

October 30, 2017

The Board of Commissioners of Public Utilities
Prince Charles Building
120 Torbay Road, P.O. Box 21040
St. John's, NL A1A 5B2

Attention: Ms. Cheryl Blundon
Director Corporate Services & Board Secretary

Dear Ms. Blundon:

**Re: The Board's Investigation and Hearing into Supply Issues and Power Outages on the
Island Interconnection System – Winter Readiness Planning Report**

Further to the Board's correspondence of October 13, 2016, please find enclosed the original plus 12 copies of Hydro's October update to its 2017-2018 Winter Readiness Planning Report.

Should you have any questions, please contact the undersigned.

Yours truly,
NEWFOUNDLAND AND LABRADOR HYDRO



Michael Ladha
Legal Counsel & Assistant Corporate Secretary

ML/skc

cc: Gerard Hayes – Newfoundland Power
Paul Coxworthy – Stewart McKelvey Stirling Scales
Danny Dumaresque
ecc: Roberta Frampton Benefiel – Grand Riverkeeper Labrador

Dennis Browne, Q.C. – Consumer Advocate
Sheryl Nisenbaum – Praxair Canada Inc.
Dennis Fleming – Cox & Palmer

A Report to the Board of Commissioners of Public Utilities
Regarding 2017/2018 Winter Readiness Planning as of October 20, 2017

October 30, 2017

A Report to the Board of Commissioners of Public Utilities



Table of Contents

| | | |
|-------|--|----|
| 1.0 | Background and Introduction | 1 |
| 2.0 | Annual Work Plan Status | 3 |
| 2.1 | AWP and WR Status: Holyrood Thermal Generating Station | 4 |
| 2.2 | AWP and WR Status: Gas Turbines | 6 |
| 2.3 | AWP and WR Status: Hydraulic Units..... | 8 |
| 2.4 | AWP and WR Status: Transmission and Terminal Stations..... | 12 |
| 3.0 | Status of Winter Readiness for Capital Projects | 15 |
| 4.0 | Plant and Equipment Testing..... | 16 |
| 4.1 | Thermal Generation | 16 |
| 4.2 | Hydraulic Generation | 17 |
| 4.3 | Transmission and Terminal Stations | 17 |
| 4.3.1 | Transmission | 17 |
| 4.3.2 | Terminal Stations | 18 |
| 4.3.3 | Transmission and Terminal Station Testing..... | 18 |
| 4.4 | Gas Turbines – Holyrood, Hardwoods and Stephenville | 19 |
| 5.0 | Generation Outage Schedule..... | 20 |
| 6.0 | Critical Spares..... | 21 |
| 6.1 | Overview | 21 |
| 6.2 | 2017/2018 Winter Season | 21 |
| 7.0 | Forecasted Loads, Capacity and Reserves | 24 |
| 8.0 | Risks and Risk Mitigation | 26 |
| 8.1 | Capital Projects..... | 26 |
| 8.2 | Thermal Generation | 28 |
| 8.3 | Transmission Line TL267 | 28 |
| 8.4 | Gas Turbines..... | 29 |
| 9.0 | Conclusion..... | 31 |

Appendices

- Appendix A Status of 2017 Capital Projects Related to Winter Readiness
- Appendix B Status of Winter Readiness Testing of Plant and Equipment – Holyrood Thermal Generating Station as of October 20, 2017
- Appendix C Status of Winter Readiness Testing of Plant and Equipment – Hydraulic Generation as of October 20, 2017
- Appendix D Master Generation Outage Schedule – September 1 to December 31, 2016
- Appendix E Critical Spares Status Listing – Thermal Generation
- Appendix F Critical Spares Status Listing – Combustion Turbines
- Appendix G Critical Spares Status Listing – Hydraulic Generation

1 **1.0 Background and Introduction**

2 On October 13, 2016, the Board of Commissioners of Public Utilities (the Board) requested
3 that Newfoundland and Labrador Hydro (Hydro) file a report related to its winter readiness
4 planning for the 2017/2018 winter season (Annual Winter Readiness Report) and provide
5 updates to this Annual Winter Readiness Report on October 30 and November 30.

6

7 Hydro's Annual Winter Readiness Report was filed with the Board on October 2, 2017, for the
8 2017/2018 winter season (September Report). This subsequent Report is the first update to
9 the Annual Winter Readiness Report (the October Update Report). All data in this report is as
10 of October 20, 2016, unless otherwise noted.

11

12 This Report addresses the following items as requested by the Board:

- 13 1. The status of Annual Work Plan (AWP) items, in the format previously provided to the
14 Board, for Hydro's generating plants and transmission and terminal stations, including
15 the completion date; outstanding items to complete; and any risks to completion or as
16 a result of failure to complete;
- 17 2. A description and schedule for all outstanding 2017 capital projects for Hydro's
18 generating plant and transmission and terminal stations, including progress on
19 completion status to date and expected completion date;
- 20 3. The identification of all equipment and plant testing to be carried out in advance of the
21 winter period (generation plant, emergency diesels, black start generators, fire
22 systems, transmission system equipment), including progress on completion status to
23 date;
- 24 4. The planned generation outage schedule for the period October to December 31,
25 2017, including an explanation for any planned outages extending beyond December
26 1, 2017;
- 27 5. An update of critical spares assessment and procurement;

- 1 6. The forecast loads and expected generation capacity and reserves (setting out the
2 basis for calculation) for the upcoming winter, as of December 1, 2017, and including
3 capacity assistance agreements in place or planned; and
- 4 7. An identification of any risks that could impact the winter readiness of assets as of
5 December 1, 2017 and associated contingency plans.

6

7 Some of the major items of note in this October Update Report include:

- 8 a) Updates to the Annual Work Plan and Winter Readiness Activities (see Section 2.0);
- 9 b) Updates to the Winter Readiness Capital Projects, including one item being added to
10 the list of projects that will not be completed for December 1, 2017 (see Section 3 and
11 Appendix A);
- 12 c) Changes to the Master Generation Outage Schedule (see Section 5 and Appendix D);
- 13 d) Updates to the critical spares listing (see Section 6.2 and Appendices E, F, and G); and
- 14 e) Updates to risks and mitigation strategies to reflect the progress and updates received
15 in October.

1 **2.0 Annual Work Plan Status**

2 Hydro's Annual Work Plan (AWP) integrates all planned activities for the year related to the
3 corrective maintenance, preventive maintenance, and capital project support, which are
4 critical to safe and reliable production. Hydro regularly measures the progress of AWP
5 execution in comparison with plan and is able to track the AWP status down to the level of
6 individual work plan items. For consistency, the individual AWP's are incorporated into an
7 integrated AWP (IAWP).

8

9 This Report produces a consolidated summary of actual AWP progress, both for the entire
10 plan (first chart in each set) and the winter readiness (WR) tasks (second chart in each set),
11 versus the plan, as of October 20, 2017 for each of the following areas of operations:

12 A. Holyrood Thermal Generating Station:

13 a. Units 1, 2, and 3; and

14 b. Balance of Plant, including black-start diesels.

15 B. Gas Turbines:

16 a. Holyrood Gas Turbine;

17 b. Hardwoods; and

18 c. Stephenville.

19 C. Hydraulic Generation:

20 a. Bay d'Espoir;

21 b. Cat Arm;

22 c. Hind's Lake;

23 d. Paradise River;

24 e. Upper Salmon; and

25 f. Granite Canal.

26 D. Transmission and Terminal Stations:

27 a. Transmission; and

28 b. Terminal Stations.

1 Each chart includes the completed and remaining AWP and WR tasks, as well as a progress bar
 2 indicating the planned task completion target to date.

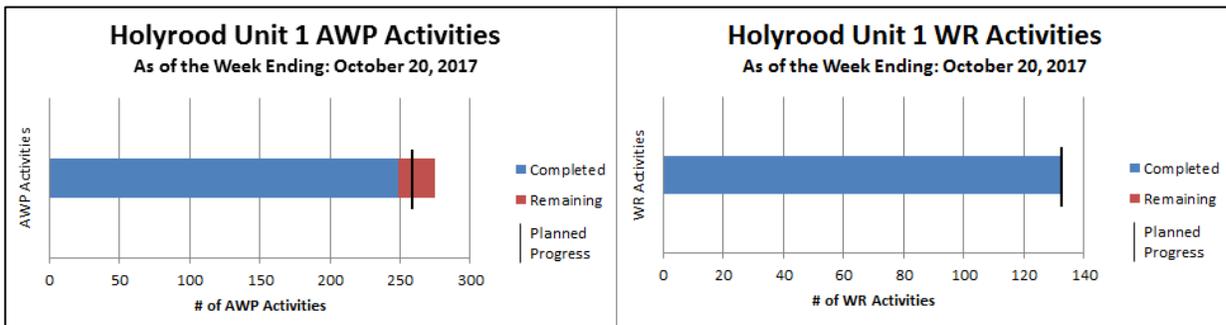
3

4 A text box below each WR chart below indicates Hydro’s forecasted completion status as of
 5 October 20, 2017 in relation to AWP winter readiness activities (Green: On Target, Yellow:
 6 Caution – Recovery Required, Red: Target Will Not be Fully Met). Relevant highlights are also
 7 provided.

8

9 **2.1 AWP and WR Status: Holyrood Thermal Generating Station**

10 The status of AWP and winter readiness execution at Holyrood is summarized in the charts
 11 below. As noted, all planned 2017 winter readiness work is expected to be completed by
 12 December 1, 2017.

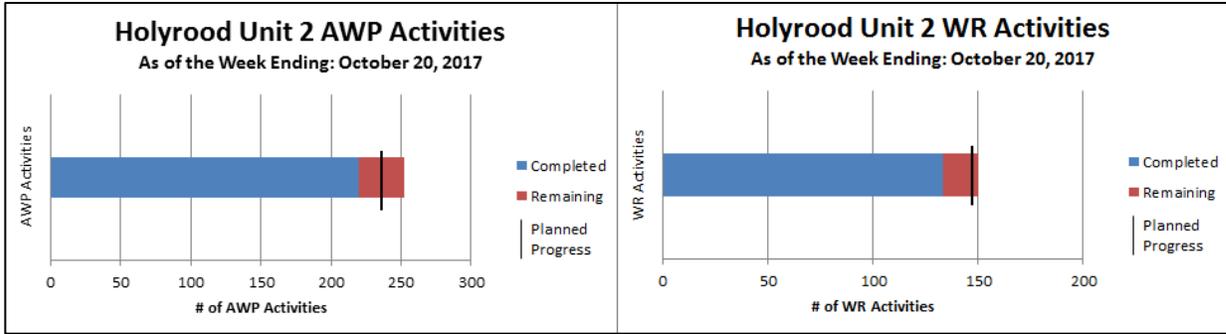


Holyrood Unit 1:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Unit 1 overall program completion status is 91% to date.
- Unit 1 planned winter readiness work completion status is 100% complete for 2017.
- Annual outage complete as of September 15, 2017.
- Remaining on-line planned work is on schedule for successful completion in 2017.

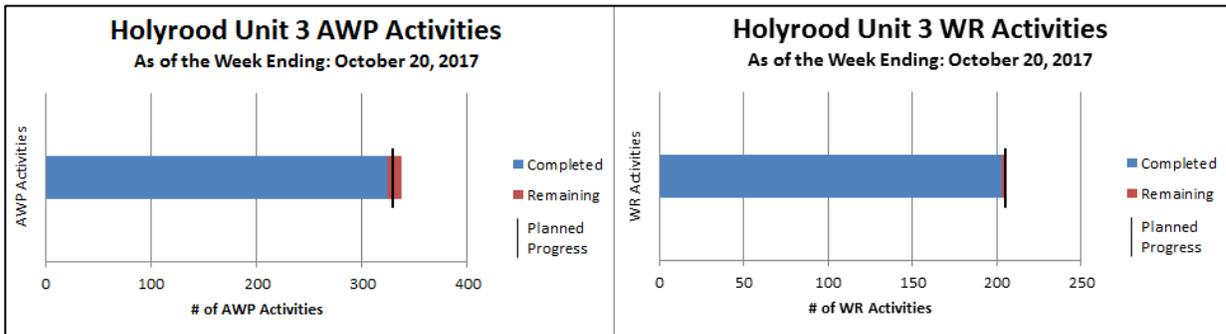


Holyrood Unit 2:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Unit 2 overall AWP completion status is 87% to date.
- Unit 2 planned winter readiness work completion status is 89% complete for 2017.
- Annual outage in progress, with a targeted completion date of October 27, 2017.
- All remaining on-line planned work is on schedule for completion for 2017.

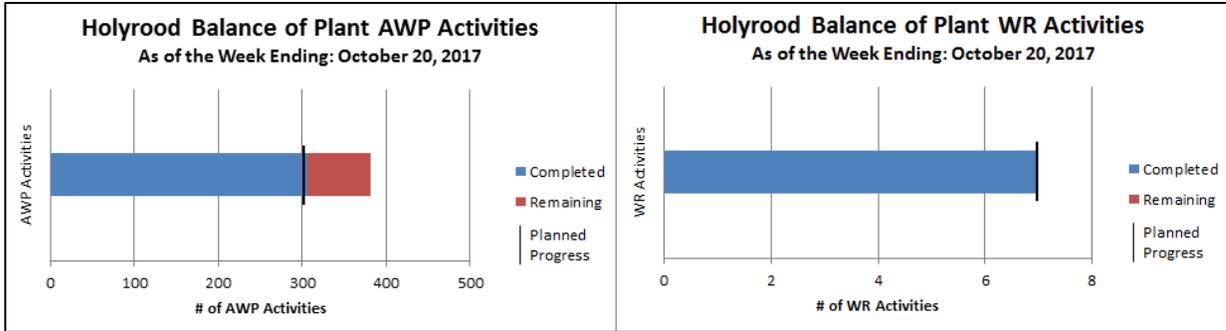


Holyrood Unit 3:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Unit 3 overall AWP completion status is 96% to date.
- Unit 3 planned winter readiness work completion status is 99% complete for 2017.
- Annual outage complete as of June 16, 2017.
- Remaining on-line planned work for Unit 3 is on schedule for successful completion in 2017.



Holyrood – Balance of Plant:

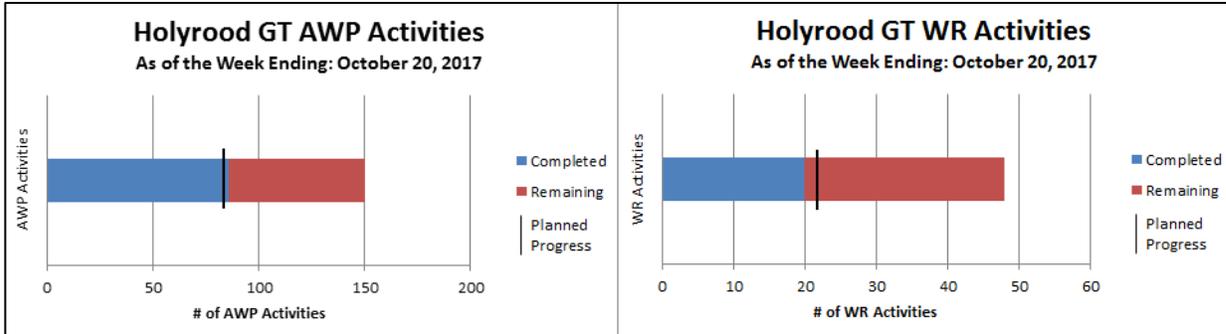
Forecast Completion Status: On Target

Comments and Schedule Notables:

- Balance of plant overall AWP completion status is 76% to date.
- Balance of plant activities do not pertain to any specific operating unit and represent a significant portion of Holyrood’s on-line preventive maintenance program.
- Balance of plant planned winter readiness activities is 100% complete for 2017.
- Remaining on-line planned work is on schedule for successful completion in 2017.

1 **2.2 AWP and WR Status: Gas Turbines**

2 The current status of the Annual Work Plan and winter readiness execution at the Holyrood
 3 Gas Turbine, and the Hardwoods and Stephenville gas turbines is summarized in the following
 4 charts. 58% of the Annual Work Plan and winter readiness work has been completed for the
 5 Holyrood Gas Turbine and 67% and 60% of the Annual Work Plan and winter readiness
 6 activities are completed for Hardwoods and Stephenville, respectively. Outages are planned
 7 for all sites in the October - November timeframe to complete remaining capital and
 8 maintenance work. Remaining non-outage winter readiness work is on target, to be
 9 completed by December 1, 2017.

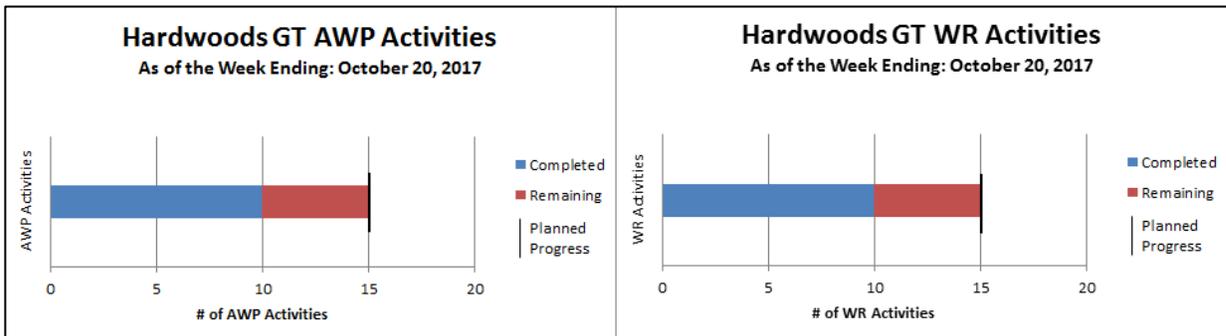


Holyrood Gas Turbine:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Holyrood GT overall AWP completion status, including work in progress, is 58% to date.
- Holyrood GT planned winter readiness completion status is 42% complete to date.
- Unit outage currently scheduled for November 6-12, 2017.
- All winter readiness activities are on schedule for successful completion by December 1, 2017.

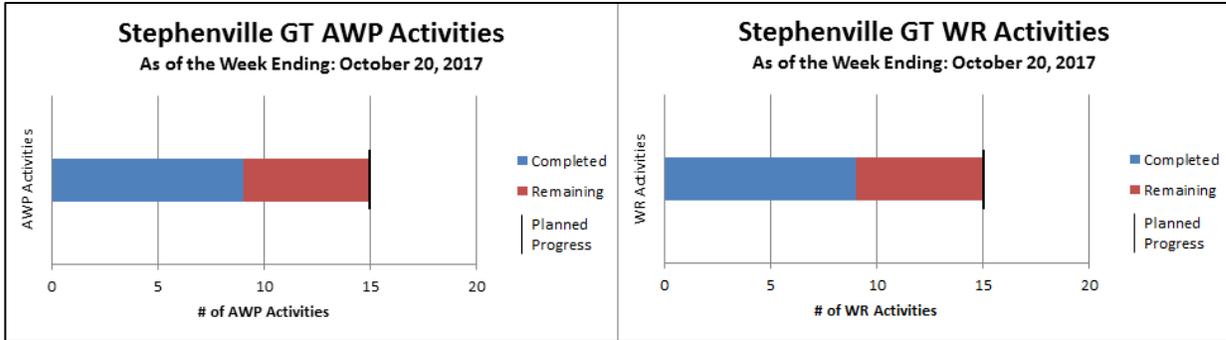


Hardwoods Gas Turbine:

Forecast Completion Status: Caution – Recovery Required

Comments and Schedule Notables:

- Hardwoods GT overall AWP completion status, including work in progress, is 67% to date.
- Hardwoods GT planned winter readiness completion status is 67% complete to date.
- Unit outage currently scheduled for November 13-19, 2017.
- All winter readiness activities are on schedule for successful completion by December 1, 2017.



Stephenville Gas Turbine:

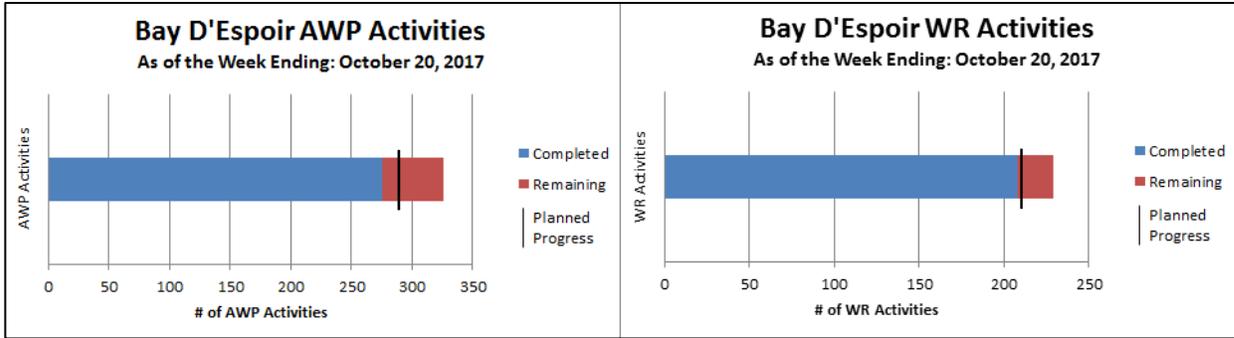
Forecast Completion Status: Caution – Recovery Required

Comments and Schedule Notables:

- Stephenville GT overall AWP completion status, including work in progress, is 60% to date.
- Stephenville GT planned winter readiness completion status is 60% complete to date.
- Unit outage currently scheduled for October 30 – November 3, 2017.
- All winter readiness activities are on schedule for successful completion by December 1, 2017.

1 **2.3 AWP and WR Status: Hydraulic Units**

2 The current status of AWP and winter readiness execution at Bay d’Espoir and other hydraulic
 3 generation facilities is summarized in the charts below. As noted, it is expected that all
 4 planned 2017 winter readiness activities will be completed by December 1, 2017.

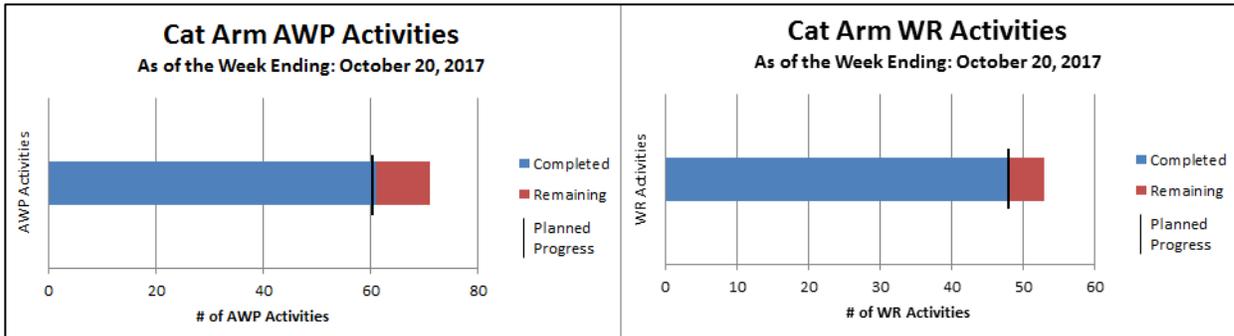


Bay d'Espoir Hydroelectric Units:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Bay d'Espoir overall AWP completion status, including work in progress, is 84% to date.
- Bay d'Espoir planned winter readiness completion status is 91% complete to date.
- All seven planned unit outages are complete.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

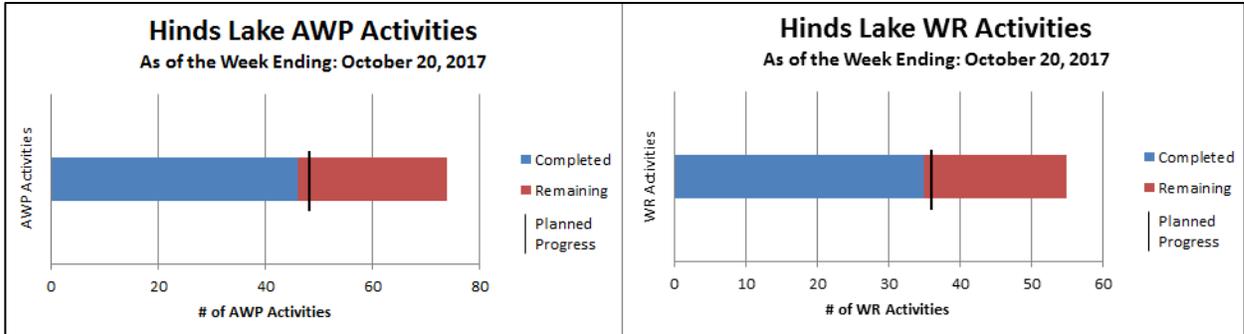


Cat Arm Hydroelectric Units:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Cat Arm overall AWP completion status, including work in progress, is 86% complete to date.
- Cat Arm planned winter readiness completion status is 91% complete to date.
- Cat Arm Unit 1 outage is complete.
- Cat Arm Unit 2 outage completed October 22, 2017, and numbers reflected in the progress charts above.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

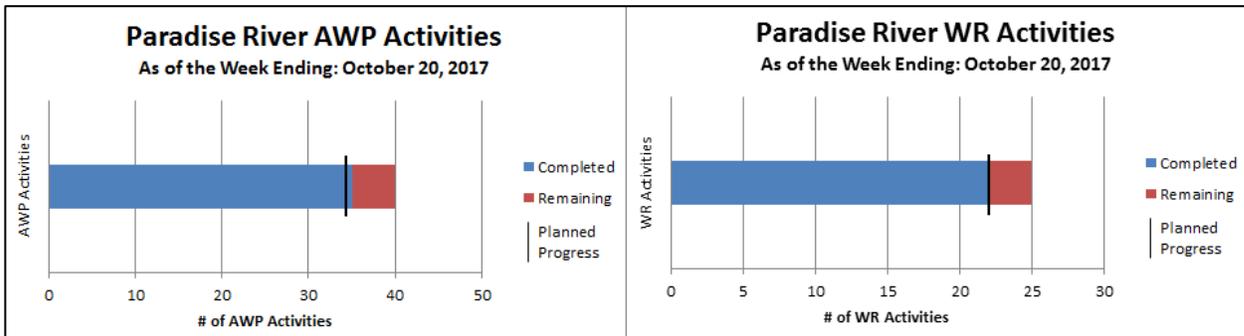


Hinds Lake Hydroelectric Unit:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Hinds Lake overall AWP completion status, including work in progress, is 62% complete to date.
- Hinds Lake planned winter readiness completion status is 64% complete to date.
- Unit outage is scheduled for October 30, 2017 to November 17, 2017.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

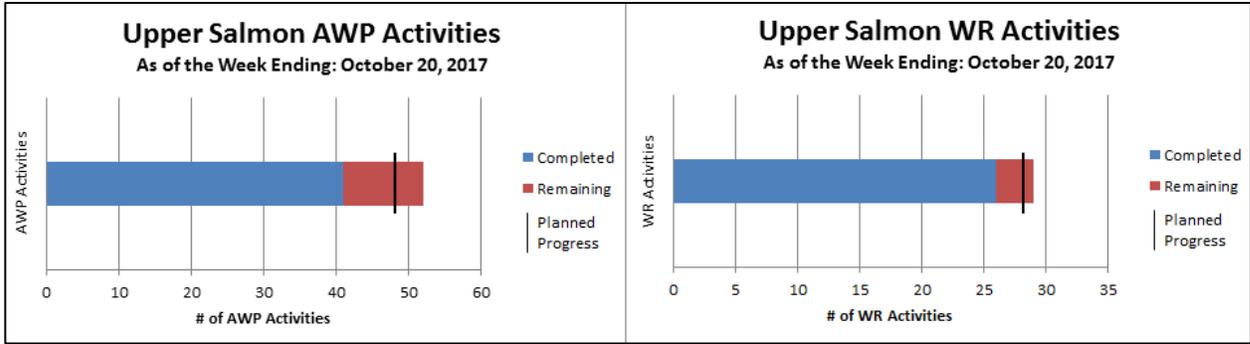


Paradise River Hydroelectric Unit:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Paradise River overall AWP completion status, including work in progress, is 88% complete to date.
- Paradise River planned winter readiness completion status is 88% complete to date.
- Unit outage is complete.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

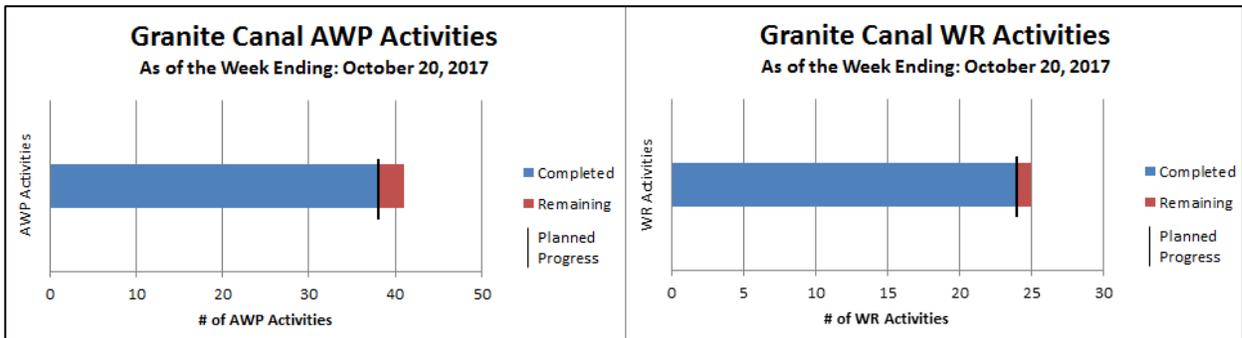


Upper Salmon Hydroelectric Unit:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Upper Salmon overall AWP completion status, including work in progress, is 87% complete to date.
- Upper Salmon planned winter readiness completion status is 97% complete to date.
- Unit outage is complete.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.



Granite Canal Hydroelectric Units:

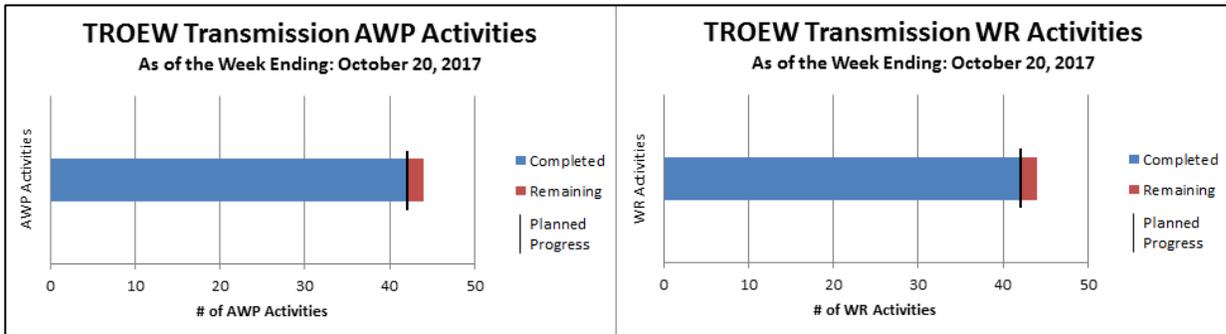
Forecast Completion Status: On Target

Comments and Schedule Notables:

- Granite Canal overall AWP completion status, including work in progress, is 93% complete to date.
- Granite Canal planned winter readiness completion status is 96% complete to date.
- Unit outage is complete.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

1 **2.4 AWP and WR Status: Transmission and Terminal Stations**

2 The current status of AWP and winter readiness execution for both transmission line and
 3 terminal station facilities on the Island Interconnected System (IIS) (Northern, West and East
 4 regions) is summarized in the charts below. As noted, it is expected that all planned 2017
 5 winter readiness activities will be completed by December 1, 2017.

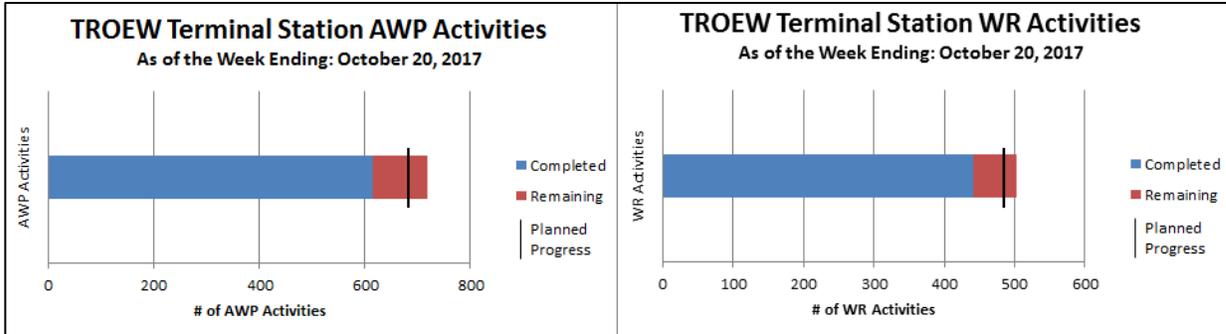


Transmission and Rural Operations (East and West) - Transmission:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Transmission overall AWP completion status, including work in progress, is 95% to date.
- Transmission planned winter readiness completion status is 95% complete to date.
- Remaining winter readiness work is on schedule for successful completion by December 1, 2017.

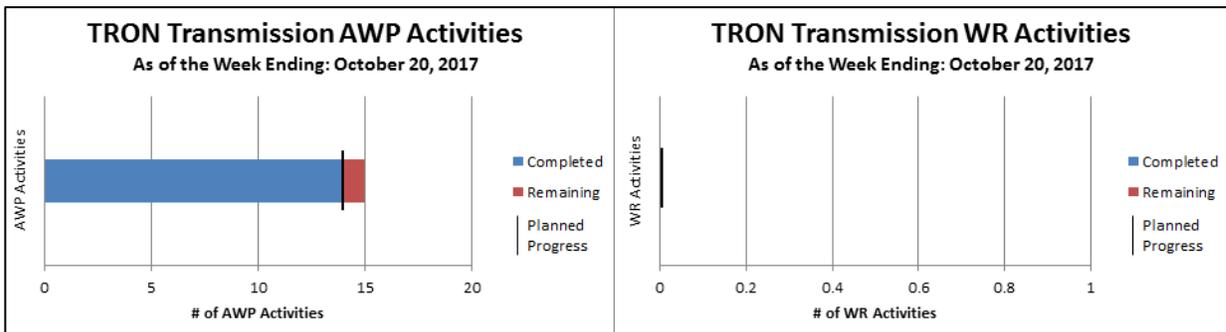


Transmission and Rural Operations (East and West) - Terminal Stations:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Terminal station overall AWP completion status, including work in progress, is 86% to date.
- Terminal station planned winter readiness completion status is 85% complete to date.
- Remaining Winter Readiness work is on schedule for successful completion by December 1, 2017.

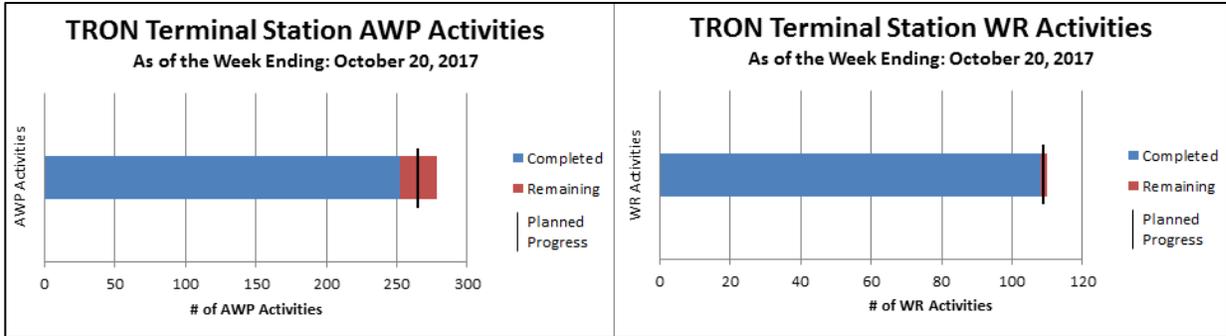


Transmission and Rural Operations (Northern) - Transmission:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Transmission overall AWP completion status, including work in progress, is 93% complete to date.
- Wood Pole Line Management program work has been completed for 2017.
- Remaining planned on-line activities on schedule for successful completion by December 1, 2017.



Transmission and Rural Operations (Northern) - Terminal Stations:

Forecast Completion Status: On Target

Comments and Schedule Notables:

- Terminal Station overall AWP completion status is 91% complete to date.
- Terminal station planned winter readiness completion status is 98% to date.
- Remaining Winter Readiness work on schedule for successful completion by November 15, 2017.

1 **3.0 Status of Winter Readiness for Capital Projects**

2 Appendix A of this report identifies the 2017 capital projects that include scope related to
3 2017/2018 winter readiness, and indicates status of each. Table 3.1 below summarizes the
4 status of the winter readiness scope of these projects by asset category.

5

Table 3.1 Winter Readiness Scope in 2017 Capital Projects

| Asset Category | Complete (As of 20-Oct-17) | Incomplete (Expected Completion by 01-Dec-2017) | Incomplete (Expected Completion after 01-Dec-2017) | Total |
|--------------------------|-----------------------------------|--|---|--------------|
| Hydraulic Plant | 5 | 1 | 3 | 9 |
| Thermal Plant | 7 | 1 | 1 | 9 |
| Gas Turbines | 1 | 4 | 0 | 5 |
| Diesel Generation | 1 | 0 | 0 | 1 |
| Terminal Stations | 0 | 1 | 2 | 3 |
| Transmission | 2 | 1 | 1 | 4 |
| Other | 1 | 0 | 1 | 2 |
| Total | 17 | 8 | 8 | 33 |

6 Of the 33 capital projects with winter readiness scope, eight projects have some scope that is
7 not expected to be completed by the winter readiness target date of December 1, 2017.
8 Appendix A highlights these eight projects, describes the scope that is expected to be
9 incomplete, and the risk mitigation Hydro is implementing until the work is complete. Hydro
10 continues to closely coordinate its overall work plan and manage associated risks as we enter
11 the winter season 2017/2018.

1 **4.0 Plant and Equipment Testing**

2 To ensure that it is ready for the upcoming winter season, Hydro follows a structured checklist
3 for planning and documenting its testing and inspection of plant and equipment in its thermal
4 and hydraulic generation facilities.

5

6 In its transmission, terminal station, and gas turbine operations, Hydro relies on its AWP
7 process to plan and track its winter readiness testing and inspection of these assets. The
8 AWPs in these areas include planned preventive maintenance (PM) activities, as well as
9 corrective maintenance (CM) items, both of which involve inspection and testing. Planned
10 PMs, CMs, and any other activities pertaining to winter readiness are flagged inside the
11 respective AWP and may therefore be tracked separately from other AWP items that are not
12 winter readiness related.

13

14 **4.1 Thermal Generation**

15 Winter readiness testing of generating equipment in Thermal Generation is focused primarily
16 around annual unit maintenance outages. Following these annual outages, units are run up,
17 synchronized, and all systems are verified before the unit's operating status is determined and
18 preparedness is confirmed. Unit load tests are performed at this time as well.

19 The winter readiness testing protocol includes the testing of appropriate Balance of Plant
20 components, as well as the black start diesels thus confirming their ability to black start the
21 Holyrood Thermal Generating Plant.

22

23 The current status of equipment/plant testing for Thermal Generation is indicated in Appendix
24 B of this Report. Consistent with the generation outage schedule shown in Appendix D, it is
25 expected that all winter readiness testing will be completed by December 1, 2017.

1 **4.2 Hydraulic Generation**

2 Winter readiness testing of generating equipment and balance of plant in Hydraulic
3 Generation is completed using the same process as for Thermal Generation as described in
4 section 4.1 above.

5
6 The current status of equipment/plant testing for Hydraulic Generation is indicated in
7 Appendix C of this Report. Consistent with the generation outage schedule shown in
8 Appendix D, it is expected that all winter readiness testing will be completed by December 1,
9 2017.

10

11 **4.3 Transmission and Terminal Stations**

12 **4.3.1 Transmission**

13 Transmission lines are a set of conductors supported by structures that carry electrical power
14 from generation plants to terminal stations and link terminal stations together, which allows
15 for the distribution of electricity to customers. A transmission line consists of structures,
16 conductors, insulators, grounding system, and right-of-ways. On the island of Newfoundland,
17 Hydro maintains approximately 1,280 km of lattice steel structure transmission lines operating
18 at voltages of 138 and 230 kV. In addition, Hydro maintains approximately 2,230 km of wood
19 pole transmission lines operating at voltages of 69, 138 and 230 kV for a total combined line
20 length of 3,510 km with a right of way area of 10,290 hectares. Many of these assets date
21 back to the mid to late 1960's. A typical lattice steel structure can remain in service in excess
22 of 70 years and a typical treated pole can remain in service in excess of 60 years. Typically,
23 treated cross-arms and braces can remain in service in excess of 30 years.

24

25 The summary of the maintenance, refurbishment, and replacement criteria Hydro uses for its
26 transmission lines was included in the *Transmission and Terminal Station Asset Management*
27 *Execution Report*, submitted to the Board on April 11, 2017. It includes criteria for Wood Pole
28 and Steel Structure Line Management Programs, helicopter patrols, ground patrols, infrared
29 inspections, wood pole treatment, and right-of-way maintenance.

1 **4.3.2 Terminal Stations**

2 Terminal stations play a critical role in the transmission and distribution of electricity. Stations
3 act as transition points within the transmission system, and interface points with the lower
4 voltage distribution and generation systems. Hydro maintains assets in 57 terminal stations,
5 with some having assets dating back to the late 1960's. These stations contain electrical
6 equipment, such as transformers, circuit breakers, instrument transformers, disconnect
7 switches, arresters, and associated protection and control relays and equipment required to
8 protect, control, and operate Hydro's electrical system.

9
10 The maintenance, refurbishment and replacement criteria used by Hydro for Terminal Station
11 assets, named *Terminal Station Asset Management Overview*, was included in the *Terminal*
12 *Station Refurbishment and Modernization* project in Hydro's 2017 Capital Budget Application.

13
14 **4.3.3 Transmission and Terminal Station Testing**

15 As noted above, the AWP for both Transmission and Terminal Stations are predominantly
16 comprised of PMs and CMs, which inherently involve inspection and testing. Examples of
17 winter readiness activities that are included in the AWP work scopes include the following:

- 18 a) Transformer PMs and CMs;
- 19 b) Annual exercises on all high voltage circuit breakers;
- 20 c) Exercise of 230 kV circuit breakers from protection during PM inspections;
- 21 d) Infrared scans at all terminal stations;
- 22 e) Annual ultrasonic leak testing on all terminal station air systems; and
- 23 f) Annual helicopter patrol of transmission lines prior to the winter season.

24
25 AWP charts which include winter readiness activities are shown in section 2.4 of this report,
26 and it is expected that all activities will be completed by December 1, 2017.

