6             | 10.98                  | 0.999        | 3005.4       | 17.48                      | 50.03                        | 82.44                     | 100.00                    | 161.71                         | 557.77                        | 41.19                          | 565.11                        | 385.27                               | 390.20                               |
| 26-Oct-15 | 15:26:45 | 279.4             | 10.72                  | 0.999        | 3007.2       | 17.48                      | 50.04                        | 82.95                     | 100.00                    | 161.69                         | 557.75                        | 41.18                          | 565.09                        | 385.29                               | 390.21                               |
| 26-Oct-15 | 15:26:50 | 279.3             | 10.72                  | 0.999        | 3010.1       | 17.48                      | 50.05                        | 83.25                     | 100.00                    | 161.66                         | 557.73                        | 41.17                          | 565.09                        | 385.29                               | 390.19                               |
| 26-Oct-15 | 15:26:55 | 279.2             | 10.72                  | 0.999        | 3007.3       | 17.48                      | 50.07                        | 83.54                     | 100.00                    | 161.65                         | 557.71                        | 41.17                          | 565.09                        | 385.27                               | 390.18                               |
| 26-Oct-15 | 15:27:00 | 278.9             | 10.72                  | 0.999        | 3011.8       | 17.48                      | 50.09                        | 83.69                     | 100.00                    | 161.65                         | 557.71                        | 41.17                          | 565.09                        | 385.26                               | 390.21                               |
| 26-Oct-15 | 15:27:05 | 279.6             | 10.72                  | 0.999        | 3011.1       | 17.48                      | 50.13                        | 83.00                     | 100.00                    | 161.64                         | 557.76                        | 41.16                          | 565.08                        | 385.27                               | 390.21                               |
| 26-Oct-15 | 15:27:10 | 279.6             | 10.72                  | 0.999        | 3011.2       | 17.48                      | 50.13                        | 82.51                     | 100.00                    | 161.63                         | 557.80                        | 41.15                          | 565.07                        | 385.27                               | 390.20                               |
| 26-Oct-15 | 15:27:15 | 279.9             | 10.72                  | 0.999        | 3011.4       | 17.48                      | 50.13                        | 82.13                     | 100.00                    | 161.62                         | 557.84                        | 41.15                          | 565.06                        | 385.26                               | 390.19                               |
| 26-Oct-15 | 15:27:20 | 279.2             | 10.72                  | 0.999        | 3010.0       | 17.48                      | 50.13                        | 82.29                     | 100.00                    | 161.61                         | 557.88                        | 41.14                          | 565.04                        | 385.25                               | 390.18                               |
| 26-Oct-15 | 15:27:25 | 280.1             | 10.75                  | 0.999        | 3007.4       | 17.48                      | 50.12                        | 81.88                     | 100.00                    | 161.60                         | 557.92                        | 41.13                          | 565.03                        | 385.24                               | 390.20                               |
| 26-Oct-15 | 15:27:30 | 280.0             | 10.87                  | 0.999        | 3003.5       | 17.48                      | 50.06                        | 81.47                     | 100.00                    | 161.59                         | 557.96                        | 41.12                          | 565.02                        | 385.23                               | 390.20                               |
| 26-Oct-15 | 15:27:35 | 279.6             | 10.98                  | 0.999        | 3004.9       | 17.48                      | 50.05                        | 82.54                     | 100.00                    | 161.58                         | 558.00                        | 41.12                          | 565.00                        | 385.23                               | 390.20                               |
| 26-Oct-15 | 15:27:40 | 279.2             | 11.10                  | 0.999        | 3006.3       | 17.48                      | 50.07                        | 83.15                     | 100.00                    | 161.57                         | 558.04                        | 41.11                          | 564.99                        | 385.22                               | 390.19                               |
| 26-Oct-15 | 15:27:45 | 278.7             | 10.62                  | 0.999        | 3007.1       | 17.48                      | 50.10                        | 83.67                     | 100.00                    | 161.56                         | 558.08                        | 41.10                          | 564.99                        | 385.23                               | 390.18                               |
| 26-Oct-15 | 15:27:50 | 279.2             | 10.07                  | 0.999        | 3013.6       | 17.48                      | 50.13                        | 83.47                     | 100.00                    | 161.55                         | 558.12                        | 41.10                          | 564.99                        | 385.23                               | 390.21                               |
| 26-Oct-15 | 15:27:55 | 279.7             | 9.51                   | 0.999        | 3012.7       | 17.48                      | 50.15                        | 82.55                     | 100.00                    | 161.55                         | 558.16                        | 41.09                          | 564.99                        | 385.24                               | 390.20                               |
| 26-Oct-15 | 15:28:00 | 279.1             | 9.13                   | 0.999        | 3011.7       | 17.48                      | 50.16                        | 83.57                     | 100.00                    | 161.55                         | 558.16                        | 41.09                          | 564.99                        | 385.22                               | 390.20                               |
| 26-Oct-15 | 15:28:05 | 279.8             | 9.20                   | 0.999        | 3011.9       | 17.48                      | 50.16                        | 82.86                     | 100.00                    | 161.55                         | 558.16                        | 41.08                          | 564.99                        | 385.22                               | 390.20                               |
| 26-Oct-15 | 15:28:10 | 279.9             | 9.27                   | 0.999        | 3009.0       | 17.48                      | 50.11                        | 82.23                     | 100.00                    | 161.55                         | 558.16                        | 41.08                          | 564.99                        | 385.23                               | 390.18                               |
| 26-Oct-15 | 15:28:15 | 279.4             | 9.34                   | 0.999        | 3008.3       | 17.48                      | 50.08                        | 82.93                     | 100.00                    | 161.55                         | 558.16                        | 41.07                          | 564.99                        | 385.22                               | 390.21                               |
| 26-Oct-15 | 15:28:20 | 279.1             | 9.41                   | 0.999        | 3011.2       | 17.48                      | 50.10                        | 83.48                     | 100.00                    | 161.55                         | 558.16                        | 41.07                          | 564.99                        | 385.22                               | 390.19                               |
| 26-Oct-15 | 15:28:25 | 279.4             | 9.48                   | 0.999        | 3010.0       | 17.48                      | 50.12                        | 83.56                     | 100.00                    | 161.55                         | 558.16                        | 41.07                          | 564.99                        | 385.22                               | 390.19                               |
| 26-Oct-15 | 15:28:30 | 279.5             | 9.55                   | 0.999        | 3007.3       | 17.48                      | 50.08                        | 83.00                     | 100.00                    | 161.55                         | 558.16                        | 41.07                          | 564.99                        | 385.21                               | 390.18                               |
| 26-Oct-15 | 15:28:35 | 279.3             | 9.62                   | 0.999        | 3009.0       | 17.48                      | 50.09                        | 83.29                     | 100.00                    | 161.55                         | 558.16                        | 41.07                          | 564.99                        | 385.21                               | 390.18                               |
| 26-Oct-15 | 15:28:40 | 279.5             | 9.69                   | 0.999        | 3011.1       | 17.48                      | 50.11                        | 83.16                     | 100.00                    | 161.54                         | 558.19                        | 41.07                          | 564.99                        | 385.21                               | 390.19                               |
| 26-Oct-15 | 15:28:45 | 279.5             | 9.76                   | 0.999        | 3011.1       | 17.48                      | 50.13                        | 83.90                     | 100.00                    | 161.54                         | 558.20                        | 41.06                          | 565.07                        | 385.21                               | 390.20                               |
| 26-Oct-15 | 15:28:50 | 279.3             | 9.83                   | 0.999        | 3011.0       | 17.48                      | 50.12                        | 83.35                     | 100.00                    | 161.49                         | 558.21                        | 41.06                          | 565.04                        | 385.20                               | 390.21                               |
| 26-Oct-15 | 15:28:55 | 279.8             | 9.90                   | 0.999        | 3010.7       | 17.48                      | 50.12                        | 82.86                     | 100.00                    | 161.40                         | 558.52                        | 41.06                          | 565.15                        | 385.20                               | 390.18                               |
| 26-Oct-15 | 15:29:00 | 279.6             | 9.95                   | 0.999        | 3009.5       | 17.48                      | 50.12                        | 82.81                     | 100.00                    | 161.39                         | 558.59                        | 41.06                          | 565.18                        | 385.20                               | 390.19                               |
| 26-Oct-15 | 15:29:05 | 279.9             | 9.83                   | 0.999        | 3009.3       | 17.48                      | 50.07                        | 82.75                     | 100.00                    | 161.39                         | 558.65                        | 41.06                          | 565.22                        | 385.20                               | 390.19                               |
| 26-Oct-15 | 15:29:10 | 279.6             | 9.40                   | 0.999        | 3005.4       | 17.48                      | 50.04                        | 83.07                     | 100.00                    | 161.39                         | 558.70                        | 41.05                          | 565.25                        | 385.19                               | 390.20                               |