1 **4.4 Gas Turbines – Holyrood, Hardwoods and Stephenville**

2 Examples of winter readiness activities that are included in the Annual Work Plan work scopes
3 and maintenance plans for the Hardwoods, Stephenville and Holyrood gas turbines include
4 the following:

- 5 a) PMs and CMs for major components and auxiliary systems;
- 6 b) Black start testing;
- 7 c) Monthly operational testing; and
- 8 d) Execution of capital upgrades and refurbishment.

9

10 Annual work plan charts which include winter readiness activities are shown in section 2.2 of
11 this report. Black start testing is planned to be completed on all gas turbine units during the
12 month of November. It is expected that all work related to winter readiness testing will be
13 completed by December 1, 2017.

1 **5.0 Generation Outage Schedule**

2 Hydro’s 2017 Master Generation Outage Schedule for the period September 1 to December
3 31, 2017 is attached to this Report as Appendix D. This Schedule shows one planned outage
4 that will occur beyond December 1, 2017. Other than the Exploits Generation outage
5 described below, it is expected that all generation assets will be fully available as of December
6 1, 2017.

7

8 The item below is a change to the Master Generation Outage Schedule that was submitted in
9 September’s report:

- 10 1. Exploits Generation (Grand Falls Unit 4): The condition assessment of Grand Falls Unit
11 4 generator has identified that a rewind is required, resulting in disassembly, in order
12 for it to operate safely. Contract negotiations for this work with the contractor took
13 longer than expected and the outage for this unit had to be rescheduled; however,
14 unit condition does not allow for delay beyond the 2017/2018 winter season. Until
15 this rewind is completed, 58MW (and not 63MW) of generation will be available from
16 Exploits.

1 **6.0 Critical Spares**

2 **6.1 Overview**

3 In 2014, Hydro completed extensive reviews of its critical spares requirements in all three
4 areas of its generation operations: hydraulic generation; thermal generation (Holyrood); and
5 the gas turbines in Hardwoods and Stephenville. These reviews included a detailed analysis of
6 asset criticality and spare parts in reference to several factors, including their impact on
7 generation reliability and replacement part availability. A second phase of spares analysis was
8 completed in 2017 for Hydro's hydraulic generation facilities and 569 additional items were
9 added to the critical spares list.

10

11 Hydro's evaluation of critical spares is an ongoing process where consideration is given to:
12 asset condition; level of criticality; parts availability/order lead time; and cost. In some cases,
13 a balanced consideration of these factors may result in a decision to not procure into
14 inventory where the risk to reliability is judged to be low and/or other measures are available
15 to mitigate against generation unavailability.

16

17 Included in this report is a full update on the status of Hydro's critical spares as of September
18 16, 2017, for the 2017/2018 winter season. This update includes a detailed listing of critical
19 spares requirements for each area of generation operations and the in-stock or on-order
20 status of each item.

21

22 **6.2 2017/2018 Winter Season**

23 Table 6.1 provides a high-level summary of the status of critical spares in all areas of
24 generation operations.

Table 6.1 Winter Readiness Scope in 2017 Capital Projects

| Operational Area | In Stock | On Order | Order Pending | Capital | Total |
|-------------------------|-----------------|-----------------|----------------------|----------------|--------------|
| Thermal Plant | 734 | 24 | 16 | 0 | 774 |
| Hydraulic Plant | 1,178 | 8 | 29 | 7 | 1,222 |
| Gas Turbines | 368 | 13 | 80 | 3 | 464 |
| Grand Totals | 2,280 | 45 | 125 | 10 | 2,460 |

1 Hydro's critical spares status leading into the 2017/2018 winter season is very strong. For the
2 Thermal Generation (Appendix E), Gas Turbines (Appendix F), and Hydro Generation
3 (Appendix G), a total of 2,460 critical spares have been identified by Hydro's three generation
4 operations areas. Of this total, 2,280 items are in stock (92.7%), 45 items are on order (1.8%),
5 10 items have been identified as capital spares (0.4%) and the remaining 125 items (5.1%) are
6 in various stages of the procurement process, including engineering specification preparation
7 to determine proper replacement parts for those items that can no longer be readily
8 purchased and having the purchase orders drafted so that items can be ordered.

9
10 Appendix E of this Report indicates the current status of the critical spares program at the
11 Holyrood Thermal Generating Station. For the Holyrood Thermal Generating Station, 94.8% of
12 the identified critical spares are in stock, 16 are on order (3.1%), and the remaining 16 items
13 (2.1%) are in a phase of the procurement process. Hydro's 2017/2018 critical spares plan for
14 Holyrood included the procurement of a stage 1 rectifying transformer, a capstan gearbox for
15 the marine terminal, and a clear well pump for the water treatment plant. These parts have
16 all been received and it is anticipated that the remaining items will be delivered by December
17 1, 2017.

18
19 The spares list for the Holyrood Gas Turbine is detailed in Appendix F and includes both
20 operational and critical spares. Greater than 72% of these spares are in stock (253), including
21 the high priority items. Of the remainder, 13 are on order (3.7%) and 80 (22.9%) are in the
22 procurement process, which continues to acquire these items. For the Hardwoods and
23 Stephenville gas turbines, 100% of the critical spares identified are in stock.

1 As noted above, a second phase of spares analysis was completed in 2017 for Hydro's
2 hydraulic generation facilities and 569 additional items were added to the critical spares list.
3 As listed in Appendix G, the hydraulic generation facilities currently have 96.5% of their
4 identified critical spare items in stock (1178). Of the remaining items, 29 are in the
5 procurement process (2.3%) and the other 8 have been ordered (0.7%). The other 0.5% is
6 made up spare items that will be utilized in capital projects.

1 **7.0 Forecasted Loads, Capacity and Reserves**

2 In Hydro's reply submission filed in response to the Phase I report by Liberty Consulting on
3 February 5, 2015, Hydro committed to provide the Board with a generation adequacy update
4 as of August in each year leading up to interconnection, and that this update would include
5 the following:

- 6 a) An updated P90 load forecast for the period up to one year beyond the then
7 anticipated interconnection date;
- 8 b) A summary of the previous winter's generation performance and an outlook of peak
9 available generating capacity for each year of the load forecast; and
- 10 c) A forecast of generation reserves in both percentage and total MW terms.

11

12 At the request of the Board, Hydro filed the *Near-term Generation Adequacy Report* on May
13 15, 2017. In addition to providing the material requested above, the generation adequacy
14 report included:

- 15 a) The updated P90 load forecast through winter 2021-22; one year beyond the
16 anticipated Muskrat Falls completion date;
- 17 b) An assessment and quantification of forecast peak uncertainty;
- 18 c) Five sensitivity demand forecasts to ensure a robust assessment of risk; and
- 19 d) A critical assessment of Hydro's thermal generating assets and their relative
20 importance to the Island Interconnected System, by evaluating a range of unit
21 availabilities, and the resultant expected unserved energy (EUE).

22

23 Table 7.1 indicates the IIS reserves in MW and percentage terms resulting from Hydro's
24 demand forecasts for the 2017/2018 winter season as provided in the May 2017 near-term
25 generation adequacy report.

Table 7.1 Forecasts of Peak Load, Capacity, and Reserve Margins

| Winter 2017/2018 | |
|--|-------|
| Expected Reference Case | |
| A: IIS Peak Load – P90 | 1,811 |
| B: Less Available Capacity Assistance (90 MW) | 1,721 |
| C: Capacity at Peak | 2,006 |
| Reserve Margin MW for P90 (C-B) | 285 |
| Reserve Margin (%) | 17% |
| High Demand Case ¹ | |
| A: IIS Peak Load – P90 | 1,831 |
| B: Less Available Capacity Assistance (90 MW) | 1,741 |
| C: Capacity at Peak | 2,006 |
| Reserve Margin MW for P90 (C-B) | 265 |
| Reserve Margin (%) | 15% |
| Note: 1. Reflects sensitivity load projections IV and V. | |

- 1 The capacity at peak of 2,006 MW indicated in Table 7.1 includes Holyrood maximum unit
2 ratings of 170 MW for units 1 and 2 and a rating of 150 MW for Unit 3 in accordance with
3 Hydro’s Operations Standard Instructions T-093. The capacity at peak also includes 7.6 MW of
4 generation provided by Vale which is down from 10.8 MW available for winter 2017/2018.
5
6 Hydro’s reserve forecasts assume a total of 90 MW of capacity assistance is available through
7 the 2017/2018 winter season, if needed, under the capacity assistance agreements Hydro has
8 in place with Corner Brook Pulp and Paper Limited, Praxair and Vale Newfoundland &
9 Labrador Limited.

1 **8.0 Risks and Risk Mitigation**

2 Hydro is confident that its readiness planning for the 2017/2018 winter season is well
3 advanced and will position the company to be ready in critical areas in terms of generation
4 and transmission availability by December 1, 2017, with risk assessments completed and
5 mitigation plans in place for items that will extend beyond the December 1, 2017 winter
6 readiness date.

7
8 Hydro's critical spares status leading into the 2017/2018 winter season is very strong. As is
9 outlined in Section 6 of this report, 92.7% of the overall critical spare items are currently on
10 hand and 1.8% is on order. Of the remaining, 5.1% are in various stages of the procurement
11 process and 0.4% is capital spares that are not used in operations.

12
13 Other identified risks that are actively being managed by Hydro are listed in the following
14 sections.

15 16 **8.1 Capital Projects**

17 As noted in Section 3 and Appendix A of this report, there are eight capital projects with
18 winter readiness scope items that are not expected to be completed by the winter readiness
19 target date of December 1, 2017. Each of these projects is listed below:

- 20 • Purchase Capital Spares (Hydraulic)
- 21 • Cat Arm Upgrade Work
- 22 • Upper Salmon – Refurbish Main Generator Breaker
- 23 • Procurement of 12MW of Diesel Generation - Holyrood
- 24 • Purchase Backup Diesel for Station Service - Grand Falls and Buchans
- 25 • Replacement Due to In-Service Failures - Terminal Stations
- 26 • Construct 230kV Transmission Line - Bay d'Espoir to Western Avalon (TL 267)
- 27 • Replace Air Conditioning Units - Hydro Place

1 The major reason for the delays is due to the long lead times for procurement of certain parts
2 and for one project, waiting for the availability of a boom truck has impacted the completion
3 date. Three of these projects are expected to be completed in 2017, but after the December
4 1 target date. The new 230kV Transmission Line from Bay d'Espoir to Western Avalon (TL267)
5 has been delayed due to an incident that occurred on June 19, 2017. Section 8.3 of this
6 report provides the full update on the new 230kV transmission line.

7
8 The remaining five projects will not be completed until 2018. In order to mitigate the risk for
9 the upcoming winter season, Hydro has increased its monitoring and inspection of the
10 impacted equipment. In many cases, the replacement parts have or will arrive during the
11 winter season and will be available for emergency installation in the event of equipment
12 failure. In several instances, temporary equipment is being utilized until the capital work can
13 be completed (e.g.: air conditioners and mobile diesel units) and in another case spare
14 components have been identified in other Hydro locations that can be used if failure occurs
15 during the winter season.

16
17 As outlined in Note 8 of Appendix A, it is worth noting that for the capital project
18 “Procurement of 12MW of Diesel Generation – Holyrood”, that was added to the list of
19 delayed projects in October 2017, Hydro is seeking approval from the Department of
20 Municipal Affairs and Environment for a variance to permit operation of the diesel units and if
21 this variance is not granted, then the 10 MW of power produced by these diesels will not be
22 available for this winter season. The winter readiness scope for this project is the installation
23 of larger exhaust stacks and a fuel reconciliation system for the diesel generators at Holyrood
24 that is required to meet environmental regulations.

25
26 Please reference the notes in Appendix A for individual risk mitigation plans for each of the
27 eight identified projects.

1 **8.2 Thermal Generation**

2 In 2017, Hydro has worked with the boiler contractor to eliminate the de-ratings of Holyrood
3 Unit 1 and Unit 2 that were caused by air flow issues. The boilers have been extensively
4 cleaned throughout, with a focus on the economizer sections, which is where most of the
5 fouling has taken place and where the ash is most difficult to remove. A specialty company
6 was hired to perform a dry-ice cleaning of both unit economizers. Thousands of pounds of ash
7 were removed from each economizer, but some ash could not be removed due to hardness
8 and difficult access, even after additional washing using a combination of high volume flushing
9 and high pressure jetting. An upgrade of the air heaters in both units was completed that will
10 reduce air leakage and fouling and also improve air flow. Hydro expects that the units will be
11 capable of achieving full or close to full load when load tested in the fall.

12

13 **8.3 Transmission Line TL267**

14 The new TL267 transmission line is 230 kV transmission line between the Bay d'Espoir
15 Hydroelectric Generation Station and the Western Avalon Terminal Station at Chapel Arm.
16 TL267 will increase Hydro's capability to deliver power to the major load centre on the Avalon
17 Peninsula and will ensure the continued stability and reliability of the Island Interconnected
18 System, particularly during faulting events.

19

20 All construction activities were halted on TL267 line following an incident that occurred on
21 June 19, 2017. The stop work order that had been issued to Hydro's contractor by
22 Occupational Health and Safety has been lifted and all construction activities have resumed.
23 All foundation installation and anchor installation work has been completed. Helicopter
24 erection of tangent towers has also been completed and stringing operations are progressing
25 on multiple fronts.

1 Work in the Bay d’Espoir Terminal Station is tracking ahead of schedule.¹ Commissioning of
2 the terminal station electrical equipment is complete and has been energized. Commissioning
3 of telecontrol and communications equipment at the Bay d’Espoir Terminal Station is ongoing.

4
5 Work in the Western Avalon Terminal Station is tracking on schedule for completion at the
6 end of October. The protection and control cabinets are now complete and commissioning is
7 also complete, with the exception of energization and in-service testing. Commissioning of
8 telecontrol and communications equipment at the Western Avalon Terminal Station is
9 ongoing.

10
11 Hydro remains committed to ensuring that work is completed in a timely manner, while
12 ensuring contractor and public safety. The project plan has been finalized and projects an in-
13 service date of December 8, 2017.

14 15 **8.4 Gas Turbines**

16 Two of the four engines installed between Hardwoods and Stephenville are currently
17 undergoing refurbishment. The first, engine (serial number 202224) developed an oil leak
18 within the engine while in service during winter 2016/2017 and the second engine (serial
19 number 202205) has had a combustion can failure, as determined during a recent planned
20 borescope inspection. Two loaner engines are currently installed; one in Hardwoods and one
21 and Stephenville.

22
23 In Hardwoods, a full size (25 MW) loaner engine is installed and the unit capacity has been
24 returned to 50 MW. In Stephenville, the B-rated (19 MW) loaner is installed, giving the unit an
25 installed capacity of 38 MW, with current availability of 25MW due to an exhaust stack

¹ As per Board Order No. P.U. 53(2014), the initial planned energization date of May 1, 2018, was targeted for the construction of TL267. The schedule energization date was accelerated to October 31, 2017, to help improve system reliability and alleviate system constraints relating to power flow to the Avalon Peninsula.

1 cracking issue on End A, where the loaner engine is installed. Repair of the exhaust stack is
2 planned, with an estimated return to service prior to December 1.

3
4 Engine 202224, which was removed from Hardwoods due to an oil leak has been returned to
5 the repair shop and has undergone detailed inspection and repair, is now expected to be
6 returned to service in mid to late November. Additional repairs were required on completion
7 of the detailed inspection. As a result, the schedule for return to service has been delayed.

8 The performance test date for this engine is now set at November 1. The engine will then be
9 prepared for shipping and shipped to site. Engine 202205 has been shipped to the repair shop
10 for detailed inspection and combustion can replacement. An expected return to service date
11 will be determined once the engine has been fully inspected and the scope of repair is
12 developed.

13
14 Although there are issues with the gas turbine engines, Hydro expects that both the
15 Hardwoods and Stephenville gas turbines will be at full capacity by December 1, 2017. At this
16 time, it is expected that at least one and more than likely two, spare engines will remain on
17 hand at the start of the winter operating period.

18
19 Currently, the AWP completion for all gas turbines is behind schedule, as a result of delays in
20 planned outages due to increased availability requirements in support of the power system.
21 While it is still expected that the winter readiness activities within the AWP will be completed
22 prior to the December 1, 2017 winter readiness date, this may be impacted by changes in
23 operational requirements, as the outages planned have been moved into the later part of the
24 maintenance period.

1 **9.0 Conclusion**

2 The results of Hydro's review of the year-to-date completion status of its annual work plan for
3 its island interconnected system assets indicate that its winter readiness milestone for critical
4 critical areas in terms of generation and transmission availability will be achieved by
5 December 1, 2017. Risk assessments have been completed and mitigation plans developed
6 and put in place for items that will extend beyond the December 1, 2017 winter readiness
7 date. Hydro will continue to track all required winter readiness activities, manage identified
8 risks, and keep the Board informed on current and any additional risks that may arise and
9 impact the winter readiness date.

Appendix A

Status of 2017 Capital Projects Related to Winter Readiness

APPENDIX A:
Status Of 2017 Capital Projects Related To Winter Readiness
On The Island Interconnected System

| Asset Category | Project Description | Expected Completion (2017 Winter Readiness Scope) | |
|-----------------|---|---|----------------------|
| | | September 15 Update | October 20 Update |
| Hydraulic Plant | Unit 3 Turbine Major Overhaul - Bay d'Espoir | Complete | Complete |
| Hydraulic Plant | Refurbishment of Penstock 2 - Bay d'Espoir | Complete | Complete |
| Hydraulic Plant | Replace Generator Bearing Coolers - Upper Salmon | Complete | Complete |
| Hydraulic Plant | Overhaul Turbine Generators - Cat Arm | 6-Oct-17 | Complete |
| Hydraulic Plant | Replace Station Service Breakers - Cat Arm | 20-Oct-17 | Complete |
| Hydraulic Plant | Replace Powerhouse 1 Station Service Transformer - Bay d'Espoir | 4-Oct-17 | 3-Nov-17 |
| Hydraulic Plant | Purchase Capital Spares - Hydraulic | 15-May-18 Note 1 | 15-May-18 Note 1A |
| Hydraulic Plant | Upgrade Work - Cat Arm | 2018 Note 2 | 2018 Note 2A |
| Hydraulic Plant | Refurbish Main Generator Breaker - Upper Salmon | 2018 Note 3 | 2018 |
| | | | |
| Thermal Plant | Overhaul Pumps - Holyrood | Complete | Complete |
| Thermal Plant | Purchase Capital Spares - Holyrood | Complete | Complete |
| Thermal Plant | Upgrade Underground Plant Drainage System - Holyrood | Complete | Complete |
| Thermal Plant | Emergency Repairs to Northeast Corner of Unit 2 Boiler - Holyrood | Complete | Complete |
| Thermal Plant | Overhaul Turbine Valves Unit 2 - Holyrood | 6-Oct-17 | Complete |
| Thermal Plant | Reliability Improvement - Holyrood | 6-Oct-17 | Complete |
| Thermal Plant | Condition Assessment and Miscellaneous Upgrades - Holyrood | 6-Oct-17 | Complete |
| Thermal Plant | Replace Exciter Controls Units 1 and 2 - Holyrood | 25-Oct-17 | 27-Oct-17 |
| Thermal Plant | Procurement of 12MW of Diesel Generation - Holyrood | 1-Dec-17 | 2018 Note 8 |
| | | | |

| Asset Category | Project Description | Expected Completion (2017 Winter Readiness Scope) | |
|-------------------|--|---|----------------------|
| | | September 15 Update | October 20 Update |
| Gas Turbines | Gas Generator Engine Refurbishments - Stephenville and Hardwoods | Complete | Complete |
| Gas Turbines | Purchase Capital Spares - Gas Turbines | 30-Sep-17 | 30-Nov-17 |
| Gas Turbines | Gas Turbine Life Extension - Stephenville | 5-Nov-17 | 5-Nov-17 |
| Gas Turbines | Replace Fuel Piping - Stephenville and Hardwoods | 19-Nov-17 | 19-Nov-17 |
| Gas Turbines | Gas Turbine Life Extension - Hardwoods | 19-Nov-17 | 19-Nov-17 |
| | | | |
| Diesel Generation | Replace Fuel Tank - St. Anthony | Complete | Complete |
| | | | |
| Terminal Stations | Purchase Capital Spares - Terminal Stations | 1-Dec-17 | 1-Dec-17 |
| Terminal Stations | Purchase Backup Diesel for Station Service - Grand Falls and Buchans | 15-Dec-17 Note 4 | 15-Dec-17 |
| Terminal Stations | Replacement Due to In-Service Failures - Terminal Stations | 12-Jan-18 Note 5 | 12-Jan-18 Note 5A |
| | | | |
| Transmission | Rerouting of Transmission Line and Distribution Line - Sally's Cove | Complete | Complete |
| Transmission | Structures Replacement and Restoration - TL 212 and TL 201 | Complete | Complete |
| Transmission | Perform Wood Pole Line Management Program | 1-Dec-17 | 1-Dec-17 |
| Transmission | Construct 230kV Transmission Line - Bay d'Espoir to Western Avalon | 08-Dec-17 Note 6 | 08-Dec-17 Note 6A |
| | | | |
| Other | Replace Uninterruptable Power Supply Systems - Hydro Place | Complete | Complete |
| Other | Replace Air Conditioning Units - Hydro Place | 15-Dec-17 Note 7 | 15-Dec-17 |

Notes Description:

| Note # | Explanation |
|--------|--|
| 1 | <p>The 2017 winter readiness scope of this project includes the procurement of the following capital spare components: (1) high pressure compressor for all hydraulic plants; (2) Hinds Lake generator bearing cooler set; (3) Bay d'Espoir Unit 7 excitation transformer; (4) Hinds Lake excitation transformer; and (5) Hinds Lake exciter slip rings. All components have been ordered and the first two components are expected to be delivered in advance of December 1, 2017. The Bay d'Espoir and Hinds Lake excitation transformers are expected to be delivered on December 15, 2017. In July, Hydro, to mitigate risk, performed oil analysis on the Unit 7 excitation transformer with good results. The Hinds Lake transformer will be inspected during a planned outage in November. The Hinds Lake slip rings have been ordered and are expected to be received on May 15, 2018. While awaiting the new spares, Hydro has mitigated the risk by completing a condition assessment of the installed slip rings, which shows that replacement prior to this winter is not required. The exciter brushes were inspected and changed on the Hinds Lake unit in September and the ring at that time was found to be in good condition.</p> |
| 1A | <p>The delivery of the spare generator bearing cooler set has been delayed due to fabrication issues at the factory. The cooler set is now scheduled to ship from the factory in Quebec by November 30, 2017, with expected delivery to Hinds Lake by December 15, 2017.</p> |
| 2 | <p>The 2017 winter readiness scope of this project includes the replacement of the hydraulic control valves and piping, and upgrade of the control panel for the spherical valve control system at the Cat Arm Generating Station, Units 1 and 2. The completion of these upgrades has been delayed until 2018 because of material delivery issues for key components. Despite efforts to expedite orders and find alternative design solutions, key materials including automated and manual valves were not available for the scheduled plant outage on September 18, 2017. Prior to commencing the work, a risk-based decision was made to delay the work until 2018, rather than start the work and potentially incur an extended outage. An extended outage would impact critical work at other locations on the system. A plant outage will be scheduled after the 2017-2018 winter season. The risk through the winter and associated mitigation measures are currently being assessed.</p> <p>The 2017 winter readiness scope of this project also includes the replacement of the deflector servomotors on Units 1 and 2 at the Cat Arm Generating Station. The completion of this work is delayed to 2018 due to design and delivery issues with the replacement servomotors. Hydro is working with the manufacturer to resolve the issues and is also exploring other supply options. The original servo motor was rebuilt with new seals installed prior to being put back into service in 2016 and will be assessed during the Cat Arm Plant Outage. A risk mitigation plan will be determined based on the results of that assessment.</p> |
| 2A | <p>With respect to the spherical valve control system, a risk review was completed and a risk mitigation plan was established. Risk mitigation includes: (1) an engineering review to determine if the system's drainage piping can be extended to another location, to reduce the risk of spherical valve pit flooding; and (2) opportunistic function testing of the system if and when a generating unit is shut down prior to and during the winter period.</p> |

| Note # | Explanation |
|--------|--|
| | With respect to the deflector servomotors, preventative maintenance was conducted on the servomotors for both units during recent planned outages. Based on previous operating experience, the servomotors are expected to operate satisfactorily through the winter. |
| 3 | The 2017 winter readiness scope of this project is to refurbish the main generator air blast breaker at Upper Salmon plant. Due to the long lead times for procurement of parts, the outage required to carry out this work was originally scheduled for October 9, 2017, but was subsequently advanced to August 7, 2017, to accommodate other system outage priorities. The eight week advancement of the outage meant that the required parts for the refurbishment were not available at the new timing of the outage. The replacement parts are expected to be received September 27, 2017, and construction will be rescheduled into 2018. If there is an in-service breaker failure during this coming winter, the parts will be available for emergency installation (Post report update: It has been confirmed that the replacement parts were received on September 27, 2017). |
| 4 | The 2017 winter readiness scope of this project is to purchase a mobile diesel generating unit as a back-up in case of failure of the station service at Grand Falls or Buchans Terminal Stations. The order has been placed and the expected delivery is December 15, 2017. Should a failure of the terminal station service occur prior to this, Hydro has battery and charger systems that will keep the stations operational for 8 to 12 hours. Once this time has passed the requirement for additional generation is necessary. As a mitigation until delivery of the new mobile generating unit, Hydro currently has a spare 225kVA mobile diesel unit ready for deployment. Should the 225 kVA not be available at the time of an outage, rental of a 100 kVA unit would be procured locally on the Island. |
| 5 | The 2017 winter readiness scope of this project includes the procurement of the following stand-by equipment: (1) one 230kV circuit breaker; (2) one 138kV circuit breaker; and (3) one 69kV circuit breaker for the stand-by pool. These breakers have been ordered with an expected delivery date of January 12, 2018. Hydro has access to other spare breakers for each of the three voltage classes should a failure occur. The 2017 winter readiness scope also includes the replacement of a number of components that have failed in 2017. To date, 30 transformer monitoring gauges, one surge arrestor, and one circuit breaker failed in service and replacement is complete. A station service transformer in Sally's Cove failed and a transformer was moved over from St. Anthony to restore Sally's Cove. St. Anthony was placed on back-up and a replacement transformer was ordered with expected delivery and installation by October 6, 2017. A breaker in Sunnyside Terminal Station failed and a replacement is expected to be in service on October 12, 2017. |
| 5A | The failed breaker in Sunnyside Terminal Station has been replaced and was placed in-service on October 12, 2017. The replacement transformer for St. Anthony was received and initially scheduled to be installed on October 6, 2017. Installation was delayed until a boom truck of the required size to operate within the confines of the worksite could be secured. A boom truck has been booked and the new scheduled installation date is October 25, 2017. Since the last report, a surge arrestor in Stony Brook failed; this was replaced and has been released back into service. |

| Note # | Explanation |
|--------|--|
| 6 | <p>The 2017 winter readiness scope of this project is to construct, energize, and place in service the new transmission line from Bay d’Espoir to Western Avalon (TL267). The in-service date has been delayed due to a serious incident that occurred on June 19, 2017, resulting in the fatality of two contractor employees. Immediately following the incident, work was suspended whilst an investigation was conducted. A phased return to work approach was adopted and Hydro remains committed to ensuring work is completed in a timely manner while ensuring contractor and public safety, and continues to work with the contractor to finalize the project plan. However, as the contractor remains subject to a stop work order for certain tasks associated with guy supported tangent towers, the detailed project plan update is not able to be finalized at this time. Hydro and the contractor are working closely with Occupational Health and Safety toward releasing the stop work order and progress is being made in this regard. In anticipation of the release of the stop work order, Hydro is currently targeting a December 8, 2017, as the in-service date.</p> |
| 6A | <p>The detailed project plan update has been finalized and confirms the expected in-service date of December 8, 2017.</p> |
| 7 | <p>The 2017 winter readiness scope of this project is to replace air conditioners in the Energy Control Centre Computer Room. The contract for this work has been awarded and long lead-time equipment is expected to be delivered in November 2017. During construction in late November and early December, temporary additional air conditioning will be installed to mitigate the risk to computer equipment. The work is expected to be completed by December 15, 2017.</p> |
| 8 | <p>The winter readiness scope for this project is the installation of larger exhaust stacks and a fuel reconciliation system for the diesel generators at Holyrood, to enable the units to be utilized for power generation on the Island Interconnected System (IIS). This work is required to meet environmental regulations. The fuel reconciliation system is expected to be in service by 01-Dec-17. The exhaust stacks will not be available for installation until January 2018, due to late delivery by the manufacturer. Hydro is seeking approval from the Department of Municipal Affairs and Environment for a variance to permit operation of the diesel units, without the larger exhaust stacks, when required for IIS reliability. If this variance is not granted, then the 10 MW of power produced by these diesels will not be available for this winter season.</p> |

Appendix B

Status of Winter Readiness Testing of Plant and Equipment
Holyrood Thermal Generating Station
As of October 20, 2017



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Plant: Holyrood Operations

| | | | | |
|---|-----|-----|-----|-----|
| Following Annual outages, Unit is run up, Synchronized and all Systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time. | S/U | S/U | ✓ | N/A |
| Black Start Test of the black start systems is performed prior to the Winter Operating Season. | N/A | N/A | N/A | ✓ |
| Perform Megger testing of 600 volt motors prior to the Winter Operating Season. | ✓ | S/U | ✓ | N/A |

Safety:

| | | | | |
|--|---|-----|---|-----|
| Boiler Service Pressure Test performed as required by Regulator. | ✓ | ✓ | ✓ | N/A |
| Safety Valves testing as required (Post Start-Up). | ✓ | S/U | ✓ | N/A |
| Boiler Operational Off-Line High / Low Drum Level Trip Tests. | ✓ | S/U | ✓ | N/A |
| H2 Emergency Venting Valving. | ✓ | S/U | ✓ | N/A |
| Breaker & Disconnect Operation verified by Ops. Dept. & Whitbourne Crew. | ✓ | S/U | ✓ | N/A |

Service Air and Instrument Air Systems:

| | | | | |
|--|-----|-----|-----|---|
| All Stationary Air Compressors available. | N/A | N/A | N/A | ✓ |
| All Portable Air Compressors available. | N/A | N/A | N/A | ✓ |
| Air Compressor operational checks performed (e.g. oil levels, cooling water, etc.) | N/A | N/A | N/A | ✓ |
| Air Compressor STBY / Sequencing capability. | N/A | N/A | N/A | ✓ |

Raw and Makeup Water System:

| | | | | |
|---|-----|-----|-----|---|
| Quarry Brook Dam Integrity. | N/A | N/A | N/A | ✓ |
| Raw Water Sump Water Supply Control Valve operational. | N/A | N/A | N/A | ✓ |
| Raw Water Pumps operational. | N/A | N/A | N/A | ✓ |
| Adequate supply of Chemicals (1172, 1179, Polymer, etc.). | N/A | N/A | N/A | ✓ |
| 1172, 1179, Polymer Injection Pumping Sets, Pumps, valves, lines, agitators, etc. operational. | N/A | N/A | N/A | ✓ |
| Portable Diesel Pump check of Emergency Plant Water Supply from Quarry Brook Dam. | N/A | N/A | N/A | ✓ |
| Adequate & Readily available supply of Hoses for the Portable Diesel Pump from Quarry Brook Dam to Plant. | N/A | N/A | N/A | ✓ |

Raw and Makeup Water System & Water Treatment Plant:

| | | | | |
|---|-----|-----|-----|---|
| Instrumentation & Controls operational. | N/A | N/A | N/A | ✓ |
| Analytical Rack Sample Cooler Filters cleaned/replaced as required. | N/A | N/A | N/A | ✓ |
| Analytical Rack Sample Coolers cooling water in service. | N/A | N/A | N/A | ✓ |
| Two (2) Sample cooling water pumps availability. | N/A | N/A | N/A | ✓ |

Clarifier:

| | | | | |
|---|-----|-----|-----|---|
| Clarifier Recirculator, VFD Motor, VFD Controller. | N/A | N/A | N/A | ✓ |
| Clarifier Recirculator Scraper. | N/A | N/A | N/A | ✓ |
| Clarifier Badger Meter and Clearwell Instrumentation. | N/A | N/A | N/A | ✓ |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Sand Filters:

| | | | | |
|--|-----|-----|-----|---|
| Sand Filters (#s 1, 2 & 3) Resin integrity. | N/A | N/A | N/A | ✓ |
| Sand Filters (#s 1, 2 & 3) Valve Operation (Normal & Backwashing, etc.). | N/A | N/A | N/A | ✓ |
| Two (2) Clearwell Pumps available. | N/A | N/A | N/A | ✓ |

Dem Mineralization System:

| | | | | |
|---|-----|-----|-----|---|
| Cation & Anion Trains (A, B & C) Resin integrity. | N/A | N/A | N/A | ✓ |
| Adequate supply of Chemicals (Caustic Soda, Sulphuric Acid, 1172, 1179, Polymer, etc.). | N/A | N/A | N/A | ✓ |
| Sulphuric Acid & Caustic Soda Transfer Pumps, valves, lines, etc. | N/A | N/A | N/A | ✓ |
| Sulphuric Acid & Caustic Soda Regeneration Sets, Pumps, valves, lines, etc. | N/A | N/A | N/A | ✓ |
| Caustic Injection Pumping Sets, Pumps, valves, lines, agitators, etc. | N/A | N/A | N/A | ✓ |
| Brine Injection Pumping Sets, Pumps, valves, lines, agitators, etc. | N/A | N/A | N/A | ✓ |

Reserve Feedwater System, 'RFW':

| | | | | |
|---|---|---|---|-----|
| RFW Transfer Pump Oil Normal Operating Level. | ✓ | ✓ | ✓ | N/A |
| RFW Transfer Pumps operational. | ✓ | ✓ | ✓ | N/A |

Circulating Water 'CW' and Screen Wash System:

| | | | | |
|--|---|-----|---|-----|
| Vacuum Seal Pits operational. | ✓ | ✓ | ✓ | N/A |
| All CW Travelling Screens Operational. | ✓ | ✓ | ✓ | N/A |
| CW Pump Motorized discharge valves 'Manual' & 'Auto', 'Cracked' Position operation verified. | ✓ | S/U | ✓ | N/A |
| CW Pump Motors Oil Normal Operating Level, | ✓ | S/U | ✓ | N/A |
| CW Pumps operational. | ✓ | S/U | ✓ | N/A |
| CW Pump Discharge Vacuum Breakers operational. | ✓ | S/U | ✓ | N/A |
| CW Travelling Screens Wash Pumps operational. | ✓ | S/U | ✓ | N/A |
| Condenser Flushed. | ✓ | S/U | ✓ | N/A |
| Condenser Backwashed. | ✓ | S/U | ✓ | N/A |
| General Service 'GS' Coolers Backwashed, cleaned, etc. | ✓ | S/U | ✓ | N/A |
| Turbine / Generator 'TG' Coolers Backwashed, cleaned, etc. | ✓ | S/U | ✓ | N/A |
| Vacuum Pump Coolers Backwashed, cleaned, etc. | ✓ | S/U | ✓ | N/A |

Boiler:

| | | | | |
|---|---|---|---|-----|
| Pre-Outage Valve Survey conducted of Boiler Drains. | ✓ | ✓ | ✓ | N/A |
| Service pressure test on boiler for tube leaks. | ✓ | ✓ | ✓ | N/A |

Condenser Air Extraction System:

| | | | | |
|---|---|-----|---|-----|
| Vacuum Pumps available & tested for STBY 'Auto-Start'. | ✓ | S/U | ✓ | N/A |
| Vacuum Pump Seal Water Tank water level controller operational. | ✓ | S/U | ✓ | N/A |
| Vacuum Pump Seal Water Pump operational. | ✓ | S/U | ✓ | N/A |
| Condenser Vacuum Breakers operational. | ✓ | S/U | ✓ | N/A |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

High Pressure 'HP' Feedwater System:**Boiler Feed Pumps:**

| | | | | |
|---|---|-----|---|-----|
| Boiler Feed Pumps available. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Oil Tank Normal Operating Level and checked for moisture content. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Auxiliary Oil Pumps available. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Suction Valves & Limit Switches. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Emergency Gland Seal Injection Pump available. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Emergency Gland Seal Pump Oil Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water available from the Emergency Pump and Condensate Extraction Pumps. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water Control Valve operational. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water Drains Tank Level Float Operated Valve operational (Units 1 & 2). | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water Transfer Pumps operational (Units 1 & 2). | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water Drains Tank Level Control Valve operational (Unit 3). | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Gland Seal Water Transfer Pumps operational (Unit 3). | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Recirculation Control Valves operational. | ✓ | S/U | ✓ | N/A |
| Boiler Feed Pump Motorized Discharge Pilot & Main Valves operational. | ✓ | S/U | ✓ | N/A |
| Low Load Feedwater Isolator & Control Valves operational. | ✓ | S/U | ✓ | N/A |
| Main Feedwater Isolator & Control Valves operational. | ✓ | S/U | ✓ | N/A |
| High Pressure Heater Motorized Valves (Inlet, Outlet & Bypass) checked for proper operation, sequencing, etc. | ✓ | S/U | ✓ | N/A |

Miscellaneous:

| | | | | |
|---|---|-----|---|-----|
| Economizer 'Manual' Operated Valve operational. | ✓ | S/U | ✓ | N/A |
| Economizer Motorized Recirculation Valve operational (Unit 3). | ✓ | S/U | ✓ | N/A |
| Boiler Drum Level Instrumentation operational. | ✓ | S/U | ✓ | N/A |
| HP Heater Bled Steam Check Valves operational. | ✓ | S/U | ✓ | N/A |
| Start-up Desuperheater Steam & Water valving operation / position verified. | ✓ | S/U | ✓ | N/A |
| Main Steam & Reheat Steam Desuperheater Spray Water Isolators & Control Valves operational. | ✓ | S/U | ✓ | N/A |
| Auxiliary Steam Desuperheater Spray Water Control Valve operational. | ✓ | S/U | ✓ | N/A |

Low Pressure 'LP' Feedwater System:**Condenser:**

| | | | | |
|---|---|-----|---|-----|
| Condenser Hotwell Make-Up / Surplus Control Valves operation verified. | ✓ | S/U | ✓ | N/A |
| Condenser Hotwell Make-Up Motorized Isolating Valve operation verified. | ✓ | S/U | ✓ | N/A |
| Condenser Dye test for leaks, as required. | ✓ | ✓ | ✓ | N/A |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Ammonia & Control System:

| | | | | |
|--------------------------------------|-----|-----|-----|---|
| Adequate Supply in place. | N/A | N/A | N/A | ✓ |
| Pumps operational. | N/A | N/A | N/A | ✓ |
| Control Instrumentation operational. | N/A | N/A | N/A | ✓ |

Condensate Extraction Pumps:

| | | | | |
|---|---|-----|---|-----|
| Condensate Extraction Pumps available. | ✓ | S/U | ✓ | N/A |
| Condensate Extraction Pump Motors Bearing Oil Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| Condensate Extraction Pump Motor Cooling Water available (Unit 3). | ✓ | S/U | ✓ | N/A |

Condensate Polishers:

| | | | | |
|---|---|-----|---|-----|
| Resin integrity verified. | ✓ | S/U | ✓ | N/A |
| Two (2) Polishers Rinsed and available. | ✓ | S/U | ✓ | N/A |
| Valve Operation (Normal & Regenerating, etc.). | ✓ | S/U | ✓ | N/A |
| Regeneration System Skids available (valving, pumps, blowers, tanks. Etc.). | ✓ | S/U | ✓ | N/A |
| Condensate Polisher Bypass Control Valve operational. | ✓ | S/U | ✓ | N/A |

Low Pressure Heaters:

| | | | | |
|---|---|-----|---|-----|
| Low Load Recirculation Control Valve operation. | ✓ | S/U | ✓ | N/A |
|---|---|-----|---|-----|

Deaerator:

| | | | | |
|--------------------------------------|---|-----|---|-----|
| Deaerator Normal Operating Level | ✓ | S/U | ✓ | N/A |
| Deaerator Steam Coil operational. | ✓ | S/U | ✓ | N/A |
| Deaerator Pegging Steam operational. | ✓ | S/U | ✓ | N/A |
| Deaerator Low Level Trip Test | ✓ | S/U | ✓ | N/A |

Miscellaneous:

| | | | | |
|---|---|-----|---|-----|
| Condenser Flash Tank Control Valve operation / position. | ✓ | S/U | ✓ | N/A |
| Turbine Low Pressure Exhaust Hood Spray Motorized Valve operation. | ✓ | S/U | ✓ | N/A |
| Start-up Desuperheater Steam & Water valving operational (Units 1 & 2). | ✓ | S/U | ✓ | N/A |
| LP Heater Bled Steam Check Valves operational. | ✓ | S/U | ✓ | N/A |

Bled Steam and Heater Drains System:

| | | | | |
|--|---|-----|---|-----|
| LP and HP Instrumentation and Control operational. | ✓ | S/U | ✓ | N/A |
| LP and HP Heater Level Control operational. | ✓ | S/U | ✓ | N/A |
| Low Pressure 'LP' Heater Condensate Drains Pumps operational. | ✓ | S/U | ✓ | N/A |
| #4 High Pressure 'HP' Heater Condensate Drains Pump operational. | ✓ | S/U | ✓ | N/A |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Air and Flue Gas System:

| | | | | |
|--|---|-----|---|-----|
| Instrumentation and Control operational. | ✓ | S/U | ✓ | N/A |
|--|---|-----|---|-----|

Forced Draft 'FD' Fans and Air Dampers:

| | | | | |
|---|-----|-----|-----|-----|
| Two (2) FD Fans available. | ✓ | S/U | ✓ | N/A |
| Bearing Oil Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| Cooling Water on to Fans. | ✓ | S/U | ✓ | N/A |
| Stroke Variable Inlet Vanes, 'VIVs'. | ✓ | S/U | ✓ | N/A |
| Stroke Discharge Dampers. | ✓ | S/U | ✓ | N/A |
| FD Fan Motor Variable Speed Drives operational. | ✓ | S/U | ✓ | N/A |
| All Burner Auxiliary Air Dampers/Positioners operation (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| All Elevation Air Flow Dampers/ Positioners operation (Unit 3). | N/A | N/A | ✓ | N/A |

Rotary Air Heaters:

| | | | | |
|---|---|-----|---|-----|
| Rotary Air Heaters operational. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Bearing Oil (Top & Bottom) Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Bearing Cooling Water On. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Electric Motor Drives operational. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Start-up of Air Motor Drive upon loss of AC Power Supply to the normal operating Electric Drive Motor. | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Steam Supply Control Valves operational. (*Note: Two Steam Supplies on (Units 1 & 2)). | ✓ | S/U | ✓ | N/A |
| Rotary Air Heaters Sootblowers operational. | ✓ | S/U | ✓ | N/A |