| 26-Oct-15 | 15:29:15 | 279.3             | 8.97                   | 0.999        | 3005.4       | 17.48                      | 50.04                        | 83.62                     | 100.00                    | 161.38                         | 558.76                        | 41.05                          | 565.29                        | 385.19                               | 390.21                               |
| 26-Oct-15 | 15:29:20 | 278.8             | 8.54                   | 1.000        | 3012.5       | 17.48                      | 50.07                        | 83.82                     | 100.00                    | 161.38                         | 558.82                        | 41.05                          | 565.33                        | 385.19                               | 390.19                               |
| 26-Oct-15 | 15:29:25 | 279.1             | 8.11                   | 1.000        | 3011.9       | 17.48                      | 50.12                        | 83.36                     | 100.00                    | 161.38                         | 558.88                        | 41.05                          | 565.36                        | 385.19                               | 390.18                               |
| 26-Oct-15 | 15:29:30 | 279.7             | 8.63                   | 1.000        | 3011.3       | 17.48                      | 50.12                        | 82.91                     | 100.00                    | 161.37                         | 558.94                        | 41.04                          | 565.40                        | 385.18                               | 390.21                               |
| 26-Oct-15 | 15:29:35 | 279.9             | 9.60                   | 0.999        | 3007.2       | 17.48                      | 50.09                        | 82.37                     | 100.00                    | 161.37                         | 559.00                        | 41.04                          | 565.44                        | 385.18                               | 390.19                               |
| 26-Oct-15 | 15:29:40 | 280.4             | 9.94                   | 0.999        | 3000.9       | 17.48                      | 50.02                        | 81.99                     | 100.00                    | 161.37                         | 559.06                        | 41.04                          | 565.47                        | 385.18                               | 390.19                               |
| 26-Oct-15 | 15:29:45 | 279.6             | 9.99                   | 0.999        | 2999.6       | 17.48                      | 49.94                        | 82.74                     | 100.00                    | 161.36                         | 559.11                        | 41.03                          | 565.49                        | 385.21                               | 390.19                               |
| 26-Oct-15 | 15:29:50 | 279.3             | 10.04                  | 0.999        | 3002.6       | 17.48                      | 49.93                        | 82.86                     | 100.00                    | 161.36                         | 559.17                        | 41.03                          | 565.49                        | 385.18                               | 390.19                               |
| 26-Oct-15 | 15:29:55 | 279.5             | 10.09                  | 0.999        | 3001.4       | 17.48                      | 49.94                        | 82.79                     | 100.00                    | 161.36                         | 559.23                        | 41.03                          | 565.49                        | 385.20                               | 390.21                               |
| 26-Oct-15 | 15:30:00 | 279.3             | 10.14                  | 0.999        | 3002.1       | 17.48                      | 49.96                        | 82.72                     | 100.00                    | 161.36                         | 559.24                        | 41.03                          | 565.49                        | 385.19                               | 390.21                               |
| 26-Oct-15 | 15:30:05 | 279.3             | 10.20                  | 0.999        | 3005.3       | 17.48                      | 49.97                        | 82.65                     | 100.00                    | 161.36                         | 559.24                        | 41.02                          | 565.49                        | 385.18                               | 390.21                               |
| 26-Oct-15 | 15:30:10 | 279.4             | 10.25                  | 0.999        | 3004.1       | 17.48                      | 49.97                        | 82.58                     | 100.00                    | 161.36                         | 559.24                        | 41.02                          | 565.49                        | 385.17                               | 390.22                               |
| 26-Oct-15 | 15:30:15 | 279.8             | 10.30                  | 0.999        | 3002.4       | 17.48                      | 49.96                        | 82.52                     | 100.00                    | 161.36                         | 559.24                        | 41.02                          | 565.49                        | 385.17                               | 390.23                               |
| 26-Oct-15 | 15:30:20 | 279.6             | 10.25                  | 0.999        | 3001.5       | 17.48                      | 49.95                        | 82.45                     | 100.00                    | 161.35                         | 559.27                        | 41.02                          | 565.49                        | 385.17                               | 390.22                               |
| 26-Oct-15 | 15:30:25 | 279.6             | 10.40                  | 0.999        | 3000.0       | 17.48                      | 49.93                        | 82.40                     | 100.00                    | 161.31                         | 559.40                        | 41.01                          | 565.57                        | 385.16                               | 390.22                               |
| 26-Oct-15 | 15:30:30 | 279.5             | 10.45                  | 0.999        | 2995.7       | 17.48                      | 49.92                        | 82.72                     | 100.00                    | 161.28                         | 559.52                        | 41.01                          | 565.65                        | 385.16                               | 390.23                               |
| 26-Oct-15 | 15:30:35 | 279.1             | 10.50                  | 0.999        | 2997.4       | 17.48                      | 49.89                        | 83.22                     | 100.00                    | 161.24                         | 559.65                        | 41.01                          | 565.73                        | 385.15                               | 390.23                               |
| 26-Oct-15 | 15:30:40 | 278.8             | 10.53                  | 0.999        | 2999.1       | 17.48                      | 49.89                        | 83.71                     | 100.00                    | 161.20                         | 559.77                        | 41.01                          | 565.81                        | 385.15                               | 390.23                               |
| 26-Oct-15 | 15:30:45 | 278.8             | 10.51                  | 0.999        | 3000.6       | 17.48                      | 49.89                        | 83.64                     | 100.00                    | 161.17                         | 559.90                        | 41.01                          | 565.87                        | 385.15                               | 390.23                               |
| 26-Oct-15 | 15:30:50 | 279.2             | 10.45                  | 0.999        | 3002.9       | 17.48                      | 49.97                        | 82.84                     | 100.00                    | 161.15                         | 560.03                        | 41.01                          | 565.89                        | 385.14                               | 390.24                               |
| 26-Oct-15 | 15:30:55 | 279.4             | 10.38                  | 0.999        | 2999.2       | 17.48                      | 49.96                        | 82.44                     | 100.00                    | 161.15                         | 560.15                        | 41.01                          | 565.91                        | 385.14                               | 390.24                               |
| 26-Oct-15 | 15:31:00 | 279.7             | 10.32                  | 0.999        | 2999.1       | 17.48                      | 49.94                        | 82.08                     | 100.00                    | 161.15                         | 560.22                        | 41.00                          | 565.94                        | 385.14                               | 390.24                               |
| 26-Oct-15 | 15:31:05 | 279.2             | 10.26                  | 0.999        | 2999.1       | 17.48                      | 49.92                        | 82.50                     | 100.00                    | 161.16                         | 560.28                        | 41.00                          | 565.96                        | 385.14                               | 390.24                               |
| 26-Oct-15 | 15:31:10 | 279.2             | 10.19                  | 0.999        | 3001.5       | 17.48                      | 49.91                        | 82.79                     | 100.00                    | 161.16                         | 560.34                        | 41.00                          | 5                             |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 15:35:20 | 279.6             | 7.36                   | 1.000        | 3012.9       | 17.48                      | 50.16                        | 82.17                     | 100.00                    | 161.72                         | 562.18                        | 41.14                          | 566.72                        | 385.17                               | 390.25                               |
| 26-Oct-15 | 15:35:25 | 280.0             | 7.36                   | 1.000        | 3011.1       | 17.48                      | 50.15                        | 81.63                     | 100.00                    | 161.72                         | 562.14                        | 41.14                          | 566.67                        | 385.17                               | 390.25                               |
| 26-Oct-15 | 15:35:30 | 280.0             | 7.36                   | 1.000        | 3012.7       | 17.48                      | 50.14                        | 81.58                     | 100.00                    | 161.71                         | 562.11                        | 41.14                          | 566.62                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:35:35 | 279.3             | 7.36                   | 1.000        | 3015.0       | 17.48                      | 50.16                        | 82.46                     | 100.00                    | 161.71                         | 562.07                        | 41.14                          | 566.58                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:35:40 | 279.6             | 7.36                   | 1.000        | 3014.6       | 17.48                      | 50.18                        | 81.85                     | 100.00                    | 161.71                         | 562.03                        | 41.14                          | 566.53                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:35:45 | 280.3             | 8.30                   | 1.000        | 3010.5       | 17.48                      | 50.16                        | 80.97                     | 100.00                    | 161.70                         | 562.00                        | 41.14                          | 566.49                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:35:50 | 279.6             | 9.07                   | 0.999        | 3011.4       | 17.48                      | 50.15                        | 81.92                     | 100.00                    | 161.70                         | 561.96                        | 41.14                          | 566.47                        | 385.15                               | 390.25                               |
| 26-Oct-15 | 15:35:55 | 279.1             | 8.68                   | 1.000        | 3014.5       | 17.48                      | 50.17                        | 82.48                     | 100.00                    | 161.70                         | 561.92                        | 41.15                          | 566.45                        | 385.15                               | 390.25                               |
| 26-Oct-15 | 15:36:00 | 279.7             | 8.29                   | 1.000        | 3012.8       | 17.48                      | 50.18                        | 81.80                     | 100.00                    | 161.69                         | 561.91                        | 41.15                          | 566.44                        | 385.15                               | 390.25                               |
| 26-Oct-15 | 15:36:05 | 280.0             | 7.90                   | 1.000        | 3011.3       | 17.48                      | 50.17                        | 81.69                     | 100.00                    | 161.69                         | 561.93                        | 41.15                          | 566.43                        | 385.15                               | 390.25                               |
| 26-Oct-15 | 15:36:10 | 279.6             | 7.51                   | 1.000        | 3014.5       | 17.48                      | 50.17                        | 81.63                     | 100.00                    | 161.69                         | 561.95                        | 41.15                          | 566.41                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:36:15 | 279.8             | 7.79                   | 1.000        | 3014.4       | 17.48                      | 50.16                        | 81.57                     | 100.00                    | 161.69                         | 561.97                        | 41.15                          | 566.40                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:36:20 | 280.0             | 8.77                   | 1.000        | 3012.0       | 17.48                      | 50.15                        | 81.51                     | 100.00                    | 161.69                         | 561.99                        | 41.15                          | 566.39                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:36:25 | 279.9             | 9.14                   | 0.999        | 3012.5       | 17.48                      | 50.14                        | 81.55                     | 100.00                    | 161.69                         | 562.02                        | 41.15                          | 566.38                        | 385.15                               | 390.25                               |
| 26-Oct-15 | 15:36:30 | 279.6             | 8.84                   | 1.000        | 3011.9       | 17.48                      | 50.14                        | 81.86                     | 100.00                    | 161.69                         | 562.04                        | 41.15                          | 566.36                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:36:35 | 279.5             | 8.54                   | 1.000        | 3011.2       | 17.48                      | 50.15                        | 82.08                     | 100.00                    | 161.69                         | 562.06                        | 41.15                          | 566.35                        | 385.16                               | 390.25                               |
| 26-Oct-15 | 15:36:40 | 279.4             | 8.24                   | 1.000        | 3011.3       | 17.48                      | 50.15                        | 82.04                     | 100.00                    | 161.69                         | 562.08                        | 41.15                          | 566.34                        | 385.17                               | 390.25                               |
| 26-Oct-15 | 15:36:45 | 279.4             | 7.94                   | 1.000        | 3011.6       | 17.48                      | 50.16                        | 81.99                     | 100.00                    | 161.69                         | 562.10                        | 41.15                          | 566.33                        | 385.18                               | 390.25                               |
| 26-Oct-15 | 15:36:50 | 279.3             | 7.65                   | 1.000        | 3012.0       | 17.48                      | 50.17                        | 81.95                     | 100.00                    | 161.69                         | 562.12                        | 41.15                          | 566.33                        | 385.14                               | 390.27                               |
| 26-Oct-15 | 15:36:55 | 279.2             | 7.35                   | 1.000        | 3014.4       | 17.48                      | 50.18                        | 81.90                     | 100.00                    | 161.69                         | 562.15                        | 41.15                          | 566.33                        | 385.16                               | 390.28                               |
| 26-Oct-15 | 15:37:00 | 279.8             | 8.51                   | 1.000        | 3012.3       | 17.48                      | 50.17                        | 81.55                     | 100.00                    | 161.69                         | 562.16                        | 41.15                          | 566.33                        | 385.17                               | 390.29                               |
| 26-Oct-15 | 15:37:05 | 280.1             | 9.21                   | 0.999        | 3011.1       | 17.48                      | 50.15                        | 80.76                     | 100.00                    | 161.69                         | 562.17                        | 41.15                          | 566.31                        | 385.17                               | 390.28                               |
| 26-Oct-15 | 15:37:10 | 279.8             | 9.21                   | 0.999        | 3011.5       | 17.48                      | 50.13                        | 81.67                     | 100.00                    | 161.69                         | 562.17                        | 41.15                          | 566.29                        | 385.17                               | 390.28                               |
| 26-Oct-15 | 15:37:15 | 279.3             | 9.21                   | 0.999        | 3014.9       | 17.48                      | 50.16                        | 81.84                     | 100.00                    | 161.67                         | 562.18                        | 41.15                          | 566.27                        | 385.16                               | 390.27                               |
| 26-Oct-15 | 15:37:20 | 279.1             | 9.21                   | 0.999        | 3018.6       | 17.48                      | 50.18                        | 81.97                     | 100.00                    | 161.65                         | 562.16                        | 41.14                          | 566.25                        | 385.16                               | 390.26                               |
| 26-Oct-15 | 15:37:25 | 280.0             | 9.23                   | 0.999        | 3018.7       | 17.48                      | 50.17                        | 81.47                     | 100.00                    | 161.63                         | 562.20                        | 41.14                          | 566.23                        | 385.15                               | 390.26                               |
| 26-Oct-15 | 15:37:30 | 280.0             | 9.27                   | 0.999        | 3013.3       | 17.48                      | 50.14                        | 81.30                     | 100.00                    | 161.61                         | 562.20                        | 41.14                          | 566.21                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:37:35 | 279.8             | 9.31                   | 0.999        | 3008.5       | 17.48                      | 50.12                        | 81.37                     | 100.00                    | 161.59                         | 562.21                        | 41.13                          | 566.19                        | 385.14                               | 390.28                               |
| 26-Oct-15 | 15:37:40 | 279.6             | 9.36                   | 0.999        | 3007.3       | 17.48                      | 50.09                        | 81.38                     | 100.00                    | 161.57                         | 562.22                        | 41.13                          | 566.17                        | 385.14                               | 390.27                               |
| 26-Oct-15 | 15:37:45 | 280.3             | 9.40                   | 0.999        | 3001.9       | 17.48                      | 50.02                        | 80.42                     | 100.00                    | 161.55                         | 562.22                        | 41.12                          | 566.15                        | 385.14                               | 390.26                               |
| 26-Oct-15 | 15:37:50 | 279.9             | 9.45                   | 0.999        | 3002.0       | 17.48                      | 49.95                        | 80.84                     | 100.00                    | 161.53                         | 562.23                        | 41.12                          | 566.15                        | 385.14                               | 390.28                               |
| 26-Oct-15 | 15:37:55 | 279.4             | 9.49                   | 0.999        | 2999.1       | 17.48                      | 49.92                        | 81.77                     | 100.00                    | 161.51                         | 562.24                        | 41.11                          | 566.15                        | 385.14                               | 390.27                               |
| 26-Oct-15 | 15:38:00 | 279.2             | 9.53                   | 0.999        | 2995.8       | 17.48                      | 49.91                        | 81.75                     | 100.00                    | 161.49                         | 562.24                        | 41.11                          | 566.15                        | 385.14                               | 390.27                               |
| 26-Oct-15 | 15:38:05 | 279.1             | 9.66                   | 0.999        | 3001.7       | 17.48                      | 49.91                        | 82.20                     | 100.00                    | 161.49                         | 562.24                        | 41.11                          | 566.15                        | 385.14                               | 390.26                               |
| 26-Oct-15 | 15:38:10 | 279.3             | 9.99                   | 0.999        | 3002.7       | 17.48                      | 49.90                        | 81.63                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.14                               | 390.27                               |
| 26-Oct-15 | 15:38:15 | 279.8             | 10.33                  | 0.999        | 2996.2       | 17.48                      | 49.89                        | 81.13                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:38:20 | 279.7             | 10.66                  | 0.999        | 2995.0       | 17.48                      | 49.88                        | 81.13                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:38:25 | 279.5             | 11.00                  | 0.999        | 2992.4       | 17.48                      | 49.88                        | 81.22                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.14                               | 390.25                               |
| 26-Oct-15 | 15:38:30 | 279.2             | 11.33                  | 0.999        | 2996.9       | 17.48                      | 49.90                        | 82.33                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.09                               | 390.24                               |
| 26-Oct-15 | 15:38:35 | 279.0             | 11.64                  | 0.999        | 3002.3       | 17.48                      | 49.93                        | 82.55                     | 100.00                    | 161.49                         | 562.24                        | 41.10                          | 566.15                        | 385.09                               | 390.23                               |
| 26-Oct-15 | 15:38:40 | 279.1             | 11.64                  | 0.999        | 3003.2       | 17.48                      | 49.97                        | 81.92                     | 100.00                    | 161.51                         | 562.21                        | 41.10                          | 566.15                        | 385.08                               | 390.22                               |