Boiler Sootblowing System:

| | | | | |
|--|---|-----|---|-----|
| Sootblower Control Panel operational. | ✓ | S/U | ✓ | N/A |
| Sootblowers Steam Supply Control Valve operational. | ✓ | S/U | ✓ | N/A |
| Sootblowers Overhauled during Annual Outage Verify operation (e.g. Rotation, Travel Advancing/Retracting from Furnace, leaks, etc.) first time Unit is placed on Line. | ✓ | S/U | ✓ | N/A |

Light Fuel Oil System:

| | | | | |
|--|-----|-----|-----|-----|
| Hydro Pad operational. | N/A | N/A | N/A | N/A |
| Light Oil Pumps available. | ✓ | S/U | ✓ | N/A |
| Pumps, Valves (including Control & Trip), lines, strainers, pressure (locally & UCB). | ✓ | S/U | ✓ | N/A |
| Check Light Oil Supply & Return Lines to / from Plant respectively. | N/A | N/A | N/A | ✓ |
| Suction Strainers cleaned with covers secured. | ✓ | S/U | ✓ | N/A |
| Ignitors cleaned, securely in place with associated lines securely fastened. | ✓ | S/U | ✓ | N/A |
| Ignitors all checked for operation during Unit Start-up (e.g. Ignitor Control Box, Valve Operation, Lighting, etc.). | ✓ | S/U | ✓ | N/A |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Fuel Oil Delivery System, Auxiliary Steam & Fuel Oil Piping System:

| | | | | |
|---|-----|-----|-----|---|
| Adequate Heavy Oil Storage. | N/A | N/A | N/A | ✓ |
| Heavy Oil Piping from Dock to Tankfarm, Tankfarm to Plant Day Tank and Day Tank to Heavy Oil Sets. | N/A | N/A | N/A | ✓ |
| Adequate Light Oil Storage. | N/A | N/A | N/A | ✓ |
| Light Oil Piping from Road Tanker Transfer Pump to Tanks and from Tanks to Light Oil Sets in Plant. | N/A | N/A | N/A | ✓ |
| All Storage Tanks Suction Heaters available when required. | N/A | N/A | N/A | ✓ |
| All Storage Tanks Flatform Heaters available when required. | N/A | N/A | N/A | ✓ |
| Auxiliary Steam for Suction Heaters available. | N/A | N/A | N/A | ✓ |
| Auxiliary Steam for Flatform Heaters available. | N/A | N/A | N/A | ✓ |
| Auxiliary Steam for Heat Tracing available. | N/A | N/A | N/A | ✓ |
| Electrical Heat Tracing for Fuel Oil Lines available. | N/A | N/A | N/A | ✓ |
| Day Tank Supply Line Trip Valve Tested. | N/A | N/A | N/A | ✓ |
| Day Tank available to receive oil. | N/A | N/A | N/A | ✓ |
| Day Tank steam coil available. | N/A | N/A | N/A | ✓ |

Fuel (Heavy) Oil System:

| | | | | |
|---|---|-----|---|-----|
| Fuel Oil Heating Sets: | ✓ | S/U | ✓ | N/A |
| Fuel Oil Heaters available. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Heaters cleaned and inspected. | ✓ | S/U | ✓ | N/A |
| Steam Supply to Heavy Oil Set Heaters available as required. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Heaters Temperature Steam Control Valve operational. | ✓ | S/U | ✓ | N/A |
| Suction Strainers cleaned (including standby & extras) with covers secured. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Accumulator operational. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Pumps available. | ✓ | S/U | ✓ | N/A |
| Pumps 'Auto-Start' check Off-Line. | ✓ | S/U | ✓ | N/A |
| Header Pressure Control Valve operational. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Meter operational. | ✓ | S/U | ✓ | N/A |

Fuel Oil Supply Control, Trip, Long & Short Recirculation Valves:

| | | | | |
|--|-----|-----|-----|-----|
| Fuel Oil Supply Control Valve operational. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Trip Valve operational. | ✓ | S/U | ✓ | N/A |
| Fuel Oil Long Recirculation Valve operational (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| Fuel Oil Short Recirculation Valve operational (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| Elevation Fuel Oil Trip Valves operational (Unit 3). | N/A | N/A | ✓ | N/A |
| Elevation Fuel Oil Minimum Supply Control Valves operational (Unit 3). | N/A | N/A | ✓ | N/A |
| Elevation Fuel Oil Supply Control Valves operational (Unit 3). | N/A | N/A | ✓ | N/A |
| Main Fuel Oil Recirculation Valve operational (Unit 3). | N/A | N/A | ✓ | N/A |
| Elevation Recirculation Valves operational (Unit 3). | N/A | N/A | ✓ | N/A |

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✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Burners:

| | | | | |
|--|---|-----|-----|-----|
| All Burners cleaned, securely in place with associated lines securely fastened. | ✓ | S/U | ✓ | N/A |
| All Burners checked for operation during Unit Start-up (e.g. Advancing / Retracting, Valve Operation, Lighting, etc.). | ✓ | S/U | ✓ | N/A |
| All Burner Tilts checked for operation (Units 1 & 2). | ✓ | S/U | N/A | N/A |

General Service 'GS' System:

| | | | | |
|--|---|---|-----|-----|
| GS Heat Exchangers Backwashed, cleaned, etc. | ✓ | ✓ | ✓ | N/A |
| Stage I GS Plate Cooler Strainers cleaned. | ✓ | ✓ | N/A | N/A |
| Stage I GS 'Auto-Clean' Strainer operational. | ✓ | ✓ | N/A | N/A |
| Stage I GS Duplex Strainers cleaned. | ✓ | ✓ | N/A | N/A |
| GS Pump Suction Strainers cleaned. | ✓ | ✓ | ✓ | N/A |
| GS Pump Oil Normal Operating Level. | ✓ | ✓ | ✓ | N/A |
| GS Pumps available & tested for STBY 'Auto-Start'. | ✓ | ✓ | ✓ | N/A |

Turbine / Generator 'TG' Auxiliary Cooling System:

| | | | | |
|--|---|-----|---|-----|
| TG Head Tank Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| Turbine Lube Oil Coolers operational. | ✓ | S/U | ✓ | N/A |
| TG Heat Exchangers Backwashed, cleaned, etc. | ✓ | S/U | ✓ | N/A |
| TG Pump Oil Normal Operating Level. | ✓ | S/U | ✓ | N/A |
| TG Pumps available & tested for STBY 'Auto-Start'. | ✓ | S/U | ✓ | N/A |

Turbine Generator 'TG' System:**Hydraulic System Units 1& 2:**

| | | | | |
|--|---|-----|---|-----|
| Hydraulic System Accumulators operational. | ✓ | S/U | ✓ | N/A |
| Hydraulic System Storage Tank Normal Operating Level and checked for moisture content. | ✓ | S/U | ✓ | N/A |
| Hydraulic System Storage Tank air purging of moisture in place. | ✓ | S/U | ✓ | N/A |
| Hydraulic Set Primary, Secondary Filter indications ok. | ✓ | S/U | ✓ | N/A |
| Two (2) Hydraulic Fluid Pumps availability. | ✓ | S/U | ✓ | N/A |
| Hydraulic Pump Auto Start Testing. | ✓ | S/U | ✓ | N/A |
| Two (2) Hydraulic Fluid Pump Coolers availability. | ✓ | S/U | ✓ | N/A |

Valves:

| | | | | |
|--|-----|-----|-----|-----|
| Pre-Outage Valve Surgery conducted of Boiler Drains. | ✓ | ✓ | ✓ | N/A |
| Turbine Main Stop Valve Testing (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| Turbine Two (2) Main Stop Valves Testing (Unit 3). | N/A | N/A | ✓ | N/A |
| Turbine 'Left-Hand' & 'Right Hand' Reheat Stop & Intercept Control Valve Testing verified. | ✓ | S/U | ✓ | N/A |
| Turbine Six (6) Main Control Valve operation (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| Turbine Four (4) Main Control Valve operation (Unit 3). | N/A | N/A | ✓ | N/A |
| Turbine Blowdown Valve operation. | ✓ | S/U | ✓ | N/A |

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✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Lubricating System:

| | | | | |
|--|-----|-----|-----|-----|
| Lube Oil Tank Normal Operating Level and checked for moisture content. | ✓ | S/U | ✓ | N/A |
| Portable Centrifuge operational. | ✓ | ✓ | ✓ | N/A |
| Lube Oil Tank Vapor Extractor operation. | ✓ | S/U | ✓ | N/A |
| Bowser Oil Conditioner Vapor Extractor Operation (Units 1 & 2). | ✓ | S/U | ✓ | N/A |
| Two (2) AC Lube Oil pumps available & tested for STBY 'Auto-Start' (Units 1 & 2) | ✓ | ✓ | N/A | N/A |
| DC Pump Testing & Starting from UCB (Units 1 & 2). | ✓ | ✓ | N/A | N/A |
| Verify Discharge Pressure of EACH AC Lube Oil Pumps (Locally & UCB) (Units 1 & 2). | ✓ | ✓ | N/A | N/A |
| Verify Discharge Pressure of DC Lube Oil Pump (Locally & UCB) (Units 1 & 2). | ✓ | ✓ | N/A | N/A |
| Jacking Oil Pump Testing & Starting from UCB (Unit 3). | N/A | N/A | ✓ | N/A |
| Verify Discharge Pressure of Jacking Oil Pump (Locally & UCB). | N/A | N/A | ✓ | N/A |
| Auxiliary Oil Pump 'AOP' Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3). | N/A | N/A | ✓ | N/A |
| Verify Discharge Pressure of AOP Pump (Locally & UCB) (Unit 3). | N/A | N/A | ✓ | N/A |
| AC Pump Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3). | N/A | N/A | ✓ | N/A |
| Verify Discharge Pressure of AC Flushing Oil Pump (Locally & UCB) (Unit 3). | N/A | N/A | ✓ | N/A |
| DC Pump Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3). | N/A | N/A | ✓ | N/A |
| Verify Discharge Pressure of DC Flushing Oil Pump (Locally & UCB) (Unit 3). | N/A | N/A | ✓ | N/A |

Barring / Turning Gear:

| | | | | |
|------------------------------------|---|---|---|-----|
| Turning Gear operation verified. | ✓ | ✓ | ✓ | N/A |
| Perform trip test of Turning Gear. | ✓ | ✓ | ✓ | N/A |

Miscellaneous:

| | | | | |
|--|-----|-----|---|-----|
| Steam Seal Regulator operational. | ✓ | S/U | ✓ | N/A |
| Operational On-Line / Off-Line Overspeed Trip Tests. | S/U | S/U | ✓ | N/A |

Hydrogen 'H2' & Carbon Dioxide 'CO2' System:**H2 Generation & Storage System:**

| | | | | |
|--|-----|-----|-----|-----|
| System in operation. | N/A | N/A | N/A | N/A |
| Electrolyzer / H2 Generator operational. | N/A | N/A | N/A | N/A |
| Chiller operational. | N/A | N/A | N/A | N/A |
| DI Water Purifier operational. | N/A | N/A | N/A | N/A |

H2 & CO2 Bulk Packs:

| | | | | |
|--|-----|-----|-----|---|
| Adequate H2 Bulk Packs on hand for contingency purposes. | N/A | N/A | N/A | ✓ |
| CO2 Adequate Bulk Packs on hand. | N/A | N/A | N/A | ✓ |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Generator:

| | | | | |
|---|-----|-----|-----|-----|
| Generator Exciter Operation checked Off & On Line. | ✓ | S/U | ✓ | N/A |
| Seal Oil System tested with 'Air' on Generator in preparation for Leak Testing. | ✓ | S/U | ✓ | N/A |
| Seal Oil Regulator operational. | ✓ | S/U | ✓ | N/A |
| AC Seal Oil pumps available & tested for STBY 'Auto-Start' (Units 1 & 2). | ✓ | S/U | N/A | N/A |
| AC Seal Oil Pump available (Unit 3). | N/A | N/A | ✓ | N/A |
| DC Seal Oil Pump available & tested for STBY 'Auto-Start'. | ✓ | S/U | ✓ | N/A |
| Seal Oil Vacuum Pumps available. | ✓ | S/U | ✓ | N/A |
| Vacuum Tank Level Control operational. | ✓ | S/U | ✓ | N/A |
| H2 System in operation and/or adequate Bulk Packs on hand for contingency purposes. | N/A | N/A | N/A | ✓ |
| CO2 Adequate Bulk Packs on hand. | N/A | N/A | N/A | ✓ |
| Leak Testing Performed prior to 'Gassing Up' Generator. | ✓ | ✓ | ✓ | N/A |
| Purity, Dew Point, etc. Instrumentation operation verified. | ✓ | S/U | ✓ | N/A |

Powerhouse and Switchyard Single Line:**Plant 129V System:**

| | | | | |
|---|---|-----|---|-----|
| 129 V Battery Banks checked Stage I & II. | ✓ | N/A | ✓ | N/A |
| 129V Battery Chargers checked Stage I & II. | ✓ | N/A | ✓ | N/A |

Plant 258V System:

| | | | | |
|---|---|-----|---|-----|
| 258V Battery Banks checked Stage I & II. | ✓ | N/A | ✓ | N/A |
| 258V Battery Chargers checked Stage I & II. | ✓ | N/A | ✓ | N/A |

Plant Uninterrupted Power Supplies 'UPS':

| | | | | |
|---|---|-----|---|-----|
| Number's 1, 2, 3 & 4 'UPS' Power Supplies including Batteries, Cooling Fans, etc., checked. | ✓ | S/U | ✓ | N/A |
|---|---|-----|---|-----|

Emergency Diesel Generators:

| | | | | |
|--|---|---|---|-----|
| Stage I & II Emergency Diesel Generators Tested for Emergency Stop. | ✓ | ✓ | ✓ | N/A |
| Stage I & II Emergency Diesel Generators Tested for Manual & Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers. | ✓ | ✓ | ✓ | N/A |
| Diesel Bus Tie Breaker, 'DBT' operation verified. | ✓ | ✓ | ✓ | N/A |

Fire Protection System:

| | | | | |
|--|-----|-----|-----|---|
| All Fire Protection Zones in Service | N/A | N/A | N/A | ✓ |
| Fire Control/Alarm Panel status. | N/A | N/A | N/A | ✓ |
| Fire Alarm Beacons operational. | N/A | N/A | N/A | ✓ |
| Diesel Fire Pump checked for 'Manual' & 'Auto' Start, etc. | N/A | N/A | N/A | ✓ |
| Diesel Fire Pump Controller, Charger & Battery check. | N/A | N/A | N/A | ✓ |
| Electric Fire Pump checked for 'Manual' & 'Auto' Start, etc. | N/A | N/A | N/A | ✓ |
| Electric Fire Pump Controller check. | N/A | N/A | N/A | ✓ |
| Public Address System Status. | N/A | N/A | N/A | ✓ |

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



Holyrood Thermal Generating Station

Winter Readiness Testing

October 27, 2017

| Status of Test | | | |
|----------------|--------|--------|-----|
| Unit 1 | Unit 2 | Unit 3 | BoP |

Holyrood Main Powerhouse:

| | | | | |
|---|-----|-----|-----|---|
| Back-Up ECC and Guardhouse Propane Generator. | N/A | N/A | N/A | ✓ |
|---|-----|-----|-----|---|

Plant Air Conditioning System:

| | | | | |
|---|-----|-----|-----|-----|
| Control & Relay Rooms. | N/A | N/A | N/A | ✓ |
| Uninterrupted Power Supply 'UPS' #1 Room. | N/A | N/A | N/A | ✓ |
| Generator Excitation and 'UPS' #s 2, 3 & 4 Room (Unit 3). | N/A | N/A | ✓ | N/A |

Plant Heating Steam:

| | | | | |
|--|-----|-----|-----|---|
| All Systems operational for when required. | N/A | N/A | N/A | ✓ |
|--|-----|-----|-----|---|

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable

Appendix C

Status of Winter Readiness Testing of Plant and Equipment
Hydraulic Generation
As of October 20, 2017



| Status of Test | | | | | | | | |
|----------------|--------|--------|--------|--------|--------|--------|----------|----------|
| Bay d'Espoir | | | | | | | | |
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Bop PH 1 | BoP PH 2 |

| | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Following Annual outages, Unit is run up, Synchronized and all Systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Black Start Test of the black start systems is performed prior to the Winter Operating Season. Station service transfers alternate sources | N/A | ✓ | ✓ |

Spherical Valves:

| | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|-----|-----|-----|
| Turbine Main Stop Valve Testing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Turbine Main Stop Valve Operational | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |

Service Air , Instrument Air Systems Compressors:

| | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|---|---|
| All Stationary Air Compressors available. | N/A | ✓ | ✓ |
| Air Compressor operational checks performed (e.g. oil levels, cooling water, etc.) | N/A | ✓ | ✓ |
| Air Compressor STBY / Sequencing capability./Lead Lag/Standby | N/A | ✓ | ✓ |
| HP compressors available | N/A | ✓ | ✓ |
| LP compressor available | N/A | ✓ | ✓ |
| Instrumentation Control and Alarms operational. | N/A | ✓ | ✓ |

TG Cooling Water Systems:

| | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cooling water pumps available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | ✓ | N/A |
| Emergency Cooling water available Penstock Supply | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | ✓ | ✓ |
| Cooling water system available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TG Pumps available & tested for Auto/manual Start. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Shaft seal system available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| CW Pump Motorized discharge valves 'Manual' & 'Auto', 'Cracked' Position operation verified. GCI /HIk | N/A |
| Rotary Strainer inspected and available | N/A |



| Status of Test | | | | | | | | |
|----------------|--------|--------|--------|--------|--------|--------|----------|----------|
| Bay d'Espoir | | | | | | | | |
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Bop PH 1 | BoP PH 2 |

Turbine Generator Governor System:

| | | | | | | | | | |
|--|---|---|---|---|---|---|---|-----|-----|
| Hydraulic System Accumulators operational. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Governor System Testing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Governor System Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Hydraulic pump(s) available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Hydraulic Pump Gov Auto Start Testing. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

Generator:

| | | | | | | | | | |
|--|---|---|---|---|---|---|---|-----|-----|
| Generator Exciter Operation checked Off & On Line. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Generator Exciter Available. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

Lubricating System:

| | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|---|-----|-----|
| Portable Centrifuge operational. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Portable oil Pump (Jacking) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Oil level system generator metering available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Oil level system turbine metering available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| AC High pressure Jacking Oil Pump available automatic | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | N/A |

Switchyard /Terminal Station

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|-----|-----|
| Breakers and Disconnects Operational | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Breaker & Disconnect Operation verified by Ops. Dept. & TRO Bishops Falls . | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

Intake

| | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|-----|-----|
| Water elevation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Trashrack system | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Gate operation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

Surge Tank

| | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|
| Heating system | N/A | 15-Nov | N/A |
| Alarm Systems | N/A | 15-Nov | N/A |

Spillway

| | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|
| Water elevation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Gate Heating /Ice Away unit | N/A | 15-Nov | N/A |
| Gate operation | N/A | ✓ | N/A |
| Emergency(back-up) Diesel Generator | N/A | N/A |
| Emergency lift operation and tested | N/A | ✓ | N/A |



| Status of Test | | | | | | | | |
|----------------|--------|--------|--------|--------|--------|--------|----------|----------|
| Bay d'Espoir | | | | | | | | |
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Bop PH 1 | BoP PH 2 |

Battery Banks And Battery Chargers

Plant 129V System:

| | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|---|---|
| 129 V Battery Banks checked | N/A | ✓ | ✓ |
| 129 V Battery Chargers | N/A | ✓ | ✓ |
| 129 V battery Banks Available | N/A | ✓ | ✓ |

Plant 48V System:

| | | | | | | | | | |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 48V Battery Banks checked | N/A | ✓ | N/A |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|

Plant Uninterrupted Power Supplies 'UPS':

| | | | | | | | | | |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 'UPS' Power Supplies (Inverter NWS). | N/A | ✓ | N/A |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|

Emergency Diesel Generators:

| | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|---|-----|
| Emergency Diesel Generators Tested for Emergency Stop. | N/A | ✓ | N/A |
| Emergency Diesel Generators Tested for Manual & Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers. | N/A | ✓ | N/A |
| Alternate AC sources available | N/A | ✓ | ✓ |
| Station Services Available | N/A | ✓ | ✓ |
| Transfer alternate source | N/A | ✓ | ✓ |

Plant Air Conditioning System:

| | | | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| Control Rooms. | N/A | ✓ | N/A |
| Communications Rooms | N/A | ✓ | N/A |

Plant Heating Steam:

| | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|---|---|
| All Systems operational for when required. | N/A | ✓ | ✓ |
|--|-----|-----|-----|-----|-----|-----|-----|---|---|



| Status of Test | | | | | | | | | | | |
|----------------|--------|--------|--------|-----|--------|-----|--------|-----|--------|-----|--|
| Cat Arm | | | HLK | | USL | | GCL | | PRV | | |
| Unit 1 | Unit 2 | Bop PH | Unit 1 | Bop | |

| | | | | | | | | | | | |
|---|---|---|-----|--------|--------|-----|-----|-----|-----|-----|-----|
| Following Annual outages, Unit is run up, Synchronized and all Systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time. | ✓ | ✓ | N/A | 17-Nov | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Black Start Test of the black start systems is performed prior to the Winter Operating Season. Station service transfers alternate sources | ✓ | ✓ | ✓ | 17-Nov | 17-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spherical Valves: | | | | | | | | | | | |
| Turbine Main Stop Valve Testing | ✓ | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Turbine Main Stop Valve Operational | ✓ | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Service Air , Instrument Air Systems | | | | | | | | | | | |
| Compressors: | | | | | | | | | | | |
| All Stationary Air Compressors available. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Air Compressor operational checks performed (e.g. oil levels, cooling water, etc.) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Air Compressor STBY / Sequencing capability./Lead Lag/Standby | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HP compressors available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A | N/A |
| LP compressor available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Instrumentation Control and Alarms operational. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



| Status of Test | | | | | | | | | | |
|----------------|--------|--------|--------|-----|--------|-----|--------|-----|--------|-----|
| Cat Arm | | | HLK | | USL | | GCL | | PRV | |
| Unit 1 | Unit 2 | Bop PH | Unit 1 | Bop |

TG Cooling Water Systems:

| | | | | | | | | | | | |
|--|-----|-----|-----|--------|---|-----|-----|-----|-----|-----|-----|
| Cooling water pumps available | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A | N/A |
| Emergency Cooling water available Penstock Supply | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | ✓ | ✓ | ✓ | ✓ |
| Cooling water system available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TG Pumps available & tested for Auto/manual Start. | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A | N/A |
| Shaft seal sytem available | N/A | N/A | N/A | 17-Nov | ✓ | ✓ | N/A | ✓ | ✓ | ✓ | ✓ |
| CW Pump Motorized discharge valves 'Manual' & 'Auto', 'Cracked' Position operation verified. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rotary (Water)Strainer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Turbine Generator Governor System:

| | | | | | | | | | | | |
|---|---|---|-----|--------|-----|---|-----|---|-----|---|-----|
| Hydraulic System Accumulators operational. | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | | N/A | ✓ | N/A |
| Governor System Testing | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Governor System Available | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | | N/A | ✓ | N/A |
| Hydraulic pump(s) availble | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Hydraulic Pump Gov Auto Start Testing. | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |

Generator:

| | | | | | | | | | | | |
|---|---|---|-----|--------|-----|---|-----|---|-----|---|-----|
| Generator Exciter Operation checked Off & On Line. | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
|---|---|---|-----|--------|-----|---|-----|---|-----|---|-----|

Lubricating System:

| | | | | | | | | | | | |
|--|---|---|-----|--------|-----|---|-----|---|-----|-----|-----|
| Portable Centrifuge operational. | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Portable oil Pump (Jacking) | ✓ | ✓ | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Oil level system generator metering | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Oil level system turbine metering | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | N/A | N/A |
| AC High pressure Jacking Oil Pump available automatic | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | N/A | N/A |



| Status of Test | | | | | | | | | | |
|----------------|--------|--------|--------|-----|--------|-----|--------|-----|--------|-----|
| Cat Arm | | | HLK | | USL | | GCL | | PRV | |
| Unit 1 | Unit 2 | Bop PH | Unit 1 | Bop |

Miscellaneous:

| | | | | | | | | | | | |
|--|---|---|---|--------|---|---|---|---|---|---|---|
| Breaker & Disconnect Operation verified by Ops. Dept. & TROcrew. | ✓ | ✓ | ✓ | 17-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|--|---|---|---|--------|---|---|---|---|---|---|---|

Control structure

| | | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|
| Water elevation | N/A | N/A | N/A | N/A | ✓ | N/A | N/A | N/A | N/A | N/A | N/A |
| Gate Operation | N/A | N/A | N/A | N/A | ✓ | N/A | N/A | N/A | N/A | N/A | N/A |

Intake

| | | | | | | | | | | | |
|------------------|---|---|-----|--------|-----|---|-----|---|-----|---|-----|
| Water elevation | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Trashrack system | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Gate operation | ✓ | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |

Spillway/By-Pass

| | | | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|---|-----|---|-----|-----|-----|-----|
| Water elevation | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | ✓ | N/A |
| Gate Heating /Ice Away unit | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ | ✓ | ✓ | N/A | N/A |
| Gate operation | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | N/A |
| Emergency(back-up) Desiel Generator | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | N/A | N/A | N/A |
| Emergency lift operation and tested | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | N/A | N/A | N/A |

Battery Banks And Battery Chargers

Plant 129V System:

| | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| 129 V Battery Banks checked | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 129 V Battery Chargers | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 129 V battery Banks Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Plant 48V System:

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|
| 48V Battery Banks checked | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|

Emergency Diesel Generators:

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|
| Emergency Diesel Generators Tested for Emergency Stop. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|--|---|---|---|---|---|---|---|---|---|---|---|



| Status of Test | | | | | | | | | | | |
|----------------|--------|--------|--------|-----|--------|-----|--------|-----|--------|-----|--|
| Cat Arm | | | HLK | | USL | | GCL | | PRV | | |
| Unit 1 | Unit 2 | Bop PH | Unit 1 | Bop | |

| | | | | | | | | | | | |
|---|-----|-----|---|--------|---|-----|---|---|---|---|---|
| Emergency Diesel Generators Tested for Manual & Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Alternate AC sources available | ✓ | ✓ | ✓ | 17-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Station Services Available | ✓ | ✓ | ✓ | 17-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Transfer alternate source | ✓ | ✓ | ✓ | 17-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Plant Air Conditioning System: | | | | | | | | | | | |
| Control Rooms. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Communications Rooms | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | ✓ | ✓ | ✓ | ✓ |
| Plant Heating Steam: | | | | | | | | | | | |
| All Systems operational for when required. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Appendix D

Master Generation Outage Schedule
September 1 to December 31, 2017

2017 Planned Generation Outage Schedule *

| Unit | Month Week Starting | October | November | | | | December | | | | Scheduled Annual Maintenance Outages |
|---|------------------------|---------|----------|-------|-------|-------|----------|-------|-------|-------|---|
| | | 29 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | |
| Holyrood - G1 ^{Note 1} | 135 | | | | | | | | | | Jun 23 - Sep 17 |
| Holyrood - G2 ^{Note 2} | 70 | | | | | | | | | | Apr 07 - Apr 23, May 01 - May 30, Jul 31 - Oct 28 |
| Holyrood - G3 | 150 | | | | | | | | | | Apr 25 - May 03, May 31 - Jul 14, Jul 31 - Aug 18 |
| Bay d'Espoir - G1 | 76.5 | | | | | | | | | | Jul 23 - Aug 13 |
| Bay d'Espoir - G2 | 76.5 | | | | | | | | | | Jul 03 - Jul 27 |
| Bay d'Espoir - G3 | 76.5 | | | | | | | | | | May 03 - Jul 27 |
| Bay d'Espoir - G4 | 76.5 | | | | | | | | | | May 07 - Jun 29 |
| Bay d'Espoir - G5 | 76.5 | | | | | | | | | | Apr 23 - May 02 |
| Bay d'Espoir - G6 | 76.5 | | | | | | | | | | Apr 09 - Apr 19, Apr 23 - Apr 28 |
| Bay d'Espoir - G7 | 76.5 | | | | | | | | | | Aug 27 - Sep 17 |
| Upper Salmon | 84 | | | | | | | | | | Aug 06 - Aug 25 |
| Granite Canal | 40 | | | | | | | | | | Jun 18 - Jun 30, Jul 07 - Aug 13 |
| Hinds Lake | 75 | | | | | | | | | | Oct 30 - Nov 17 |
| Cat Arm 1 | 67 | | | | | | | | | | Sep 17 - Oct 13 |
| Cat Arm 2 | 67 | | | | | | | | | | Oct 01 - Oct 19 |
| Paradise River | 8 | | | | | | | | | | Apr 09 - Apr 13 |
| Hardwoods GT | 50 | | | | | | | | | | Nov 13 - Nov 19 |
| Stephenville GT ^{Note 3} | 50 | | | | | | | | | | May 09 - May 31, Oct 23 - Oct 27, Oct 30 - Nov 03 |
| Holyrood CT | 123.5 | | | | | | | | | | Jun 18 - Jun 23, Nov 06 - Nov 11 |
| Star Lake | 18 | | | | | | | | | | Jun 11 - Jun 16, Sep 10 - Sep 14 |
| Exploits ^{Note 4} | 58 | | | | | | | | | | |
| CBPP CoGen | 8 | | | | | | | | | | |
| NLH Diesels ^{Note 5} | 24.7 | | | | | | | | | | |
| Newfoundland Power | 119.3 | | | | | | | | | | |
| CBPP 60 Hz | 99.1 | | | | | | | | | | |
| Available Capacity ^{Note 6} | 1,782 | 1,735 | 1,627 | 1,870 | 1,945 | 1,995 | 2,003 | 2,003 | 2,003 | 2,003 | |
| Forecasted Gross Island Peak Load ^{Note 7} | | 1,271 | 1,311 | 1,368 | 1,416 | 1,452 | 1,811 | 1,811 | 1,811 | 1,811 | |
| Total Reserve ^{Note 8,9,10} | | 478 | 329 | 518 | 545 | 559 | 292 | 292 | 292 | 292 | |
| Largest Operating Unit | | 154 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | |
| N-1 Reserve | | 254 | 89 | 278 | 305 | 319 | 52 | 52 | 52 | 52 | |

| Legend | |
|-----------------------|------------|
| Unit Available | White |
| Unit Unavailable | Dark Blue |
| Unit Derated | Light Blue |
| Unplanned / Extension | Gray |

Notes:

- Holyrood Unit 1 derated to 135 MW. Expected to be returned to full capacity during the week of November 12, 2017.
- Holyrood Unit 2 derated to 70 MW. Expected to be returned to full capacity during the week of November 05, 2017.
- Stephenville Gas Turbine unavailable as of October 30, 2017. Expected to be fully returned to service on November 03, 2017.
- Grand Falls unit 4 unavailable for generator rewind. Expected to be returned to service on February 28, 2018.
- 24.7 MW include Hawke's Bay (5 MW), St. Anthony (9.7 MW), and Holyrood Diesels (10 MW).
- As of December 01, planned Vale Diesels capacity of 7.6 MW is included in Available Capacity. A pre-winter capacity test is require to prove capacity u
- IIS P90 winter peak demand for 2017-18 as filed with the Board in Hydro's "Near-Term System Adequacy Report" on May 15th, 2017.
- November's Total Reserves reflect the planned agreements for System Voltage Reduction (up to 20 MW).
- December's Total Reserves reflect the planned agreements for CBPP Capacity Assistance (80 MW), System Voltage Reduction (20 MW) and Vale and P
- December's Total Reserves reflect the planned agreements for CBPP Capacity Assistance (80 MW), however there is presently an application before th