| 26-Oct-15 | 15:38:45 | 279.2             | 11.64                  | 0.999        | 3003.2       | 17.48                      | 49.99                        | 81.83                     | 100.00                    | 161.51                         | 562.07                        | 41.10                          | 566.15                        | 385.07                               | 390.21                               |
| 26-Oct-15 | 15:38:50 | 279.2             | 11.64                  | 0.999        | 3004.3       | 17.48                      | 50.00                        | 82.27                     | 100.00                    | 161.53                         | 561.93                        | 41.10                          | 566.15                        | 385.06                               | 390.20                               |
| 26-Oct-15 | 15:38:55 | 279.4             | 11.64                  | 0.999        | 3006.0       | 17.48                      | 50.02                        | 82.31                     | 100.00                    | 161.55                         | 561.78                        | 41.09                          | 566.15                        | 385.05                               | 390.19                               |
| 26-Oct-15 | 15:39:00 | 279.4             | 11.64                  | 0.999        | 3007.2       | 17.48                      | 50.03                        | 82.77                     | 100.00                    | 161.57                         | 561.69                        | 41.09                          | 566.15                        | 385.05                               | 390.19                               |
| 26-Oct-15 | 15:39:05 | 279.7             | 11.53                  | 0.999        | 3007.3       | 17.48                      | 50.05                        | 82.38                     | 100.00                    | 161.59                         | 561.68                        | 41.09                          | 566.13                        | 385.04                               | 390.18                               |
| 26-Oct-15 | 15:39:10 | 280.0             | 11.15                  | 0.999        | 3007.1       | 17.48                      | 50.07                        | 81.82                     | 100.00                    | 161.62                         | 561.67                        | 41.09                          | 566.13                        | 385.04                               | 390.17                               |
| 26-Oct-15 | 15:39:15 | 279.4             | 10.76                  | 0.999        | 3009.9       | 17.49                      | 50.05                        | 82.81                     | 100.00                    | 161.65                         | 561.65                        | 41.09                          | 566.13                        | 385.03                               | 390.16                               |
| 26-Oct-15 | 15:39:20 | 280.3             | 10.38                  | 0.999        | 3005.3       | 17.49                      | 50.03                        | 81.50                     | 100.00                    | 161.67                         | 561.64                        | 41.09                          | 564.97                        | 385.03                               | 390.16                               |
| 26-Oct-15 | 15:39:25 | 279.7             | 10.00                  | 0.999        | 3002.7       | 17.49                      | 49.98                        | 81.56                     | 100.00                    | 161.70                         | 561.63                        | 41.09                          | 564.92                        | 385.07                               | 390.15                               |
| 26-Oct-15 | 15:39:30 | 279.4             | 9.84                   | 0.999        | 3003.0       | 17.49                      | 49.99                        | 82.07                     | 100.00                    | 161.73                         | 561.62                        | 41.09                          | 564.87                        | 385.07                               | 390.15                               |
| 26-Oct-15 | 15:39:35 | 279.2             | 10.24                  | 0.999        | 3005.7       | 17.49                      | 50.01                        | 82.09                     | 100.00                    | 161.75                         | 561.60                        | 41.09                          | 564.82                        | 385.08                               | 390.14                               |
| 26-Oct-15 | 15:39:40 | 279.4             | 10.63                  | 0.999        | 3004.4       | 17.49                      | 50.02                        | 82.25                     | 100.00                    | 161.76                         | 561.59                        | 41.09                          | 564.77                        | 385.09                               | 390.15                               |
| 26-Oct-15 | 15:39:45 | 279.8             | 11.03                  | 0.999        | 3005.8       | 17.49                      | 50.02                        | 81.87                     | 100.00                    | 161.76                         | 561.58                        | 41.08                          | 564.71                        | 385.10                               | 390.17                               |
| 26-Oct-15 | 15:39:50 | 280.1             | 11.43                  | 0.999        | 3005.2       | 17.49                      | 50.00                        | 81.39                     | 100.00                    | 161.76                         | 561.56                        | 41.08                          | 564.71                        | 385.07                               | 390.17                               |
| 26-Oct-15 | 15:39:55 | 280.1             | 11.22                  | 0.999        | 2999.9       | 17.49                      | 49.95                        | 80.62                     | 100.00                    | 161.76                         | 561.55                        | 41.08                          | 564.71                        | 385.09                               | 390.15                               |
| 26-Oct-15 | 15:40:00 | 280.1             | 10.36                  | 0.999        | 2996.9       | 17.49                      | 49.92                        | 81.77                     | 100.00                    | 161.76                         | 561.54                        | 41.08                          | 564.71                        | 385.06                               | 390.14                               |
| 26-Oct-15 | 15:40:05 | 279.5             | 10.35                  | 0.999        | 2999.5       | 17.49                      | 49.92                        | 82.47                     | 100.00                    | 161.76                         | 561.54                        | 41.08                          | 564.71                        | 385.06                               | 390.14                               |
| 26-Oct-15 | 15:40:10 | 279.8             | 11.53                  | 0.999        | 2997.1       | 17.49                      | 49.91                        | 81.52                     | 100.00                    | 161.76                         | 561.54                        | 41.07                          | 564.71                        | 385.07                               | 390.13                               |
| 26-Oct-15 | 15:40:15 | 279.5             | 11.53                  | 0.999        | 2996.3       | 17.49                      | 49.90                        | 81.96                     | 100.00                    | 161.76                         | 561.54                        | 41.07                          | 564.71                        | 385.08                               | 390.12                               |
| 26-Oct-15 | 15:40:20 | 279.5             | 11.53                  | 0.999        | 2999.4       | 17.49                      | 49.90                        | 82.40                     | 100.00                    | 161.77                         | 561.53                        | 41.07                          | 564.71                        | 385.09                               | 390.11                               |
| 26-Oct-15 | 15:40:25 | 279.7             | 11.53                  | 0.999        | 2999.6       | 17.49                      | 49.89                        | 81.85                     | 100.00                    | 161.78                         | 561.52                        | 41.08                          | 564.70                        | 385.10                               | 390.13                               |
| 26-Oct-15 | 15:40:30 | 280.2             | 11.53                  | 0.999        | 2995.7       | 17.49                      | 49.88                        | 81.24                     | 100.00                    | 161.79                         | 561.51                        | 41.08                          | 564.69                        | 385.07                               | 390.11                               |
| 26-Oct-15 | 15:40:35 | 279.8             | 11.53                  | 0.999        | 2996.6       | 17.49                      | 49.88                        | 81.92                     | 100.00                    | 161.80                         | 561.49                        | 41.09                          | 564.68                        | 385.07                               | 390.11                               |
| 26-Oct-15 | 15:40:40 | 279.7             | 11.53                  | 0.999        | 2997.6       | 17.49                      | 49.88                        | 82.21                     | 100.00                    | 161.82                         | 561.48                        | 41.10                          | 564.67                        | 385.08                               | 390.10                               |
| 26-Oct-15 | 15:40:45 | 279.7             | 11.37                  | 0.999        | 2998.6       | 17.49                      | 49.88                        | 81.66                     | 100.00                    | 161.83                         | 561.46                        | 41.11                          | 564.66                        | 385.09                               | 390.11                               |
| 26-Oct-15 | 15:40:50 | 279.2             | 10.80                  | 0.999        | 3001.8       | 17.49                      | 49.91                        | 82.59                     | 100.00                    | 161.85                         | 561.45                        | 41.11                          | 564.66                        | 385.10                               | 390.12                               |
| 26-Oct-15 | 15:40:55 | 279.6             | 10.22                  | 0.999        | 3003.7       | 17.49                      | 49.98                        | 82.28                     | 100.00                    | 161.87                         | 561.43                        | 41.12                          | 564.67                        | 385.09                               | 390.13                               |
| 26-Oct-15 | 15:41:00 | 279.8             | 9.65                   | 0.999        | 3004.4       | 17.49                      | 50.00                        | 82.08                     | 100.00                    | 161.89                         | 561.42                        | 41.12                          | 564.68                        | 385.                                 |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature A<br>°C | Outlet Boiler<br>Temperature B<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 26-Oct-15 | 15:45:10 | 279.2             | 11.68                  | 0.999        | 2988.6       | 17.50                      | 49.80                        | 83.07                     | 100.00                    | 161.58                         | 560.35                        | 41.03                          | 565.06                        | 385.04                               | 390.17                               |
| 26-Oct-15 | 15:45:15 | 279.1             | 11.67                  | 0.999        | 2989.0       | 17.50                      | 49.81                        | 83.16                     | 100.00                    | 161.58                         | 560.35                        | 41.03                          | 565.06                        | 385.06                               | 390.16                               |
| 26-Oct-15 | 15:45:20 | 279.0             | 11.65                  | 0.999        | 2993.9       | 17.50                      | 49.81                        | 83.25                     | 100.00                    | 161.58                         | 560.34                        | 41.03                          | 565.06                        | 385.02                               | 390.15                               |