Appendix E

Critical Spares Status Listing – Thermal Generation

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|--|--------------|------------|------------------------|
| 1 | Thermal Generation | | Inboard Bearing - BEARING,PEERLESS INBOARD | In Stock | | N/A |
| 2 | Thermal Generation | | Outboard Bearing - BEARING,PEERLESS OUTBOARD | In Stock | | N/A |
| 3 | Thermal Generation | | Casing Ring - RING,PEERLESS CASING | In Stock | | N/A |
| 4 | Thermal Generation | | Casing Gasket - GASKET,PEERLESS CASING | In Stock | | N/A |
| 5 | Thermal Generation | | 8" Butterfly Valve and Actuator - VALVE,BTFY 8" 150# | In Stock | | N/A |
| 6 | Thermal Generation | | Actuator - ACTUATOR,BETTIS CB520 | In Stock | | N/A |
| 7 | Thermal Generation | | 16" Gate Valve - VALVE,GATE 16" NEWCO | In Stock | | N/A |
| 8 | Thermal Generation | | 6" Control Valve - VALVE,CONTROL 6" FISHER | In Stock | | N/A |
| 9 | Thermal Generation | | Actuator - ACTUATOR,PNEU 1-BSW-5-LT | In Stock | | N/A |
| 10 | Thermal Generation | | 1/2 " Valve - SOLENOID,VALVE ASCO 8316 | In Stock | | N/A |
| 11 | Thermal Generation | | Tubing - TUBING,SS 1" OD X.083 316 | In Stock | | N/A |
| 12 | Thermal Generation | | Control Unit - CONTROL UNIT,BATTERY CHG 129V | In Stock | | N/A |
| 13 | Thermal Generation | | Cation Valve - KV2205C - VALVE,ITT | In Stock | | N/A |
| 14 | Thermal Generation | | Cation Valve - KV2206C - VALVE,ITT | In Stock | | N/A |
| 15 | Thermal Generation | | Anion Valve - KV3205C - VALVE,ITT | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|---------------------------------------|--------------|------------|------------------------|
| 16 | Thermal Generation | | Anion Valve - KV3206C - VALVE,ITT | In Stock | | N/A |
| 17 | Thermal Generation | | Cation Valve - KV2203C - VALVE,ITT | In Stock | | N/A |
| 18 | Thermal Generation | | Cation Valve - KV2207C - VALVE,ITT | In Stock | | N/A |
| 19 | Thermal Generation | | Cation Valve - KV2202C - VALVE,ITT | In Stock | | N/A |
| 20 | Thermal Generation | | Cation Valve - KV2208C - VALVE,ITT | In Stock | | N/A |
| 21 | Thermal Generation | | Anion Valve - KV3203C - VALVE,ITT | In Stock | | N/A |
| 22 | Thermal Generation | | Anion Valve - KV3207C - VALVE,ITT | In Stock | | N/A |
| 23 | Thermal Generation | | Anion Valve - KV3202C - VALVE,ITT | In Stock | | N/A |
| 24 | Thermal Generation | | Anion Valve - KV3208C - VALVE,ITT | In Stock | | N/A |
| 25 | Thermal Generation | | Mixed Bed Valve - KV4003B - VALVE,ITT | In Stock | | N/A |
| 26 | Thermal Generation | | Mixed Bed Valve - KV4004A - VALVE,ITT | In Stock | | N/A |
| 27 | Thermal Generation | | Mixed Bed Valve - KV4005B - VALVE,ITT | In Stock | | N/A |
| 28 | Thermal Generation | | Mixed Bed Valve - KV4006B - VALVE,ITT | In Stock | | N/A |
| 29 | Thermal Generation | | Mixed Bed Valve - KV4007B - VALVE,ITT | In Stock | | N/A |
| 30 | Thermal Generation | | Mixed Bed Valve - KV4008B - VALVE,ITT | In Stock | | N/A |
| 31 | Thermal Generation | | Mixed Bed Valve - KV4009B - VALVE,ITT | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|---|--------------|------------|------------------------|
| 32 | Thermal Generation | | Mixed Bed Valve - KV4010A - VALVE,ITT | In Stock | | N/A |
| 33 | Thermal Generation | | Mixed Bed Valve - KV4011A - VALVE,ITT | In Stock | | N/A |
| 34 | Thermal Generation | | Mixed Bed Valve - PCV4071 - VALVE,PRESS REGULATING | Non-Stock | | N/A |
| 35 | Thermal Generation | | Sodium Monitor - ANALYZER,ORION 2111LLEN | In Stock | | N/A |
| 36 | Thermal Generation | | Frequency Drive - CONTROLLER,SPEED CLARIFIER | In Stock | | N/A |
| 37 | Thermal Generation | | Recirculator - Double Induction Speed Reducer - In Stock - RECIRCULATOR,STERLING 9A6108 | In Stock | | N/A |
| 38 | Thermal Generation | | Pump, single stage, 750GPM - PUMP ASSY,KSB 6" | Non-Stock | | N/A |
| 39 | Thermal Generation | | 18 " Butterfly Valve - VALVE,BTFY 18" 150# | In Stock | | N/A |
| 40 | Thermal Generation | | Gear Box - CAPSTAN GEARBOX,SADI | In Stock | | N/A |
| 41 | Thermal Generation | | Fire Pump Controller - N/A | Non-Stock | | N/A |
| 42 | Thermal Generation | | 30A DC Breaker - BREAKER,DC HFD2030 30A | In Stock | | N/A |
| 43 | Thermal Generation | | 25A DC Breaker - BREAKER,DC HFD2025 25A | In Stock | | N/A |
| 44 | Thermal Generation | | 15A DC Breaker - BREAKER,DC HFD2015 15A | In Stock | | N/A |
| 45 | Thermal Generation | | 400A DC Breaker - BREAKER,DC KD3400 400A | In Stock | | N/A |
| 46 | Thermal Generation | | 50A DC Breaker - BREAKER,DC HFD2050 50A | In Stock | | N/A |
| 47 | Thermal Generation | | Control Unit - CONTROL UNIT,BATTERY CHG 129V | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|---|---------------|------------|------------------------|
| 48 | Thermal Generation | | 36" Butterfly Valve - VALVE,BUTTERFLY 36" | In Stock | | N/A |
| 49 | Thermal Generation | | Actuator - ACTUATOR ASSY,ROTORK | In Stock | | N/A |
| 50 | Thermal Generation | | Coils - WINDING COILS | In Stock | | N/A |
| 51 | Thermal Generation | | Network Interface Modules - MODULE,NETWORK INTERFACE | In Stock | | N/A |
| 52 | Thermal Generation | | Master Fuel Trip Relays - RELAY,AB TYPE P | In Stock | | N/A |
| 53 | Thermal Generation | | DCS Control Processor - MODULE,PROCESSOR FOXBORO | In Stock | | N/A |
| 54 | Thermal Generation | | 24Vdc Scanner Power Supply - POWER SUPPLY,WEIDMULLER | In Stock | | N/A |
| 55 | Thermal Generation | | Transmitter - TRANSMITTER, DP 1 KPA TO 1 KPA | In Stock | | N/A |
| 56 | Thermal Generation | | Transmitter - Unit 1 - FLOWMETER,ROSE | Order Pending | | N/A |
| 57 | Thermal Generation | | 6' Flanged - VALVE,AIR & VACUUM 6 FLG | In Stock | | N/A |
| 58 | Thermal Generation | | See Parts List #U1&2 - 1 from Service Contractor - HYDROGEN SEAL RINGS,GE | In Stock | | N/A |
| 59 | Thermal Generation | | ArcNet Coupler - CARD,ABB UNS0672 | In Stock | | N/A |
| 60 | Thermal Generation | | Conduction Monitor - CARD,ABB UNS0673 | In Stock | | N/A |
| 61 | Thermal Generation | | Crowbar - CARD,ABB UNS0017AVAR1 | In Stock | | N/A |
| 62 | Thermal Generation | | Digital ArcNet - CARD,ABB UPC090 | In Stock | | N/A |
| 63 | Thermal Generation | | Binary Input - CARD,ABB UFC092 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|--|--------------|------------|------------------------|
| 64 | Thermal Generation | | Output Relay - CARD,ABB ARC093 | In Stock | | N/A |
| 65 | Thermal Generation | | Measuring Card - CARD,ABB UNC4672 | In Stock | | N/A |
| 66 | Thermal Generation | | Measuring Card - CARD,ABB UNC4673 | In Stock | | N/A |
| 67 | Thermal Generation | | I/O Connection - CARD,ABB UNC4674 | In Stock | | N/A |
| 68 | Thermal Generation | | Converter - CARD,ABB UNS3670 | In Stock | | N/A |
| 69 | Thermal Generation | | Snubber Bridge - SNUBBER,ABB UNS4681V12 | In Stock | | N/A |
| 70 | Thermal Generation | | Control - CARD,ABB HIEE300900R0001 | In Stock | | N/A |
| 71 | Thermal Generation | | Power Supply - CARD,ABB KUC321 | In Stock | | N/A |
| 72 | Thermal Generation | | Pulse Gen - CARD,ABB GDB021 | In Stock | | N/A |
| 73 | Thermal Generation | | Combined I/O - CARD,ABB UAC326 | In Stock | | N/A |
| 74 | Thermal Generation | | Control Panel - CARD,ABB AFC094 | In Stock | | N/A |
| 75 | Thermal Generation | | Breaker - BREAKER,FIELD ABB F3/SE | Non-Stock | | N/A |
| 76 | Thermal Generation | | Transformer - N/A | In Stock | | N/A |
| 77 | Thermal Generation | | Primary Contact for Generator P.T. - CONTACT ASSY,PT | In Stock | | N/A |
| 78 | Thermal Generation | | 1.5" Regulating Valve - SEAL OIL REG KIT, RK | In Stock | | N/A |
| 79 | Thermal Generation | | 1" Valve - VALVE,FISH F.O. TRIP | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|--------------------|-------------|--|--------------|------------|------------------------|
| 80 | Thermal Generation | | Ignition Transformer - XFMR,FOSSIL S870-542F | In Stock | | N/A |
| 81 | Thermal Generation | | Sunspot - BASE,AMPLIFIER & TERMINAL | In Stock | | N/A |
| 82 | Thermal Generation | | Valve Assembly / Oil Igniter - IGNITER,ASSEMBLY ALSTOM | In Stock | | N/A |
| 83 | Thermal Generation | | Level Transmitter - TRANSMITTER,LEVEL | In Stock | | N/A |
| 84 | Thermal Generation | | Aquarian Alarm Modules - MODULE,AQUARIAN | In Stock | | N/A |
| 85 | Thermal Generation | | Relays - RELAY,PLUG-IN 12 PIN AC | In Stock | | N/A |
| 86 | Thermal Generation | | Solenoid - SOLENOID,ASCO 8300 125 VDC | In Stock | | N/A |
| 87 | Thermal Generation | | Conductivity Probe - PROBE,GUIDED WAVE RADAR 26" | In Stock | | N/A |
| 88 | Thermal Generation | | Level Switch - SWITCH,LEVEL MOBREY | In Stock | | N/A |
| 89 | Thermal Generation | | Level Transmitter - TRANSMITTER,LEVEL | In Stock | | N/A |
| 90 | Thermal Generation | | Relay - RELAY,PLUG-IN 12 PIN AC | In Stock | | N/A |
| 91 | Thermal Generation | | Bulk Chemical - AMMONIUM HYDROXIDE,20% TOTE | In Stock | | N/A |
| 92 | Thermal Generation | | 12"-150# Gasket Kit - GASKET,S&K 74S0397V0010 | In Stock | | N/A |
| 93 | Thermal Generation | | O-Rings - O-RING,S&K 75S0144V0090 | In Stock | | N/A |
| 94 | Thermal Generation | | Packing - PACKING,S&K 24" | In Stock | | N/A |
| 95 | Thermal Generation | | Packing - PACKING,S&K 16" | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 96 | Thermal Generation | | Packing - PACKING,S&K 12" | On Order | | N/A |
| 97 | Thermal Generation | | Seal washers - SEAL,S&K 75G0181V0020 | In Stock | | N/A |
| 98 | Thermal Generation | | Gasket - GASKET,S&K 67S0064V0010 | In Stock | | N/A |
| 99 | Thermal Generation | | O-Rings - O-RING,S&K 75S0144V0100 | In Stock | | N/A |
| 100 | Thermal Generation | | Packing - PACKING,S&K 75G0100V0040 | In Stock | | N/A |
| 101 | Thermal Generation | | Packing - PACKING,S&K 75G0100V0040 | In Stock | | N/A |
| 102 | Thermal Generation | | Seal washers - SEAL,S&K 75G0181V0050 | In Stock | | N/A |
| 103 | Thermal Generation | | Valve - VALVE,FISH 5080326PTBNN | Non-Stock | | N/A |
| 104 | Thermal Generation | | Valve - VALVE KIT,BALL 3 | In Stock | | N/A |
| 105 | Thermal Generation | | Actuator - ACTUATOR KIT,WORCH D-38 | In Stock | | N/A |
| 106 | Thermal Generation | | Valve - VALVE KIT,BALL 2 | In Stock | | N/A |
| 107 | Thermal Generation | | Actuator - ACTUATOR KIT,WORCH C-38 | In Stock | | N/A |
| 108 | Thermal Generation | | Pressure Transmitter - Unit 1 - TRANSMITTER,PRESS -30-0" | On Order | | N/A |
| 109 | Thermal Generation | | Mark 5 System - cable assemblies - CABLE ASSY,SERVO G.E. | In Stock | | N/A |
| 110 | Thermal Generation | | Mark 5 System - 50 gal. Intercept Control Valve Servos - VALVE,SERVO 50.0 GPM | In Stock | | N/A |
| 111 | Thermal Generation | | Mark 5 System - 50 gal. Main Control Valve Servos - VALVE,SERVO 50.0 GPM | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 112 | Thermal Generation | | Mark 5 System - 6 gal. Intercept Control Valve Servos (scram) - VALVE,SERVO 9.0-11.0 GPM | In Stock | | N/A |
| 113 | Thermal Generation | | Mark 5 System - 6 gal. Main Stop Valve Servos - VALVE,SERVO 9.0-11.0 GPM | In Stock | | N/A |
| 114 | Thermal Generation | | Linear Variable Differential Transducer for Intercept Control Valve & Main Control Valve - TRANSDUCER,GE | In Stock | | N/A |
| 115 | Thermal Generation | | Linear Variable Differential Transducers for 1 per Main Stop Valve - TRANSDUCER,GE | In Stock | | N/A |
| 116 | Thermal Generation | | Cable - CABLE SET,FLUID POWER | In Stock | | N/A |
| 117 | Thermal Generation | | Valve - VALVE,FLUID POWER PILOT | In Stock | | N/A |
| 118 | Thermal Generation | | Sensor - SENSOR,FLUID POWER | In Stock | | N/A |
| 119 | Thermal Generation | | Coil - COIL,FLUID POWER | In Stock | | N/A |
| 120 | Thermal Generation | | Go Switch - Limit Switches - SWITCH,LIMIT GO LEVER | In Stock | | N/A |
| 121 | Thermal Generation | | Cable Set - CABLE SET,FLUID POWER | In Stock | | N/A |
| 122 | Thermal Generation | | Valve - VALVE,FLUID POWER PILOT | In Stock | | N/A |
| 123 | Thermal Generation | | Sensor - SENSOR,FLUID POWER | In Stock | | N/A |
| 124 | Thermal Generation | | Coil - COIL,FLUID POWER | In Stock | | N/A |
| 125 | Thermal Generation | | O-Ring Kit - O-RING KIT,FLUID POWER | In Stock | | N/A |
| 126 | Thermal Generation | | RES,50OHM,5%,40 WATT - RESISTOR,500HM | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 127 | Thermal Generation | | DIODE MOD,1200V,45A,SKKD46/12 - DIODE,MOD 1200V | In Stock | | N/A |
| 128 | Thermal Generation | | RELAY - RELAY,12HGA11J52 | In Stock | | N/A |
| 129 | Thermal Generation | | CPF MK5 CONTROL POWE - CONTROL,MK5 POWER | In Stock | | N/A |
| 130 | Thermal Generation | | TERMINATOR,93 OHMS - TERMINATOR,93 OHMS | In Stock | | N/A |
| 131 | Thermal Generation | | RESISTOR - RESISTOR,323A2354P1 | In Stock | | N/A |
| 132 | Thermal Generation | | RESISTOR - RESISTOR,323A2354P2 | In Stock | | N/A |
| 133 | Thermal Generation | | RES 100 OHM 5% 40W - RESISTOR,100 OHM | In Stock | | N/A |
| 134 | Thermal Generation | | CAP-METALLIZED-MYLAR - CAP,METALIZED MYLAR | In Stock | | N/A |
| 135 | Thermal Generation | | MKV, C-Core Terminal Board - TERMINAL BOARD,MKV C-CORE | In Stock | | N/A |
| 136 | Thermal Generation | | MKV, Terminal Board, Digital I/O - TERMINAL BOARD,DIGITAL I/O | In Stock | | N/A |
| 137 | Thermal Generation | | MKV, Terminal Board, Digital I/O - TERMINAL BOARD,DIGITAL I/O | In Stock | | N/A |
| 138 | Thermal Generation | | MKV, Terminal Board, Relay/Solenoid - TERMINAL BOARD,MKV RELAY | In Stock | | N/A |
| 139 | Thermal Generation | | MKV, Terminal Board, Relay/Solenoid - TERMINAL BOARD,MKV RELAY | In Stock | | N/A |
| 140 | Thermal Generation | | MKV, P-Core Terminal Board - TERMINAL BOARD,MKV P-CORE | In Stock | | N/A |
| 141 | Thermal Generation | | TERM. BOARD (R-S-T) - TERMINAL BOARD,(R-S-T) | In Stock | | N/A |
| 142 | Thermal Generation | | Main Control Card - BOARD,GE DS200SDCCG4A | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 143 | Thermal Generation | | MKV, LAN Comm Interface Card - BOARD,GE DS200SLCC G3A/PS | In Stock | | N/A |
| 144 | Thermal Generation | | MKV,Thermocouple Terminal Board - TERMINAL BOARD,THERMOCOUPLE | In Stock | | N/A |
| 145 | Thermal Generation | | MKV,TERM.BD ©R-S-T TC - TERMINAL BOARD,MKV | In Stock | | N/A |
| 146 | Thermal Generation | | MKVe, Analog I/O Terminal Board - TERMINAL BOARD,ANALOG I/O | In Stock | | N/A |
| 147 | Thermal Generation | | MKVe, Analog I/O Terminal Board - TERMINAL BOARD,ANALOG I/O | In Stock | | N/A |
| 148 | Thermal Generation | | MKV,TERM BD (R-S-T) EXT - TERMINAL BOARD,(R-S-T) EXT | In Stock | | N/A |
| 149 | Thermal Generation | | MKV, Common Analog Card - BOARD,GE DS200TCCAG1B | In Stock | | N/A |
| 150 | Thermal Generation | | MKV, DIG. I/O BD. CONF. C - BOARD,GE DS200TCDAH1B/PS | In Stock | | N/A |
| 151 | Thermal Generation | | MKV, Emergency Overspeed Card - BOARD,GE DS200TCEAG1B | In Stock | | N/A |
| 152 | Thermal Generation | | MKV, COMM. CIRCUITS FOR T - BOARD,GE DS200TCEBG1B | In Stock | | N/A |
| 153 | Thermal Generation | | PDM, Switch & Fuse Card - BOARD,GE DS200TCPDG1B | In Stock | | N/A |
| 154 | Thermal Generation | | MKV, DC INPUT PWR SUPPLY - BOARD,GE DS200TCPSG1A | In Stock | | N/A |
| 155 | Thermal Generation | | MKV, Analog I/O Card - BOARD,GE DS200TCQAG1B | In Stock | | N/A |
| 156 | Thermal Generation | | MKV, (RST) Extended Analog I/O Card - CARD,EXTENDED MKV (RST) | In Stock | | N/A |
| 157 | Thermal Generation | | MKV, BOARD-(RST) OVERFLOW - BOARD,GE DS200TCQCG1B | In Stock | | N/A |
| 158 | Thermal Generation | | MKV, Relay Output Card - BOARD,GE DS200TCRAG1A/PS | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 159 | Thermal Generation | | MKV, Turbine Trip Card - BOARD,GE DS200TCTSG1A | In Stock | | N/A |
| 160 | Thermal Generation | | MODULE,AC TO DC - MODULE,AC TO DC | In Stock | | N/A |
| 161 | Thermal Generation | | (Commissioning Kit) Fuses, Resistors , Diodes, Relays - SPARE KIT,MKV | In Stock | | N/A |
| 162 | Thermal Generation | | Pump - PUMP,DC LUBE OIL | In Stock | | N/A |
| 163 | Thermal Generation | | Motor - MOTOR,DC LUBE OIL PUMP | In Stock | | N/A |
| 164 | Thermal Generation | | Switch - SWITCH,PRESS 0-150 PSI | In Stock | | N/A |
| 165 | Thermal Generation | | Pump - PUMP,HYD FLUID POWER UNIT | In Stock | | N/A |
| 166 | Thermal Generation | | Shaft - SHAFT,IR 10 (TYPE 2 ERVH) | In Stock | | N/A |
| 167 | Thermal Generation | | Impeller - IMPELLER,IR 2RVH3DX1-813 | In Stock | | N/A |
| 168 | Thermal Generation | | Sleeve - SLEEVE,I RAND 175B135NX1B-204 | In Stock | | N/A |
| 169 | Thermal Generation | | Key - KEY,IMPELLER IR 11A9C37 | In Stock | | N/A |
| 170 | Thermal Generation | | Motor - MOTOR,ELECT 20HP 575VAC | In Stock | | N/A |
| 171 | Thermal Generation | | Switch - SWITCH,PRESS 0-150 PSI | In Stock | | N/A |
| 172 | Thermal Generation | | Bushing - BUSHING,FISH 1E845714012 | In Stock | | N/A |
| 173 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E859802202 | In Stock | | N/A |
| 174 | Thermal Generation | | Repair Kit - ACTUATOR KIT,FISH R667X000502 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 175 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX0011 | In Stock | | N/A |
| 176 | Thermal Generation | | Positioner - POSITIONER,FISH DVC6200 | In Stock | | N/A |
| 177 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2N130902202 | In Stock | | N/A |
| 178 | Thermal Generation | | Repair Kit - ACTUATOR KIT,FISH R667X000702 | In Stock | | N/A |
| 179 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX232 | In Stock | | N/A |
| 180 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 27A3965X052 | In Stock | | N/A |
| 181 | Thermal Generation | | Cage - CAGE,FISH 20A3245X092 | In Stock | | N/A |
| 182 | Thermal Generation | | Ring - RING,FISH 17A3991X022 | In Stock | | N/A |
| 183 | Thermal Generation | | Seat Ring - RING,FISH 20A3260X152 | In Stock | | N/A |
| 184 | Thermal Generation | | Pressure Transmittter - TRANSMITTER,DP -8000-8000KPA | In Stock | | N/A |
| 185 | Thermal Generation | | Basket Set - BASKET SET,AIR HEATER 21-1/2" | Non-Stock | | N/A |
| 186 | Thermal Generation | | Basket Set - BASKET SET,AIR HEATER U1 | Non-Stock | | N/A |
| 187 | Thermal Generation | | Bearing - BEARING,BALL 23034CCK/C3W33 | In Stock | | N/A |
| 188 | Thermal Generation | | Seal - SEAL,HOWDEN 68-01-615 | In Stock | | N/A |
| 189 | Thermal Generation | | Coupling - COUPLING,STEELFLEX 1-1/8 S-4 | In Stock | | N/A |
| 190 | Thermal Generation | | Air Motor - AIR MOTOR,ING RAND | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 191 | Thermal Generation | | Motor - MOTOR,HEATER 1/3HP (XL GEAR) | In Stock | | N/A |
| 192 | Thermal Generation | | Sleeve - SLEEVE,RELIANCE 411629-6A | In Stock | | N/A |
| 193 | Thermal Generation | | Coupling - COUPLING,BORE 3/4X5/8 | In Stock | | N/A |
| 194 | Thermal Generation | | Roller assembly - ROLLER,ASSEMBLY | In Stock | | N/A |
| 195 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX182 | In Stock | | N/A |
| 196 | Thermal Generation | | Stud - STUD,DEW 0282336 | In Stock | | N/A |
| 197 | Thermal Generation | | Repair Kit - ACTUATOR KIT,FISH R667X000402 | In Stock | | N/A |
| 198 | Thermal Generation | | Cage - CAGE,FISH 2U224033272 | In Stock | | N/A |
| 199 | Thermal Generation | | Plug/Stem - PLUG ASSY,FISH 1V6575X0052 | In Stock | | N/A |
| 200 | Thermal Generation | | Ring - RING,FISH 1U222646172 | In Stock | | N/A |
| 201 | Thermal Generation | | Bushing - BUSHING,FISH 1E682814012 | In Stock | | N/A |
| 202 | Thermal Generation | | 2" Flanged Valve - VALVE,FISH ATOM STEAM | In Stock | | N/A |
| 203 | Thermal Generation | | Flanged Valve - VALVE,FISH F.O. TRIP | In Stock | | N/A |
| 204 | Thermal Generation | | Repair Kit - PACKING KIT,FISH RPACKX00012 | In Stock | | N/A |
| 205 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E670002202 | In Stock | | N/A |
| 206 | Thermal Generation | | PUMP,IMO C324 - PUMP,IMO C324 (COMPLETE) | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 207 | Thermal Generation | | Seal - SEAL,MECHANICAL FUEL C324 | In Stock | | N/A |
| 208 | Thermal Generation | | Gasket Set - GASKET SET,FISH RGASKETX312 | In Stock | | N/A |
| 209 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX00012 | In Stock | | N/A |
| 210 | Thermal Generation | | Ring - RING,FISH 1U222535072 | In Stock | | N/A |
| 211 | Thermal Generation | | Plug/stem - PLUG/STEM,FISH 1U8350X0022 | In Stock | | N/A |
| 212 | Thermal Generation | | Cage - CAGE,FISH 2U215033272 | In Stock | | N/A |
| 213 | Thermal Generation | | Gasket - GASKET,FISH 10A4154X012 | In Stock | | N/A |
| 214 | Thermal Generation | | Ring - RING,FISH 1U222835072 | In Stock | | N/A |
| 215 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2N126902202 | In Stock | | N/A |
| 216 | Thermal Generation | | Cage - CAGE,FISH 2U231833272 | In Stock | | N/A |
| 217 | Thermal Generation | | Gaskets - GASKET,FUEL OIL HEATER | In Stock | | N/A |
| 218 | Thermal Generation | | Tube Bundles - HEATER,FUEL OIL STAGE 1 | Non-Stock | | N/A |
| 219 | Thermal Generation | | Oil, Steam & Scavange Valves - All Same - VALVE,BALL 3/4 C/W PNEU | In Stock | | N/A |
| 220 | Thermal Generation | | Cage - CAGE,FISH 42B3570X012 | On Order | | N/A |
| 221 | Thermal Generation | | Plug/stem - PLUG/STEM,FISH 36A5366X062 | On Order | | N/A |
| 222 | Thermal Generation | | Ring - RING,FISH 26A5285X012 | On Order | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 223 | Thermal Generation | | Ring - RING,FISH 26A5299X052 | On Order | | N/A |
| 224 | Thermal Generation | | Ring - RING,FISH 10A5411X022 | On Order | | N/A |
| 225 | Thermal Generation | | Pin - PIN,FISH 1V334035072 | On Order | | N/A |
| 226 | Thermal Generation | | Gasket - GASKET,FISH 18A2810X012 | On Order | | N/A |
| 227 | Thermal Generation | | Gasket - GASKET,FISH 26A5314X012 | In Stock | | N/A |
| 228 | Thermal Generation | | Ring - RING,FISH 10A5410X012 | In Stock | | N/A |
| 229 | Thermal Generation | | Packing - PACKING,FISH 1R290601012 | On Order | | N/A |
| 230 | Thermal Generation | | Element Assembly (Volute) - ELEMENT ASSY,VOLUTE/ROTATING | Non-Stock | | N/A |
| 231 | Thermal Generation | | Bushing - BUSHING,BJ 216507LG | In Stock | | N/A |
| 232 | Thermal Generation | | Shaft Driven Oil Pump - PUMP,BJ DWG C1F-238 | In Stock | | N/A |
| 233 | Thermal Generation | | Ring - RING,BJ 612987-EH | In Stock | | N/A |
| 234 | Thermal Generation | | Ring - RING,BJ 634599-BG | In Stock | | N/A |
| 235 | Thermal Generation | | Shoe - SHOE ASSY,BJ 631163-KD | In Stock | | N/A |
| 236 | Thermal Generation | | Cover - COVER,BJ 308952-SA | In Stock | | N/A |
| 237 | Thermal Generation | | 3000HP Motor, 4160Vac (two styles of motor for Stage I, one each stocked off-site) - SCIM, sin# 1026366788, frame MGP500B, 3000HP, 4160Vac, 60Hz | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 238 | Thermal Generation | | Gasket - GASKET,FISH 12B7100X082 | In Stock | | N/A |
| 239 | Thermal Generation | | Seal - SEAL,FISH 10A4215X012 | In Stock | | N/A |
| 240 | Thermal Generation | | Ring - RING,FISH 10A4217X012 | In Stock | | N/A |
| 241 | Thermal Generation | | Ring - RING,FISH 10A4219X012 | In Stock | | N/A |
| 242 | Thermal Generation | | Ring - RING,FISH 22B9344X012 | In Stock | | N/A |
| 243 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 38A0014X062 | In Stock | | N/A |
| 244 | Thermal Generation | | Level Transmitter - TRANSMITTER, DP 0-120" H20 | In Stock | | N/A |
| 245 | Thermal Generation | | Level Transmitter - TRANSMITTER, DP 0-120" H20 | In Stock | | N/A |
| 246 | Thermal Generation | | Level Transmitter - TRANSMITTER, DP 0-120" H20 | In Stock | | N/A |
| 247 | Thermal Generation | | Aquarian Alarm Modules - MODULE,AQUARIAN | In Stock | | N/A |
| 248 | Thermal Generation | | Aquarian Alarm Modules - MODULE,AQUARIAN | In Stock | | N/A |
| 249 | Thermal Generation | | Aquarian Alarm Modules - MODULE,AQUARIAN | In Stock | | N/A |
| 250 | Thermal Generation | | Conductivity Probe - PROBE,CONDUCTIVITY | In Stock | | N/A |
| 251 | Thermal Generation | | Relay - RELAY,PLUG-IN 12 PIN AC | In Stock | | N/A |
| 252 | Thermal Generation | | Solenoid - SOLENOID,ASCO 8300 125 VDC | In Stock | | N/A |
| 253 | Thermal Generation | | Oil Tight Limit Switch - SWITCH,LIMIT AB 802T-B | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 254 | Thermal Generation | | Packing - PACKING,GRAFOIL 1IDX1-1/2OD | In Stock | | N/A |
| 255 | Thermal Generation | | Gasket - GASKET,HOP 30037592 | In Stock | | N/A |
| 256 | Thermal Generation | | Spindle - SPINDLE,HOP 44574-011 | In Stock | | N/A |
| 257 | Thermal Generation | | Nut - NUT,HOP 35224-508 | In Stock | | N/A |
| 258 | Thermal Generation | | Stop - STOP,HOP 8 VALVE 24930W | In Stock | | N/A |
| 259 | Thermal Generation | | Belt - BELT ASSY,HOP 44511-001 | In Stock | | N/A |
| 260 | Thermal Generation | | 8"- 150# Gasket Kit - GASKET,S&K 74S0397V0010 | In Stock | | N/A |
| 261 | Thermal Generation | | 8"- 300# Gasket Kit - GASKET,S&K 74S0397V0010 | In Stock | | N/A |
| 262 | Thermal Generation | | 8"- 600# Gasket Kit - GASKET,S&K 74S0397V0010 | In Stock | | N/A |
| 263 | Thermal Generation | | Level Transmitter - TRANSMITTER,PRESS 5-800 | In Stock | | N/A |
| 264 | Thermal Generation | | 1/2" x 1" Valve - VALVE,RELIEF 1/2"110# SE | In Stock | | N/A |
| 265 | Thermal Generation | | 4" Valve - VALVE,GATE 4 CS BW 300# | In Stock | | N/A |
| 266 | Thermal Generation | | 2.5" x 5 "Pneumatic PowerPositioner (Hagan) In Stock - VALVE ASSY,373218-001 | In Stock | | N/A |
| 267 | Thermal Generation | | Coupling - COUPLING,METASTREAM | In Stock | | N/A |
| 268 | Thermal Generation | | Bearing - BEARING,JOURNAL MP 215878E | Non-Stock | | N/A |
| 269 | Thermal Generation | | Impeller - IMPELLER,MAT PLA 27881-P | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 270 | Thermal Generation | | Impeller - IMPELLER,MAT PLA 27882-P | In Stock | | N/A |
| 271 | Thermal Generation | | Impeller - O-RING,M&P 775C | In Stock | | N/A |
| 272 | Thermal Generation | | Impeller - O-RING,MAT PLA 775D | In Stock | | N/A |
| 273 | Thermal Generation | | Cable - CABLE,BATTERY 1/0 | In Stock | | N/A |
| 274 | Thermal Generation | | Mark 5 System - speed probes - PROBE,SPEED PICKUP | In Stock | | N/A |
| 275 | Thermal Generation | | Switch - SWITCH,PRESS 0-150 PSI | In Stock | | N/A |
| 276 | Thermal Generation | | Positioner - POSITIONER,FISH DVC6200 | In Stock | | N/A |
| 277 | Thermal Generation | | Motor - MOTOR,ELECT 50HP 575V | In Stock | | N/A |
| 278 | Thermal Generation | | Potential Transformer (PT) - TRANSFORMER,GE 765X | In Stock | | N/A |
| 279 | Thermal Generation | | Stand Off Insulator - BUSHING,HIGH VOLTAGE GE | In Stock | | N/A |
| 280 | Thermal Generation | | Truck V-Fast Cables - CABLE SET,FLUID POWER | In Stock | | N/A |
| 281 | Thermal Generation | | Brush - BRUSH,GENERATOR U1 & U2 | In Stock | | N/A |
| 282 | Thermal Generation | | Inboard Bearing Liner - LINER,BEARING 6" | In Stock | | N/A |
| 283 | Thermal Generation | | Outboard Bearing Liner - SLEEVE,BEARING 6" | In Stock | | N/A |
| 284 | Thermal Generation | | Bearing Set - BEARING SET,SLEEVE 6" | In Stock | | N/A |
| 285 | Thermal Generation | | 200A Power Cell - POWER CELL,SIEMENS 200A | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 286 | Thermal Generation | | 1500HP Motor, 4160Vac - SCIM, sin# 1026842643, frame MGP500C, 1500HP, 4160Vac, 60Hz | In Stock | | N/A |
| 287 | Thermal Generation | | 400A DC Breaker - BREAKER,DC KD2400F 400A | In Stock | | N/A |
| 288 | Thermal Generation | | 40A DC Breaker - BREAKER,DC HFD2040 40A | In Stock | | N/A |
| 289 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-116 | In Stock | | N/A |
| 290 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-114-1 | In Stock | | N/A |
| 291 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-111-1 | In Stock | | N/A |
| 292 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-107-2 | In Stock | | N/A |
| 293 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-107-2 | In Stock | | N/A |
| 294 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-107-2 | In Stock | | N/A |
| 295 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-107-2A | In Stock | | N/A |
| 296 | Thermal Generation | | Electronic Control Cards - CARD,CIGEN TEC 81-112-2 | In Stock | | N/A |
| 297 | Thermal Generation | | Rectifier - RECTIFIER,CIGENT 323-230 | In Stock | | N/A |
| 298 | Thermal Generation | | Charger - CHARGER,BATTERY 250VDC | Non-Stock | | N/A |
| 299 | Thermal Generation | | 36 ' Butterfly Valve - VALVE,BUTTERFLY 36" | In Stock | | N/A |
| 300 | Thermal Generation | | CW Butterfly Valve Actuator - ACTUATOR ASSY,ROTORK | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 301 | Thermal Generation | | Coils - COILS,STAGE 2 MOTOR | In Stock | | N/A |
| 302 | Thermal Generation | | Network Interface Modules - MODULE,NETWORK INTERFACE | In Stock | | N/A |
| 303 | Thermal Generation | | Master Fuel Trip Relays - RELAY,SD 8501XUDO | In Stock | | N/A |
| 304 | Thermal Generation | | DCS Control Processor - MODULE,PROCESSOR FOXBORO | In Stock | | N/A |
| 305 | Thermal Generation | | Meter & Transmitter - FLOWMETER,PROMASS 83F40 | In Stock | | N/A |
| 306 | Thermal Generation | | Positioner - POSITIONER,FISH DVC6200 | In Stock | | N/A |
| 307 | Thermal Generation | | 6" Flange Vacuum Breaker - VALVE,AIR & VACUUM 6 FLG | In Stock | | N/A |
| 308 | Thermal Generation | | Brush - BRUSH,GENERATOR U3 | In Stock | | N/A |
| 309 | Thermal Generation | | Bearing Pad - PAD,BEARING U3 SYNC COND | In Stock | | N/A |
| 310 | Thermal Generation | | Seal Ring - RING,SEAL U3 SYNC COND | In Stock | | N/A |
| 311 | Thermal Generation | | Thrust bearing - BEARING,THRUST U3 SYNC COND | In Stock | | N/A |
| 312 | Thermal Generation | | Thrust bearing - BEARING,THRUST U3 SYNCH COND | In Stock | | N/A |
| 313 | Thermal Generation | | Seal Ring - RING,SEAL U3 SYNCH COND | In Stock | | N/A |
| 314 | Thermal Generation | | Thermocouple - THERMOCOUPLE,U3 SYNCH COND | In Stock | | N/A |
| 315 | Thermal Generation | | Bellows - BELLOWS,HITACHI | In Stock | | N/A |
| 316 | Thermal Generation | | Gaskets - GASKET,HITACHI | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 317 | Thermal Generation | | Gaskets - GASKET,HITACHI | In Stock | | N/A |
| 318 | Thermal Generation | | Gaskets - GASKET,HITACHI | In Stock | | N/A |
| 319 | Thermal Generation | | Converter - CONVERTER,ABB EXCITER | In Stock | | N/A |
| 320 | Thermal Generation | | ECT Panel - ECT PANEL,ABB EXCITER | In Stock | | N/A |
| 321 | Thermal Generation | | Controller - CONTROLLER,ABB EXCITER | On Order | | N/A |
| 322 | Thermal Generation | | Computer - COMPUTER,ABB EXCITER | In Stock | | N/A |
| 323 | Thermal Generation | | Firing Board - BOARD,ABB EXCITER | In Stock | | N/A |
| 324 | Thermal Generation | | Message Module - MODULE,ABB EXCITER | In Stock | | N/A |
| 325 | Thermal Generation | | Input Coupling - INPUT COUPLING UNIT,ABB | In Stock | | N/A |
| 326 | Thermal Generation | | Power Supply - POWER SUPPLY,ABB | In Stock | | N/A |
| 327 | Thermal Generation | | Crowbar - CROWBAR,ABB EXCITER | In Stock | | N/A |
| 328 | Thermal Generation | | Murr - MURR,ABB EXCITER | In Stock | | N/A |
| 329 | Thermal Generation | | Resistor - RESISTOR,ABB EXCITER | In Stock | | N/A |
| 330 | Thermal Generation | | I/O/ Board - BOARD,ABB COMBINED I/O | In Stock | | N/A |
| 331 | Thermal Generation | | Field Breaker - BREAKER,FIELD ABB E2/E | In Stock | | N/A |
| 332 | Thermal Generation | | Insulator Bushing - BUSHING,HIGH VOLTAGE HIT | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 333 | Thermal Generation | | Potential Transformer (PT) - TRANSFORMER,EATON VIZZ | In Stock | | N/A |
| 334 | Thermal Generation | | Fuse - FUSE,GE EJ0-1-C588L405G1 | In Stock | | N/A |
| 335 | Thermal Generation | | 1-1/2" Valve - VALVE KIT,JAMES RKB5MT | In Stock | | N/A |
| 336 | Thermal Generation | | Light Oil / Air Supply Solenoid Valve - SOLENOID,ASCO 8342C1 | In Stock | | N/A |
| 337 | Thermal Generation | | Purge Solenoid Valve - SOLENOID,ASCO 8262G232 | In Stock | | N/A |
| 338 | Thermal Generation | | Pneumatic Actuator - ACTUATOR,PNEU R16C | In Stock | | N/A |
| 339 | Thermal Generation | | Ignition Transformer - XFMR,IGNITION 120V 60C | In Stock | | N/A |
| 340 | Thermal Generation | | Relay - BOX,IGNITOR C/W CABLES N-6 | In Stock | | N/A |
| 341 | Thermal Generation | | Sunspot - Scanner - SCANNER,FOSSIL 9100-1000 | In Stock | | N/A |
| 342 | Thermal Generation | | Snap Action Switch - MICROSWITCH,16CX12-D01 | In Stock | | N/A |
| 343 | Thermal Generation | | 1/4" Light Oil Air Ball Valves - VALVE,BALL 1/4" U3 IGNITOR | In Stock | | N/A |
| 344 | Thermal Generation | | Level Transmitter LP Heater #1 - TRANSMITTER,LEVEL | In Stock | | N/A |
| 345 | Thermal Generation | | Aquarian Alarm Modules - MODULE,AQUARIAN | In Stock | | N/A |
| 346 | Thermal Generation | | Solenoid - SOLENOID,ASCO 8300 125 VDC | In Stock | | N/A |
| 347 | Thermal Generation | | Relay - RELAY,OMRON MM4XP-DC125 | In Stock | | N/A |
| 348 | Thermal Generation | | Conductivity Probe - PROBE,CONDICTIVITY | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 349 | Thermal Generation | | Gauge Glasses - GAUGE, GLASS 3/4X48 | In Stock | | N/A |
| 350 | Thermal Generation | | Level Switch - SWITCH ASSY, MAG 89-7401-052 | In Stock | | N/A |
| 351 | Thermal Generation | | Solenoid - SOLENOID, ASCO 8320G184M0 | In Stock | | N/A |
| 352 | Thermal Generation | | Level Transmitter - TRANSMITTER, DP 0-120" H20 | In Stock | | N/A |
| 353 | Thermal Generation | | Repair Kit - VALVE KIT, BALL 8" | In Stock | | N/A |
| 354 | Thermal Generation | | Repair Kit - ACTUATOR KIT, WORCH C-38 | In Stock | | N/A |
| 355 | Thermal Generation | | Valve - VALVE, FISH 8560-1052-36105 | In Stock | | N/A |
| 356 | Thermal Generation | | Disc - DISC, FISH 75B1036X102 | In Stock | | N/A |
| 357 | Thermal Generation | | Pin - PIN, FISH 75B1122X052 | In Stock | | N/A |
| 358 | Thermal Generation | | Pin - PIN, FISH G13725K0022 | In Stock | | N/A |
| 359 | Thermal Generation | | Ring - RING, FISH 75B0311X032 | In Stock | | N/A |
| 360 | Thermal Generation | | Shaft - SHAFT, FISH 75B0014X012 | In Stock | | N/A |
| 361 | Thermal Generation | | Spring - SPRING, FISH 75B0012X012 | In Stock | | N/A |
| 362 | Thermal Generation | | Packing - PACKING, FISH 12A8951X022 | In Stock | | N/A |
| 363 | Thermal Generation | | Bearing - BEARING, FISH 75B1076X012 | In Stock | | N/A |
| 364 | Thermal Generation | | 20"Dia - GASKET, COVER HIT | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 365 | Thermal Generation | | 24" Dia - GASKET,COVER HIT | In Stock | | N/A |
| 366 | Thermal Generation | | 14" Dia on DA - GASKET COVER HIT | In Stock | | N/A |
| 367 | Thermal Generation | | Disc - DISC,VALVE SAFETY RELIEF | In Stock | | N/A |
| 368 | Thermal Generation | | Parts to Repair - VALVE,FISH 8560-1052-36105 | In Stock | | N/A |
| 369 | Thermal Generation | | Valve Kit - VALVE KIT,BALL 3 | In Stock | | N/A |
| 370 | Thermal Generation | | Actuator Kit - ACTUATOR KIT,WORCH D-38 | In Stock | | N/A |
| 371 | Thermal Generation | | Valve Kit - VALVE KIT,BALL 2 | In Stock | | N/A |
| 372 | Thermal Generation | | Actuator Kit - ACTUATOR KIT,WORCH C-38 | In Stock | | N/A |
| 373 | Thermal Generation | | Bellows - BELLOW ASSY,HIT L1000-1 | In Stock | | N/A |
| 374 | Thermal Generation | | 400A DC Breaker - BREAKER,DC KD2400F 400A | In Stock | | N/A |
| 375 | Thermal Generation | | 40A DC Breaker - BREAKER,DC HFD2040 40A | In Stock | | N/A |
| 376 | Thermal Generation | | Piston - PISTON RING,HITACHI | In Stock | | N/A |
| 377 | Thermal Generation | | Oil Seal - OIL SEAL,HITACHI | In Stock | | N/A |
| 378 | Thermal Generation | | O-Ring - O-RING,HITACHI | In Stock | | N/A |
| 379 | Thermal Generation | | O-Ring - O-RING,HITACHI | In Stock | | N/A |
| 380 | Thermal Generation | | Bushing - BUSHING,HITACHI | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--------------------------------------|--------------|------------|------------------------|
| 381 | Thermal Generation | | Packing - PACKING,HITACHI | In Stock | | N/A |
| 382 | Thermal Generation | | Bushing - BUSHING,HITACHI | In Stock | | N/A |
| 383 | Thermal Generation | | O-Ring - O-RING,HITACHI | In Stock | | N/A |
| 384 | Thermal Generation | | Bearing - BEARING,HITACHI LOAD LIMIT | In Stock | | N/A |
| 385 | Thermal Generation | | Bearing - BEARING,HITACHI LOAD LIMIT | In Stock | | N/A |
| 386 | Thermal Generation | | Piston - PISTON RING,HITACHI | In Stock | | N/A |
| 387 | Thermal Generation | | Packing - PACKING,HITACHI | In Stock | | N/A |
| 388 | Thermal Generation | | Sleeve - SLEEVE,HITACHI | In Stock | | N/A |
| 389 | Thermal Generation | | Trunnion - TRUNNION,HITACHI | In Stock | | N/A |
| 390 | Thermal Generation | | Bearing - BEARING,BALL HITACHI | In Stock | | N/A |
| 391 | Thermal Generation | | Pin - SPLIT PIN,HITACHI | In Stock | | N/A |
| 392 | Thermal Generation | | Bearing - BEARING,BALL HITACHI | In Stock | | N/A |
| 393 | Thermal Generation | | Oil Seal - OIL SEAL,HITACHI | In Stock | | N/A |
| 394 | Thermal Generation | | Packing - PACKING,HITACHI | In Stock | | N/A |
| 395 | Thermal Generation | | Piston - PISTON RING,HITACHI | In Stock | | N/A |
| 396 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 397 | Thermal Generation | | Washer - WASHER,HITACHI | In Stock | | N/A |
| 398 | Thermal Generation | | Washer - WASHER,HITACHI | In Stock | | N/A |
| 399 | Thermal Generation | | Washer - WASHER,HITACHI | In Stock | | N/A |
| 400 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |
| 401 | Thermal Generation | | Washer - WASHER,HITACHI | In Stock | | N/A |
| 402 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |
| 403 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |
| 404 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |
| 405 | Thermal Generation | | Washer - WASHER,HITACHI | In Stock | | N/A |
| 406 | Thermal Generation | | Seat Packing - SEAT PACKING,HITACHI | In Stock | | N/A |
| 407 | Thermal Generation | | Bearing - BEARING,PLANE HIT ITEM 35 | In Stock | | N/A |
| 408 | Thermal Generation | | Bearing - BEARING,PLANE HIT ITEM 36 | In Stock | | N/A |
| 409 | Thermal Generation | | Auto Start Pressure Switch - SWITCH,PRESS 10-300 TYPE ACW2 | In Stock | | N/A |
| 410 | Thermal Generation | | Seal Ring - SEALRING,10P-067-551-17 | In Stock | | N/A |
| 411 | Thermal Generation | | Seal Ring - SEALRING,10P-067-551-18 | In Stock | | N/A |
| 412 | Thermal Generation | | O-Ring - O-RING,HITACHI | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--------------------------------------|--------------|------------|------------------------|
| 413 | Thermal Generation | | Ring - RING,HIT 10P 067-551-13 | In Stock | | N/A |
| 414 | Thermal Generation | | Ring - RING,HIT 10P 067-551-17 | In Stock | | N/A |
| 415 | Thermal Generation | | Ring - RING,HIT 10P 067-551-18 | In Stock | | N/A |
| 416 | Thermal Generation | | Brush - BRUSH,HIT 10P 067-551-38 | In Stock | | N/A |
| 417 | Thermal Generation | | Bearing - BEARING,PLANE HIT ITEM 35 | In Stock | | N/A |
| 418 | Thermal Generation | | Bearing - BEARING,PLANE HIT ITEM 36 | In Stock | | N/A |
| 419 | Thermal Generation | | Motor - MOTOR,AUX OIL YELLOW | In Stock | | N/A |
| 420 | Thermal Generation | | Seat - SEAT,10P-061-226-123 | In Stock | | N/A |
| 421 | Thermal Generation | | Pin - PIN,10P-061-226-207 | In Stock | | N/A |
| 422 | Thermal Generation | | Lockring - LOCKRING,10P-061-226-208 | In Stock | | N/A |
| 423 | Thermal Generation | | Lockring - LOCKRING,10P-061-226-209 | In Stock | | N/A |
| 424 | Thermal Generation | | Pin - PIN,HIT 10P-061-226/16 | In Stock | | N/A |
| 425 | Thermal Generation | | Pin - PIN,HIT 10P-061-226/98 | In Stock | | N/A |
| 426 | Thermal Generation | | Bushing - BUSHING,HIT T-9201 | In Stock | | N/A |
| 427 | Thermal Generation | | Pin - PIN,HIT 10P-061-228-125 | In Stock | | N/A |
| 428 | Thermal Generation | | Crosshead - CROSSHEAD,HIT 10P0612283 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 429 | Thermal Generation | | Pin - PIN,HIT 10P-061-228/98 | In Stock | | N/A |
| 430 | Thermal Generation | | Pin - PIN,HIT 10P-061-228/16 | In Stock | | N/A |
| 431 | Thermal Generation | | Gasket - GASKET,STL #16 | In Stock | | N/A |
| 432 | Thermal Generation | | Gasket - GASKET,HIT 10P-038-197-16 | In Stock | | N/A |
| 433 | Thermal Generation | | Gasket - GASKET,HIT 10P-038-197-71 | In Stock | | N/A |
| 434 | Thermal Generation | | Bushing - BUSHING,10P-038-197/15 | In Stock | | N/A |
| 435 | Thermal Generation | | Seal Ring - SEAL RING,10P-038-197/14 | In Stock | | N/A |
| 436 | Thermal Generation | | Bushing - BUSHING,HIT 10P-038-197/18 | In Stock | | N/A |
| 437 | Thermal Generation | | Bushing - BUSHING,HIT 10P0611582 | In Stock | | N/A |
| 438 | Thermal Generation | | Bushing - BUSHING,HIT 10P0611586 | In Stock | | N/A |
| 439 | Thermal Generation | | Bushing - BUSHING,HIT 10P06115814 | In Stock | | N/A |
| 440 | Thermal Generation | | Rivet - RIVET,HIT 10P-061-158-63 | In Stock | | N/A |
| 441 | Thermal Generation | | Stem - STEM,HIT 10P061158/7 | In Stock | | N/A |
| 442 | Thermal Generation | | Pin - PIN,HIT 10P06115872 | In Stock | | N/A |
| 443 | Thermal Generation | | Pressure Transmitter - Unit 3 - TRANSMITTER,PRESS 0-200 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 444 | Thermal Generation | | Bushing - BUSHING,FISH 1E845714012 | In Stock | | N/A |
| 445 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E859602202 | In Stock | | N/A |
| 446 | Thermal Generation | | Actuator repair kit - ACTUATOR KIT,FISH R667X000502 | In Stock | | N/A |
| 447 | Thermal Generation | | Packing Kit - PACKING KIT,FISH RPACKX0011 | In Stock | | N/A |
| 448 | Thermal Generation | | Positioner - POSITIONER,FISH DVC6200 | In Stock | | N/A |
| 449 | Thermal Generation | | Aux Steam Control Valve - Actuator - Unit 3 - ACTUATOR KIT,FISH R470X000032 | In Stock | | N/A |
| 450 | Thermal Generation | | Aux Steam Control Valve - Body - Unit 3 - BODY,VALVE FISH 3N192029022 | In Stock | | N/A |
| 451 | Thermal Generation | | Dump Control Valve - Actuator - Repair Kit - Unit 3 - ACTUATOR KIT,FISHER R667 | In Stock | | N/A |
| 452 | Thermal Generation | | Ring - RING,FISH 17A3990X022 | In Stock | | N/A |
| 453 | Thermal Generation | | Ring - RING,FISH 1U508039102 | In Stock | | N/A |
| 454 | Thermal Generation | | Pin - PIN,FISH 1V326035072 | In Stock | | N/A |
| 455 | Thermal Generation | | Cage - CAGE,FISH 2U505939102 | In Stock | | N/A |
| 456 | Thermal Generation | | Plug - PLUG,FISH 27A3953X012 | In Stock | | N/A |
| 457 | Thermal Generation | | Thrust Plate - THRUST PLATE KIT,DODGE 132221 | In Stock | | N/A |
| 458 | Thermal Generation | | Formed Coils - COIL,WINDING U3 FD FAN | In Stock | | N/A |
| 459 | Thermal Generation | | Liner - LINER ASSY,DODGE 132423 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 460 | Thermal Generation | | Collar - COLLAR,DODGE 132154 | In Stock | | N/A |
| 461 | Thermal Generation | | Opposite side bearing - LINER ASSY,DODGE 132951 | In Stock | | N/A |
| 462 | Thermal Generation | | 2 - Temperature probes installed in bearings - THERMOCOUPLE,TYPE T | On Order | | N/A |
| 463 | Thermal Generation | | Falk Steelflex coupling - COUPLING,STEELFLEX GRID | In Stock | | N/A |
| 464 | Thermal Generation | | Gasket - GASKET,DODGE 132170 | In Stock | | N/A |
| 465 | Thermal Generation | | Damper - DAMPER,STOCKBRIDGE 0.866" | Non-Stock | | N/A |
| 466 | Thermal Generation | | Damper - DAMPER,STOCKBRIDGE 1.004" | Non-Stock | | N/A |
| 467 | Thermal Generation | | Actuator Repair Kit - DRIVE KIT,BAILEY 532694C1 | In Stock | | N/A |
| 468 | Thermal Generation | | Actuator repair kit - DRIVE KIT,BAILEY 256111A0 | In Stock | | N/A |
| 469 | Thermal Generation | | Gearbox - GEARBOX,AIR HEATER U3 | In Stock | | N/A |
| 470 | Thermal Generation | | Air Drive Motor - AIR MOTOR,ING RAND | In Stock | | N/A |
| 471 | Thermal Generation | | Basket Set - BASKET SET,AIR HEATER 22-1/2" | Non-Stock | | N/A |
| 472 | Thermal Generation | | Basket Set - BASKET SET,HOT END 22-1/2" | Non-Stock | | N/A |
| 473 | Thermal Generation | | Probe - In Stock - PROBE,OXYGEN ANALYZER | In Stock | | N/A |
| 474 | Thermal Generation | | Analyser - ANALYZER,ROSE 3000 OXY | In Stock | | N/A |
| 475 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX362 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 476 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX0002 | In Stock | | N/A |
| 477 | Thermal Generation | | Actuator - ACTUATOR KIT,FISH R667X000502 | In Stock | | N/A |
| 478 | Thermal Generation | | Regulator - REGULATOR KIT,FISH WR67AFRX011 | In Stock | | N/A |
| 479 | Thermal Generation | | Bushing - BUSHING,FISH 1E845714012 | In Stock | | N/A |
| 480 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E859802202 | In Stock | | N/A |
| 481 | Thermal Generation | | Cage - CAGE,FISH 2U236033272 | In Stock | | N/A |
| 482 | Thermal Generation | | Ring - RING,FISH 1U217305092 | In Stock | | N/A |
| 483 | Thermal Generation | | Seat - SEAT,FISH 1U222046172 | In Stock | | N/A |
| 484 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 1V6571X0042 | In Stock | | N/A |
| 485 | Thermal Generation | | Cage - CAGE,FISH 2U215333272 | In Stock | | N/A |
| 486 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX242 | In Stock | | N/A |
| 487 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX00012 | In Stock | | N/A |
| 488 | Thermal Generation | | Bushing - BUSHING,FISH 1E682814012 | In Stock | | N/A |
| 489 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E669902202 | In Stock | | N/A |
| 490 | Thermal Generation | | Cage - CAGE,FISH 2U223733272 | In Stock | | N/A |
| 491 | Thermal Generation | | Ring - RING,FISH 1U222646172 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 492 | Thermal Generation | | Plug/Stem - PLUG ASSY,FISH 1V6575X0052 | In Stock | | N/A |
| 493 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX0002 | In Stock | | N/A |
| 494 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX182 | In Stock | | N/A |
| 495 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E670002202 | In Stock | | N/A |
| 496 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX0002 | In Stock | | N/A |
| 497 | Thermal Generation | | Repair Kit - ACTUATOR KIT,FISH R667X000402 | In Stock | | N/A |
| 498 | Thermal Generation | | Bushing - BUSHING,FISH 1E682814012 | In Stock | | N/A |
| 499 | Thermal Generation | | Retainer - RETAINER,FISH 1V710935072 | In Stock | | N/A |
| 500 | Thermal Generation | | Disc - DISC,FISH 1V711006242 | In Stock | | N/A |
| 501 | Thermal Generation | | Seat - SEAT,FISH 1V711135072 | In Stock | | N/A |
| 502 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E669902202 | In Stock | | N/A |
| 503 | Thermal Generation | | Cage - CAGE,FISH 2U227633272 | In Stock | | N/A |
| 504 | Thermal Generation | | Repair Kit - ACTUATOR KIT,FISH R667X000402 | In Stock | | N/A |
| 505 | Thermal Generation | | Bushing - BUSHING,FISH 1E682814012 | In Stock | | N/A |
| 506 | Thermal Generation | | Diaphragm - DIAPHRAGM,FISH 2E669902202 | In Stock | | N/A |
| 507 | Thermal Generation | | Pump - PUMP,MAIN FUEL OIL KRAL | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 508 | Thermal Generation | | 1" Welded Flange Valve w/ Actuator - VALVE ASSY,JAMES 1052 1" | In Stock | | N/A |
| 509 | Thermal Generation | | 3/4" Welded Valve w/ Actuator - VALVE ASSY,JAMES 1052 3/4" | In Stock | | N/A |
| 510 | Thermal Generation | | 1/2"Ball Valve - VALVE KIT,JAMES RKB5MT | In Stock | | N/A |
| 511 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX312 | In Stock | | N/A |
| 512 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX00012 | In Stock | | N/A |
| 513 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 1U2161X0082 | In Stock | | N/A |
| 514 | Thermal Generation | | Ring - RING,FISH 1U222546172 | In Stock | | N/A |
| 515 | Thermal Generation | | Cage - CAGE,FISH 2U215033272 | In Stock | | N/A |
| 516 | Thermal Generation | | Gasket - GASKET SET,FISH RGASKETX312 | In Stock | | N/A |
| 517 | Thermal Generation | | Packing - PACKING KIT,FISH RPACKX00012 | In Stock | | N/A |
| 518 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 1U2161X0082 | In Stock | | N/A |
| 519 | Thermal Generation | | Ring - RING,FISH 1U222546172 | In Stock | | N/A |
| 520 | Thermal Generation | | Cage - CAGE,FISH 2U215033272 | In Stock | | N/A |
| 521 | Thermal Generation | | Rotating Assembly - CASE ASSY,BWL (INNER) | In Stock | | N/A |
| 522 | Thermal Generation | | Shoe Assembly - SHOE ASSY,KI-00166-A-3740 | In Stock | | N/A |
| 523 | Thermal Generation | | Throttle bushing (2 req'd) - BUSHING,BWL 3106181 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 524 | Thermal Generation | | Bearing - BEARING,HIT 9-60-1 | In Stock | | N/A |
| 525 | Thermal Generation | | Bearing - BEARING,HIT 9-60-2 | In Stock | | N/A |
| 526 | Thermal Generation | | Balance bushing - BUSHING,BWL 3106181 | In Stock | | N/A |
| 527 | Thermal Generation | | Thrust bearing - BEARING ASSY,THRUST JHJ-5 | In Stock | | N/A |
| 528 | Thermal Generation | | Gaskets - GASKET,BWL T-101204JG | In Stock | | N/A |
| 529 | Thermal Generation | | 2350HP Motor, 4160Vac - SCIM, sin# 1026842642, frame MGP450D, 2350HP, 4160Vac, 60Hz | In Stock | | N/A |
| 530 | Thermal Generation | | 6" - EHT valve 1500lb - Welded - DIAPHRAGM,FISH 2R6376X00 | In Stock | | N/A |
| 531 | Thermal Generation | | 1 - 10A5411X022 -Seal Ring - RING,FISH 10A5411X022 | On Order | | N/A |
| 532 | Thermal Generation | | 1 - 13A5599X052 - O-Ring - O-RING,FISH 13A5599X052 | In Stock | | N/A |
| 533 | Thermal Generation | | 1 - 26A52990X52 - Seat Ring Retainer - RING,FISH 26A5299X052 | On Order | | N/A |
| 534 | Thermal Generation | | 1 - 27A2798X042 - Seat Ring, O-Ring - RING,FISH 27A2798X042 | In Stock | | N/A |
| 535 | Thermal Generation | | 1 - 42B3570X012 - Cage, Eq% - CAGE,FISH 42B3570X012 | On Order | | N/A |
| 536 | Thermal Generation | | 1 - 36A5366X062 - Plug/Stem Bal - PLUG/STEM,FISH 36A5366X062 | On Order | | N/A |
| 537 | Thermal Generation | | 2 - 26A5314X012 - Gasket - GASKET,FISH 26A5314X012 | In Stock | | N/A |
| 538 | Thermal Generation | | 1 - 1J872906332 - Upper Wiper - WIPER,FISH 1J872906332 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 539 | Thermal Generation | | 1 - 1J873435072 - Packing Box Ring - RING,FISH 1J873435072 | In Stock | | N/A |
| 540 | Thermal Generation | | 1 - 1R290601012 - Packing Set - PACKING,FISH 1R290601012 | On Order | | N/A |
| 541 | Thermal Generation | | 1 - 1H7441X0022 - Bushing Seal - SEAL,FISH 1H7441X0022 | In Stock | | N/A |
| 542 | Thermal Generation | | 1 - 2R6376X0082 - Diaphragm - DIAPHRAGM,FISH 2R6376X00 | In Stock | | N/A |
| 543 | Thermal Generation | | 1 - R667X000802 - Repair Kit - ACTUATOR KIT,FISHER R667 | In Stock | | N/A |
| 544 | Thermal Generation | | Conductivity Probe - PROBE,CONDUCTIVITY | In Stock | | N/A |
| 545 | Thermal Generation | | Aquarian Alarm Module - PROBE,AQUARIAN | In Stock | | N/A |
| 546 | Thermal Generation | | Level Transmitter - TRANSMITTER, DP 0-120" H2O | In Stock | | N/A |
| 547 | Thermal Generation | | Relay - RELAY,OMRON MM4XP-DC125 | In Stock | | N/A |
| 548 | Thermal Generation | | Solenoid - SOLENOID,ASCO 8300 125 VDC | In Stock | | N/A |
| 549 | Thermal Generation | | Bushing - BUSHING,DEW 0800109 | In Stock | | N/A |
| 550 | Thermal Generation | | Clip - CLIP,DEW 0540097 | In Stock | | N/A |
| 551 | Thermal Generation | | Ring - RING,DEW 0760093 | In Stock | | N/A |
| 552 | Thermal Generation | | Ring - RING,DEW 668215DEW | In Stock | | N/A |
| 553 | Thermal Generation | | Screw - SCREW,DEW 0440024 | In Stock | | N/A |
| 554 | Thermal Generation | | Spacer - SPACER,DEW 0660065 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 555 | Thermal Generation | | Spring - SPRING,DEW 6580312 (3/SET) | In Stock | | N/A |
| 556 | Thermal Generation | | Stem - STEM,DEW 0040851 | In Stock | | N/A |
| 557 | Thermal Generation | | Stud - STUD,DEW 0282351 | In Stock | | N/A |
| 558 | Thermal Generation | | Stud - STUD,DEW 0280514 | In Stock | | N/A |
| 559 | Thermal Generation | | Packing - PACKING,DEW 6442946 | In Stock | | N/A |
| 560 | Thermal Generation | | Nut - NUT,DEW P71ER250 | In Stock | | N/A |
| 561 | Thermal Generation | | 6" Dia - GASKET,COVER HIT | In Stock | | N/A |
| 562 | Thermal Generation | | 8" Dia - GASKET,COVER HIT | In Stock | | N/A |
| 563 | Thermal Generation | | 10" Dia - GASKET,COVER HIT | In Stock | | N/A |
| 564 | Thermal Generation | | Stud - STUD,DEW 0280443 | In Stock | | N/A |
| 565 | Thermal Generation | | Stud - STUD,DEW 0280513 | In Stock | | N/A |
| 566 | Thermal Generation | | Disc - DISC,DEW 051095 | In Stock | | N/A |
| 567 | Thermal Generation | | Ring - RING,DEW 0760072 | In Stock | | N/A |
| 568 | Thermal Generation | | Ring - RING,DEW 2004920 | In Stock | | N/A |
| 569 | Thermal Generation | | Stud - STUD,DEW 0440024 | In Stock | | N/A |
| 570 | Thermal Generation | | Nut - NUT,DEW #2003863 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 571 | Thermal Generation | | Nut - NUT,DEW 2000006 | In Stock | | N/A |
| 572 | Thermal Generation | | Nut - NUT,KEYSTONE 903-735 | In Stock | | N/A |
| 573 | Thermal Generation | | Transmitter - TRANSMITTER,PRESS 5-800 | In Stock | | N/A |
| 574 | Thermal Generation | | Cage - CAGE ASSY,FISH 22A3525X022 | In Stock | | N/A |
| 575 | Thermal Generation | | Packing - PACKING,FISH 1R290601012 | On Order | | N/A |
| 576 | Thermal Generation | | Plug/Stem - PLUG/STEM,FISH 22A3527X052 | In Stock | | N/A |
| 577 | Thermal Generation | | Gasket - GASKET,FISH 10A4155X012 | In Stock | | N/A |
| 578 | Thermal Generation | | Gasket - GASKET,FISH 10A4154X012 | In Stock | | N/A |
| 579 | Thermal Generation | | Ring - RING,FISH 10A4210X012 | In Stock | | N/A |
| 580 | Thermal Generation | | Ring - RING,FISH 12A3529X012 | In Stock | | N/A |
| 581 | Thermal Generation | | Ring - RING,FISH 11A3306X012 | In Stock | | N/A |
| 582 | Thermal Generation | | 1/2" Dia - VALVE,RELIEF 1/2"110# SE | In Stock | | N/A |
| 583 | Thermal Generation | | Body - BODY,VALVE MASON 37-79264 | In Stock | | N/A |
| 584 | Thermal Generation | | Ring - RING KIT,MASON 01148734399 | In Stock | | N/A |
| 585 | Thermal Generation | | Gasket - GASKET,MASON 356154-152-825 | On Order | | N/A |
| 586 | Thermal Generation | | Seal - SEAL,MASON 354810-034-779 | On Order | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 587 | Thermal Generation | | Retainer - RETAINER,MASON 358754-000-163 | In Stock | | N/A |
| 588 | Thermal Generation | | Seal - SEAL,MASON 358753-000-210 | In Stock | | N/A |
| 589 | Thermal Generation | | Pin - PIN,MASON 971342-023-250 | On Order | | N/A |
| 590 | Thermal Generation | | Stem - STEM,MASON 358738-113-210 | In Stock | | N/A |
| 591 | Thermal Generation | | Plug - PLUG,MASON 011509-398206 | On Order | | N/A |
| 592 | Thermal Generation | | Seat - SEAT,MASON 358748-000-596 | On Order | | N/A |
| 593 | Thermal Generation | | Liner - LINER,MASON 359005-000-213 | On Order | | N/A |
| 594 | Thermal Generation | | Diaphragm - DIAPHRAGM,MASON 010275-040-77 | In Stock | | N/A |
| 595 | Thermal Generation | | Stem - STEM,MASON 770354-027-152 | In Stock | | N/A |
| 596 | Thermal Generation | | Feeder to MCC E1 - breaker C4 - BREAKER,EATON 600V | In Stock | | N/A |
| 597 | Thermal Generation | | Feeder to MCC C12 - breaker C7 - BREAKER,EATON 600V | In Stock | | N/A |
| 598 | Thermal Generation | | Feeder to Power Centre - breaker C14 - BREAKER,EATON 600V | In Stock | | N/A |
| 599 | Thermal Generation | | Feeder to Power Centre - breaker C15 - BREAKER,EATON 600V | In Stock | | N/A |
| 600 | Thermal Generation | | breaker C3 - BREAKER,EATON 600V | In Stock | | N/A |
| 601 | Thermal Generation | | breaker C5 - BREAKER,EATON 600V | In Stock | | N/A |
| 602 | Thermal Generation | | breaker C6 - BREAKER,EATON 600V | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 603 | Thermal Generation | | breaker C8 - BREAKER,EATON 600V | In Stock | | N/A |
| 604 | Thermal Generation | | breaker C9 - BREAKER,EATON 600V | In Stock | | N/A |
| 605 | Thermal Generation | | breaker C10 - BREAKER,EATON 600V | In Stock | | N/A |
| 606 | Thermal Generation | | breaker C11 - BREAKER,EATON 600V | In Stock | | N/A |
| 607 | Thermal Generation | | breaker C12 - BREAKER,EATON 600V | In Stock | | N/A |
| 608 | Thermal Generation | | breaker C13 - BREAKER,EATON 600V | In Stock | | N/A |
| 609 | Thermal Generation | | Circuit Breaker to Bus - breaker C16 - BREAKER,EATON 600V | In Stock | | N/A |
| 610 | Thermal Generation | | Circuit Breaker to Bus - breaker C17 - BREAKER,EATON 600V | In Stock | | N/A |
| 611 | Thermal Generation | | Feeder to MCC - breaker C18 - BREAKER,EATON 600V | In Stock | | N/A |
| 612 | Thermal Generation | | Circuit Breaker to Bus - breaker C19 - BREAKER,EATON 600V | In Stock | | N/A |
| 613 | Thermal Generation | | SSB-3 Relay - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 614 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 615 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 616 | Thermal Generation | | Feeder to transformer ATC - breaker SSB-3 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 617 | Thermal Generation | | SSB-4 Relay - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 618 | Thermal Generation | | SSB-4 Relay - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 619 | Thermal Generation | | Feeder to Station Board - breaker SSB-2 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 620 | Thermal Generation | | Feeder to Station Board - breaker SSB-4 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 621 | Thermal Generation | | Feeder to Boiler Area MCC BAB3 - breaker SDB-34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 622 | Thermal Generation | | GPB34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 623 | Thermal Generation | | AC34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 624 | Thermal Generation | | CWP34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 625 | Thermal Generation | | LDP34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 626 | Thermal Generation | | WTP34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 627 | Thermal Generation | | Feeder to Diesel Bus DB34 - Breaker DB34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 628 | Thermal Generation | | Feeder to Diesel Bus - D2 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 629 | Thermal Generation | | Feeder to Diesel Bus - DBT - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 630 | Thermal Generation | | breaker ST34 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 631 | Thermal Generation | | breaker ST34 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 632 | Thermal Generation | | breaker TB12 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 633 | Thermal Generation | | breaker TB12 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 634 | Thermal Generation | | breaker SAT34 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 635 | Thermal Generation | | breaker SAT34 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 636 | Thermal Generation | | TB3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 637 | Thermal Generation | | TB3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 638 | Thermal Generation | | Feeder to Station Board - breaker ST34 & relays - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 639 | Thermal Generation | | Feeder to Station Board - breaker TB12 & relays - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 640 | Thermal Generation | | Circuit Breaker TB3 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 641 | Thermal Generation | | breaker PSM3 & relay - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 642 | Thermal Generation | | breaker TB12 relays - SYNCHROTECT,SYN5201 | In Stock | | N/A |
| 643 | Thermal Generation | | breaker TB12 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 644 | Thermal Generation | | TB3 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 645 | Thermal Generation | | TB3 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 646 | Thermal Generation | | Circuit Breaker UB1-1 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 647 | Thermal Generation | | UB1-1 Relay - SYNCHROTECT,SYN5201 | In Stock | | N/A |
| 648 | Thermal Generation | | UB1-1 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 649 | Thermal Generation | | UB1-1 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 650 | Thermal Generation | | Circuit Breaker UB2-12 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 651 | Thermal Generation | | UB2-12 Relay - SYNCHROTECT,SYN5201 | In Stock | | N/A |
| 652 | Thermal Generation | | UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 653 | Thermal Generation | | UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 654 | Thermal Generation | | UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 655 | Thermal Generation | | Feeder to Power Centre A - A1 - BREAKER,EATON 600V | In Stock | | N/A |
| 656 | Thermal Generation | | Feeder to Power Centre A - A9 - BREAKER,EATON 600V | In Stock | | N/A |
| 657 | Thermal Generation | | Feeder to transformer LT-A - breaker A3 - BREAKER,EATON 600V | In Stock | | N/A |
| 658 | Thermal Generation | | Feeder to MCC A1 - breaker A4 - BREAKER,EATON 600V | In Stock | | N/A |
| 659 | Thermal Generation | | A5 - BREAKER,EATON 600V | In Stock | | N/A |
| 660 | Thermal Generation | | A6 - BREAKER,EATON 600V | In Stock | | N/A |
| 661 | Thermal Generation | | A7 - BREAKER,EATON 600V | In Stock | | N/A |
| 662 | Thermal Generation | | UB1-4 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 663 | Thermal Generation | | UB1-9 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 664 | Thermal Generation | | UB1-11 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 665 | Thermal Generation | | UB1-2 relays - RELAY,AUXILIARY RXMA-2 | In Stock | | N/A |
| 666 | Thermal Generation | | UB1-2 relays - RELAY,AUXILIARY RXMA-1 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 667 | Thermal Generation | | UB1-2 relays - RELAY,AUXILIARY RXMS-1 | In Stock | | N/A |
| 668 | Thermal Generation | | UB1-2 relays - RELAY,AUXILIARY RXMH-2 | In Stock | | N/A |
| 669 | Thermal Generation | | UB1-3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 670 | Thermal Generation | | UB1-3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 671 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 672 | Thermal Generation | | Feeder to Unit Board UB1 - breaker UB1-2 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 673 | Thermal Generation | | Feeder to transformer ATA - breaker UB1-3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 674 | Thermal Generation | | breaker UB1-4 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 675 | Thermal Generation | | breaker UB1-5 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 676 | Thermal Generation | | breaker UB1-6 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 677 | Thermal Generation | | breaker UB1-7 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 678 | Thermal Generation | | breaker UB1-8 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 679 | Thermal Generation | | breaker UB1-9 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 680 | Thermal Generation | | breaker UB1-10 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 681 | Thermal Generation | | breaker UB1-11 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 682 | Thermal Generation | | UB1-2 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 683 | Thermal Generation | | Feeder to Power Centre B - breaker B1 - BREAKER,EATON 600V | In Stock | | N/A |
| 684 | Thermal Generation | | Feeder to transformer LT-B - breaker B4 - BREAKER,EATON 600V | In Stock | | N/A |
| 685 | Thermal Generation | | Feeder to MCC B1 - breaker B5 - BREAKER,EATON 600V | In Stock | | N/A |
| 686 | Thermal Generation | | B2 - BREAKER,EATON 600V | In Stock | | N/A |
| 687 | Thermal Generation | | B6 - BREAKER,EATON 600V | In Stock | | N/A |
| 688 | Thermal Generation | | B7 - BREAKER,EATON 600V | In Stock | | N/A |
| 689 | Thermal Generation | | B8 - BREAKER,EATON 600V | In Stock | | N/A |
| 690 | Thermal Generation | | UB2-3 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 691 | Thermal Generation | | UB2-4 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 692 | Thermal Generation | | UB2-9 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 693 | Thermal Generation | | UB2-10 relay - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 694 | Thermal Generation | | UB2-1 relays - RELAY,AUXILIARY RXMA-2 | In Stock | | N/A |
| 695 | Thermal Generation | | UB2-1 relays - RELAY,AUXILIARY RXMA-1 | In Stock | | N/A |
| 696 | Thermal Generation | | UB2-1 relays - RELAY,AUXILIARY RXMS-1 | In Stock | | N/A |
| 697 | Thermal Generation | | UB2-1 relays - RELAY,AUXILIARY RXMH-2 | In Stock | | N/A |
| 698 | Thermal Generation | | UB2-2 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 699 | Thermal Generation | | UB2-2 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 700 | Thermal Generation | | Feeder to Unit Board - breaker UB2-1 & relays - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 701 | Thermal Generation | | Feeder to Transformer ATB, breaker UB2-2 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 702 | Thermal Generation | | UB2-3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 703 | Thermal Generation | | UB2-4 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 704 | Thermal Generation | | UB2-5 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 705 | Thermal Generation | | UB2-6 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 706 | Thermal Generation | | UB2-7 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 707 | Thermal Generation | | UB2-8 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 708 | Thermal Generation | | UB2-9 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 709 | Thermal Generation | | UB2-10 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 710 | Thermal Generation | | UB2-1 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 711 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 712 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 713 | Thermal Generation | | Feeder to Aux Board - breaker UAB-3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 714 | Thermal Generation | | Feeder to transformer LDP-3 - breaker LDP-3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|---|--------------|------------|------------------------|
| 715 | Thermal Generation | | Feeder to MCC BAB3 - breaker BAB-3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 716 | Thermal Generation | | AOP3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 717 | Thermal Generation | | TAB3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 718 | Thermal Generation | | AC12 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 719 | Thermal Generation | | Tie Breaker to Station Board - breaker ATB3 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 720 | Thermal Generation | | Relays - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 721 | Thermal Generation | | UT3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 722 | Thermal Generation | | UT3 relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 723 | Thermal Generation | | UAT3 Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 724 | Thermal Generation | | UAT3 Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 725 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 726 | Thermal Generation | | Feeder to Unit Board - breaker UT3 - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 727 | Thermal Generation | | Feeder to transformer UAT3 - breaker UAT3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 728 | Thermal Generation | | BFE3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 729 | Thermal Generation | | BFW3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 730 | Thermal Generation | | FDE3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 731 | Thermal Generation | | FDW3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 732 | Thermal Generation | | CEN3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 733 | Thermal Generation | | CES3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 734 | Thermal Generation | | CWE3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 735 | Thermal Generation | | CWW3 - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 736 | Thermal Generation | | UT3 relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 737 | Thermal Generation | | Relays - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 738 | Thermal Generation | | SSB-3 Relay - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 739 | Thermal Generation | | Relays - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 740 | Thermal Generation | | Feeder to Station Board - breaker SSB-1 & Relays - BREAKER,EATON 4160V 2000A | In Stock | | N/A |
| 741 | Thermal Generation | | SSB-1 Relay - SYNCHROTECT,SYN5201 | In Stock | | N/A |
| 742 | Thermal Generation | | SSB-1 Relay - RELAY,VOLTAGE ABB SPAU121C | In Stock | | N/A |
| 743 | Thermal Generation | | SSB-1 Relay - RELAY,AUXILIARY RXMA-2 | In Stock | | N/A |
| 744 | Thermal Generation | | SSB-1 Relay - RELAY,AUXILIARY RXMA-1 | In Stock | | N/A |
| 745 | Thermal Generation | | SSB-1 Relay - RELAY,AUXILIARY RXMS-1 | In Stock | | N/A |
| 746 | Thermal Generation | | SSB-1 Relay - RELAY,AUXILIARY RXMH-2 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 747 | Thermal Generation | | breaker PSM3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 748 | Thermal Generation | | UB1-5 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 749 | Thermal Generation | | UB1-6 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 750 | Thermal Generation | | UB1-7 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 751 | Thermal Generation | | UB1-8 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 752 | Thermal Generation | | UB1-10 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 753 | Thermal Generation | | UB2-5 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 754 | Thermal Generation | | UB2-6 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 755 | Thermal Generation | | UB2-7 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 756 | Thermal Generation | | UB2-8 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 757 | Thermal Generation | | BFE3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 758 | Thermal Generation | | BFW3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 759 | Thermal Generation | | FDE3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 760 | Thermal Generation | | FDW3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 761 | Thermal Generation | | CEN3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 762 | Thermal Generation | | CES3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |

Appendix E:
Critical Spares Status for Thermal Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|--------------------|-------------|--|--------------|------------|------------------------|
| 763 | Thermal Generation | | CWE3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 764 | Thermal Generation | | CWW3 relay - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 765 | Thermal Generation | | Relays - RELAY,PROTECTION SEL701 | In Stock | | N/A |
| 766 | Thermal Generation | | Feeder to Power Centre - breaker C1 - BREAKER,EATON 600V | In Stock | | N/A |
| 767 | Thermal Generation | | Feeder to MCC C1 - breaker C2 - BREAKER,EATON 600V | In Stock | | N/A |
| 768 | Thermal Generation | | Feeder to transformer SAT34 - breaker SAT34 & relays - BREAKER,EATON 4160V 1200A | In Stock | | N/A |
| 769 | Thermal Generation | | Feeder to Station Board - breaker SAB34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 770 | Thermal Generation | | Feeder to Station Board - breaker ATB12 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 771 | Thermal Generation | | WAM34 - BREAKER,SCHNEIDER 600V | In Stock | | N/A |
| 772 | Thermal Generation | | Relays - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |
| 773 | Thermal Generation | | Relays - RELAY,OVERCURRENT SEL 551C | In Stock | | N/A |
| 774 | Thermal Generation | | Relays - RELAY,RETRO. PBSJ3E5N11 | In Stock | | N/A |

Summary of Gas Turbine Critical Spares:

In Stock 734

On Order 24

Order Pending 1

Capital 0

Grand Total 759

Summary of Gas Turbine Critical

In Stock 0
On Order 0
Order Pending 0
Capital 0
Grand Total 0

Appendix F

Critical Spares Status Listing – Combustion Turbines

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|--------------------------|-------------|-----------------------------|--------------|------------------|------------------------|
| 1 | Gas Turbines Holyrood GT | 42100315 | BELT, RADIATOR FAN | On Order | 0 | TBD |
| 2 | Gas Turbines Holyrood GT | 54900160 | VALVE, SHUTDOWN PURGE | On Order | 0 | TBD |
| 3 | Gas Turbines Holyrood GT | 54900161 | VALVE, CONTINUOUS PURGE | On Order | 0 | TBD |
| 4 | Gas Turbines Holyrood GT | 60101080 | SENSOR, TEMPERATURE | On Order | 0 | TBD |
| 5 | Gas Turbines Holyrood GT | 60101096 | VALVE, COMPRESSOR SOLENOID | On Order | 0 | TBD |
| 6 | Gas Turbines Holyrood GT | 60101124 | TRANSMITTER, PRESSURE | On Order | 0 | TBD |
| 7 | Gas Turbines Holyrood GT | 60101156 | FUSE, LOW VOLTAGE DC | On Order | 0 | TBD |
| 8 | Gas Turbines Holyrood GT | 60101157 | MODULE, DC POWER SUPPLY | On Order | 0 | TBD |
| 9 | Gas Turbines Holyrood GT | 60101158 | MODULE, POWER SUPPLY | On Order | 0 | TBD |
| 10 | Gas Turbines Holyrood GT | 60101159 | MODULE, POWER INPUT | On Order | 0 | TBD |
| 11 | Gas Turbines Holyrood GT | 60101160 | MANUAL, POWER SUPPLY MODULE | On Order | 0 | TBD |
| 12 | Gas Turbines Holyrood GT | 60101184 | TRANSDUCER, 55A CURRENT | On Order | 0 | TBD |
| 13 | Gas Turbines Holyrood GT | 60101185 | CONTACTOR, E-CELL 32A | On Order | 0 | TBD |
| 14 | Gas Turbines Holyrood GT | 3900023 | HEATER, 400W PANEL | In Stock | 1 | N/A |
| 15 | Gas Turbines Holyrood GT | 22900028 | BELT, POLYBAND | In Stock | 6 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|-----------------------------|-------------|------------------------------|--------------|------------------|------------------------|
| 16 | Gas Turbines Holyrood GT | 25900063 | COUPLING, FISHER | In Stock | 1 | N/A |
| 17 | Gas Turbines Holyrood GT | 37900016 | IGNITER, SPARK PLUG | In Stock | 2 | N/A |
| 18 | Gas Turbines Holyrood GT | 42100313 | BELT, V | In Stock | 6 | N/A |
| 19 | Gas Turbines Holyrood GT | 42100314 | SHAFT, FISHER | In Stock | 1 | N/A |
| 20 | Gas Turbines Holyrood GT | 42900001 | PUMP, CONVERTER CHARGING | In Stock | 1 | N/A |
| 21 | Gas Turbines Holyrood GT | 42900002 | REPAIR KIT, SSS CLUTCH MINOR | In Stock | 1 | N/A |
| 22 | Gas Turbines Holyrood GT | 54100202 | VALVE, CHECK 3" | In Stock | 1 | N/A |
| 23 | Gas Turbines Holyrood GT | 54100203 | VALVE, SS POPPET CHECK | In Stock | 1 | N/A |
| 24 | Gas Turbines Holyrood GT | 54100206 | VALVE, FUEL CHECK | In Stock | 3 | N/A |
| 25 | Gas Turbines Holyrood GT | 54100208 | VALVE, CHECK | In Stock | 1 | N/A |
| 26 | Gas Turbines Holyrood GT | 54100209 | VALVE, SOLENOID | In Stock | 1 | N/A |
| 27 | Gas Turbines Holyrood GT | 54300750 | VALVE, FUEL BYPASS | In Stock | 1 | N/A |
| 28 | Gas Turbines Holyrood GT | 54300751 | REPAIR KIT, BYPASS VALVE | In Stock | 3 | N/A |
| 29 | Gas Turbines Holyrood GT | 54400323 | VALVE, PUMP DISCHARGE | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|-----------------------------|-------------|---------------------------|--------------|------------------|------------------------|
| 30 | Gas Turbines Holyrood GT | 54400326 | VALVE, PRESSURE RELIEF | In Stock | 1 | N/A |
| 31 | Gas Turbines Holyrood GT | 54400327 | VALVE, PRESSURE RELIEF | In Stock | 1 | N/A |
| 32 | Gas Turbines Holyrood GT | 54400328 | VALVE, PRESSURE RELIEF | In Stock | 1 | N/A |
| 33 | Gas Turbines Holyrood GT | 54400329 | VALVE, PRESSURE RELIEF | In Stock | 1 | N/A |
| 34 | Gas Turbines Holyrood GT | 54400332 | VALVE, PRESSURE CONTROL | In Stock | 1 | N/A |
| 35 | Gas Turbines Holyrood GT | 54500434 | VALVE, SOLENOID | In Stock | 1 | N/A |
| 36 | Gas Turbines Holyrood GT | 54500437 | VALVE, SOLENOID | In Stock | 2 | N/A |
| 37 | Gas Turbines Holyrood GT | 54500511 | VALVE, SOLENOID | In Stock | 1 | N/A |
| 38 | Gas Turbines Holyrood GT | 54800068 | VALVE, STOP | In Stock | 1 | N/A |
| 39 | Gas Turbines Holyrood GT | 54800069 | FILTER, WATER | In Stock | 28 | N/A |
| 40 | Gas Turbines Holyrood GT | 54900162 | ANALYZER, DEW POINT | In Stock | 1 | N/A |
| 41 | Gas Turbines Holyrood GT | 54900163 | RACK & PINION, PNEUMATIC | In Stock | 1 | N/A |
| 42 | Gas Turbines Holyrood GT | 54900164 | VALVE, AIR INLET | In Stock | 1 | N/A |
| 43 | Gas Turbines Holyrood GT | 54900165 | VALVE, AUTOMATIC DRAIN | In Stock | 2 | N/A |
| 44 | Gas Turbines Holyrood GT | 54900166 | VALVE, AUTO SHUT-OFF | In Stock | 2 | N/A |
| 45 | Gas Turbines Holyrood GT | 54900167 | THERMOCOUPLE, TEMPERATURE | In Stock | 2 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|-----------------------------|-------------|------------------------------|--------------|------------------|------------------------|
| 46 | Gas Turbines Holyrood GT | 54900169 | VALVE, AIR FILTER DRAIN | In Stock | 1 | N/A |
| 47 | Gas Turbines Holyrood GT | 54900174 | COIL, OVERSPEED TRIP | In Stock | 1 | N/A |
| 48 | Gas Turbines Holyrood GT | 54900175 | COIL, MAGNETIC SPEED PICK-UP | In Stock | 1 | N/A |
| 49 | Gas Turbines Holyrood GT | 54900176 | VALVE, NEEDLE | In Stock | 1 | N/A |
| 50 | Gas Turbines Holyrood GT | 54900177 | VALVE, FEMALE NEEDLE | In Stock | 2 | N/A |
| 51 | Gas Turbines Holyrood GT | 54900178 | VALVE, 6Z-PR4-BNT-SS | In Stock | 1 | N/A |
| 52 | Gas Turbines Holyrood GT | 54900188 | VALVE, GLOBE | In Stock | 2 | N/A |
| 53 | Gas Turbines Holyrood GT | 54900189 | INDICTATOR, SIGHT | In Stock | 1 | N/A |
| 54 | Gas Turbines Holyrood GT | 54900190 | VALVE ASSY, PILOT | In Stock | 1 | N/A |
| 55 | Gas Turbines Holyrood GT | 54900194 | FLOAT, SURESITE | In Stock | 1 | N/A |
| 56 | Gas Turbines Holyrood GT | 54900196 | VALVE, SUPPLY FILTER | In Stock | 1 | N/A |
| 57 | Gas Turbines Holyrood GT | 54900197 | VALVE, THROTTLE | In Stock | 1 | N/A |
| 58 | Gas Turbines Holyrood GT | 56200364 | GASKET, FILTER HOUSING | In Stock | 6 | N/A |
| 59 | Gas Turbines Holyrood GT | 56400182 | O-RING, BUNA | In Stock | 10 | N/A |
| 60 | Gas Turbines Holyrood GT | 56400183 | O-RING, FISHER | In Stock | 1 | N/A |
| 61 | Gas Turbines Holyrood GT | 56400184 | BUSHING ASSY, FISHER POT | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|--------------------------|-------------|---------------------------|--------------|------------------|------------------------|
| 62 | Gas Turbines Holyrood GT | 56500206 | FILL KIT, SF6 | In Stock | 1 | N/A |
| 63 | Gas Turbines Holyrood GT | 58000077 | BELT, 1320-BLT-S-EHX19-90 | In Stock | 6 | N/A |
| 64 | Gas Turbines Holyrood GT | 58101224 | COUPLING, PUMP/MOTOR | In Stock | 1 | N/A |
| 65 | Gas Turbines Holyrood GT | 58101225 | PUMP, GEAR | In Stock | 1 | N/A |
| 66 | Gas Turbines Holyrood GT | 58101229 | COUPLING, PUMP-MOTOR | In Stock | 1 | N/A |
| 67 | Gas Turbines Holyrood GT | 58101230 | COUPLING, PUMP-MOTOR | In Stock | 1 | N/A |
| 68 | Gas Turbines Holyrood GT | 58101231 | REPAIR KIT, INJ. PUMP | In Stock | 1 | N/A |
| 69 | Gas Turbines Holyrood GT | 58400504 | FILTER, FUEL CAT 1R0749 | In Stock | 10 | N/A |
| 70 | Gas Turbines Holyrood GT | 58400762 | ELEMENT, 0180MA0003BN | In Stock | 1 | N/A |
| 71 | Gas Turbines Holyrood GT | 58400763 | FILTER, LIQUID FUEL | In Stock | 25 | N/A |
| 72 | Gas Turbines Holyrood GT | 58400764 | FILTER, AIR (ELEMENT) | In Stock | 20 | N/A |
| 73 | Gas Turbines Holyrood GT | 58400766 | ELEMENT, PRE-FILTER | In Stock | 6 | N/A |
| 74 | Gas Turbines Holyrood GT | 58400768 | FILTER, AIR | In stock | 16 | N/A |
| 75 | Gas Turbines Holyrood GT | 58400769 | FILTER, AIR | In Stock | 64 | N/A |
| 76 | Gas Turbines Holyrood GT | 58400772 | FILTER KIT, FUEL | In Stock | 1 | N/A |
| 77 | Gas Turbines Holyrood GT | 58400775 | KIT, OIL FILTER & O-RING | In Stock | 6 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|----|-----------------------------|-------------|------------------------------|--------------|------------------|------------------------|
| 78 | Gas Turbines Holyrood GT | 58400778 | FILTER, 961131C1 FUEL | In Stock | 6 | N/A |
| 79 | Gas Turbines Holyrood GT | 58400780 | FILTER, FUEL BOOST KIT | In Stock | 1 | N/A |
| 80 | Gas Turbines Holyrood GT | 58400782 | FILTER, IGV ACTUATOR | In Stock | 6 | N/A |
| 81 | Gas Turbines Holyrood GT | 58400783 | FILTER, TMP-95 FINAL | In Stock | 55 | N/A |
| 82 | Gas Turbines Holyrood GT | 58400784 | PRE-FILTER, Z-100 | In Stock | 130 | N/A |
| 83 | Gas Turbines Holyrood GT | 58400785 | PRE-FILTER, PARKER AIR DRYER | In Stock | 8 | N/A |
| 84 | Gas Turbines Holyrood GT | 58400786 | AFTER-FILTER, AIR DRYER | In Stock | 4 | N/A |
| 85 | Gas Turbines Holyrood GT | 58400787 | FILTER, PRESSURE | In Stock | 4 | N/A |
| 86 | Gas Turbines Holyrood GT | 58400788 | ELEMENT, POST FILTER | In Stock | 6 | N/A |
| 87 | Gas Turbines Holyrood GT | 58400790 | TRANSMITTER, PRESSURE | In Stock | 1 | N/A |
| 88 | Gas Turbines Holyrood GT | 58400791 | FILTER, LUBE OIL | In Stock | 20 | N/A |
| 89 | Gas Turbines Holyrood GT | 58400792 | KIT, SOFT PARTS | In Stock | 1 | N/A |
| 90 | Gas Turbines Holyrood GT | 58400797 | FILTER, FLOW CONTROL | In Stock | 1 | N/A |
| 91 | Gas Turbines Holyrood GT | 58400798 | FILTER, FLOW CONTROL | In Stock | 1 | N/A |
| 92 | Gas Turbines Holyrood GT | 58400799 | CARTRIDGE, DESICCANT | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|--------------------------------|--------------|------------------|------------------------|
| 93 | Gas Turbines Holyrood GT | 58400801 | FILTER, OIL 275-2604 | In Stock | 6 | N/A |
| 94 | Gas Turbines Holyrood GT | 58400802 | FILTER, AIR 4P0710S | In Stock | 2 | N/A |
| 95 | Gas Turbines Holyrood GT | 58400824 | PRE-FILTER, AIR COOLING | In Stock | 72 | N/A |
| 96 | Gas Turbines Holyrood GT | 58400825 | PRE-FILTER, AIR COOLING | In Stock | 32 | N/A |
| 97 | Gas Turbines Holyrood GT | 60101067 | METER, FLOW | In Stock | 1 | N/A |
| 98 | Gas Turbines Holyrood GT | 60101068 | TRANSMITTER, LIQUID FUEL TEMP | In Stock | 1 | N/A |
| 99 | Gas Turbines Holyrood GT | 60101069 | SWITCH, PUMP SUPPLY PRESSURE | In Stock | 1 | N/A |
| 100 | Gas Turbines Holyrood GT | 60101070 | TRANSMITTER, PUMP DISCHARGE | In Stock | 1 | N/A |
| 101 | Gas Turbines Holyrood GT | 60101071 | VALVE, ACTUATED THROTTLE | In Stock | 1 | N/A |
| 102 | Gas Turbines Holyrood GT | 60101072 | SWITCH, PUMP DISCHARGE PRESS. | In Stock | 1 | N/A |
| 103 | Gas Turbines Holyrood GT | 60101073 | METER, FLOW | In Stock | 1 | N/A |
| 104 | Gas Turbines Holyrood GT | 60101074 | CONTROLLER, STEP LIFO | In Stock | 1 | N/A |
| 105 | Gas Turbines Holyrood GT | 60101075 | CONTROLLER, LIMIT (0-2502-F) | In Stock | 1 | N/A |
| 106 | Gas Turbines Holyrood GT | 60101076 | CONTROLLER,STEP LIFO (4 STAGE) | In Stock | 1 | N/A |
| 107 | Gas Turbines Holyrood GT | 60101077 | DRYER, INSTRUMENT AIR | In Stock | 1 | N/A |
| 108 | Gas Turbines Holyrood GT | 60101079 | SWITCH, PRESSURE | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------------|--------------|------------------|------------------------|
| 109 | Gas Turbines Holyrood GT | 60101082 | SWITCH, HEATER SUPPLY FLOW | In Stock | 1 | N/A |
| 110 | Gas Turbines Holyrood GT | 60101083 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 111 | Gas Turbines Holyrood GT | 60101084 | TRANSMITTER, RADAR LEVEL | In Stock | 1 | N/A |
| 112 | Gas Turbines Holyrood GT | 60101085 | LEVEL SWITCH, DAY TANK | In Stock | 1 | N/A |
| 113 | Gas Turbines Holyrood GT | 60101086 | TRANSMITTER, HEATER DISCHARGE | In Stock | 1 | N/A |
| 114 | Gas Turbines Holyrood GT | 60101087 | RTD, HEATER DISCHARGE TEMP. | In Stock | 1 | N/A |
| 115 | Gas Turbines Holyrood GT | 60101088 | LEVEL TRANSMITTER, LEVEL | In Stock | 1 | N/A |
| 116 | Gas Turbines Holyrood GT | 60101089 | SWITCH, DISPLACER LEVEL | In Stock | 1 | N/A |
| 117 | Gas Turbines Holyrood GT | 60101090 | SWITCH ASSEMBLY, LIMIT | In Stock | 2 | N/A |
| 118 | Gas Turbines Holyrood GT | 60101092 | CABLE,SOLAR, IGNITER | In Stock | 1 | N/A |
| 119 | Gas Turbines Holyrood GT | 60101094 | PICKUP, MAGNETIC | In Stock | 1 | N/A |
| 120 | Gas Turbines Holyrood GT | 60101095 | SWITCH, OVERSPEED | In Stock | 1 | N/A |
| 121 | Gas Turbines Holyrood GT | 60101099 | TRANSMITTER, GUIDE POSITION | In Stock | 1 | N/A |
| 122 | Gas Turbines Holyrood GT | 60101101 | VALVE, SOLENOID | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------------|--------------|------------------|------------------------|
| 123 | Gas Turbines Holyrood GT | 60101104 | SWITCH, HIGH PRESSURE | In Stock | 1 | N/A |
| 124 | Gas Turbines Holyrood GT | 60101106 | GAUGE, OIL TEMPERATURE | In Stock | 1 | N/A |
| 125 | Gas Turbines Holyrood GT | 60101107 | SWITCH, PRESSURE | In Stock | 1 | N/A |
| 126 | Gas Turbines Holyrood GT | 60101109 | VALVE, PRESSURE CONTROL | In Stock | 1 | N/A |
| 127 | Gas Turbines Holyrood GT | 60101110 | SWITCH, PRESSURE | In Stock | 1 | N/A |
| 128 | Gas Turbines Holyrood GT | 60101111 | INDICATOR, VACUUM PRESSURE | In Stock | 1 | N/A |
| 129 | Gas Turbines Holyrood GT | 60101114 | SWITCH, TEMPERATURE | In Stock | 1 | N/A |
| 130 | Gas Turbines Holyrood GT | 60101115 | SWITCH, PRESSURE | In Stock | 1 | N/A |
| 131 | Gas Turbines Holyrood GT | 60101117 | SENSOR, #1 OVERSPEED TRIP | In Stock | 2 | N/A |
| 132 | Gas Turbines Holyrood GT | 60101119 | SWITCH, MANIFOLD PRESSURE | In Stock | 1 | N/A |
| 133 | Gas Turbines Holyrood GT | 60101120 | SWITCH, DIFFERENTIAL PRESS | In Stock | 2 | N/A |
| 134 | Gas Turbines Holyrood GT | 60101121 | SWITCH, DIFFERENTIAL PRESSURE | In Stock | 1 | N/A |
| 135 | Gas Turbines Holyrood GT | 60101122 | TRANSMITTER, 31 TEMPERATURE | In Stock | 1 | N/A |
| 136 | Gas Turbines Holyrood GT | 60101123 | RTD, #1 PRIMARY SIGNAL | In Stock | 1 | N/A |
| 137 | Gas Turbines Holyrood GT | 60101125 | SWITCH, PRESSURE | In stock | 1 | N/A |
| 138 | Gas Turbines Holyrood GT | 60101126 | SWITCH, LOW ALARM PRESSURE | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-----------------------------|--------------|------------------|------------------------|
| 139 | Gas Turbines Holyrood GT | 60101127 | VALVE, SOLENOID | In stock | 1 | N/A |
| 140 | Gas Turbines Holyrood GT | 60101128 | SWITCH, START STOP PRESSURE | In Stock | 1 | N/A |
| 141 | Gas Turbines Holyrood GT | 60101129 | INDICTATOR, LOW OIL LEVEL | In Stock | 1 | N/A |
| 142 | Gas Turbines Holyrood GT | 60101131 | SWITCH, OIL PUMP PRESSURE | In Stock | 2 | N/A |
| 143 | Gas Turbines Holyrood GT | 60101132 | SWITCH, OIL FLOW | In stock | 2 | N/A |
| 144 | Gas Turbines Holyrood GT | 60101134 | VALVE, AIR BLEED | In Stock | 1 | N/A |
| 145 | Gas Turbines Holyrood GT | 60101135 | SWITCH, DISCH PRESSURE | In Stock | 1 | N/A |
| 146 | Gas Turbines Holyrood GT | 60101137 | TRANSMITTER, LEVEL | In Stock | 1 | N/A |
| 147 | Gas Turbines Holyrood GT | 60101138 | INDICATOR, LEVEL | In Stock | 1 | N/A |
| 148 | Gas Turbines Holyrood GT | 60101139 | TRANSMITTER, PRESSURE | In Stock | 1 | N/A |
| 149 | Gas Turbines Holyrood GT | 60101140 | SWITCH, TEMPERATURE (OFF) | In Stock | 1 | N/A |
| 150 | Gas Turbines Holyrood GT | 60101141 | SWITCH, TEMPERATURE (ON) | In Stock | 1 | N/A |
| 151 | Gas Turbines Holyrood GT | 60101142 | SWITCH, TEMPERATURE | In Stock | 1 | N/A |
| 152 | Gas Turbines Holyrood GT | 60101143 | SWITCH, DIFF. PRESSURE | In Stock | 1 | N/A |
| 153 | Gas Turbines Holyrood GT | 60101144 | THERMOCOUPLE, RESERVOIR | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------|--------------|------------------|------------------------|
| 154 | Gas Turbines Holyrood GT | 60101149 | SWITCH, CHLORINE FLOW | In Stock | 1 | N/A |
| 155 | Gas Turbines Holyrood GT | 60101152 | ACTUATOR, PNEUMATIC | In Stock | 1 | N/A |
| 156 | Gas Turbines Holyrood GT | 60101153 | TRANSMITTER, PRESSURE | In Stock | 1 | N/A |
| 157 | Gas Turbines Holyrood GT | 60101154 | TRANSMITTER, PRESSURE | In Stock | 3 | N/A |
| 158 | Gas Turbines Holyrood GT | 60101155 | INPUT CARD, PLC | In Stock | 1 | N/A |
| 159 | Gas Turbines Holyrood GT | 60101162 | VALVE, BALL | In Stock | 1 | N/A |
| 160 | Gas Turbines Holyrood GT | 60101171 | SWITCH, PRESSURE | In Stock | 1 | N/A |
| 161 | Gas Turbines Holyrood GT | 60101172 | SWITCH, PRESSURE | In Stock | 1 | N/A |
| 162 | Gas Turbines Holyrood GT | 60101173 | MODULE, POWER SWITCH | In Stock | 1 | N/A |
| 163 | Gas Turbines Holyrood GT | 60101174 | ACTUATOR, LOUVER | In stock | 1 | N/A |
| 164 | Gas Turbines Holyrood GT | 60101175 | THERMOSTAT, VENTILATION | In Stock | 1 | N/A |
| 165 | Gas Turbines Holyrood GT | 60101178 | KIT, STACK FITTINGS | In Stock | 1 | N/A |
| 166 | Gas Turbines Holyrood GT | 60101179 | RELAY, SINGLE POLE | In Stock | 2 | N/A |
| 167 | Gas Turbines Holyrood GT | 60101191 | SWITCH, DIFF PRESSURE | In Stock | 1 | N/A |
| 168 | Gas Turbines Holyrood GT | 60800395 | MONITOR, MULTIFUNCTION | In Stock | 1 | N/A |
| 169 | Gas Turbines Holyrood GT | 60800396 | POWER SUPPLY, 24VDC | In stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|--------------------------------|--------------|------------------|------------------------|
| 170 | Gas Turbines Holyrood GT | 60800397 | SENSOR, ORP | In Stock | 1 | N/A |
| 171 | Gas Turbines Holyrood GT | 60900049 | SENSOR, CONDUCTIVITY | In Stock | 1 | N/A |
| 172 | Gas Turbines Holyrood GT | 61100423 | MANIFOLD, PRESSURE TRANSMITTER | In Stock | 1 | N/A |
| 173 | Gas Turbines Holyrood GT | 61100426 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 174 | Gas Turbines Holyrood GT | 61100427 | INDICATOR, BLUE MOISTURE | In Stock | 1 | N/A |
| 175 | Gas Turbines Holyrood GT | 61100428 | THERMOMETER, RESISTANCE | In Stock | 1 | N/A |
| 176 | Gas Turbines Holyrood GT | 61100429 | THERMOCOUPLE, SHELL | In Stock | 1 | N/A |
| 177 | Gas Turbines Holyrood GT | 61100431 | FLOWMETER, TURBINE | In Stock | 1 | N/A |
| 178 | Gas Turbines Holyrood GT | 61100432 | INDICATOR, DISCHG PRESS | In Stock | 1 | N/A |
| 179 | Gas Turbines Holyrood GT | 61100433 | SWITCH, DIFF PRESSURE | In Stock | 1 | N/A |
| 180 | Gas Turbines Holyrood GT | 61100434 | FLOWMETER, MAGNETIC | In Stock | 1 | N/A |
| 181 | Gas Turbines Holyrood GT | 61100435 | TRANSMITTER, TANK LEVEL | In Stock | 1 | N/A |
| 182 | Gas Turbines Holyrood GT | 61100436 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 183 | Gas Turbines Holyrood GT | 61100437 | REGULATOR, SIGNAL PRESSURE | In Stock | 1 | N/A |
| 184 | Gas Turbines Holyrood GT | 61100439 | SOLENOID, BLEED VALVE | In Stock | 1 | N/A |
| 185 | Gas Turbines Holyrood GT | 61100440 | THERMOCOUPLE, BLADE PATH | In Stock | 8 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|---------------------------|--------------|------------------|------------------------|
| 186 | Gas Turbines Holyrood GT | 61100450 | GAUGE, CONVERTER PRESSURE | In Stock | 2 | N/A |
| 187 | Gas Turbines Holyrood GT | 61100451 | GAUGE, CAPSUHELIC | In Stock | 1 | N/A |
| 188 | Gas Turbines Holyrood GT | 61100452 | INDICTATOR, PRESSURE | In Stock | 1 | N/A |
| 189 | Gas Turbines Holyrood GT | 61100453 | INDICTATOR, PRESSURE | In Stock | 1 | N/A |
| 190 | Gas Turbines Holyrood GT | 61100454 | GAUGE, CAPSUHELIC | In Stock | 1 | N/A |
| 191 | Gas Turbines Holyrood GT | 61100455 | TRANSMITTER, PRESSURE | In Stock | 1 | N/A |
| 192 | Gas Turbines Holyrood GT | 61100456 | REGULATOR, PRESSURE | In Stock | 1 | N/A |
| 193 | Gas Turbines Holyrood GT | 61100457 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 194 | Gas Turbines Holyrood GT | 61100458 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 195 | Gas Turbines Holyrood GT | 61100460 | GAUGE, PRESS REGULATING | In Stock | 1 | N/A |
| 196 | Gas Turbines Holyrood GT | 61100463 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 197 | Gas Turbines Holyrood GT | 61100464 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 198 | Gas Turbines Holyrood GT | 61100465 | GAUGE, PRESSURE | In Stock | 1 | N/A |
| 199 | Gas Turbines Holyrood GT | 61100466 | GAUGE, PRESSURE, 0-500PSI | In Stock | 1 | N/A |
| 200 | Gas Turbines Holyrood GT | 61100467 | GAUGE, PRESSURE 0-500PSI | In Stock | 1 | N/A |
| 201 | Gas Turbines Holyrood GT | 61100469 | DIVIDER, FLOW | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------------|--------------|------------------|------------------------|
| 202 | Gas Turbines Holyrood GT | 61900223 | TRANSMITTER, DEW POINT -100F | In Stock | 2 | N/A |
| 203 | Gas Turbines Holyrood GT | 61900225 | MONITOR, GROUND VERIFICATION | In Stock | 1 | N/A |
| 204 | Gas Turbines Holyrood GT | 65000435 | MOTOR, FLAP ACTUATOR | In Stock | 1 | N/A |
| 205 | Gas Turbines Holyrood GT | 65000436 | BRUSH, CARBON MOTOR | In Stock | 1 | N/A |
| 206 | Gas Turbines Holyrood GT | 65000438 | VALVE, SOLENOID | In Stock | 1 | N/A |
| 207 | Gas Turbines Holyrood GT | 65000439 | MOTOR, 10 HP DC TURNING GEAR | In Stock | 1 | N/A |
| 208 | Gas Turbines Holyrood GT | 65000442 | MOTOR, BALDOR | In Stock | 1 | N/A |
| 209 | Gas Turbines Holyrood GT | 65900003 | BRUSH SET, TURNING MOTOR GEAR | In Stock | 5 | N/A |
| 210 | Gas Turbines Holyrood GT | 65900004 | COUPLING, PUMP/MOTOR | In Stock | 1 | N/A |
| 211 | Gas Turbines Holyrood GT | 68601089 | RELAY, DPDT 120VAC | In Stock | 1 | N/A |
| 212 | Gas Turbines Holyrood GT | 68601090 | RELAY, TPDT 120VAC | In Stock | 1 | N/A |
| 213 | Gas Turbines Holyrood GT | 68601093 | CUT-OUT, AUTO | In Stock | 3 | N/A |
| 214 | Gas Turbines Holyrood GT | 70000370 | FUSE, AGC 1A 250V | In Stock | 10 | N/A |
| 215 | Gas Turbines Holyrood GT | 70000373 | FUSE, AGC 3A 250V | In Stock | 10 | N/A |
| 216 | Gas Turbines Holyrood GT | 70000481 | FUSE, POWER CLASS J 45A | In Stock | 10 | N/A |
| 217 | Gas Turbines Holyrood GT | 70000482 | FUSE, PRIMARY 20A | In Stock | 4 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------|--------------|------------------|------------------------|
| 218 | Gas Turbines Holyrood GT | 70000483 | FUSE, SECONDARY 8A | In Stock | 4 | N/A |
| 219 | Gas Turbines Holyrood GT | 70000484 | CONTACTOR, 50A 120VAC | In Stock | 2 | N/A |
| 220 | Gas Turbines Holyrood GT | 70000485 | FUSE, PANEL HEATER 4.5A | In Stock | 3 | N/A |
| 221 | Gas Turbines Holyrood GT | 70000486 | FUSE, AC 25A | In Stock | 4 | N/A |
| 222 | Gas Turbines Holyrood GT | 70000487 | FUSE, SIEMENS PG | In Stock | 2 | N/A |
| 223 | Gas Turbines Holyrood GT | 70000488 | FUSE, 15.0A | In Stock | 10 | N/A |
| 224 | Gas Turbines Holyrood GT | 70000489 | FUSE, 5.0A | In Stock | 20 | N/A |
| 225 | Gas Turbines Holyrood GT | 70000490 | FUSE, 1.0A | In Stock | 10 | N/A |
| 226 | Gas Turbines Holyrood GT | 70000491 | FUSE, 2.0A 300 VDC | In Stock | 10 | N/A |
| 227 | Gas Turbines Holyrood GT | 70000492 | FUSE, 3.0A | In Stock | 20 | N/A |
| 228 | Gas Turbines Holyrood GT | 70000493 | FUSE, 12A | In Stock | 10 | N/A |
| 229 | Gas Turbines Holyrood GT | 70000500 | FUSE, 2AMP | In Stock | 10 | N/A |
| 230 | Gas Turbines Holyrood GT | 70000501 | FUSE, 3AMP GMC-R | In Stock | 10 | N/A |
| 231 | Gas Turbines Holyrood GT | 70000502 | FUSE, 3A E-CELL | In Stock | 2 | N/A |
| 232 | Gas Turbines Holyrood GT | 70000503 | FUSE, 25A E-CELL | In Stock | 2 | N/A |
| 233 | Gas Turbines Holyrood GT | 70000504 | FUSE, 2A E-CELL | In Stock | 2 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-----------------------------|--------------|------------------|------------------------|
| 234 | Gas Turbines Holyrood GT | 70000506 | FUSE, 6A GMC-6A | In Stock | 10 | N/A |
| 235 | Gas Turbines Holyrood GT | 70000507 | FUSE, 1.25A GMC-1.25A | In Stock | 10 | N/A |
| 236 | Gas Turbines Holyrood GT | 70000508 | FUSE, 8A E-CELL | In Stock | 4 | N/A |
| 237 | Gas Turbines Holyrood GT | 70000509 | FUSE, AC PIM | In Stock | 3 | N/A |
| 238 | Gas Turbines Holyrood GT | 74201106 | CONTACT, 1NC BLK | In Stock | 1 | N/A |
| 239 | Gas Turbines Holyrood GT | 74600097 | PILOT LIGHT ASSEMBLY, AMBER | In Stock | 6 | N/A |
| 240 | Gas Turbines Holyrood GT | 74600099 | MODULE, TMR I/O | In Stock | 1 | N/A |
| 241 | Gas Turbines Holyrood GT | 74600100 | MODULE, TMR I/O | In Stock | 1 | N/A |
| 242 | Gas Turbines Holyrood GT | 74600101 | MODULE, PROX/VELOM I/O | In Stock | 1 | N/A |
| 243 | Gas Turbines Holyrood GT | 74600102 | MODULE, PROX/VELOM I/O | In Stock | 1 | N/A |
| 244 | Gas Turbines Holyrood GT | 74600103 | MODULE, SHAFT ABSOLUTE | In Stock | 1 | N/A |
| 245 | Gas Turbines Holyrood GT | 74600104 | MODULE, PROX/SEISMIC | In Stock | 1 | N/A |
| 246 | Gas Turbines Holyrood GT | 74600105 | MODULE, I/O | In Stock | 1 | N/A |
| 247 | Gas Turbines Holyrood GT | 74600106 | MODULE, ABSOLUTE SHAFT | In Stock | 1 | N/A |
| 248 | Gas Turbines Holyrood GT | 74600107 | MODULE, PROX/SEISMIC | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|------------------------|--------------|------------------|------------------------|
| 249 | Gas Turbines Holyrood GT | 74600108 | MODULE, I/O | In Stock | 1 | N/A |
| 250 | Gas Turbines Holyrood GT | 74600109 | MODULE, I/O | In Stock | 1 | N/A |
| 251 | Gas Turbines Holyrood GT | 74600110 | MODULE, PROX/SEISMIC | In Stock | 1 | N/A |
| 252 | Gas Turbines Holyrood GT | 74600111 | MODULE, DISCRETE I/O | In Stock | 1 | N/A |
| 253 | Gas Turbines Holyrood GT | 74600112 | MODULE, SIGNAL OUTPUT | In Stock | 1 | N/A |
| 254 | Gas Turbines Holyrood GT | 74600113 | MODULE, DISCRETE I/O | In Stock | 2 | N/A |
| 255 | Gas Turbines Holyrood GT | 74600114 | LAMP, 115VAC PILOT | In Stock | 6 | N/A |
| 256 | Gas Turbines Holyrood GT | 74600115 | MODULE, 3500/50 | In Stock | 1 | N/A |
| 257 | Gas Turbines Holyrood GT | 80900088 | BULB, TEMP A DRY | In Stock | 1 | N/A |
| 258 | Gas Turbines Holyrood GT | 81200812 | R-DIODE | In Stock | 12 | N/A |
| 259 | Gas Turbines Holyrood GT | 81200813 | F-DIODE | In Stock | 12 | N/A |
| 260 | Gas Turbines Holyrood GT | 81200814 | CAPACITOR ASSEMBLY,RC | In Stock | 1 | N/A |
| 261 | Gas Turbines Holyrood GT | 89200233 | OIL, LUBE | In Stock | 2 | N/A |
| 262 | Gas Turbines Holyrood GT | 92000260 | DESICCANT, 4-8 GRADE D | In Stock | 2 | N/A |
| 263 | Gas Turbines Holyrood GT | 98200194 | DETECTOR, THERMAL | In Stock | 2 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|------------------------|---------------|------------------|------------------------|
| 264 | Gas Turbines Holyrood GT | 98200196 | DETECTOR, THERMAL | In Stock | 1 | N/A |
| 265 | Gas Turbines Holyrood GT | 98200197 | DETECTOR, SMOKE | In Stock | 2 | N/A |
| 266 | Gas Turbines Holyrood GT | 98200200 | DETECTOR, THERMAL | In Stock | 4 | N/A |
| 267 | Gas Turbines Holyrood GT | 3900024 | THERMOSTAT KIT, WR-90 | Order Pending | 0 | TBD |
| 268 | Gas Turbines Holyrood GT | 3900025 | HEATER, 12KW OPEN COIL | Order Pending | 0 | TBD |
| 269 | Gas Turbines Holyrood GT | 3900026 | HEATER, 3PH COMFORT | Order Pending | 0 | TBD |
| 270 | Gas Turbines Holyrood GT | 3900028 | ELEMENT, CHROMOLOX | Order Pending | 0 | TBD |
| 271 | Gas Turbines Holyrood GT | 3900029 | HEATER, CHROMOLOX | Order Pending | 0 | TBD |
| 272 | Gas Turbines Holyrood GT | 37900015 | CABLE, TITAN IGNITER | Order Pending | 0 | TBD |
| 273 | Gas Turbines Holyrood GT | 43900018 | DAMPER, VACUUM CONTROL | Order Pending | 0 | TBD |
| 274 | Gas Turbines Holyrood GT | 54100204 | VALVE, 150# CHECK | Order Pending | 0 | TBD |
| 275 | Gas Turbines Holyrood GT | 54100205 | VALVE, CHECK | Order Pending | 0 | TBD |
| 276 | Gas Turbines Holyrood GT | 54100207 | VALVE, PVC CHECK | Order Pending | 0 | TBD |
| 277 | Gas Turbines Holyrood GT | 54400324 | VALVE, AIR RELIEF | Order Pending | 0 | TBD |
| 278 | Gas Turbines Holyrood GT | 54400325 | VALVE, PRESSURE RELIEF | Order Pending | 0 | TBD |
| 279 | Gas Turbines Holyrood GT | 54500436 | VALVE, SOLENOID | Order Pending | 0 | TBD |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|--------------------------|-------------|-------------------------|---------------|------------------|------------------------|
| 280 | Gas Turbines Holyrood GT | 54600159 | VALVE, 1" SW BALL | Order Pending | 0 | TBD |
| 281 | Gas Turbines Holyrood GT | 54600160 | VALVE, 2" NPT BALL | Order Pending | 0 | TBD |
| 282 | Gas Turbines Holyrood GT | 54600161 | VALVE, 3/8" THD BALL | Order Pending | 0 | TBD |
| 283 | Gas Turbines Holyrood GT | 54600163 | VALVE, 2" PVC BALL | Order Pending | 0 | TBD |
| 284 | Gas Turbines Holyrood GT | 54800070 | VALVE, BUTTERFLY | Order Pending | 0 | TBD |
| 285 | Gas Turbines Holyrood GT | 54900168 | VALVE, TEMP CONTROL | Order Pending | 0 | TBD |
| 286 | Gas Turbines Holyrood GT | 54900170 | VALVE, TEMP CONTROL | Order Pending | 0 | TBD |
| 287 | Gas Turbines Holyrood GT | 54900173 | VALVE, PRESS REGULATING | Order Pending | 0 | TBD |
| 288 | Gas Turbines Holyrood GT | 54900193 | VALVE, INLET SHUFFLE | Order Pending | 0 | TBD |
| 289 | Gas Turbines Holyrood GT | 54900195 | REPAIR KIT, SOLENOID | Order Pending | 0 | TBD |
| 290 | Gas Turbines Holyrood GT | 56200362 | GASKET, FLANGE | Order Pending | 0 | TBD |
| 291 | Gas Turbines Holyrood GT | 56200363 | GASKET, CENTAUR | Order Pending | 0 | TBD |
| 292 | Gas Turbines Holyrood GT | 56500208 | SEAL, MECHANICAL | Order Pending | 0 | TBD |
| 293 | Gas Turbines Holyrood GT | 58400773 | AIR FILTER, SOLAR FINAL | Order Pending | 0 | TBD |
| 294 | Gas Turbines Holyrood GT | 58400776 | PRE-FILTER, SOLAR | Order Pending | 0 | TBD |
| 295 | Gas Turbines Holyrood GT | 58400777 | FILTER, TITAN LUBE OIL | Order Pending | 0 | TBD |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|------------------------------|---------------|------------------|------------------------|
| 296 | Gas Turbines Holyrood GT | 58400779 | FILTER, TITAN FUEL | Order Pending | 0 | TBD |
| 297 | Gas Turbines Holyrood GT | 58400781 | FILTER, HIGH PRESSURE FUEL | Order Pending | 0 | TBD |
| 298 | Gas Turbines Holyrood GT | 58400789 | FILTER, LUBE OIL | Order Pending | 0 | TBD |
| 299 | Gas Turbines Holyrood GT | 58400796 | MICROSWITCH ASSY, FILTER | Order Pending | 0 | TBD |
| 300 | Gas Turbines Holyrood GT | 58608460 | SWITCH, TEMPERATURE | Order Pending | 0 | TBD |
| 301 | Gas Turbines Holyrood GT | 60101078 | TRANSMITTER, GROUND FAULT | Order Pending | 0 | TBD |
| 302 | Gas Turbines Holyrood GT | 60101097 | SWITCH, VALVE OPEN LIMIT | Order Pending | 0 | TBD |
| 303 | Gas Turbines Holyrood GT | 60101100 | SWITCH, VALVE OPEN LIMIT | Order Pending | 0 | TBD |
| 304 | Gas Turbines Holyrood GT | 60101105 | TOWER, LUBE OIL FILTER | Order Pending | 0 | TBD |
| 305 | Gas Turbines Holyrood GT | 60101108 | THERMOCOUPLE, LUBE OIL TEMP | Order Pending | 0 | TBD |
| 306 | Gas Turbines Holyrood GT | 60101116 | PICK UP, GENERATOR SPEED | Order Pending | 0 | TBD |
| 307 | Gas Turbines Holyrood GT | 60101118 | PICK UP, TORQUE CONVERTER SP | Order Pending | 0 | TBD |
| 308 | Gas Turbines Holyrood GT | 60101130 | SWITCH, OIL PUMP PRESSURE | Order Pending | 0 | TBD |
| 309 | Gas Turbines Holyrood GT | 60101136 | INDICATOR, LOOP PRESSURE | Order Pending | 0 | TBD |
| 310 | Gas Turbines Holyrood GT | 60101145 | SWITCH, FLUID LOW LEVEL | Order Pending | 0 | TBD |
| 311 | Gas Turbines Holyrood GT | 60101148 | SPEED CONTROL, NUMATICS | Order Pending | 0 | TBD |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|-------------------------------|---------------|------------------|------------------------|
| 312 | Gas Turbines Holyrood GT | 60101150 | SWITCH, INSULATOR #58-PA | Order Pending | 0 | TBD |
| 313 | Gas Turbines Holyrood GT | 60101151 | SWITCH, STAGER 48-03 | Order Pending | 0 | TBD |
| 314 | Gas Turbines Holyrood GT | 60101161 | VALVE, ACTUATOR | Order Pending | 0 | TBD |
| 315 | Gas Turbines Holyrood GT | 60101164 | SENSOR, VIBRATION | Order Pending | 0 | TBD |
| 316 | Gas Turbines Holyrood GT | 60101170 | SENSOR, VIBRATION | Order Pending | 0 | TBD |
| 317 | Gas Turbines Holyrood GT | 60101176 | SWITCH, TEMPERATURE | Order Pending | 0 | TBD |
| 318 | Gas Turbines Holyrood GT | 60101177 | SENSOR, INLINE FLOW | Order Pending | 0 | TBD |
| 319 | Gas Turbines Holyrood GT | 60101180 | SWITCH, E-CELL PRESSURE | Order Pending | 0 | TBD |
| 320 | Gas Turbines Holyrood GT | 60101181 | SENSOR, E-CELL FLOW | Order Pending | 0 | TBD |
| 321 | Gas Turbines Holyrood GT | 60101182 | ANALYZER, CONDUCTIVITY | Order Pending | 0 | TBD |
| 322 | Gas Turbines Holyrood GT | 60101183 | METER, 30-199.9 MV | Order Pending | 0 | TBD |
| 323 | Gas Turbines Holyrood GT | 60101186 | TRANSMITTER, PRESSURE | Order Pending | 0 | TBD |
| 324 | Gas Turbines Holyrood GT | 60101193 | TRANSMITTER, PRESSURE | Order Pending | 0 | TBD |
| 325 | Gas Turbines Holyrood GT | 60800398 | PREAMPLIFIER, ORP | Order Pending | 0 | TBD |
| 326 | Gas Turbines Holyrood GT | 61100424 | THERMOCOUPLE ASSEMBLY, TYPE J | Order Pending | 0 | TBD |
| 327 | Gas Turbines Holyrood GT | 61100425 | THERMOCOUPLE, TYPE K | Order Pending | 0 | TBD |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|---------------------------|---------------|------------------|------------------------|
| 328 | Gas Turbines Holyrood GT | 61100430 | RTD, AIR TEMPERATURE | Order Pending | 0 | TBD |
| 329 | Gas Turbines Holyrood GT | 61100438 | THERMOCOUPLE, EXHAUST | Order Pending | 0 | TBD |
| 330 | Gas Turbines Holyrood GT | 61100441 | THERMOCOUPLE, DISC CAVITY | Order Pending | 0 | TBD |
| 331 | Gas Turbines Holyrood GT | 61100442 | GAUGE, DIAL PRESSURE | Order Pending | 0 | TBD |
| 332 | Gas Turbines Holyrood GT | 61100443 | VALVE, CONTROL | Order Pending | 0 | TBD |
| 333 | Gas Turbines Holyrood GT | 61100444 | VALVE, CONTROL | Order Pending | 0 | TBD |
| 334 | Gas Turbines Holyrood GT | 61100445 | TRANSMITTER, OIL PRESSURE | Order Pending | 0 | TBD |
| 335 | Gas Turbines Holyrood GT | 61100447 | INDICATOR, OIL LEVEL | Order Pending | 0 | TBD |
| 336 | Gas Turbines Holyrood GT | 61100448 | THERMOCOUPLE, TEMPERATURE | Order Pending | 0 | TBD |
| 337 | Gas Turbines Holyrood GT | 61100449 | THERMOCOUPLE, TEMPERATURE | Order Pending | 0 | TBD |
| 338 | Gas Turbines Holyrood GT | 61100459 | GAUGE, PRESSURE | Order Pending | 0 | TBD |
| 339 | Gas Turbines Holyrood GT | 61100468 | THERMOSTAT, AC#1 | Order Pending | 0 | TBD |
| 340 | Gas Turbines Holyrood GT | 65000437 | ACTUATOR, AUMA | Order Pending | 0 | TBD |
| 341 | Gas Turbines Holyrood GT | 74201105 | CONTACT, BRUSH | Order Pending | 0 | TBD |
| 342 | Gas Turbines Holyrood GT | 74600098 | SWITCH, AUXILIARY | Order Pending | 0 | TBD |
| 343 | Gas Turbines Holyrood GT | 88600152 | OIL, COMPRESSOR | Order Pending | 0 | TBD |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|-----------------------------|-------------|---|---------------|------------------|------------------------|
| 344 | Gas Turbines Holyrood GT | 98200195 | DETECTOR, THERMAL | Order Pending | 0 | TBD |
| 345 | Gas Turbines Holyrood GT | 98200198 | ALARM, TROUBLE | Order Pending | 0 | TBD |
| 346 | Gas Turbines Holyrood GT | 98200199 | ALARM, PANEL DISCHARGE | Order Pending | 0 | TBD |
| 347 | Gas Turbines Holyrood GT | 54900171 | VALVE, COMPRESSOR BLEED | Capital | 0 | TBD |
| 348 | Gas Turbines Holyrood GT | 54900172 | VALVE, COMPRESSOR BLEED | Capital | 0 | TBD |
| 349 | Gas Turbines Holyrood GT | 60101192 | ACTUATOR, DEMAND CONTROL | Capital | 0 | TBD |
| 350 | Gas Turbines | | High Energy Ignition Unit, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 351 | Gas Turbines | | Fire Fuel Shutoff Valve (LF-8), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 352 | Gas Turbines | | Bearing (494047), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 353 | Gas Turbines | | Bearing (494056), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 354 | Gas Turbines | | Vibration Transducer, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 355 | Gas Turbines | | Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 356 | Gas Turbines | | Fuel Filter, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 357 | Gas Turbines | | Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 358 | Gas Turbines | | Filter (494064), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 359 | Gas Turbines | | Proximity Switch, Clutch, Prime Mover Systems | In Stock | 1 | N/A |
| 360 | Gas Turbines | | Altair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 361 | Gas Turbines | | Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 362 | Gas Turbines | | Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 363 | Gas Turbines | | Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 364 | Gas Turbines | | Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 365 | Gas Turbines | | Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 366 | Gas Turbines | | Valve (181536), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 367 | Gas Turbines | | Primary Ratchet Ring, Clutch, Prime Mover Systems; A side | In Stock | 1 | N/A |
| 368 | Gas Turbines | | Primary Ratchet Ring, Clutch, Prime Mover Systems; B side | In Stock | 1 | N/A |
| 369 | Gas Turbines | | Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side | In Stock | 1 | N/A |
| 370 | Gas Turbines | | Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side | In Stock | 1 | N/A |
| 371 | Gas Turbines | | Ring that the Primary Pawl and spring are installed | In Stock | 1 | N/A |
| 372 | Gas Turbines | | Primary Pawl Spring, Clutch, Prime Mover Systems | In Stock | 1 | N/A |
| 373 | Gas Turbines | | Primary Pawl, Clutch, Prime Mover Systems | In Stock | 1 | N/A |
| 374 | Gas Turbines | | Secondary Pawl, Clutch, Prime Mover Systems | In Stock | 1 | N/A |
| 375 | Gas Turbines | | Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT | In Stock | 1 | N/A |
| 376 | Gas Turbines | | NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |
| 377 | Gas Turbines | | NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 378 | Gas Turbines | | Starter Control Valve (CA-17), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |
| 379 | Gas Turbines | | 3-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems | In Stock | 1 | N/A |
| 380 | Gas Turbines | | Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 381 | Gas Turbines | | Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 382 | Gas Turbines | | Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 383 | Gas Turbines | | Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 384 | Gas Turbines | | Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 385 | Gas Turbines | | Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 386 | Gas Turbines | | Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 387 | Gas Turbines | | Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 388 | Gas Turbines | | Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 389 | Gas Turbines | | Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 390 | Gas Turbines | | Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 391 | Gas Turbines | | Prefilter, Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 392 | Gas Turbines | | Supplemental Fuel Filter (F-LF-5), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 393 | Gas Turbines | | High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|--|--------------|------------------|------------------------|
| 394 | Gas Turbines | | Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 395 | Gas Turbines | | Unloading Filter, Liquid Fuel System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 396 | Gas Turbines | | Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 397 | Gas Turbines | | Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 398 | Gas Turbines | | P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 399 | Gas Turbines | | Common Drain Clutch A Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 400 | Gas Turbines | | Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 401 | Gas Turbines | | Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 402 | Gas Turbines | | Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 403 | Gas Turbines | | Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 404 | Gas Turbines | | Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |
| 405 | Gas Turbines | | Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 406 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 1 Thermocouple (TC-LO-4), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 407 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 2 Thermocouple (TC-LO-5), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 408 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 3 Thermocouple (TC-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 409 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 4 Thermocouple (TC-LO-7), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 410 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 5 Thermocouple (TC-LO-8), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 411 | Gas Turbines | | Oil Drain Alternator Clutch Bearing 6 Thermocouple (TC-LO-9), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 412 | Gas Turbines | | Oil Drain Exciter Bearing 7 Thermocouple (TC-LO-10), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 413 | Gas Turbines | | Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 414 | Gas Turbines | | Oil Supply Thermocouple (TC-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 415 | Gas Turbines | | Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 416 | Gas Turbines | | Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 417 | Gas Turbines | | Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 418 | Gas Turbines | | Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |
| 419 | Gas Turbines | | Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 420 | Gas Turbines | | Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | 1 | N/A |
| 421 | Gas Turbines | | Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | 1 | N/A |
| 422 | Gas Turbines | | NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems | In Stock | 1 | N/A |
| 423 | Gas Turbines | | Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 424 | Gas Turbines | | Combustion Chamber, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 425 | Gas Turbines | | Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 426 | Gas Turbines | | Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 427 | Gas Turbines | | Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 428 | Gas Turbines | | Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems | In Stock | 1 | N/A |
| 429 | Gas Turbines | | Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems | In Stock | 1 | N/A |
| 430 | Gas Turbines | | Bearing (181413 or 181332), Power Turbine Model CT2, Prime Mover Systems | In Stock | 1 | N/A |
| 431 | Gas Turbines | | Fuel Pump Servo Valve (SV-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 432 | Gas Turbines | | Low Trip Pressure Switch (PS-LO-7), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 433 | Gas Turbines | | Start Permissive Pressure Switch (PS-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 434 | Gas Turbines | | Pressure Switch, Permissive Start - Low Pressure Alarm (PS-LF-2), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 435 | Gas Turbines | | Pressure Switch, Trip - Low Fuel Pressure (PS-LF-3), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 436 | Gas Turbines | | Low Oil Pressure Switch (PS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 437 | Gas Turbines | | Filter Differential Pressure Switch (PSD-LO-1), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 438 | Gas Turbines | | Filter Upstream Pressure Switch (PS-GGLO-3), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 439 | Gas Turbines | | Pre-filter Differential Pressure Switch (PSD-LF-2), Liquid Fuel System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 440 | Gas Turbines | | AC Pump Discharge Fuel Pressure Switch (PS-LF-4), Liquid Fuel System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 441 | Gas Turbines | | DC Pump Start Pressure Switch (PS-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 442 | Gas Turbines | | DC Pump Start Pressure Switch (PS-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 443 | Gas Turbines | | DC Pump Start Pressure Switch (PS-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT | In Stock | 1 | N/A |
| 444 | Gas Turbines | | Low Oil Pressure Switch (PS-GGLO-2), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 445 | Gas Turbines | | Pressure Switch (PS-HO-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 446 | Gas Turbines | | Inertial Filter Element, Filter Box - Curtiss Wright, Prime Mover Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|--|--------------|------------------|------------------------|
| 447 | Gas Turbines | | Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 448 | Gas Turbines | | Oil to Clutch B Pressure Transducer (PT-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 449 | Gas Turbines | | Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |
| 450 | Gas Turbines | | Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 451 | Gas Turbines | | Oil Pump - Complete, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 452 | Gas Turbines | | Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 453 | Gas Turbines | | Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 454 | Gas Turbines | | Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 455 | Gas Turbines | | HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 456 | Gas Turbines | | LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems | In Stock | 1 | N/A |
| 457 | Gas Turbines | | Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems | In Stock | 1 | N/A |
| 458 | Gas Turbines | | Level Switch (LS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 459 | Gas Turbines | | Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 460 | Gas Turbines | | Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems | In Stock | 1 | N/A |
| 461 | Gas Turbines | | Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | 1 | N/A |

Appendix F:
Critical Spares Status for Gas Turbines

| # | Operational Area | Part Number | Description | Stock Status | Quantity on Hand | Expected Delivery Date |
|-----|------------------|-------------|---|--------------|------------------|------------------------|
| 462 | Gas Turbines | | Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | 1 | N/A |
| 463 | Gas Turbines | | Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | 1 | N/A |
| 464 | Gas Turbines | | Proximity Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT | In Stock | 1 | N/A |

Summary of Gas Turbine Critical Spares:

In Stock 368

On Order 13

Order Pending 80

Capital 3

Grand Total 464

Appendix G

Critical Spares Status Listing – Hydraulic Generation

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|---|--------------|------------|------------------------|
| 1 | Hydraulic Generation | | BDE - INTAKE STRUCTURE NO. 1 - TRANSMITTER,PRESS 0-6MH20 | In Stock | MEDIUM | N/A |
| 2 | Hydraulic Generation | | BDE - PENSTOCK NO. 1 - TRANSMITTER,PRESS 0-375 | In Stock | MEDIUM | N/A |
| 3 | Hydraulic Generation | | BDE - PENSTOCK NO. 2 - TRANSMITTER,PRESS 0-375 | In Stock | MEDIUM | N/A |
| 4 | Hydraulic Generation | | BDE - PENSTOCK NO. 3 - TRANSMITTER,PRESS 0-375 | In Stock | MEDIUM | N/A |
| 5 | Hydraulic Generation | | BDE - PENSTOCK NO. 4 - TRANSMITTER,PRESS 0-375 | In Stock | MEDIUM | N/A |
| 6 | Hydraulic Generation | | BDE - TURBINE - Turbine Carbon Seal (Units 1 to 4) | In Stock | HIGH | N/A |
| 7 | Hydraulic Generation | | BDE - TURBINE - Turbine Carobn Seal (Units 5 & 6) | In Stock | HIGH | N/A |
| 8 | Hydraulic Generation | | BDE - WICKET GATES AND LINKAGES - Shear Pins | In Stock | MEDIUM | N/A |
| 9 | Hydraulic Generation | | BDE - WICKET GATES AND LINKAGES - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 10 | Hydraulic Generation | | BDE - WICKET GATES AND LINKAGES - PIN,ECCENTRIC | In Stock | MEDIUM | N/A |
| 11 | Hydraulic Generation | | BDE - WICKET GATES AND LINKAGES - RING,PISTON SERVO MOTOR 18"OD | In Stock | HIGH | N/A |
| 12 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - XFMR,CT 13.8KV | In Stock | HIGH | N/A |
| 13 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - XFMR,CT 1000: | In Stock | HIGH | N/A |
| 14 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - XFMR,PT 14400KV | In Stock | HIGH | N/A |
| 15 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - XFMR,CT 30332313 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|---|--------------|------------|------------------------|
| 16 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - XFMR,CT 800:5 | In Stock | HIGH | N/A |
| 17 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - CT 50/51 | In Stock | HIGH | N/A |
| 18 | Hydraulic Generation | | BDE - GATE HOIST - BAY D'ESPOIR - ST - Remote I/O Adapter | In Stock | MEDIUM | N/A |
| 19 | Hydraulic Generation | | BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER HEAD COVER P003 | In Stock | HIGH | N/A |
| 20 | Hydraulic Generation | | BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER WICKET | In Stock | HIGH | N/A |
| 21 | Hydraulic Generation | | BDE - RUNNER - UNIT 1 - BOLT,SHAFT TO RUNNER | In Stock | HIGH | N/A |
| 22 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,AN | In Stock | MEDIUM | N/A |
| 23 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,CPU | In Stock | MEDIUM | N/A |
| 24 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,DIS | In Stock | MEDIUM | N/A |
| 25 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,DIS | In Stock | MEDIUM | N/A |
| 26 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,ETH | In Stock | MEDIUM | N/A |
| 27 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,GP | In Stock | MEDIUM | N/A |
| 28 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,HO | In Stock | MEDIUM | N/A |
| 29 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,INT | In Stock | MEDIUM | N/A |
| 30 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,RA | In Stock | MEDIUM | N/A |
| 31 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - MODULE,REL | In Stock | MEDIUM | N/A |