| 26-Oct-15 | 15:45:25 | 279.3             | 11.63                  | 0.999        | 2994.9       | 17.50                      | 49.82                        | 83.09                     | 100.00                    | 161.58                         | 560.30                        | 41.03                          | 565.03                        | 385.02                               | 390.14                               |
| 26-Oct-15 | 15:45:30 | 279.0             | 11.62                  | 0.999        | 2995.1       | 17.50                      | 49.82                        | 83.43                     | 100.00                    | 161.57                         | 560.26                        | 41.02                          | 565.01                        | 385.01                               | 390.16                               |
| 26-Oct-15 | 15:45:35 | 279.2             | 11.60                  | 0.999        | 2996.1       | 17.50                      | 49.83                        | 83.65                     | 100.00                    | 161.57                         | 560.22                        | 41.01                          | 564.99                        | 385.01                               | 390.15                               |
| 26-Oct-15 | 15:45:40 | 279.4             | 11.59                  | 0.999        | 2992.6       | 17.50                      | 49.83                        | 83.05                     | 100.00                    | 161.56                         | 560.18                        | 41.01                          | 564.97                        | 385.00                               | 390.14                               |
| 26-Oct-15 | 15:45:45 | 279.7             | 12.50                  | 0.999        | 2988.7       | 17.50                      | 49.79                        | 82.42                     | 100.00                    | 161.55                         | 560.14                        | 41.00                          | 564.95                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:45:50 | 279.5             | 13.21                  | 0.999        | 2984.6       | 17.50                      | 49.73                        | 82.89                     | 100.00                    | 161.55                         | 560.10                        | 41.02                          | 564.95                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:45:55 | 278.7             | 12.78                  | 0.999        | 2990.2       | 17.50                      | 49.76                        | 84.16                     | 100.00                    | 161.54                         | 560.07                        | 41.04                          | 564.97                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:00 | 279.2             | 12.35                  | 0.999        | 2991.7       | 17.49                      | 49.77                        | 83.79                     | 100.00                    | 161.53                         | 560.03                        | 41.05                          | 564.99                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:05 | 279.7             | 11.92                  | 0.999        | 2990.2       | 17.49                      | 49.76                        | 83.14                     | 100.00                    | 161.52                         | 560.03                        | 41.05                          | 565.01                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:10 | 279.1             | 11.50                  | 0.999        | 2990.7       | 17.49                      | 49.75                        | 83.88                     | 100.00                    | 161.50                         | 560.03                        | 41.05                          | 565.03                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:15 | 279.5             | 12.60                  | 0.999        | 2988.3       | 17.49                      | 49.74                        | 83.66                     | 100.00                    | 161.48                         | 560.03                        | 41.05                          | 565.05                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:20 | 280.4             | 13.67                  | 0.999        | 2983.5       | 17.49                      | 49.73                        | 82.43                     | 100.00                    | 161.46                         | 560.03                        | 41.05                          | 565.08                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:25 | 279.5             | 12.30                  | 0.999        | 2984.3       | 17.49                      | 49.68                        | 83.44                     | 100.00                    | 161.44                         | 560.03                        | 41.04                          | 565.10                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:30 | 279.0             | 11.87                  | 0.999        | 2990.7       | 17.48                      | 49.72                        | 84.12                     | 100.00                    | 161.42                         | 560.03                        | 41.04                          | 565.12                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:35 | 279.4             | 11.87                  | 0.999        | 2989.1       | 17.48                      | 49.73                        | 84.23                     | 100.00                    | 161.41                         | 560.03                        | 41.04                          | 565.14                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:40 | 279.2             | 11.87                  | 0.999        | 2991.3       | 17.48                      | 49.75                        | 84.34                     | 100.00                    | 161.39                         | 560.03                        | 41.04                          | 565.16                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:45 | 279.1             | 11.87                  | 0.999        | 2990.2       | 17.48                      | 49.76                        | 84.45                     | 100.00                    | 161.37                         | 560.03                        | 41.04                          | 565.18                        | 384.99                               | 390.14                               |
| 26-Oct-15 | 15:46:50 | 279.2             | 11.87                  | 0.999        | 2995.2       | 17.48                      | 49.77                        | 84.49                     | 100.00                    | 161.35                         | 560.03                        | 41.03                          | 565.19                        | 385.00                               | 390.14                               |
| 26-Oct-15 | 15:46:55 | 279.3             | 11.87                  | 0.999        | 2995.0       | 17.48                      | 49.78                        | 84.33                     | 100.00                    | 161.34                         | 560.03                        | 41.03                          | 565.19                        | 385.01                               | 390.14                               |
| 26-Oct-15 | 15:47:00 | 279.4             | 11.87                  | 0.999        | 2994.6       | 17.48                      | 49.79                        | 84.18                     | 100.00                    | 161.33                         | 559.99                        | 41.03                          | 565.19                        | 385.01                               | 390.15                               |
| 26-Oct-15 | 15:47:05 | 279.2             | 11.87                  | 0.999        | 2990.3       | 17.48                      | 49.81                        | 84.03                     | 100.00                    | 161.33                         | 560.02                        | 41.03                          | 565.23                        | 385.02                               | 390.15                               |
| 26-Oct-15 | 15:47:10 | 279.0             | 11.87                  | 0.999        | 2991.5       | 17.48                      | 49.82                        | 84.87                     | 100.00                    | 161.32                         | 560.05                        | 41.03                          | 565.28                        | 385.01                               | 390.15                               |
| 26-Oct-15 | 15:47:15 | 278.8             | 11.87                  | 0.999        | 2995.7       | 17.48                      | 49.84                        | 85.16                     | 100.00                    | 161.32                         | 560.08                        | 41.03                          | 565.32                        | 384.99                               | 390.15                               |
| 26-Oct-15 | 15:47:20 | 279.0             | 11.87                  | 0.999        | 2997.8       | 17.48                      | 49.88                        | 85.09                     | 100.00                    | 161.31                         | 560.11                        | 41.03                          | 565.37                        | 385.00                               | 390.16                               |
| 26-Oct-15 | 15:47:25 | 278.7             | 12.12                  | 0.999        | 2996.5       | 17.48                      | 49.89                        | 85.65                     | 100.00                    | 161.31                         | 560.14                        | 41.03                          | 565.42                        | 385.01                               | 390.16                               |
| 26-Oct-15 | 15:47:30 | 279.2             | 12.58                  | 0.999        | 2997.1       | 17.48                      | 49.93                        | 84.83                     | 100.00                    | 161.30                         | 560.17                        | 41.03                          | 565.46                        | 385.01                               | 390.16                               |
| 26-Oct-15 | 15:47:35 | 279.7             | 12.55                  | 0.999        | 2994.6       | 17.48                      | 49.89                        | 84.23                     | 100.00                    | 161.29                         | 560.20                        | 41.03                          | 565.51                        | 385.02                               | 390.17                               |
| 26-Oct-15 | 15:47:40 | 279.0             | 12.52                  | 0.999        | 2992.5       | 17.48                      | 49.88                        | 85.13                     | 100.00                    | 161.29                         | 560.23                        | 41.04                          | 565.55                        | 385.01                               | 390.17                               |
| 26-Oct-15 | 15:47:45 | 279.0             | 12.49                  | 0.999        | 2995.0       | 17.48                      | 49.89                        | 85.25                     | 100.00                    | 161.28                         | 560.26                        | 41.04                          | 565.60                        | 385.03                               | 390.17                               |
| 26-Oct-15 | 15:47:50 | 278.9             | 12.46                  | 0.999        | 2992.3       | 17.48                      | 49.89                        | 85.30                     | 100.00                    | 161.28                         | 560.29                        | 41.04                          | 565.62                        | 385.04                               | 390.15                               |
| 26-Oct-15 | 15:47:55 | 278.8             | 12.43                  | 0.999        | 2992.2       | 17.48                      | 49.90                        | 85.35                     | 100.00                    | 161.27                         | 560.32                        | 41.04                          | 565.62                        | 385.04                               | 390.18                               |
| 26-Oct-15 | 15:48:00 | 278.7             | 12.41                  | 0.999        | 2994.1       | 17.48                      | 49.90                        | 85.40                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.05                               | 390.18                               |
| 26-Oct-15 | 15:48:05 | 278.7             | 12.38                  | 0.999        | 2996.9       | 17.48                      | 49.91                        | 85.44                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.06                               | 390.19                               |
| 26-Oct-15 | 15:48:10 | 279.0             | 12.35                  | 0.999        | 3000.4       | 17.48                      | 49.91                        | 85.00                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.03                               | 390.20                               |
| 26-Oct-15 | 15:48:15 | 278.9             | 12.32                  | 0.999        | 3001.2       | 17.48                      | 49.92                        | 84.78                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.03                               | 390.21                               |
| 26-Oct-15 | 15:48:20 | 278.8             | 12.29                  | 0.999        | 2997.6       | 17.48                      | 49.92                        | 84.62                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.03                               | 390.21                               |
| 26-Oct-15 | 15:48:25 | 278.7             | 12.26                  | 0.999        | 2998.0       | 17.48                      | 49.93                        | 84.47                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.03                               | 390.21                               |
| 26-Oct-15 | 15:48:30 | 278.9             | 12.29                  | 0.999        | 2995.9       | 17.48                      | 49.92                        | 84.32                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.01                               | 390.21                               |
| 26-Oct-15 | 15:48:35 | 279.7             | 14.07                  | 0.999        | 2995.2       | 17.48                      | 49.89                        | 84.16                     | 100.00                    | 161.27                         | 560.35                        | 41.04                          | 565.62                        | 385.05                               | 390.22                               |
| 26-Oct-15 | 15:48:40 | 279.0             | 12.44                  | 0.999        | 2995.2       | 17.48                      | 49.89                        | 85.13                     | 100.00                    | 161.26                         | 560.36                        | 41.04                          | 565.62                        | 385.03                               | 390.22                               |
| 26-Oct-15 | 15:48:45 | 279.0             | 12.21                  | 0.999        | 2995.2       | 17.48                      | 49.90                        | 85.29                     | 100.00                    | 161.20                         | 560.42                        | 41.04                          | 565.92                        | 385.03                               | 390.22                               |
| 26-Oct-15 | 15:48:50 | 279.0             | 12.21                  | 0.999        | 2997.9       | 17.48                      | 49.92                        | 85.35                     | 100.00                    | 161.15                         | 560.48                        | 41.04                          | 566.05                        | 385.03                               | 390.22                               |
| 26-Oct-15 | 15:48:55 | 278.7             | 12.21                  | 0.999        | 3000.4       | 17.48                      | 49.93                        | 85.45                     | 100.00                    | 161.10                         | 560.54                        | 41.04                          | 566.07                        | 385.05                               | 390.23                               |
| 26-Oct-15 | 15:49:00 | 279.5             | 12.21                  | 0.999        | 2995.7       | 17.48                      | 49.89                        | 84.44                     | 100.00                    | 161.09                         | 560.59                        | 41.04                          | 566.09                        | 385.05                               | 390.23                               |
| 26-Oct-15 | 15:49:05 | 278.7             | 12.24                  | 0.999        | 2997.4       | 17.48                      | 49.89                        | 85.28                     | 100.00                    | 161.08                         | 560.62                        | 41.04                          | 566.10                        | 385.04                               | 390.23                               |
| 26-Oct-15 | 15:49:10 | 278.4             | 12.34                  | 0.999        | 2999.1       | 17.48                      | 49.91                        | 85.95                     | 100.00                    | 161.07                         | 560.64                        | 41.03                          | 566.12                        | 385.03                               | 390.23                               |
| 26-Oct-15 | 15:49:15 | 278.8             | 12.44                  | 0.999        | 3001.7       | 17.48                      | 49.93                        | 85.91                     | 100.00                    | 161.05                         | 560.65                        | 41.03                          | 566.13                        | 385.03                               | 390.23                               |
| 26-Oct-15 | 15:49:20 | 279.5             | 12.54                  | 0.999        | 2995.7       | 17.48                      | 49.90                        | 84.58                     | 100.00                    | 161.04                         | 560.67                        | 41.03                          | 566.15                        | 385.05                               | 390.24                               |
| 26-Oct-15 | 15:49:25 | 279.1             | 12.64                  | 0.999        | 2997.6       | 17.48                      | 49.89                        | 85.13                     | 100.00                    | 161.03                         | 560.69                        | 41.03                          | 566.17                        | 385.05                               | 390.24                               |
| 26-Oct-15 | 15:49:30 | 278.8             | 12.75                  | 0.999        | 2999.5       | 17.48                      | 49.91                        | 85.03                     | 100.00                    | 161.02                         | 560.70                        | 41.03                          | 566.18                        | 385.04                               | 390.24                               |
| 26-Oct-15 | 15:49:35 | 279.0             | 12.85                  | 0.999        | 3002.7       | 17.48                      | 49.93                        | 84.73                     | 100.00                    | 161.01                         | 560.72                        | 41.03                          | 566.20                        | 385.05                               | 390.24                               |
| 26-Oct-15 | 15:49:40 | 279.2             | 12.94                  | 0.999        | 2999.8       | 17.48                      | 49.95                        | 84.42                     | 100.00                    | 161.00                         | 560.74                        | 41.03                          | 566.21                        | 385.06                               | 390.24                               |
| 26-Oct-15 | 15:49:45 | 279.3             | 12.90                  | 0.999        | 3001.4       | 17.48                      | 49.96                        | 84.81                     | 100.00                    | 160.99                         | 560.76                        | 41.02                          | 566.23                        | 385.06                               | 390.25                               |
| 26-Oct-15 | 15:49:50 | 278.5             | 12.86                  | 0.999        | 3003.0       | 17.48                      | 49.97                        | 85.39                     | 100.00                    | 160.98                         | 560.77                        | 41.02                          | 566.24                        | 385.04                               | 390.25                               |
| 26-Oct-15 | 15:49:55 | 279.2             | 12.83                  | 0.999        | 2999.5       | 17.48                      | 49.98                        | 85.30                     | 100.00                    | 160.98                         | 560.79                        | 41.02                          | 566.24                        | 385.04                               | 390.25                               |
| 26-Oct-15 | 15:50:00 | 279.0             | 12.79                  | 0.999        | 3000.3       | 17.48                      | 49.95                        | 85.28                     | 100.00                    | 160.97                         | 560.81                        | 41.02                          | 566.24                        | 385.04                               | 390.25                               |
| 26-Oct-15 | 15:50:05 | 278.8             | 12.76                  | 0.999        | 3000.7       | 17.48                      | 49.94                        | 85.14                     | 100.00                    | 160.97                         | 560.81                        | 41.02                          | 566.24                        | 385.06                               | 390.25                               |
| 26-Oct-15 | 15:50:10 | 278.7             | 12.72                  | 0.999        | 3001.6       | 17.48                      | 49.96                        | 85.33                     | 100.00                    | 160.97                         | 560.81                        | 41.02                          | 566.24                        | 385.07                               | 390.26                               |
| 26-Oct-15 | 15:50:15 | 278.2             | 12.69                  | 0.999        | 3006.3       | 17.48                      | 49.98                        | 86.35                     | 100.00                    | 160.97                         | 560.81                        | 41.02                          | 566.24                        | 385.07                               | 390.26                               |
| 26-Oct-15 | 15:50:20 | 279.0             | 12.65                  | 0.999        | 3002.2       | 17.48                      | 49.99                        | 85.11                     | 100.00                    | 160.96                         | 560.82                        | 41.02                          | 566.24                        | 385.07                               | 390.27                               |
| 26-Oct-15 | 15:50:25 | 279.0             | 12.61                  | 0.999        | 3001.6       | 17.48                      | 49.99                        | 84.26                     | 100.00                    | 160.93                         | 560.85                        | 41.02                          | 566.24                        | 385.07                               | 390.27                               |
| 26-Oct-15 | 15:50:30 | 278.8             | 12.58                  | 0.999        | 3001.2       | 17.48                      | 49.99                        | 85.08                     | 100.00                    | 160.90                         | 560.89                        | 41.02                          | 566.25                        | 385.08                               | 390.28                               |
| 26-Oct-15 | 15:50:35 | 278.2             | 12.54                  | 0.999        | 3001.8       | 17.48                      | 49.99                        | 85.53                     | 100.00                    | 160.87                         | 560.92                        | 41.01                          | 566.25                        | 385.08                               | 390.28                               |
| 26-Oct-15 | 15:50:40 | 278.9             | 12.51                  | 0.999        | 2999.6       | 17.48                      | 49.99                        | 84.57                     | 100.00                    | 160.83                         | 560.96                        | 41.01                          | 566.26                        | 385.08                               | 390.29                               |
| 26-Oct-15 | 15:50:45 | 279.0             | 12.51                  | 0.999        | 3000.0       | 17.48                      | 49.99                        | 84.80                     | 100.00                    | 160.80                         | 560.99                        | 41.01                          | 566.26                        | 385.08                               | 390.30                               |
| 26-Oct-15 | 15:50:50 | 278.7             | 12.54                  | 0.999        | 3000.9       | 17.48                      | 50.01                        | 84.95                     | 100.00                    | 160.77                         |                               |                                |                               |                                      |                                      |