**Appendix G:
Critical Spares Status for Hydraulic Generation**

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|---|--------------|------------|------------------------|
| 32 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - POWER SUPP | In Stock | MEDIUM | N/A |
| 33 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - POWER SUPP | In Stock | MEDIUM | N/A |
| 34 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - POWER SUPP | In Stock | MEDIUM | N/A |
| 35 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - POWER SUPP | In Stock | MEDIUM | N/A |
| 36 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - REMOTE I/O | In Stock | MEDIUM | N/A |
| 37 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - ADAPTER,REI | In Stock | MEDIUM | N/A |
| 38 | Hydraulic Generation | | BDE - PLC,Model Quantum- Modicon - BACKPLANE,; | In Stock | MEDIUM | N/A |
| 39 | Hydraulic Generation | | BDE - STATION SERVICE - BDE PH1 - ACB | In Stock | HIGH | N/A |
| 40 | Hydraulic Generation | | BDE - STATION SERVICE - BDE PH1 - Trip Unit - Breker control device | In Stock | HIGH | N/A |
| 41 | Hydraulic Generation | | BDE - ROTOR SHAFT - Rotating Ring | In Stock | HIGH | N/A |
| 42 | Hydraulic Generation | | BDE - STATOR ASSEMBLY - BAR,COPPER 1/2"X2"X10' | In Stock | HIGH | N/A |
| 43 | Hydraulic Generation | | BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION | In Stock | HIGH | N/A |
| 44 | Hydraulic Generation | | BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION | In Stock | HIGH | N/A |
| 45 | Hydraulic Generation | | BDE - STATOR ASSEMBLY - BAR,STATOR | In Stock | HIGH | N/A |
| 46 | Hydraulic Generation | | BDE - STATOR ASSEMBLY - BAR,STATOR | In Stock | HIGH | N/A |
| 47 | Hydraulic Generation | | BDE - SPILLWAY #1-SALMON RIVE - Lift gearboxes/nuts | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|---|--------------|------------|------------------------|
| 48 | Hydraulic Generation | | BDE - INTAKE GATE - BACKPLANE,6 SLOT MODICON | In Stock | MEDIUM | N/A |
| 49 | Hydraulic Generation | | BDE - DISCONNECT SWITCH 29-1 - Complete Unit | In Stock | HIGH | N/A |
| 50 | Hydraulic Generation | | BDE - Generator SLIPRING/BRUSH RIGGING - Carbon Brushes | In Stock | MEDIUM | N/A |
| 51 | Hydraulic Generation | | BDE - Generator SLIPRING/BRUSH RIGGING - Brush Holders | In Stock | MEDIUM | N/A |
| 52 | Hydraulic Generation | | BDE - Generator SLIPRING/BRUSH RIGGING - Slip Ring | In Stock | HIGH | N/A |
| 53 | Hydraulic Generation | | BDE - TURBINE GUIDE BEARING - Bearing | In Stock | HIGH | N/A |
| 54 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE200130R0001 | In Stock | HIGH | N/A |
| 55 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE205011R0001 | In Stock | HIGH | N/A |
| 56 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE205012R0001 | In Stock | HIGH | N/A |
| 57 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE205014R0001 | In Stock | HIGH | N/A |
| 58 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE300661R0001 | In Stock | HIGH | N/A |
| 59 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE300686R0001 | In Stock | HIGH | N/A |
| 60 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE300690R0001 | In Stock | HIGH | N/A |
| 61 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE300698R0001 | In Stock | HIGH | N/A |
| 62 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE300766R0001 | In Stock | HIGH | N/A |
| 63 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE305043R0001 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|--|--------------|------------|------------------------|
| 64 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE305069R0001 | In Stock | HIGH | N/A |
| 65 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE30598R1 | In Stock | HIGH | N/A |
| 66 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - CARD,ABB HIEE401481RD001 | In Stock | HIGH | N/A |
| 67 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - COIL,ABB HIER464920P1 | In Stock | HIGH | N/A |
| 68 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - MAINBOARD,ABB HIER465176R22 | In Stock | HIGH | N/A |
| 69 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651- | In Stock | HIGH | N/A |
| 70 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651- | In Stock | HIGH | N/A |
| 71 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - RESISTOR,FIELD DISCHARGE | In Stock | HIGH | N/A |
| 72 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - SHUNT,ABB UXAB269330R909 | In Stock | HIGH | N/A |
| 73 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - VARISTOR,ABB 3ACD5245A003 | In Stock | HIGH | N/A |
| 74 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - BREAKER,ABB HIER466757P2331 (entire unit) | In Stock | HIGH | N/A |
| 75 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - SHUNT,ABB UXAB269350R909 | In Stock | HIGH | N/A |
| 76 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239Z60R002 | In Stock | HIGH | N/A |
| 77 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239299R0003 | In Stock | HIGH | N/A |
| 78 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB269399R032 | In Stock | HIGH | N/A |
| 79 | Hydraulic Generation | | BDE - FIELD BREAKER QO2 - PANEL EE - ARC-CHUTE,ABB UXAB269399R012 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|----|----------------------|-------------|---|--------------|------------|------------------------|
| 80 | Hydraulic Generation | | BDE - GENERATOR - CREEP DETECTOR ASSY,129 VCD | In Stock | HIGH | N/A |
| 81 | Hydraulic Generation | | BDE - GENERATOR - PLATES,BRAKE (24 PER SET) | In Stock | HIGH | N/A |
| 82 | Hydraulic Generation | | BDE - GENERATOR - SWITCH,WOODWARD 8935-139 | In Stock | HIGH | N/A |
| 83 | Hydraulic Generation | | BDE - Exciter POWER ELECTRONICS - Pulse Transformers | In Stock | MEDIUM | N/A |
| 84 | Hydraulic Generation | | BDE - Exciter POWER ELECTRONICS - BRIDGE,ABB S00772 | In Stock | HIGH | N/A |
| 85 | Hydraulic Generation | | BDE - Exciter POWER ELECTRONICS - FUSE,ABB 6,6URD32TTF0800 | In Stock | MEDIUM | N/A |
| 86 | Hydraulic Generation | | BDE - Exciter POWER ELECTRONICS - FAN ASSY,ABB 500773 | In Stock | HIGH | N/A |
| 87 | Hydraulic Generation | | BDE - Exciter POWER ELECTRONICS - THYRISTOR,ABB 5STP27F1200 | In Stock | HIGH | N/A |
| 88 | Hydraulic Generation | | BDE - RECTIFYING TRANSFORMER - Full Unit | In Stock | HIGH | N/A |
| 89 | Hydraulic Generation | | BDE - SURFACE AIR COOLERS - SAC Unit | In Stock | MEDIUM | N/A |
| 90 | Hydraulic Generation | | BDE - SURFACE AIR COOLERS - Tubes | In Stock | MEDIUM | N/A |
| 91 | Hydraulic Generation | | BDE - THRUST/GUIDE BEARING COOLERS - Cooler | In Stock | HIGH | N/A |
| 92 | Hydraulic Generation | | BDE - ROTOR POLES - Pole | In Stock | HIGH | N/A |
| 93 | Hydraulic Generation | | BDE - STATOR WINDINGS - UNIT 1 - CONNECTOR,STATOR CU | In Stock | HIGH | N/A |
| 94 | Hydraulic Generation | | BDE - STATOR WINDINGS - UNIT 1 to 4 - Coils | In Stock | HIGH | N/A |
| 95 | Hydraulic Generation | | BDE - THRUST/GUIDE BEARING ASSEMBLY - Springs | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 96 | Hydraulic Generation | | BDE - THRUST/GUIDE BEARING ASSEMBLY - Oil | In Stock | MEDIUM | N/A |
| 97 | Hydraulic Generation | | BDE - THRUST/GUIDE BEARING ASSEMBLY - TRANSMITTER,DIFF | In Stock | MEDIUM | N/A |
| 98 | Hydraulic Generation | | BDE - GOVERNOR - BEARING,DASHPOT LINK | In Stock | HIGH | N/A |
| 99 | Hydraulic Generation | | BDE - GOVERNOR - BRACKET,WOODWARD 11002-57 | In Stock | HIGH | N/A |
| 100 | Hydraulic Generation | | BDE - GOVERNOR - BRACKET,WOODWARD 91588 | In Stock | HIGH | N/A |
| 101 | Hydraulic Generation | | BDE - GOVERNOR - BUSHING,PILOT VALVE | In Stock | HIGH | N/A |
| 102 | Hydraulic Generation | | BDE - GOVERNOR - BUSHING,SNAP ACTION | In Stock | HIGH | N/A |
| 103 | Hydraulic Generation | | BDE - GOVERNOR - BUSHING,WW 11002-65 | In Stock | HIGH | N/A |
| 104 | Hydraulic Generation | | BDE - GOVERNOR - BUSHING, DASHPOT - SMALL | In Stock | HIGH | N/A |
| 105 | Hydraulic Generation | | BDE - GOVERNOR - BUSHING, DASHPOT - LARGE | In Stock | HIGH | N/A |
| 106 | Hydraulic Generation | | BDE - GOVERNOR - CABLE,AIRCRAFT 1/4 187083 | In Stock | HIGH | N/A |
| 107 | Hydraulic Generation | | BDE - GOVERNOR - CLIP,WW 11002-16 | In Stock | HIGH | N/A |
| 108 | Hydraulic Generation | | BDE - GOVERNOR - COIL,DASHPOT | In Stock | HIGH | N/A |
| 109 | Hydraulic Generation | | BDE - GOVERNOR - COIL,PARTIAL SHUTDOWN RESET | In Stock | HIGH | N/A |
| 110 | Hydraulic Generation | | BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID | In Stock | HIGH | N/A |
| 111 | Hydraulic Generation | | BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID 65SD | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 112 | Hydraulic Generation | | BDE - GOVERNOR - COIL,WW 202132 | In Stock | HIGH | N/A |
| 113 | Hydraulic Generation | | BDE - GOVERNOR - CONTACT,CONTACTOR-TYPE DG- | In Stock | HIGH | N/A |
| 114 | Hydraulic Generation | | BDE - GOVERNOR - DASHPOT,WW 161314 | In Stock | HIGH | N/A |
| 115 | Hydraulic Generation | | BDE - GOVERNOR - DIODE,WW 202891 | In Stock | HIGH | N/A |
| 116 | Hydraulic Generation | | BDE - GOVERNOR - DISC,RELIEF VALVE | In Stock | HIGH | N/A |
| 117 | Hydraulic Generation | | BDE - GOVERNOR - DISC,UNLOADER | In Stock | HIGH | N/A |
| 118 | Hydraulic Generation | | BDE - GOVERNOR - GASKET KIT,WOODWARD 8926-137 | In Stock | HIGH | N/A |
| 119 | Hydraulic Generation | | BDE - GOVERNOR - GASKET,WOODWARD 1327-816 | In Stock | HIGH | N/A |
| 120 | Hydraulic Generation | | BDE - GOVERNOR - GASKET,WOODWARD 206317 | In Stock | HIGH | N/A |
| 121 | Hydraulic Generation | | BDE - GOVERNOR - LEVER,CONNECTING LOWER | In Stock | HIGH | N/A |
| 122 | Hydraulic Generation | | BDE - GOVERNOR - LEVER,LOWER FLOATING | In Stock | HIGH | N/A |
| 123 | Hydraulic Generation | | BDE - GOVERNOR - LEVER,UPPER FLOATING | In Stock | HIGH | N/A |
| 124 | Hydraulic Generation | | BDE - GOVERNOR - LINK,WOODWARD 070346 | In Stock | HIGH | N/A |
| 125 | Hydraulic Generation | | BDE - GOVERNOR - LOCKWASHER,BEARING | In Stock | HIGH | N/A |
| 126 | Hydraulic Generation | | BDE - GOVERNOR - MOTOR ASSY,C/W SHAFT & GEAR | In Stock | HIGH | N/A |
| 127 | Hydraulic Generation | | BDE - GOVERNOR - MOTOR ASSY,GATE LIMIT | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 128 | Hydraulic Generation | | BDE - GOVERNOR - MOTOR,GOVERNOR SPEED 28 VOLT | In Stock | HIGH | N/A |
| 129 | Hydraulic Generation | | BDE - GOVERNOR - MOTOR,SYNCHRONIZING | In Stock | HIGH | N/A |
| 130 | Hydraulic Generation | | BDE - GOVERNOR - MOTOR, VIBRATING OIL | In Stock | HIGH | N/A |
| 131 | Hydraulic Generation | | BDE - GOVERNOR - FILTER,HYD 932633Q | In Stock | HIGH | N/A |
| 132 | Hydraulic Generation | | BDE - GOVERNOR - PIN,BALLARM | In Stock | HIGH | N/A |
| 133 | Hydraulic Generation | | BDE - GOVERNOR - PIN,DASHPOT | In Stock | HIGH | N/A |
| 134 | Hydraulic Generation | | BDE - GOVERNOR - PIN,LOWER DRIVE | In Stock | HIGH | N/A |
| 135 | Hydraulic Generation | | BDE - GOVERNOR - PIN,PIVOT | In Stock | HIGH | N/A |
| 136 | Hydraulic Generation | | BDE - GOVERNOR - PIN,WOODWARD 11002-71 | In Stock | HIGH | N/A |
| 137 | Hydraulic Generation | | BDE - GOVERNOR - PIN,WOODWARD 11002-75 | In Stock | HIGH | N/A |
| 138 | Hydraulic Generation | | BDE - GOVERNOR - PLUNGER,SNAP ACTION | In Stock | HIGH | N/A |
| 139 | Hydraulic Generation | | BDE - GOVERNOR - POTENTIOMETER,1250OH 0.24A | In Stock | HIGH | N/A |
| 140 | Hydraulic Generation | | BDE - GOVERNOR - PUMP,OIL IMO A3DB-275 | In Stock | HIGH | N/A |
| 141 | Hydraulic Generation | | BDE - GOVERNOR - RETAINER,SWITCH | In Stock | HIGH | N/A |
| 142 | Hydraulic Generation | | BDE - GOVERNOR - RING,SNAP (PILOT SERVO PLUG) | In Stock | HIGH | N/A |
| 143 | Hydraulic Generation | | BDE - GOVERNOR - ROTOR,BALL HEAD MOTOR | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 144 | Hydraulic Generation | | BDE - GOVERNOR - SOLENOID,125 V DC | In Stock | HIGH | N/A |
| 145 | Hydraulic Generation | | BDE - GOVERNOR - SOLENOID,125VDC 211E | In Stock | HIGH | N/A |
| 146 | Hydraulic Generation | | BDE - GOVERNOR - SPRING,PILOT VALVE LINK | In Stock | HIGH | N/A |
| 147 | Hydraulic Generation | | BDE - GOVERNOR - SPRING,RELIEF | In Stock | HIGH | N/A |
| 148 | Hydraulic Generation | | BDE - GOVERNOR - SPRING,UNLOADER | In Stock | HIGH | N/A |
| 149 | Hydraulic Generation | | BDE - GOVERNOR - STATOR,BALL HEAD MOTOR | In Stock | HIGH | N/A |
| 150 | Hydraulic Generation | | BDE - GOVERNOR - SWITCH,PRESS OIL ALARM | In Stock | HIGH | N/A |
| 151 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BEARING,SP | In Stock | MEDIUM | N/A |
| 152 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY | In Stock | HIGH | N/A |
| 153 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - PIN,DOWEL | In Stock | MEDIUM | N/A |
| 154 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - PLATE,MOU | In Stock | HIGH | N/A |
| 155 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - RING,ROTO | In Stock | HIGH | N/A |
| 156 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - PIN,ROCKE | In Stock | HIGH | N/A |
| 157 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BEARING,W | In Stock | MEDIUM | N/A |
| 158 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BEARING,W | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 159 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BEARING,PM | In Stock | MEDIUM | N/A |
| 160 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - PIN,BALLARM | In Stock | HIGH | N/A |
| 161 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BUSHING,U | In Stock | MEDIUM | N/A |
| 162 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BUSHING,U | In Stock | MEDIUM | N/A |
| 163 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - BALLARM,SI | In Stock | HIGH | N/A |
| 164 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - PIN,TAPERED | In Stock | MEDIUM | N/A |
| 165 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - SPRING,SPE | In Stock | HIGH | N/A |
| 166 | Hydraulic Generation | | BDE - GOVERNOR SPEED GENERATOR - STATOR,P.M | In Stock | HIGH | N/A |
| 167 | Hydraulic Generation | | BDE - GUIDE BEARING SEGMENTS - bearing segments, | In Stock | HIGH | N/A |
| 168 | Hydraulic Generation | | BDE - THRUST BEARING SEGMENTS - bearing segments, | In Stock | HIGH | N/A |
| 169 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - FILTER,HYD 932633Q | In Stock | HIGH | N/A |
| 170 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,BALLARM | In Stock | HIGH | N/A |
| 171 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,DASHPOT | In Stock | HIGH | N/A |
| 172 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,LOWER DRIVE | In Stock | HIGH | N/A |
| 173 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,PIVOT | In Stock | HIGH | N/A |
| 174 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,ROCKER ARM | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 175 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-71 | In Stock | HIGH | N/A |
| 176 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-75 | In Stock | HIGH | N/A |
| 177 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PLUNGER,SNAP ACTION | In Stock | HIGH | N/A |
| 178 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - POTENTIOMETER,1250OH 0.24A | In Stock | HIGH | N/A |
| 179 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - PUMP,OIL IMO A3DB-275 | In Stock | HIGH | N/A |
| 180 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - RETAINER,SWITCH | In Stock | MEDIUM | N/A |
| 181 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - RING,SNAP (PILOT SERVO PLUG) | In Stock | HIGH | N/A |
| 182 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - ROTOR,BALL HEAD MOTOR | In Stock | HIGH | N/A |
| 183 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SENSOR,LOAD GOVERNOR | In Stock | HIGH | N/A |
| 184 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SOLENOID,125 V DC | In Stock | HIGH | N/A |
| 185 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SOLENOID,125VDC 211E | In Stock | HIGH | N/A |
| 186 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SPRING,PILOT VALVE LINK | In Stock | HIGH | N/A |
| 187 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - STATOR,BALL HEAD MOTOR | In Stock | HIGH | N/A |
| 188 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SWITCH,PRESS OIL ALARM | In Stock | HIGH | N/A |
| 189 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - STATOR,PERMANENT MAGNET | In Stock | HIGH | N/A |
| 190 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - SPRING,SPEED SWITCH | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 191 | Hydraulic Generation | | BDE - UNIT 7 TURBINE - Carbon Seal | In Stock | HIGH | N/A |
| 192 | Hydraulic Generation | | BDE - UNIT 7 TURBINE - wicket gate | In Stock | HIGH | N/A |
| 193 | Hydraulic Generation | | BDE - UNIT 7 TURBINE - turbine bearing | In Stock | HIGH | N/A |
| 194 | Hydraulic Generation | | BDE - Unit 7 DRAFT TUBE-TURBINE - Water Level Probe | In Stock | MEDIUM | N/A |
| 195 | Hydraulic Generation | | BDE - Unit 7 HEADCOVER ASSEMBLY - BOTTOM RING P001 bushing | In Stock | HIGH | N/A |
| 196 | Hydraulic Generation | | BDE - Unit 7 HEADCOVER ASSEMBLY - BUSHING,LOWER HEAD COVER P001 | In Stock | HIGH | N/A |
| 197 | Hydraulic Generation | | BDE - Unit 7 HEADCOVER ASSEMBLY - PACKING,V-TYPE 3/8 EASY | In Stock | MEDIUM | N/A |
| 198 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - Linkage | In Stock | HIGH | N/A |
| 199 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - BUSHING,LINK PIN | In Stock | MEDIUM | N/A |
| 200 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - CAP,SHEARPIN | In Stock | MEDIUM | N/A |
| 201 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - PIN,ECCENTRIC P005 | In Stock | MEDIUM | N/A |
| 202 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - PIN,LINK P006 | In Stock | MEDIUM | N/A |
| 203 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - PIN,ROD SHEARPIN | In Stock | MEDIUM | N/A |
| 204 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - PIN,UPPER DRIVE | In Stock | MEDIUM | N/A |
| 205 | Hydraulic Generation | | BDE - Unit 7 OPERATING RING - LEVER,WICKET GATE | In Stock | HIGH | N/A |
| 206 | Hydraulic Generation | | BDE - Unit 7 ROTOR ASSEMBLY - POLE | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 207 | Hydraulic Generation | | BDE - Unit 7 RUNNER - TURBINE - CARBON SEAL | In Stock | HIGH | N/A |
| 208 | Hydraulic Generation | | BDE - Unit 7 SERVOMOTOR # 1 - Piston Ring | In Stock | HIGH | N/A |
| 209 | Hydraulic Generation | | BDE - Unit 7 SERVOMOTOR # 1 - PACKING,SERVOMOTOR | In Stock | MEDIUM | N/A |
| 210 | Hydraulic Generation | | BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 211 | Hydraulic Generation | | BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V-TYPE 9"X8"ID | In Stock | MEDIUM | N/A |
| 212 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - BOARD,DIGITAL I/O | In Stock | MEDIUM | N/A |
| 213 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - BOARD,I/O ANALOG | In Stock | MEDIUM | N/A |
| 214 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - BOARD,MEASURING ABB | In Stock | MEDIUM | N/A |
| 215 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - BOARD,POWER SYSTEM STABI | In Stock | MEDIUM | N/A |
| 216 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - CAPACITOR,20 MF +- 10% 150 V | In Stock | MEDIUM | N/A |
| 217 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - COMPONENT, INTEG CCT | In Stock | MEDIUM | N/A |
| 218 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - INTEG CCT | In Stock | MEDIUM | N/A |
| 219 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - CONTACT,ISOLATING | In Stock | MEDIUM | N/A |
| 220 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - MODULE,ABB DCS500B200361 | In Stock | MEDIUM | N/A |
| 221 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - PANEL,CONTROL | In Stock | MEDIUM | N/A |
| 222 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - POWER SUPPLY,ABB 3BHE013940R00 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 223 | Hydraulic Generation | | BDE - UNIT 7 EXCITER - RELAY,GROUND VOLTAGE | In Stock | MEDIUM | N/A |
| 224 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - Main Moving Contacts | In Stock | MEDIUM | N/A |
| 225 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - Main Fixed Contacts | In Stock | MEDIUM | N/A |
| 226 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - COIL,SHUNT CLOSING | In Stock | MEDIUM | N/A |
| 227 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - COIL,SHUNT OPENING | In Stock | MEDIUM | N/A |
| 228 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - Charging Motor | In Stock | MEDIUM | N/A |
| 229 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - BREAKER,ABB EZNE1600MS4-B1 | In Stock | HIGH | N/A |
| 230 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - ARC CHUTE,ABB UXAB289199215 | In Stock | MEDIUM | N/A |
| 231 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - MOTOR,CHARGING | In Stock | MEDIUM | N/A |
| 232 | Hydraulic Generation | | BDE - Unit 7 Generator Field Breaker - CONTACT,ABB UXAB239Z60R0 | In Stock | MEDIUM | N/A |
| 233 | Hydraulic Generation | | BDE - Unit 7 Control Board - BOARD,CONTROL | In Stock | MEDIUM | N/A |
| 234 | Hydraulic Generation | | BDE - UNIT 7 HYDRAULIC GENERATOR - coolers | In Stock | HIGH | N/A |
| 235 | Hydraulic Generation | | BDE - Unit 7 PMG - BEARING,SPEED SIGNAL | In Stock | MEDIUM | N/A |
| 236 | Hydraulic Generation | | BDE - Unit 7 PMG - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY | In Stock | HIGH | N/A |
| 237 | Hydraulic Generation | | BDE - Unit 7 PMG - PIN,DOWEL - SPEED SWITCH | In Stock | MEDIUM | N/A |
| 238 | Hydraulic Generation | | BDE - Unit 7 PMG - PLATE,MOUNTING - MERCURY | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 239 | Hydraulic Generation | | BDE - Unit 7 PMG - RING,ROTOR | In Stock | HIGH | N/A |
| 240 | Hydraulic Generation | | BDE - Unit 7 PMG - PIN,ROCKER ARM | In Stock | HIGH | N/A |
| 241 | Hydraulic Generation | | BDE - Unit 7 PMG - BEARING,WW 1800125 | In Stock | MEDIUM | N/A |
| 242 | Hydraulic Generation | | BDE - Unit 7 PMG - BEARING,WW 111006 | In Stock | MEDIUM | N/A |
| 243 | Hydraulic Generation | | BDE - Unit 7 PMG - BEARING,PMG P/N Z995205 | In Stock | MEDIUM | N/A |
| 244 | Hydraulic Generation | | BDE - Unit 7 PMG - PIN,BALLARM | In Stock | HIGH | N/A |
| 245 | Hydraulic Generation | | BDE - Unit 7 PMG - BUSHING,URETHANE UPPER D | In Stock | MEDIUM | N/A |
| 246 | Hydraulic Generation | | BDE - Unit 7 PMG - BUSHING,URETHANE LOWER D | In Stock | MEDIUM | N/A |
| 247 | Hydraulic Generation | | BDE - Unit 7 PMG - BALLARM,SPEED SWITCH | In Stock | HIGH | N/A |
| 248 | Hydraulic Generation | | BDE - Unit 7 PMG - PIN,TAPERED | In Stock | MEDIUM | N/A |
| 249 | Hydraulic Generation | | BDE - Unit 7 PMG - SPRING,SPEED SWITCH | In Stock | HIGH | N/A |
| 250 | Hydraulic Generation | | BDE - Unit 7 PMG - STATOR,P.M.G. | In Stock | HIGH | N/A |
| 251 | Hydraulic Generation | | BDE - Unit 7 VIBRATION MONITORING - PICK-UP,NON-CONTACT | In Stock | MEDIUM | N/A |
| 252 | Hydraulic Generation | | BDE - Unit 7 VIBRATION MONITORING - PICK-UP,SPEED SENSING | In Stock | MEDIUM | N/A |
| 253 | Hydraulic Generation | | BDE - Unit 7 VIBRATION MONITORING - POWER SUPPLY,IRD PCB 29128 | In Stock | HIGH | N/A |
| 254 | Hydraulic Generation | | BDE - Unit 7 GENERATOR COOLING WATER SYSTEM - TRANSMITTER,DIFF | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 255 | Hydraulic Generation | | BDE - Unit 7 WICKET GATES - GATE, WICKET | In Stock | HIGH | N/A |
| 256 | Hydraulic Generation | | BDE - Unit 7 SLIPRING/BRUSH RIGGING - Collector rings | In Stock | HIGH | N/A |
| 257 | Hydraulic Generation | | BDE - Unit 7 SLIPRING/BRUSH RIGGING - Brushes | In Stock | MEDIUM | N/A |
| 258 | Hydraulic Generation | | BDE - Unit 7 SURFACE AIR COOLERS - Tubes | In Stock | MEDIUM | N/A |
| 259 | Hydraulic Generation | | BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers | In Stock | HIGH | N/A |
| 260 | Hydraulic Generation | | BDE - Unit 7 NEUTRAL GROUND TRANSFORMER - transformer | In Stock | MEDIUM | N/A |
| 261 | Hydraulic Generation | | BDE - Unit 7 ROTOR - Pole | In Stock | HIGH | N/A |
| 262 | Hydraulic Generation | | BDE - Unit 7 STATOR WINDINGS - Stator Bars | In Stock | HIGH | N/A |
| 263 | Hydraulic Generation | | BDE - Unit 7 STATOR WINDINGS - Wedges | In Stock | HIGH | N/A |
| 264 | Hydraulic Generation | | BDE - Unit 7 TURBINE GUIDE BEARING - bearing | In Stock | HIGH | N/A |
| 265 | Hydraulic Generation | | BDE - Unit 7 GENERATOR GUIDE BEARING - segments | In Stock | HIGH | N/A |
| 266 | Hydraulic Generation | | BDE - Unit 7 THRUST BEARING - Thrust Pads | In Stock | HIGH | N/A |
| 267 | Hydraulic Generation | | BDE - Unit 7 THRUST BEARING - Rotating Ring | In Stock | HIGH | N/A |
| 268 | Hydraulic Generation | | BDE - PANEL STATION SERVICE - PH #2 - ACB | In Stock | HIGH | N/A |
| 269 | Hydraulic Generation | | CAT - ACCUMULATOR TANK - COIL AUTO AIR CHARGING SOLND | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 270 | Hydraulic Generation | | CAT - Governor Control System - CABLE DEFLECTOR FDBK AMP | In Stock | HIGH | N/A |
| 271 | Hydraulic Generation | | CAT - Governor Control System - CABLE FEEDBACK 20' | In Stock | HIGH | N/A |
| 272 | Hydraulic Generation | | CAT - Governor Control System - CABLE FEEDBACK 200' | In Stock | HIGH | N/A |
| 273 | Hydraulic Generation | | CAT - Governor Control System - CABLE FEEDBACK 50' | In Stock | HIGH | N/A |
| 274 | Hydraulic Generation | | CAT - Governor Control System - CABLE,NEEDLE FDBK AMP, | In Stock | HIGH | N/A |
| 275 | Hydraulic Generation | | CAT - Governor Control System - CABLE PROPORTIONAL VLV | In Stock | HIGH | N/A |
| 276 | Hydraulic Generation | | CAT - Governor Control System - CABLE90 DEG.5' ZVPU, | In Stock | HIGH | N/A |
| 277 | Hydraulic Generation | | CAT - Governor Control System - Power Supply | In Stock | MEDIUM | N/A |
| 278 | Hydraulic Generation | | CAT - Governor Control System - Power Supply 24V | In Stock | MEDIUM | N/A |
| 279 | Hydraulic Generation | | CAT - Governor - JOINT,UNIVERSAL SSG #1787058 | In Stock | HIGH | N/A |
| 280 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Tip | In Stock | HIGH | N/A |
| 281 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Shuttle Valve | In Stock | HIGH | N/A |
| 282 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN | In Stock | HIGH | N/A |
| 283 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Casing guide U/S | In Stock | HIGH | N/A |
| 284 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Casing guide D/S | In Stock | HIGH | N/A |
| 285 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Needle seat | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 286 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - BUSHING NOZZLE 374527007/P001 | In Stock | HIGH | N/A |
| 287 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT, | In Stock | MEDIUM | N/A |
| 288 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT 20, | In Stock | MEDIUM | N/A |
| 289 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CHAIN,DBS FCS-A1-15 | In Stock | HIGH | N/A |
| 290 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CONTROL DEVICE,NEEDLE | In Stock | HIGH | N/A |
| 291 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN | In Stock | HIGH | N/A |
| 292 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Amplifer/proportional | In Stock | HIGH | N/A |
| 293 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - seal piston ring | In Stock | MEDIUM | N/A |
| 294 | Hydraulic Generation | | CAT - NEEDLE VALVE ASS (6) - Seal | In Stock | MEDIUM | N/A |
| 295 | Hydraulic Generation | | CAT - Electronic Governor - BUSHING CABLE PROP VLV, | In Stock | HIGH | N/A |
| 296 | Hydraulic Generation | | CAT - Electronic Governor - CONNECTOR,MLDT ROD BALL | In Stock | HIGH | N/A |
| 297 | Hydraulic Generation | | CAT - Electronic Governor - CONVERTER,SERIAL/ETHERNET | In Stock | HIGH | N/A |
| 298 | Hydraulic Generation | | CAT - Electronic Governor - HOLDER,CIRCUIT BREAKER | In Stock | HIGH | N/A |
| 299 | Hydraulic Generation | | CAT - Electronic Governor - INTERFACE,ETHERNET VERSA | In Stock | HIGH | N/A |
| 300 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,GE AMPLIFIER | In Stock | HIGH | N/A |
| 301 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,GE PT INTERFACE | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 302 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,PLUG-IN DIODE | In Stock | HIGH | N/A |
| 303 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,VERSAMAX 16 PT | In Stock | HIGH | N/A |
| 304 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,VERSAMAX 32 PT | In Stock | HIGH | N/A |
| 305 | Hydraulic Generation | | CAT - Electronic Governor - MODULE,VERSAMAX 4 AO | In Stock | HIGH | N/A |
| 306 | Hydraulic Generation | | CAT - Electronic Governor - PC,ATLAS VX WORKS | In Stock | HIGH | N/A |
| 307 | Hydraulic Generation | | CAT - Electronic Governor - VERSAMAX powersupply | In Stock | HIGH | N/A |
| 308 | Hydraulic Generation | | CAT - Electronic Governor - PROBE,SPEED ZVPU | In Stock | HIGH | N/A |
| 309 | Hydraulic Generation | | CAT - Electronic Governor - RELAY,14 PIN PLUG 24VDC | In Stock | HIGH | N/A |
| 310 | Hydraulic Generation | | CAT - Electronic Governor - LVDT deflector | In Stock | HIGH | N/A |
| 311 | Hydraulic Generation | | CAT - Electronic Governor - Pos.Xducer | In Stock | HIGH | N/A |
| 312 | Hydraulic Generation | | CAT - Electronic Governor - POs.Xducer | In Stock | HIGH | N/A |
| 313 | Hydraulic Generation | | CAT - Electronic Governor - Deflector proportional | In Stock | HIGH | N/A |
| 314 | Hydraulic Generation | | CAT - Electronic Governor - Rod vdeflector | In Stock | HIGH | N/A |
| 315 | Hydraulic Generation | | CAT - Electronic Governor - PC, Atlas 2 | In Stock | HIGH | N/A |
| 316 | Hydraulic Generation | | CAT - Electronic Governor - Guide Ball Slide | In Stock | HIGH | N/A |
| 317 | Hydraulic Generation | | CAT - Governor Hydraulics - ELEMENT,FILTER SM 10 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 318 | Hydraulic Generation | | CAT - Governor Hydraulics - ELEMENT,FILTER SM 25 | In Stock | MEDIUM | N/A |
| 319 | Hydraulic Generation | | CAT - Governor Hydraulics - DEFLECTOR,SERVOMOTOR | In Stock | HIGH | N/A |
| 320 | Hydraulic Generation | | CAT - Governor Hydraulics - PLUG,C/V 010168-390-163 | In Stock | HIGH | N/A |
| 321 | Hydraulic Generation | | CAT - Governor Hydraulics - PLUG,C/V 021002-281-208 | In Stock | HIGH | N/A |
| 322 | Hydraulic Generation | | CAT - Governor Hydraulics - PLUG,ESCHER WYSS | In Stock | HIGH | N/A |
| 323 | Hydraulic Generation | | CAT - Governor Hydraulics - Deflector valve | In Stock | HIGH | N/A |
| 324 | Hydraulic Generation | | CAT - Governor Hydraulics - Piston seal 725X8 X3/8 | In Stock | MEDIUM | N/A |
| 325 | Hydraulic Generation | | CAT - Governor Hydraulics - Piston seal 9X8X1/2 | In Stock | MEDIUM | N/A |
| 326 | Hydraulic Generation | | CAT - Governor Hydraulics - Seal | In Stock | MEDIUM | N/A |
| 327 | Hydraulic Generation | | CAT - Governor Hydraulics - Pressure Switch | In Stock | MEDIUM | N/A |
| 328 | Hydraulic Generation | | CAT - Governor Hydraulics - OIL,TURBINE 46 (205L) | In Stock | MEDIUM | N/A |
| 329 | Hydraulic Generation | | CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door | In Stock | HIGH | N/A |
| 330 | Hydraulic Generation | | CAT - ROTOR - GENERATOR - Pole | In Stock | HIGH | N/A |
| 331 | Hydraulic Generation | | CAT - Turbine - Runner | In Stock | HIGH | N/A |
| 332 | Hydraulic Generation | | CAT - GENERATOR - MODULE,TYP 1CD 108 M 2-02 vibro-meter | In Stock | MEDIUM | N/A |
| 333 | Hydraulic Generation | | CAT - GENERATOR - OVERCURRENT relay | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 334 | Hydraulic Generation | | CAT - GENERATOR - RELAY,TIME DELAY .6 - 1.0 | In Stock | MEDIUM | N/A |
| 335 | Hydraulic Generation | | CAT - GENERATOR - rotating ring | In Stock | HIGH | N/A |
| 336 | Hydraulic Generation | | CAT - GENERATOR - INSLTR,SLIP RING | In Stock | MEDIUM | N/A |
| 337 | Hydraulic Generation | | CAT - GENERATOR - Brake ring | In Stock | HIGH | N/A |
| 338 | Hydraulic Generation | | CAT - GENERATOR - Brake valve | In Stock | HIGH | N/A |
| 339 | Hydraulic Generation | | CAT - GENERATOR - Brake Solenoid | In Stock | HIGH | N/A |
| 340 | Hydraulic Generation | | CAT - Isolated Phase Bus - PT fuse | In Stock | MEDIUM | N/A |
| 341 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - COIL,CLOSING 129 V DC | In Stock | HIGH | N/A |
| 342 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Arc Chute | In Stock | HIGH | N/A |
| 343 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Trip Coil | In Stock | HIGH | N/A |
| 344 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Main Drawout Contact | In Stock | HIGH | N/A |
| 345 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Contact Moving Arc | In Stock | HIGH | N/A |
| 346 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Contat Stationary Arc | In Stock | HIGH | N/A |
| 347 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Undervoltage Coil | In Stock | HIGH | N/A |
| 348 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - Contact 1600Amp | In Stock | HIGH | N/A |
| 349 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - CT 400-800 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 350 | Hydraulic Generation | | CAT - STATION SERVICE SYSTEM - CT 800-1600 | In Stock | HIGH | N/A |
| 351 | Hydraulic Generation | | CAT - SURFACE AIR COOLERS - Surface Air Cooler | In Stock | HIGH | N/A |
| 352 | Hydraulic Generation | | CAT - Generator Bearing - Cooler | In Stock | HIGH | N/A |
| 353 | Hydraulic Generation | | CAT - Stator Assembly - BAR STATOR BOTTOM, | In Stock | HIGH | N/A |
| 354 | Hydraulic Generation | | CAT - Stator Assembly - BAR STATOR TOP, | In Stock | HIGH | N/A |
| 355 | Hydraulic Generation | | CAT - Stator Assembly - CAP STATOR WINDING END, | In Stock | HIGH | N/A |
| 356 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR ASM 105 | In Stock | HIGH | N/A |
| 357 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR ASM 107 | In Stock | HIGH | N/A |
| 358 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR ASM 108 | In Stock | HIGH | N/A |
| 359 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR ASM 109 | In Stock | HIGH | N/A |
| 360 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 361 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 362 | Hydraulic Generation | | CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 363 | Hydraulic Generation | | CAT - Stator Assembly - Wedge | In Stock | HIGH | N/A |
| 364 | Hydraulic Generation | | CAT - Stator Assembly - Wedge | In Stock | HIGH | N/A |
| 365 | Hydraulic Generation | | CAT - Stator Assembly - Connector | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 366 | Hydraulic Generation | | CAT - Stator Assembly - Slider | In Stock | HIGH | N/A |
| 367 | Hydraulic Generation | | CAT - Stator Assembly - Slider | In Stock | HIGH | N/A |
| 368 | Hydraulic Generation | | CAT - Stator Assembly - Slider | In Stock | HIGH | N/A |
| 369 | Hydraulic Generation | | CAT - Exciter # 1 - COIL,SHUNT CLOSING | In Stock | HIGH | N/A |
| 370 | Hydraulic Generation | | CAT - Exciter # 1 - COIL,SHUNT OPENING | In Stock | HIGH | N/A |
| 371 | Hydraulic Generation | | CAT - Exciter # 1 - CONTACT,ISOLATING | In Stock | HIGH | N/A |
| 372 | Hydraulic Generation | | CAT - Exciter # 1 - MODULE,THYRISTOR BRIDGE | In Stock | HIGH | N/A |
| 373 | Hydraulic Generation | | CAT - Exciter # 1 - SUPPLY,110-220 VOLT | In Stock | HIGH | N/A |
| 374 | Hydraulic Generation | | CAT - Exciter # 1 - Breaker | In Stock | HIGH | N/A |
| 375 | Hydraulic Generation | | CAT - Exciter # 1 - Arc Chute | In Stock | HIGH | N/A |
| 376 | Hydraulic Generation | | CAT - Exciter # 1 - Control Board | In Stock | HIGH | N/A |
| 377 | Hydraulic Generation | | CAT - Exciter # 1 - I/O ANALOG BOARD CONTROL, | In Stock | HIGH | N/A |
| 378 | Hydraulic Generation | | CAT - Exciter # 1 - DIGITAL I/O BOARD, | In Stock | HIGH | N/A |
| 379 | Hydraulic Generation | | CAT - Exciter # 1 - PANEL,CONTROL | In Stock | HIGH | N/A |
| 380 | Hydraulic Generation | | CAT - Exciter # 1 - BOARD POWER SYSTEM STABI, | In Stock | HIGH | N/A |
| 381 | Hydraulic Generation | | CAT - Exciter # 1 - BOARD MEASURING, | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 382 | Hydraulic Generation | | CAT - Exciter # 1 - MOTOR,CHARGING | In Stock | HIGH | N/A |
| 383 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CONTROL BOARD, | In Stock | HIGH | N/A |
| 384 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB HIER319619R2, | In Stock | HIGH | N/A |
| 385 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB KX9170A V1, | In Stock | HIGH | N/A |
| 386 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN 2010B-P, | In Stock | HIGH | N/A |
| 387 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UNC001D-E, | In Stock | HIGH | N/A |
| 388 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UNS0026A-P, | In Stock | HIGH | N/A |
| 389 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P, | In Stock | HIGH | N/A |