Angamos Power Plant Unit#2

| Date      | Time     | Gross Power<br>MW | Reactive Power<br>Mvar | Power Factor | Speed<br>rpm | Voltage<br>Generator<br>kV | Frequency<br>Generator<br>Hz | HP Valve<br>Position<br>% | IP Valve<br>Position<br>% | HP steam<br>Pressure<br>bar(g) | HP steam<br>Temperature<br>°C | IP steam<br>Pressure<br>bar(g) | IP steam<br>Temperature<br>°C | Outlet Boiler<br>Temperature<br>°C | Outlet Boiler<br>Temperature<br>°C |
|-----------|----------|-------------------|------------------------|--------------|--------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------------|------------------------------------|
| 26-Oct-15 | 15:55:00 | 279.5             | 10.51                  | 0.999        | 2999.2       | 17.46                      | 49.96                        | 81.24                     | 100.00                    | 161.20                         | 563.00                        | 41.07                          | 566.75                        | 385.29                             | 390.71                             |
| 26-Oct-15 | 15:55:05 | 279.3             | 10.95                  | 0.999        | 3002.5       | 17.46                      | 49.97                        | 81.31                     | 100.00                    | 161.20                         | 563.01                        | 41.07                          | 566.75                        | 385.29                             | 390.71                             |
| 26-Oct-15 | 15:55:10 | 279.3             | 11.19                  | 0.999        | 3005.9       | 17.46                      | 49.99                        | 81.37                     | 100.00                    | 161.20                         | 563.01                        | 41.07                          | 566.75                        | 385.30                             | 390.73                             |
| 26-Oct-15 | 15:55:15 | 279.6             | 10.92                  | 0.999        | 3007.1       | 17.46                      | 50.04                        | 80.98                     | 100.00                    | 161.20                         | 563.01                        | 41.08                          | 566.75                        | 385.30                             | 390.72                             |
| 26-Oct-15 | 15:55:20 | 280.1             | 10.64                  | 0.999        | 3003.2       | 17.46                      | 50.02                        | 80.41                     | 100.00                    | 161.40                         | 563.01                        | 41.08                          | 566.75                        | 385.31                             | 390.74                             |
| 26-Oct-15 | 15:55:25 | 279.8             | 10.57                  | 0.999        | 3003.2       | 17.46                      | 50.00                        | 80.60                     | 100.00                    | 161.44                         | 563.01                        | 41.08                          | 566.71                        | 385.31                             | 390.75                             |
| 26-Oct-15 | 15:55:30 | 279.8             | 10.09                  | 0.999        | 3002.7       | 17.46                      | 50.00                        | 80.60                     | 100.00                    | 161.47                         | 563.01                        | 41.08                          | 566.67                        | 385.32                             | 390.76                             |
| 26-Oct-15 | 15:55:35 | 279.5             | 9.82                   | 0.999        | 3002.0       | 17.46                      | 50.00                        | 80.43                     | 100.00                    | 161.51                         | 563.01                        | 41.08                          | 566.63                        | 385.33                             | 390.76                             |
| 26-Oct-15 | 15:55:40 | 279.7             | 9.54                   | 0.999        | 3001.3       | 17.46                      | 50.00                        | 80.26                     | 100.00                    | 161.55                         | 563.01                        | 41.08                          | 566.59                        | 385.32                             | 390.77                             |
| 26-Oct-15 | 15:55:45 | 279.5             | 9.80                   | 0.999        | 3000.6       | 17.46                      | 49.99                        | 80.08                     | 100.00                    | 161.59                         | 563.01                        | 41.08                          | 566.55                        | 385.30                             | 390.77                             |
| 26-Oct-15 | 15:55:50 | 279.4             | 11.25                  | 0.999        | 2999.8       | 17.46                      | 49.97                        | 79.91                     | 100.00                    | 161.62                         | 563.01                        | 41.09                          | 566.51                        | 385.31                             | 390.78                             |
| 26-Oct-15 | 15:55:55 | 280.0             | 11.20                  | 0.999        | 2999.7       | 17.47                      | 49.96                        | 79.73                     | 100.00                    | 161.64                         | 563.01                        | 41.09                          | 566.48                        | 385.31                             | 390.78                             |
| 26-Oct-15 | 15:56:00 | 279.7             | 11.15                  | 0.999        | 2999.2       | 17.47                      | 49.95                        | 80.37                     | 100.00                    | 161.67                         | 563.01                        | 41.09                          | 566.45                        | 385.33                             | 390.76                             |
| 26-Oct-15 | 15:56:05 | 279.6             | 11.10                  | 0.999        | 2996.7       | 17.47                      | 49.96                        | 80.30                     | 100.00                    | 161.69                         | 563.01                        | 41.09                          | 566.42                        | 385.33                             | 390.79                             |
| 26-Oct-15 | 15:56:10 | 279.3             | 11.05                  | 0.999        | 3002.3       | 17.48                      | 49.98                        | 80.36                     | 100.00                    | 161.72                         | 563.01                        | 41.09                          | 566.39                        | 385.33                             | 390.80                             |
| 26-Oct-15 | 15:56:15 | 279.5             | 11.00                  | 0.999        | 3005.2       | 17.48                      | 49.99                        | 80.52                     | 100.00                    | 161.74                         | 563.01                        | 41.09                          | 566.36                        | 385.33                             | 390.80                             |
| 26-Oct-15 | 15:56:20 | 279.7             | 10.95                  | 0.999        | 3008.5       | 17.48                      | 50.02                        | 80.11                     | 100.00                    | 161.76                         | 563.01                        | 41.09                          | 566.34                        | 385.33                             | 390.81                             |
| 26-Oct-15 | 15:56:25 | 280.2             | 10.90                  | 0.999        | 3003.1       | 17.48                      | 50.04                        | 79.72                     | 100.00                    | 161.79                         | 563.01                        | 41.09                          | 566.31                        | 385.33                             | 390.81                             |
| 26-Oct-15 | 15:56:30 | 280.1             | 10.85                  | 0.999        | 3002.0       | 17.48                      | 50.01                        | 79.46                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.28                        | 385.33                             | 390.82                             |
| 26-Oct-15 | 15:56:35 | 279.9             | 10.80                  | 0.999        | 3001.0       | 17.48                      | 49.99                        | 79.20                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.25                        | 385.33                             | 390.81                             |
| 26-Oct-15 | 15:56:40 | 280.2             | 10.75                  | 0.999        | 2999.9       | 17.48                      | 49.97                        | 78.94                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.22                        | 385.33                             | 390.82                             |
| 26-Oct-15 | 15:56:45 | 280.5             | 10.70                  | 0.999        | 2998.5       | 17.47                      | 49.95                        | 78.68                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.19                        | 385.33                             | 390.82                             |
| 26-Oct-15 | 15:56:50 | 280.1             | 10.65                  | 0.999        | 2997.2       | 17.47                      | 49.95                        | 79.33                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.17                        | 385.35                             | 390.84                             |
| 26-Oct-15 | 15:56:55 | 279.5             | 10.65                  | 0.999        | 2999.4       | 17.47                      | 49.92                        | 80.12                     | 100.00                    | 161.80                         | 563.01                        | 41.09                          | 566.17                        | 385.35                             | 390.85                             |
| 26-Oct-15 | 15:57:00 | 279.8             | 10.65                  | 0.999        | 2999.7       | 17.47                      | 49.94                        | 80.04                     | 100.00                    | 161.81                         | 563.03                        | 41.09                          | 566.17                        | 385.37                             | 390.87                             |
| 26-Oct-15 | 15:57:05 | 279.9             | 10.65                  | 0.999        | 3000.1       | 17.47                      | 49.94                        | 79.66                     | 100.00                    | 161.83                         | 563.10                        | 41.10                          | 566.13                        | 385.37                             | 390.88                             |
| 26-Oct-15 | 15:57:10 | 279.9             | 10.65                  | 0.999        | 2999.9       | 17.46                      | 49.94                        | 80.04                     | 100.00                    | 161.86                         | 563.09                        | 41.10                          | 566.10                        | 385.37                             | 390.89                             |
| 26-Oct-15 | 15:57:15 | 279.7             | 10.65                  | 0.999        | 2999.8       | 17.46                      | 49.94                        | 80.59                     | 100.00                    | 161.88                         | 563.08                        | 41.11                          | 566.07                        | 385.38                             | 390.89                             |
| 26-Oct-15 | 15:57:20 | 280.3             | 10.65                  | 0.999        | 3002.0       | 17.46                      | 49.94                        | 79.64                     | 100.00                    | 161.90                         | 563.07                        | 41.11                          | 566.03                        | 385.38                             | 390.89                             |
| 26-Oct-15 | 15:57:25 | 280.1             | 10.66                  | 0.999        | 2998.0       | 17.46                      | 49.94                        | 79.57                     | 100.00                    | 161.93                         | 563.06                        | 41.12                          | 566.00                        | 385.38                             | 390.88                             |
| 26-Oct-15 | 15:57:30 | 279.8             | 10.66                  | 0.999        | 2999.9       | 17.46                      | 49.93                        | 79.94                     | 100.00                    | 161.96                         | 563.05                        | 41.12                          | 565.97                        | 385.39                             | 390.90                             |
| 26-Oct-15 | 15:57:35 | 279.8             | 10.67                  | 0.999        | 2999.8       | 17.46                      | 49.93                        | 80.16                     | 100.00                    | 162.00                         | 563.04                        | 41.13                          | 565.93                        | 385.39                             | 390.91                             |
| 26-Oct-15 | 15:57:40 | 280.0             | 10.68                  | 0.999        | 3001.0       | 17.46                      | 49.93                        | 79.93                     | 100.00                    | 162.05                         | 563.03                        | 41.14                          | 565.90                        | 385.39                             | 390.91                             |
| 26-Oct-15 | 15:57:45 | 280.3             | 10.68                  | 0.999        | 3000.9       | 17.46                      | 49.92                        | 80.09                     | 100.00                    | 162.10                         | 563.01                        | 41.14                          | 565.86                        | 385.39                             | 390.92                             |
| 26-Oct-15 | 15:57:50 | 280.2             | 10.69                  | 0.999        | 3000.4       | 17.45                      | 49.92                        | 80.45                     | 100.00                    | 162.14                         | 563.00                        | 41.15                          | 565.83                        | 385.40                             | 390.92                             |
| 26-Oct-15 | 15:57:55 | 280.3             | 10.74                  | 0.999        | 2999.8       | 17.45                      | 49.91                        | 80.28                     | 100.00                    | 162.12                         | 562.99                        | 41.16                          | 565.82                        | 385.40                             | 390.93                             |
| 26-Oct-15 | 15:58:00 | 280.1             | 10.81                  | 0.999        | 2999.4       | 17.45                      | 49.91                        | 80.43                     | 100.00                    | 162.09                         | 562.98                        | 41.16                          | 565.82                        | 385.40                             | 390.93                             |
| 26-Oct-15 | 15:58:05 | 279.8             | 10.88                  | 0.999        | 3000.6       | 17.45                      | 49.94                        | 80.48                     | 100.00                    | 162.07                         | 562.98                        | 41.16                          | 565.82                        | 385.41                             | 390.94                             |
| 26-Oct-15 | 15:58:10 | 279.7             | 10.95                  | 0.999        | 3001.7       | 17.45                      | 49.96                        | 80.02                     | 100.00                    | 162.04                         | 562.98                        | 41.16                          | 565.82                        | 385.38                             | 390.91                             |
| 26-Oct-15 | 15:58:15 | 280.3             | 11.03                  | 0.999        | 3000.0       | 17.45                      | 49.94                        | 80.00                     | 100.00                    | 162.02                         | 562.98                        | 41.16                          | 565.82                        | 385.39                             | 390.94                             |
| 26-Oct-15 | 15:58:20 | 280.2             | 11.10                  | 0.999        | 3000.8       | 17.45                      | 49.93                        | 80.31                     | 100.00                    | 161.99                         | 562.98                        | 41.16                          | 565.82                        | 385.41                             | 390.94                             |
| 26-Oct-15 | 15:58:25 | 279.9             | 11.17                  | 0.999        | 3001.2       | 17.45                      | 49.92                        | 80.62                     | 100.00                    | 161.97                         | 562.98                        | 41.16                          | 565.82                        | 385.38                             | 390.94                             |
| 26-Oct-15 | 15:58:30 | 279.3             | 11.24                  | 0.999        | 3003.6       | 17.45                      | 49.98                        | 81.12                     | 100.00                    | 161.95                         | 562.98                        | 41.16                          | 565.82                        | 385.41                             | 390.95                             |
| 26-Oct-15 | 15:58:35 | 279.9             | 11.31                  | 0.999        | 3005.8       | 17.45                      | 50.01                        | 80.26                     | 100.00                    | 161.94                         | 562.98                        | 41.16                          | 565.82                        | 385.41                             | 390.96                             |
| 26-Oct-15 | 15:58:40 | 280.3             | 11.38                  | 0.999        | 3000.4       | 17.45                      | 50.00                        | 79.65                     | 100.00                    | 161.95                         | 562.98                        | 41.16                          | 565.82                        | 385.42                             | 390.96                             |
| 26-Oct-15 | 15:58:45 | 280.0             | 11.45                  | 0.999        | 3002.2       | 17.45                      | 49.98                        | 79.65                     | 100.00                    | 161.97                         | 562.97                        | 41.16                          | 565.77                        | 385.42                             | 390.97                             |
| 26-Oct-15 | 15:58:50 | 279.6             | 11.51                  | 0.999        | 3001.9       | 17.45                      | 49.97                        | 80.53                     | 100.00                    | 161.99                         | 562.96                        | 41.15                          | 565.71                        | 385.42                             | 390.98                             |
| 26-Oct-15 | 15:58:55 | 280.3             | 11.51                  | 0.999        | 3000.3       | 17.45                      | 49.96                        | 79.75                     | 100.00                    | 162.01                         | 562.96                        | 41.15                          | 565.72                        | 385.43                             | 390.99                             |
| 26-Oct-15 | 15:59:00 | 279.8             | 11.51                  | 0.999        | 3001.1       | 17.45                      | 49.96                        | 80.38                     | 100.00                    | 162.04                         | 562.95                        | 41.14                          | 565.73                        | 385.43                             | 390.99                             |
| 26-Oct-15 | 15:59:05 | 279.7             | 11.49                  | 0.999        | 3003.4       | 17.45                      | 49.98                        | 80.75                     | 100.00                    | 162.06                         | 562.94                        | 41.15                          | 565.74                        | 385.43                             | 391.00                             |
| 26-Oct-15 | 15:59:10 | 279.9             | 11.40                  | 0.999        | 3003.8       | 17.46                      | 50.01                        | 80.50                     | 100.00                    | 162.08                         | 562.93                        | 41.16                          | 565.75                        | 385.44                             | 391.01                             |
| 26-Oct-15 | 15:59:15 | 280.1             | 11.32                  | 0.999        | 3004.2       | 17.47                      | 50.02                        | 80.25                     | 100.00                    | 162.11                         | 562.91                        | 41.17                          | 565.76                        | 385.44                             | 391.00                             |
| 26-Oct-15 | 15:59:20 | 280.3             | 11.23                  | 0.999        | 3004.6       | 17.47                      | 50.03                        | 80.00                     | 100.00                    | 162.13                         | 562.90                        | 41.18                          | 565.77                        | 385.44                             | 391.02                             |
| 26-Oct-15 | 15:59:25 | 280.8             | 11.14                  | 0.999        | 3005.1       | 17.48                      | 50.03                        | 79.85                     | 100.00                    | 162.14                         | 562.88                        | 41.18                          | 565.78                        | 385.45                             | 391.03                             |
| 26-Oct-15 | 15:59:30 | 280.1             | 11.06                  | 0.999        | 3005.5       | 17.48                      | 50.04                        | 80.83                     | 100.00                    | 162.14                         | 562.87                        | 41.19                          | 565.79                        | 385.45                             | 391.03                             |
| 26-Oct-15 | 15:59:35 | 280.1             | 10.97                  | 0.999        | 3005.9       | 17.48                      | 50.04                        | 80.63                     | 100.00                    | 162.14                         | 562.86                        | 41.19                          | 565.80                        | 385.46                             | 391.04                             |
| 26-Oct-15 | 15:59:40 | 280.1             | 10.89                  | 0.999        | 3006.4       | 17.48                      | 50.05                        | 81.13                     | 100.00                    | 162.14                         | 562.84                        | 41.19                          | 565.81                        | 385.47                             | 391.05                             |
| 26-Oct-15 | 15:59:45 | 280.2             | 10.80                  | 0.999        | 3006.8       | 17.48                      | 50.05                        | 81.37                     | 100.00                    | 162.14                         | 562.83                        | 41.19                          | 565.82                        | 385.47                             | 391.03                             |
| 26-Oct-15 | 15:59:50 | 279.8             | 10.71                  | 0.999        | 3009.8       | 17.48                      | 50.06                        | 81.61                     | 100.00                    | 162.14                         | 562.82                        | 41.19                          | 565.83                        | 385.48                             | 391.05                             |
| 26-Oct-15 | 15:59:55 | 279.9             | 10.70                  | 0.999        | 3008.8       | 17.48                      | 50.07                        | 81.86                     | 100.00                    | 162.14                         | 562.80                        | 41.19                          | 565.83                        | 385.48                             | 391.05                             |
| 26-Oct-15 | 16:00:00 | 280.8             | 10.70                  | 0.999        | 3003.0       | 17.48                      | 50.07                        | 79.55                     | 100.00                    | 162.14                         | 562.79                        | 41.19                          | 565.83                        | 385.48                             | 391.05                             |



## ABOUT DNV GL

Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organizations to advance the safety and sustainability of their business. We provide classification and technical assurance along with software and independent expert advisory services to the maritime, oil and gas, and energy industries. We also provide certification services to customers across a wide range of industries. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping our customers make the world safer, smarter and greener.