| 390 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0016A-P, | In Stock | HIGH | N/A |
| 391 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0025A-P, | In Stock | HIGH | N/A |
| 392 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0026A-P, | In Stock | HIGH | N/A |
| 393 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0027A-P, | In Stock | HIGH | N/A |
| 394 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0031A-P, | In Stock | HIGH | N/A |
| 395 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN004A-P, | In Stock | HIGH | N/A |
| 396 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0079A-P, | In Stock | HIGH | N/A |
| 397 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0083A-P, | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 398 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0089A-P, | In Stock | HIGH | N/A |
| 399 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0091A-P, CARD ABB UN0093A-P, | In Stock | HIGH | N/A |
| 400 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0503A-P, | In Stock | HIGH | N/A |
| 401 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Unitrol Card | In Stock | HIGH | N/A |
| 402 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Thyristor | In Stock | HIGH | N/A |
| 403 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Transformer | In Stock | HIGH | N/A |
| 404 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Field Voltage Transducer | In Stock | HIGH | N/A |
| 405 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Shunt Voltage Transducer | In Stock | HIGH | N/A |
| 406 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Analog Input Transducer | In Stock | HIGH | N/A |
| 407 | Hydraulic Generation | | CAT - EXCITER NO. 2 - Fuse 600Amp | In Stock | HIGH | N/A |
| 408 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0510C-9, | In Stock | HIGH | N/A |
| 409 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0516A, | In Stock | HIGH | N/A |
| 410 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0900B-P, | In Stock | HIGH | N/A |
| 411 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN0901B-P, | In Stock | HIGH | N/A |
| 412 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN1001C-P, | In Stock | HIGH | N/A |
| 413 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN1004A-P, | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 414 | Hydraulic Generation | | CAT - EXCITER NO. 2 - COIL,SHUNT CLOSING | In Stock | HIGH | N/A |
| 415 | Hydraulic Generation | | CAT - EXCITER NO. 2 - COIL,125 VOLT 60HZ | In Stock | HIGH | N/A |
| 416 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P, | In Stock | HIGH | N/A |
| 417 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB UN1024C-P, | In Stock | HIGH | N/A |
| 418 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD ABB 1WX 174-2, | In Stock | HIGH | N/A |
| 419 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD BBC UN0077AP, | In Stock | HIGH | N/A |
| 420 | Hydraulic Generation | | CAT - EXCITER NO. 2 - CARD,BBC UN2001F-P | In Stock | HIGH | N/A |
| 421 | Hydraulic Generation | | CAT - BREAKERS BY BROWN BOVERI, 600V - spare field breaker in used spare exciter | In Stock | HIGH | N/A |
| 422 | Hydraulic Generation | | CAT - Slipring/brush Rigging Assembly - Ring, Collector Assembly | In Stock | HIGH | N/A |
| 423 | Hydraulic Generation | | CAT - Slipring/brush Rigging Assembly - Brushes | In Stock | MEDIUM | N/A |
| 424 | Hydraulic Generation | | CAT - Slipring/brush Rigging Assembly - Brush Holder | In Stock | HIGH | N/A |
| 425 | Hydraulic Generation | | CAT - Slipring/brush Rigging Assembly - Insulator | In Stock | HIGH | N/A |
| 426 | Hydraulic Generation | | CAT - Governor Pumps - Pump | In Stock | HIGH | N/A |
| 427 | Hydraulic Generation | | CAT - Governor Pumps - INSERT,CURVED JAW SPIDER | In Stock | HIGH | N/A |
| 428 | Hydraulic Generation | | CAT - Rotor Poles - Entire Pole | In Stock | HIGH | N/A |
| 429 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR ASM 105 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 430 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR ASM 107 | In Stock | HIGH | N/A |
| 431 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR ASM 108 | In Stock | HIGH | N/A |
| 432 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR ASM 109 | In Stock | HIGH | N/A |
| 433 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 434 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 435 | Hydraulic Generation | | CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | HIGH | N/A |
| 436 | Hydraulic Generation | | CAT - THRUST BEARING - thrust pads | In Stock | HIGH | N/A |
| 437 | Hydraulic Generation | | CAT - Turbine Guide Bearing - Bearing | In Stock | HIGH | N/A |
| 438 | Hydraulic Generation | | CAT - Guide Bearing Segments - Bearing | In Stock | HIGH | N/A |
| 439 | Hydraulic Generation | | CAT - Thrust Bearing Segements - Segments | In Stock | HIGH | N/A |
| 440 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER, | In Stock | HIGH | N/A |
| 441 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT, | In Stock | HIGH | N/A |
| 442 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLND. , | In Stock | HIGH | N/A |
| 443 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET , | In Stock | HIGH | N/A |
| 444 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 65SD , | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 445 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID , | In Stock | HIGH | N/A |
| 446 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634,motor | In Stock | HIGH | N/A |
| 447 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640,MOTOR | In Stock | HIGH | N/A |
| 448 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT,ROD, | In Stock | HIGH | N/A |
| 449 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON, | In Stock | HIGH | N/A |
| 450 | Hydraulic Generation | | HLK - GOVERNOR HYDRAULIC SYSTEM - filter | In Stock | HIGH | N/A |
| 451 | Hydraulic Generation | | HLK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM, | In Stock | HIGH | N/A |
| 452 | Hydraulic Generation | | HLK - GOVERNOR ACCUMULATOR TANK - Air admission solenoid | In Stock | HIGH | N/A |
| 453 | Hydraulic Generation | | HLK - GOVERNOR SPEED GENERATOR - GEAR,WOODWARD 1447-640 | In Stock | HIGH | N/A |
| 454 | Hydraulic Generation | | HLK - GOVERNOR SPEED GENERATOR - gear drive | In Stock | HIGH | N/A |
| 455 | Hydraulic Generation | | HLK - MECHANICAL GOVERNOR CONTROLS - Motor limit | In Stock | HIGH | N/A |
| 456 | Hydraulic Generation | | HLK - MECHANICAL GOVERNOR CONTROLS - Motor speeder | In Stock | HIGH | N/A |
| 457 | Hydraulic Generation | | HLK - MECHANICAL GOVERNOR CONTROLS - Unloader timing valve | In Stock | HIGH | N/A |
| 458 | Hydraulic Generation | | HLK - OPERATING RING - Bearing pads | In Stock | HIGH | N/A |
| 459 | Hydraulic Generation | | HLK - SERVOMOTOR #1 - servomotor repair kit | In Stock | HIGH | N/A |
| 460 | Hydraulic Generation | | HLK - SERVOMOTOR ASSEMBLY - shear pins | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 461 | Hydraulic Generation | | HLK - Rotor Assembly - HLK Generator - Rotor pole | In Stock | HIGH | N/A |
| 462 | Hydraulic Generation | | HLK - TURBINE - Carbon seal, | In Stock | HIGH | N/A |
| 463 | Hydraulic Generation | | HLK - TURBINE - BEARING SEGMENT TURBINE, | In Stock | HIGH | N/A |
| 464 | Hydraulic Generation | | HLK - TURBINE - PLATE BEARING, | In Stock | HIGH | N/A |
| 465 | Hydraulic Generation | | HLK - TURBINE - SEAL TURBINE, | In Stock | HIGH | N/A |
| 466 | Hydraulic Generation | | HLK - TURBINE - Wicket gate lever | In Stock | HIGH | N/A |
| 467 | Hydraulic Generation | | HLK - TURBINE - Friction hub | In Stock | HIGH | N/A |
| 468 | Hydraulic Generation | | HLK - TURBINE - Friction hub | In Stock | HIGH | N/A |
| 469 | Hydraulic Generation | | HLK - TURBINE - Packing box | In Stock | HIGH | N/A |
| 470 | Hydraulic Generation | | HLK - TURBINE - link thin | In Stock | HIGH | N/A |
| 471 | Hydraulic Generation | | HLK - TURBINE - link thick | In Stock | HIGH | N/A |
| 472 | Hydraulic Generation | | HLK - TURBINE - wicket gate seal | In Stock | HIGH | N/A |
| 473 | Hydraulic Generation | | HLK - TURBINE - Dowel | In Stock | HIGH | N/A |
| 474 | Hydraulic Generation | | HLK - TURBINE - Link pin | In Stock | HIGH | N/A |
| 475 | Hydraulic Generation | | HLK - TURBINE - Eccentric pin | In Stock | HIGH | N/A |
| 476 | Hydraulic Generation | | HLK - WICKET GATES - wicket gate | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 477 | Hydraulic Generation | | HLK - GENERATOR - brake shoes | In Stock | HIGH | N/A |
| 478 | Hydraulic Generation | | HLK - GENERATOR - SOLENOID,GENERATOR AIR VALVE, | In Stock | HIGH | N/A |
| 479 | Hydraulic Generation | | HLK - GENERATOR - Generator air valve | In Stock | HIGH | N/A |
| 480 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - SEAL TURBINE, | In Stock | HIGH | N/A |
| 481 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - SEALWICKET GATE, | In Stock | HIGH | N/A |
| 482 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 MM, | In Stock | HIGH | N/A |
| 483 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - LOWER, | In Stock | HIGH | N/A |
| 484 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - UPPER, | In Stock | HIGH | N/A |
| 485 | Hydraulic Generation | | HLK - HEADCOVER ASSEMBLY - Bushing upper | In Stock | HIGH | N/A |
| 486 | Hydraulic Generation | | HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure druk | In Stock | MEDIUM | N/A |
| 487 | Hydraulic Generation | | HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON) | In Stock | HIGH | N/A |
| 488 | Hydraulic Generation | | HLK - Thrust/Guide Bearing Coolers - Hi pressure lift pump | In Stock | HIGH | N/A |
| 489 | Hydraulic Generation | | HLK - ISOLATED PHASE BUS - PT fuse | In Stock | HIGH | N/A |
| 490 | Hydraulic Generation | | HLK - STATOR ASSEMBLY - Stator connection caps | In Stock | HIGH | N/A |
| 491 | Hydraulic Generation | | HLK - STATOR ASSEMBLY - Stator bars | In Stock | HIGH | N/A |
| 492 | Hydraulic Generation | | HLK - EXCITATION - Bridge (entire module) | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 493 | Hydraulic Generation | | HLK - Slipring /Brush Rigging - Carbon brush | In Stock | MEDIUM | N/A |
| 494 | Hydraulic Generation | | HLK - Slipring /Brush Rigging - Brush holder | In Stock | HIGH | N/A |
| 495 | Hydraulic Generation | | HLK - Rotor - Pole | In Stock | HIGH | N/A |
| 496 | Hydraulic Generation | | HLK - STATOR WINDINGS - UNIT 1 - robel bars | In Stock | HIGH | N/A |
| 497 | Hydraulic Generation | | HLK - TURBINE GUIDE BEARING - BEARING, Segment TURBINE | In Stock | HIGH | N/A |
| 498 | Hydraulic Generation | | HLK - GUIDE BEARING SEGMENTS (SET) - BEARING,SEGMENT | In Stock | HIGH | N/A |
| 499 | Hydraulic Generation | | HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER,PRESS 0-375 | In Stock | MEDIUM | N/A |
| 500 | Hydraulic Generation | | HLK - THRUST BEARING SEGMENTS (SET) - Thrust Bearing Segments | In Stock | HIGH | N/A |
| 501 | Hydraulic Generation | | HLK - UPPER GUIDE BEARING SEGMENTS - Upper Guide Bearing Segments | In Stock | HIGH | N/A |
| 502 | Hydraulic Generation | | HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER,TEMPERATURE | In Stock | MEDIUM | N/A |
| 503 | Hydraulic Generation | | HLK - GOVERNOR SPEED GENERATOR - Speed switch bracket | In Stock | HIGH | N/A |
| 504 | Hydraulic Generation | | GCL - Governor Control System - Pressure Switch | In Stock | MEDIUM | N/A |
| 505 | Hydraulic Generation | | GCL - Governor Control System - POWER SUPPLY,18-32VDC | In Stock | MEDIUM | N/A |
| 506 | Hydraulic Generation | | GCL - Governor Control System - TRANSMITTER,PRESS 0-2000 | In Stock | MEDIUM | N/A |
| 507 | Hydraulic Generation | | GCL - Governor Control System - TRANSMITTER,TEMP 4-20 MA | In Stock | MEDIUM | N/A |
| 508 | Hydraulic Generation | | GCL - Governor Hydraulic System - Filter, Element NS-7 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 509 | Hydraulic Generation | | GCL - Governor Hydraulic System - Joint, Shaft Parker | In Stock | MEDIUM | N/A |
| 510 | Hydraulic Generation | | GCL - Governor Hydraulic System - Pump, Vane Vick | In Stock | HIGH | N/A |
| 511 | Hydraulic Generation | | GCL - Governor Hydraulic System - Seal, Polypak "U" Cup | In Stock | MEDIUM | N/A |
| 512 | Hydraulic Generation | | GCL - Governor Hydraulic System - Valve, Relief | In Stock | HIGH | N/A |
| 513 | Hydraulic Generation | | GCL - Governor Hydraulic System - Valve, Check 1 6000 psi | In Stock | MEDIUM | N/A |
| 514 | Hydraulic Generation | | GCL - Governor Hydraulic System - Valve, Proportional | In Stock | HIGH | N/A |
| 515 | Hydraulic Generation | | GCL - Operating Ring - Washer, Ring Seal | In Stock | MEDIUM | N/A |
| 516 | Hydraulic Generation | | GCL - Operating Ring - BUSHING,GE 226043126X015 | In Stock | MEDIUM | N/A |
| 517 | Hydraulic Generation | | GCL - Servomotor - Rod, Seal H254-918 | In Stock | MEDIUM | N/A |
| 518 | Hydraulic Generation | | GCL - Servomotor - Rod, Seal H092-730 | In Stock | MEDIUM | N/A |
| 519 | Hydraulic Generation | | GCL - Servomotor Assembly - Ring, Piston GE | In Stock | HIGH | N/A |
| 520 | Hydraulic Generation | | GCL - Speed Signal Generator - Pickup, Zero Velocity | In Stock | HIGH | N/A |
| 521 | Hydraulic Generation | | GCL - Turbine Assembly - Packing Ring, Segment | In Stock | MEDIUM | N/A |
| 522 | Hydraulic Generation | | GCL - Turbine Assembly - Pad, Stop GE | In Stock | HIGH | N/A |
| 523 | Hydraulic Generation | | GCL - Turbine Assembly - Seal, Inflatable | In Stock | HIGH | N/A |
| 524 | Hydraulic Generation | | GCL - Turbine Assembly - Transmitter, Pressure GE | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 525 | Hydraulic Generation | | GCL - Turbine Assembly - Transmitter, Pressure - 5TO55 | In Stock | MEDIUM | N/A |
| 526 | Hydraulic Generation | | GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG | In Stock | MEDIUM | N/A |
| 527 | Hydraulic Generation | | GCL - Turbine Assembly - Transmitter, Diff Pressure | In Stock | MEDIUM | N/A |
| 528 | Hydraulic Generation | | GCL - Turbine Assembly - Ring, Rotating GE | In Stock | HIGH | N/A |
| 529 | Hydraulic Generation | | GCL - Turbine Assembly - Ring, Sealing C/W Spring | In Stock | HIGH | N/A |
| 530 | Hydraulic Generation | | GCL - Turbine Assembly - Ring, Wear | In Stock | HIGH | N/A |
| 531 | Hydraulic Generation | | GCL - Turbine Assembly - Valve, Check Wafer 12"D | In Stock | MEDIUM | N/A |
| 532 | Hydraulic Generation | | GCL - Wicket Gates - Bushing, GE 226043126X015 | In Stock | MEDIUM | N/A |
| 533 | Hydraulic Generation | | GCL - Wicket Gates - Gate, Wicket GE | In Stock | HIGH | N/A |
| 534 | Hydraulic Generation | | GCL - Wicket Gates - Level, Gate GE | In Stock | HIGH | N/A |
| 535 | Hydraulic Generation | | GCL - Wicket Gates - Lever, Shear GE | In Stock | HIGH | N/A |
| 536 | Hydraulic Generation | | GCL - Wicket Gates - Liner, Gate Operating | In Stock | HIGH | N/A |
| 537 | Hydraulic Generation | | GCL - Wicket Gates - Link, GE | In Stock | HIGH | N/A |
| 538 | Hydraulic Generation | | GCL - Wicket Gates - Pin, Eccentric | In Stock | HIGH | N/A |
| 539 | Hydraulic Generation | | GCL - Wicket Gates - Pin, Shear GE | In Stock | HIGH | N/A |
| 540 | Hydraulic Generation | | GCL - Wicket Gates - Pin, Taper GE | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 541 | Hydraulic Generation | | GCL - Wicket Gates - Plate, Retaining GE | In Stock | HIGH | N/A |
| 542 | Hydraulic Generation | | GCL - Wicket Gates - Plate, Top GE | In Stock | HIGH | N/A |
| 543 | Hydraulic Generation | | GCL - Wicket Gates - Shim, Laminum | In Stock | MEDIUM | N/A |
| 544 | Hydraulic Generation | | GCL - Wicket Gates - Sleeve, BRS 210mm | In Stock | MEDIUM | N/A |
| 545 | Hydraulic Generation | | GCL - Wicket Gates - Spacer | In Stock | MEDIUM | N/A |
| 546 | Hydraulic Generation | | GCL - Generator - Top Stator Bars (36) | In Stock | HIGH | N/A |
| 547 | Hydraulic Generation | | GCL - Generator - Bottom Stator Bars (18) | In Stock | HIGH | N/A |
| 548 | Hydraulic Generation | | GCL - Generator - Guide Bearing, GE | In Stock | HIGH | N/A |
| 549 | Hydraulic Generation | | GCL - Generator - Converter, RTD Temperature | In Stock | HIGH | N/A |
| 550 | Hydraulic Generation | | GCL - Generator - Converter, RTD Universal | In Stock | HIGH | N/A |
| 551 | Hydraulic Generation | | GCL - Generator - Creep Detector ASSY, 129 V | In Stock | HIGH | N/A |
| 552 | Hydraulic Generation | | GCL - Generator - Device, Surge Suppresion | In Stock | MEDIUM | N/A |
| 553 | Hydraulic Generation | | GCL - Generator - Fuse, TEMP Limiter | In Stock | MEDIUM | N/A |
| 554 | Hydraulic Generation | | GCL - Generator - Fuse, Voltage XFMR | In Stock | MEDIUM | N/A |
| 555 | Hydraulic Generation | | GCL - Generator - Jumper, Pole ASM #1 | In Stock | HIGH | N/A |
| 556 | Hydraulic Generation | | GCL - Generator - Jumper Pole ASM #2 | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 557 | Hydraulic Generation | | GCL - Generator - Jumper Pole ASM #3 | In Stock | HIGH | N/A |
| 558 | Hydraulic Generation | | GCL - Generator - Jumper Pole ASM #4 | In Stock | HIGH | N/A |
| 559 | Hydraulic Generation | | GCL - Generator - Level, Indicator Magnetic | In Stock | HIGH | N/A |
| 560 | Hydraulic Generation | | GCL - Generator - Oil, Turbine 46 (205L) | In Stock | MEDIUM | N/A |
| 561 | Hydraulic Generation | | GCL - Generator - Packing, V-Type GE | In Stock | MEDIUM | N/A |
| 562 | Hydraulic Generation | | GCL - Generator - Pin, Taper 25MM x 90MM | In Stock | MEDIUM | N/A |
| 563 | Hydraulic Generation | | GCL - Generator - Plate, Brake GE | In Stock | HIGH | N/A |
| 564 | Hydraulic Generation | | GCL - Generator - Plate, Locating Pivoted | In Stock | HIGH | N/A |
| 565 | Hydraulic Generation | | GCL - Generator - Pole, Wound GE | In Stock | HIGH | N/A |
| 566 | Hydraulic Generation | | GCL - Generator - Probe, 741 GE | In Stock | HIGH | N/A |
| 567 | Hydraulic Generation | | GCL - Generator - RTD, 12.5" -50-550 DEG | In Stock | HIGH | N/A |
| 568 | Hydraulic Generation | | GCL - Generator - RTD, 17" -50-550 DEG C | In Stock | HIGH | N/A |
| 569 | Hydraulic Generation | | GCL - Transmitter, PFM | In Stock | MEDIUM | N/A |
| 570 | Hydraulic Generation | | GCL - Transmitter, Temp 4-20 MA | In Stock | MEDIUM | N/A |
| 571 | Hydraulic Generation | | GCL - Switch, Press 200 PSI 15A | In Stock | MEDIUM | N/A |
| 572 | Hydraulic Generation | | GCL - Switch, 20-160 ABB 104-324-46 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---|--------------|------------|------------------------|
| 573 | Hydraulic Generation | | GCL - Thermometer, ADJ 0-55 | In Stock | MEDIUM | N/A |
| 574 | Hydraulic Generation | | GCL - Transducer, Balluff Track | In Stock | HIGH | N/A |
| 575 | Hydraulic Generation | | GCL - Shim, GE 007 | In Stock | MEDIUM | N/A |
| 576 | Hydraulic Generation | | GCL - Shim, GE 008 | In Stock | MEDIUM | N/A |
| 577 | Hydraulic Generation | | GCL - Shoe, brake GE 6201B6815L005 | In Stock | HIGH | N/A |
| 578 | Hydraulic Generation | | GCL - Spring, GE | In Stock | MEDIUM | N/A |
| 579 | Hydraulic Generation | | GCL - Valve, Purge GE | In Stock | HIGH | N/A |
| 580 | Hydraulic Generation | | GCL - Washer, Brake Plate | In Stock | MEDIUM | N/A |
| 581 | Hydraulic Generation | | GCL - Washer, GE 105000100 | In Stock | MEDIUM | N/A |
| 582 | Hydraulic Generation | | GCL - Ring Assy, Collector | In Stock | HIGH | N/A |
| 583 | Hydraulic Generation | | GCL - Stick, Joint Horz | In Stock | MEDIUM | N/A |
| 584 | Hydraulic Generation | | GCL - Stick, Joint Vert | In Stock | MEDIUM | N/A |
| 585 | Hydraulic Generation | | GCL - Switch, Press Actuated | In Stock | MEDIUM | N/A |
| 586 | Hydraulic Generation | | GCL - Switch, Press Gran 20W | In Stock | MEDIUM | N/A |
| 587 | Hydraulic Generation | | GCL - Seal, Top Guide Bearing | In Stock | MEDIUM | N/A |
| 588 | Hydraulic Generation | | GCL - Runner - Seal, 770mm x 730mm x 25mm | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 589 | Hydraulic Generation | | GCL - Surface Air Coolers - Cooler, Surface Air | In Stock | HIGH | N/A |
| 590 | Hydraulic Generation | | GCL - Thrust/Guide Bearing Coolers - Coil, Cooling C | In Stock | HIGH | N/A |
| 591 | Hydraulic Generation | | BDE - RECTIFYING TRANSFORMER - Insulating Fluid | In Stock | MEDIUM | N/A |
| 592 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - Surge Capacitor | In Stock | HIGH | N/A |
| 593 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - Field Flashing Resistor | In Stock | HIGH | N/A |
| 594 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve | In Stock | HIGH | N/A |
| 595 | Hydraulic Generation | | CAT - ACCUMULATOR TANK - Air Admission Valve | In Stock | HIGH | N/A |
| 596 | Hydraulic Generation | | HLK - GOVERNOR ACCUMULATOR TANK - Solenoid valve | In Stock | HIGH | N/A |
| 597 | Hydraulic Generation | | BDE - ISOLATED PHASE BUS - Surge Capacitor | In Stock | HIGH | N/A |
| 598 | Hydraulic Generation | | BDE - EXCITATION CONTROLS - Field Flashing Resistor | In Stock | HIGH | N/A |
| 599 | Hydraulic Generation | | BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve | In Stock | HIGH | N/A |
| 600 | Hydraulic Generation | | BDE - TURBINE GUIDE BEARING - oil cooler | In Stock | HIGH | N/A |
| 601 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Primary disconnect | In Stock | HIGH | N/A |
| 602 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Charging motor | In Stock | HIGH | N/A |
| 603 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Motor brush kit | In Stock | HIGH | N/A |
| 604 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Spring release coil | In Stock | HIGH | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--|--------------|------------|------------------------|
| 605 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Shunt trip coil | In Stock | HIGH | N/A |
| 606 | Hydraulic Generation | | HLK - CIRCUIT BREAKER - Anti-pump relay | In Stock | HIGH | N/A |
| 607 | Hydraulic Generation | | CAT - Governor Hydraulics - Cooler | In Stock | HIGH | N/A |
| 608 | Hydraulic Generation | | CAT - BRAKING JET ASSEMBLY - Control Valve | In Stock | HIGH | N/A |
| 609 | Hydraulic Generation | | HLK - EXCITER FIELD BREAKER - Entire unit | In Stock | HIGH | N/A |
| 610 | Hydraulic Generation | | BDE - BDE - PUMP,OIL IMO A3DB-275 | In Stock | MEDIUM | N/A |
| 611 | Hydraulic Generation | | BDE - CONTACT,CONTACTOR-TYPE DG-1 | In Stock | MEDIUM | N/A |
| 612 | Hydraulic Generation | | BDE - PUMP,OIL IMO A3DB-275 | In Stock | MEDIUM | N/A |
| 613 | Hydraulic Generation | | BDE - CONTACT,CONTACTOR-TYPE DG-1 | In Stock | MEDIUM | N/A |
| 614 | Hydraulic Generation | | BDE - SHAFT,SERVOMOTOR 4140 | In Stock | MEDIUM | N/A |
| 615 | Hydraulic Generation | | BDE - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 616 | Hydraulic Generation | | BDE - RING,PISTON SERVO MOTOR 18"OD | In Stock | MEDIUM | N/A |
| 617 | Hydraulic Generation | | BDE - SHAFT,SERVOMOTOR 4140 | In Stock | MEDIUM | N/A |
| 618 | Hydraulic Generation | | BDE - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 619 | Hydraulic Generation | | BDE - RING,PISTON SERVO MOTOR 18"OD | In Stock | MEDIUM | N/A |
| 620 | Hydraulic Generation | | BDE - SHAFT,SERVOMOTOR 4140 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 621 | Hydraulic Generation | | BDE - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 622 | Hydraulic Generation | | BDE - RING,PISTON SERVO MOTOR 18"OD | In Stock | MEDIUM | N/A |
| 623 | Hydraulic Generation | | BDE - SHAFT,SERVOMOTOR 4140 | In Stock | MEDIUM | N/A |
| 624 | Hydraulic Generation | | BDE - PACKING,V TYPE 2-EASY | In Stock | MEDIUM | N/A |
| 625 | Hydraulic Generation | | BDE - RING,PISTON SERVO MOTOR 18"OD | In Stock | MEDIUM | N/A |
| 626 | Hydraulic Generation | | BDE - BOARD ASSY,IRD 24144 | In Stock | MEDIUM | N/A |
| 627 | Hydraulic Generation | | BDE - CARD,IRD 31649 | In Stock | MEDIUM | N/A |
| 628 | Hydraulic Generation | | BDE - CARD,PRINTED CIRCUIT | In Stock | MEDIUM | N/A |
| 629 | Hydraulic Generation | | BDE - CREEP DETECTOR ASSY,129 VCD | In Stock | MEDIUM | N/A |
| 630 | Hydraulic Generation | | BDE - MONITOR,15" TOUCHSCREEN | In Stock | MEDIUM | N/A |
| 631 | Hydraulic Generation | | BDE - MOTOR,SYNCHRONIZING | In Stock | MEDIUM | N/A |
| 632 | Hydraulic Generation | | BDE - PEN ARM MOVEMENT ASSY,RECORDR | In Stock | MEDIUM | N/A |
| 633 | Hydraulic Generation | | BDE - PICK-UP,MAGNETIC 5430-929 | In Stock | MEDIUM | N/A |
| 634 | Hydraulic Generation | | BDE - PICK-UP,NON-CONTACT | In Stock | MEDIUM | N/A |
| 635 | Hydraulic Generation | | BDE - PICK-UP,SPEED SENSING | In Stock | MEDIUM | N/A |
| 636 | Hydraulic Generation | | BDE - POTENTIOMETER,SPEED | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|----------------------------------|--------------|------------|------------------------|
| 637 | Hydraulic Generation | | BDE - POTENTIOMETER,1K OH .244 A | In Stock | MEDIUM | N/A |
| 638 | Hydraulic Generation | | BDE - POTENTIOMETER,1250OH 0.24A | In Stock | MEDIUM | N/A |
| 639 | Hydraulic Generation | | BDE - POTENTIOMETER,1250OH 0.24A | In Stock | MEDIUM | N/A |
| 640 | Hydraulic Generation | | BDE - POTENTIOMETER,25W 50 OHMS | In Stock | MEDIUM | N/A |
| 641 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 642 | Hydraulic Generation | | BDE - POWER SUPPLY,IRD PCB 29128 | In Stock | MEDIUM | N/A |
| 643 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 644 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 645 | Hydraulic Generation | | BDE - POWER SUPPLY,24VDC | In Stock | MEDIUM | N/A |
| 646 | Hydraulic Generation | | BDE - POWER SUPPLY,300W | In Stock | MEDIUM | N/A |
| 647 | Hydraulic Generation | | BDE - POWER SUPPLY,48VDC 240W | In Stock | MEDIUM | N/A |
| 648 | Hydraulic Generation | | BDE - PROBE SYSTEM,CAPACITANCE | In Stock | MEDIUM | N/A |
| 649 | Hydraulic Generation | | BDE - PROBE,CAPACITANCE | In Stock | MEDIUM | N/A |
| 650 | Hydraulic Generation | | BDE - PROCESSOR,MICRO-CENTRAL | In Stock | MEDIUM | N/A |
| 651 | Hydraulic Generation | | BDE - PROCESSOR,PLC | In Stock | MEDIUM | N/A |
| 652 | Hydraulic Generation | | BDE - PROCESSOR,PROG C/W 1772-MJ | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 653 | Hydraulic Generation | | BDE - RELAY,ADJUSTABLE AC V SENSOR | In Stock | MEDIUM | N/A |
| 654 | Hydraulic Generation | | BDE - METER, TEMP DIGITAL | In Stock | MEDIUM | N/A |
| 655 | Hydraulic Generation | | BDE - BOARD ASSY,IRD 24144 | In Stock | MEDIUM | N/A |
| 656 | Hydraulic Generation | | BDE - CARD,IRD 31649 | In Stock | MEDIUM | N/A |
| 657 | Hydraulic Generation | | BDE - CARD,PRINTED CIRCUIT | In Stock | MEDIUM | N/A |
| 658 | Hydraulic Generation | | BDE - CREEP DETECTOR ASSY,129 VCD | In Stock | MEDIUM | N/A |
| 659 | Hydraulic Generation | | BDE - MONITOR,15" TOUCHSCREEN | In Stock | MEDIUM | N/A |
| 660 | Hydraulic Generation | | BDE - MOTOR,SYNCHRONIZING | In Stock | MEDIUM | N/A |
| 661 | Hydraulic Generation | | BDE - PEN ARM MOVEMENT ASSY,RECORDR | In Stock | MEDIUM | N/A |
| 662 | Hydraulic Generation | | BDE - PICK-UP,MAGNETIC 5430-929 | In Stock | MEDIUM | N/A |
| 663 | Hydraulic Generation | | BDE - PICK-UP,NON-CONTACT | In Stock | MEDIUM | N/A |
| 664 | Hydraulic Generation | | BDE - PICK-UP,SPEED SENSING | In Stock | MEDIUM | N/A |
| 665 | Hydraulic Generation | | BDE - POTENTIOMETER,SPEED | In Stock | MEDIUM | N/A |
| 666 | Hydraulic Generation | | BDE - POTENTIOMETER,1K OH .244 A | In Stock | MEDIUM | N/A |
| 667 | Hydraulic Generation | | BDE - POTENTIOMETER,1250OH 0.24A | In Stock | MEDIUM | N/A |
| 668 | Hydraulic Generation | | BDE - POTENTIOMETER,1250OH 0.24A | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|------------------------------------|--------------|------------|------------------------|
| 669 | Hydraulic Generation | | BDE - POTENTIOMETER,25W 50 OHMS | In Stock | MEDIUM | N/A |
| 670 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 671 | Hydraulic Generation | | BDE - POWER SUPPLY,IRD PCB 29128 | In Stock | MEDIUM | N/A |
| 672 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 673 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 674 | Hydraulic Generation | | BDE - POWER SUPPLY,24VDC | In Stock | MEDIUM | N/A |
| 675 | Hydraulic Generation | | BDE - POWER SUPPLY,300W | In Stock | MEDIUM | N/A |
| 676 | Hydraulic Generation | | BDE - POWER SUPPLY,48VDC 240W | In Stock | MEDIUM | N/A |
| 677 | Hydraulic Generation | | BDE - PROBE SYSTEM,CAPACITANCE | In Stock | MEDIUM | N/A |
| 678 | Hydraulic Generation | | BDE - PROBE,CAPACITANCE | In Stock | MEDIUM | N/A |
| 679 | Hydraulic Generation | | BDE - PROCESSOR,MICRO-CENTRAL | In Stock | MEDIUM | N/A |
| 680 | Hydraulic Generation | | BDE - PROCESSOR,PLC | In Stock | MEDIUM | N/A |
| 681 | Hydraulic Generation | | BDE - PROCESSOR,PROG C/W 1772-MJ | In Stock | MEDIUM | N/A |
| 682 | Hydraulic Generation | | BDE - RELAY,ADJUSTABLE AC V SENSOR | In Stock | MEDIUM | N/A |
| 683 | Hydraulic Generation | | BDE - METER, TEMP DIGITAL | In Stock | MEDIUM | N/A |
| 684 | Hydraulic Generation | | BDE - RELAY,UNDERVOLTAGE 125VAC | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 685 | Hydraulic Generation | | BDE - RELAY,INSTANTANEOUS CURRENT | In Stock | MEDIUM | N/A |
| 686 | Hydraulic Generation | | BDE - RELAY,INSTANTANEOUS CURRENT | In Stock | MEDIUM | N/A |
| 687 | Hydraulic Generation | | BDE - RELAY,INSTANTANEOUS CURRENT | In Stock | MEDIUM | N/A |
| 688 | Hydraulic Generation | | BDE - RELAY,OVERCURRENT 1600A 3POLE | In Stock | MEDIUM | N/A |
| 689 | Hydraulic Generation | | BDE - RELAY,GROUND VOLTAGE | In Stock | MEDIUM | N/A |
| 690 | Hydraulic Generation | | BDE - RELAY,LEVEL CONTROL #1001 | In Stock | MEDIUM | N/A |
| 691 | Hydraulic Generation | | BDE - SENSOR,CABLE REEL LINEAR | In Stock | MEDIUM | N/A |
| 692 | Hydraulic Generation | | BDE - CABLE,SERIES 925 RESOLVER | In Stock | MEDIUM | N/A |
| 693 | Hydraulic Generation | | BDE - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 694 | Hydraulic Generation | | BDE - VALVE,CONT.1/2 4-WAY SS | In Stock | MEDIUM | N/A |
| 695 | Hydraulic Generation | | BDE - VALVE,CONT.1/2"4-WAY SS | In Stock | MEDIUM | N/A |
| 696 | Hydraulic Generation | | BDE - VALVE,CONTROL 1" SS | In Stock | MEDIUM | N/A |
| 697 | Hydraulic Generation | | BDE - VALVE,CONTROL 2" SS | In Stock | MEDIUM | N/A |
| 698 | Hydraulic Generation | | BDE - VALVE,CONTROL 2" SS | In Stock | MEDIUM | N/A |
| 699 | Hydraulic Generation | | BDE - seal movable | In Stock | MEDIUM | N/A |
| 700 | Hydraulic Generation | | BDE - seal stationary | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------|--------------|------------|------------------------|
| 701 | Hydraulic Generation | | BDE - VALVE,CONT.1/2 4-WAY SS | In Stock | MEDIUM | N/A |
| 702 | Hydraulic Generation | | BDE - VALVE,CONT.1/2"4-WAY SS | In Stock | MEDIUM | N/A |
| 703 | Hydraulic Generation | | BDE - VALVE,CONTROL 1" SS | In Stock | MEDIUM | N/A |
| 704 | Hydraulic Generation | | BDE - VALVE,CONTROL 2" SS | In Stock | MEDIUM | N/A |
| 705 | Hydraulic Generation | | BDE - VALVE,CONTROL 2" SS | In Stock | MEDIUM | N/A |
| 706 | Hydraulic Generation | | BDE - stationary ring | In Stock | MEDIUM | N/A |
| 707 | Hydraulic Generation | | BDE - seal statationary | In Stock | MEDIUM | N/A |
| 708 | Hydraulic Generation | | BDE - piston U/S | In Stock | MEDIUM | N/A |
| 709 | Hydraulic Generation | | BDE - piston D/S | In Stock | MEDIUM | N/A |
| 710 | Hydraulic Generation | | BDE - PROTRACTOR,ANSUL 423958 | In Stock | MEDIUM | N/A |
| 711 | Hydraulic Generation | | BDE - VALVE,1" THERMAL TRIP | In Stock | MEDIUM | N/A |
| 712 | Hydraulic Generation | | BDE - GAS,INERGEN (350F3) | In Stock | MEDIUM | N/A |
| 713 | Hydraulic Generation | | BDE - GAS,INERGEN (425F3) | In Stock | MEDIUM | N/A |
| 714 | Hydraulic Generation | | BDE - BEARING KIT,IR 32127474 | In Stock | MEDIUM | N/A |
| 715 | Hydraulic Generation | | BDE - BELT,V IR 95100160 | In Stock | MEDIUM | N/A |
| 716 | Hydraulic Generation | | BDE - BELT,V IR 95100558 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-----------------------------------|--------------|------------|------------------------|
| 717 | Hydraulic Generation | | BDE - COIL,AB CC236 | In Stock | MEDIUM | N/A |
| 718 | Hydraulic Generation | | BDE - GASKET SET,IR 30423339 | In Stock | MEDIUM | N/A |
| 719 | Hydraulic Generation | | BDE - MOTOR,ELECT 15HP 575V | In Stock | MEDIUM | N/A |
| 720 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30215222 | In Stock | MEDIUM | N/A |
| 721 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30215438 | In Stock | MEDIUM | N/A |
| 722 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30292460 | In Stock | MEDIUM | N/A |
| 723 | Hydraulic Generation | | BDE - BEARING KIT,IR 32127474 | In Stock | MEDIUM | N/A |
| 724 | Hydraulic Generation | | BDE - BELT,V IR 95100160 | In Stock | MEDIUM | N/A |
| 725 | Hydraulic Generation | | BDE - BELT,V IR 95100558 | In Stock | MEDIUM | N/A |
| 726 | Hydraulic Generation | | BDE - COIL,AB CC236 | In Stock | MEDIUM | N/A |
| 727 | Hydraulic Generation | | BDE - GASKET SET,IR 30423339 | In Stock | MEDIUM | N/A |
| 728 | Hydraulic Generation | | BDE - MOTOR,ELECT 15HP 575V | In Stock | MEDIUM | N/A |
| 729 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30215222 | In Stock | MEDIUM | N/A |
| 730 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30215438 | In Stock | MEDIUM | N/A |
| 731 | Hydraulic Generation | | BDE - PISTON/PIN ASSY,IR 30292460 | In Stock | MEDIUM | N/A |
| 732 | Hydraulic Generation | | BDE - RING SET,IR 32194144 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--------------------------------|--------------|------------|------------------------|
| 733 | Hydraulic Generation | | BDE - MODULE,ANALOG QUANTUM | In Stock | MEDIUM | N/A |
| 734 | Hydraulic Generation | | BDE - MODULE,CPU MODICON | In Stock | MEDIUM | N/A |
| 735 | Hydraulic Generation | | BDE - MODULE,DISCRETE IN | In Stock | MEDIUM | N/A |
| 736 | Hydraulic Generation | | BDE - MODULE,DISCRETE OUT | In Stock | MEDIUM | N/A |
| 737 | Hydraulic Generation | | BDE - MODULE,ETHERNET QUANTUM | In Stock | MEDIUM | N/A |
| 738 | Hydraulic Generation | | BDE - MODULE,GPS QUANTUM | In Stock | MEDIUM | N/A |
| 739 | Hydraulic Generation | | BDE - MODULE,HOT STANDBY | In Stock | MEDIUM | N/A |
| 740 | Hydraulic Generation | | BDE - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 741 | Hydraulic Generation | | BDE - MODULE,RACK FILLER | In Stock | MEDIUM | N/A |
| 742 | Hydraulic Generation | | BDE - MODULE,RELAY OUT | In Stock | MEDIUM | N/A |
| 743 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 744 | Hydraulic Generation | | BDE - POWER SUPPLY,125 VDC | In Stock | MEDIUM | N/A |
| 745 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 746 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 747 | Hydraulic Generation | | BDE - REMOTE I/O HEAD,MODICON | In Stock | MEDIUM | N/A |
| 748 | Hydraulic Generation | | BDE - ADAPTER,REMOTE I/O | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 749 | Hydraulic Generation | | BDE - BACKPLANE,10 SLOT MODICON | In Stock | MEDIUM | N/A |
| 750 | Hydraulic Generation | | BDE - CABLE,SERIES 925 RESOLVER | In Stock | MEDIUM | N/A |
| 751 | Hydraulic Generation | | BDE - MODULE,ANALOG QUANTUM | In Stock | MEDIUM | N/A |
| 752 | Hydraulic Generation | | BDE - MODULE,CPU MODICON | In Stock | MEDIUM | N/A |
| 753 | Hydraulic Generation | | BDE - MODULE,DISCRETE IN | In Stock | MEDIUM | N/A |
| 754 | Hydraulic Generation | | BDE - MODULE,DISCRETE OUT | In Stock | MEDIUM | N/A |
| 755 | Hydraulic Generation | | BDE - MODULE,ETHERNET QUANTUM | In Stock | MEDIUM | N/A |
| 756 | Hydraulic Generation | | BDE - MODULE,GPS QUANTUM | In Stock | MEDIUM | N/A |
| 757 | Hydraulic Generation | | BDE - MODULE,HOT STANDBY | In Stock | MEDIUM | N/A |
| 758 | Hydraulic Generation | | BDE - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 759 | Hydraulic Generation | | BDE - MODULE,RACK FILLER | In Stock | MEDIUM | N/A |
| 760 | Hydraulic Generation | | BDE - MODULE,RELAY OUT | In Stock | MEDIUM | N/A |
| 761 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 762 | Hydraulic Generation | | BDE - POWER SUPPLY,125 VDC | In Stock | MEDIUM | N/A |
| 763 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 764 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 765 | Hydraulic Generation | | BDE - REMOTE I/O HEAD,MODICON | In Stock | MEDIUM | N/A |
| 766 | Hydraulic Generation | | BDE - ADAPTER,REMOTE I/O | In Stock | MEDIUM | N/A |
| 767 | Hydraulic Generation | | BDE - BACKPLANE,10 SLOT MODICON | In Stock | MEDIUM | N/A |
| 768 | Hydraulic Generation | | BDE - FILTER,AIR (ELEMENT ONLY) | In Stock | MEDIUM | N/A |
| 769 | Hydraulic Generation | | BDE - PISTON,PIN ASSY PE#32054504 | In Stock | MEDIUM | N/A |
| 770 | Hydraulic Generation | | BDE - PISTON,PIN ASSY PE#32054538 | In Stock | MEDIUM | N/A |
| 771 | Hydraulic Generation | | BDE - COIL,SULL 250018-971 | In Stock | MEDIUM | N/A |
| 772 | Hydraulic Generation | | BDE - FILTER,COOLANT (ELEMENT ONLY) | In Stock | MEDIUM | N/A |
| 773 | Hydraulic Generation | | BDE - GASKET KIT,IR X1453T47 | In Stock | MEDIUM | N/A |
| 774 | Hydraulic Generation | | BDE - GASKET,FLEXMASTER 250007-559 | In Stock | MEDIUM | N/A |
| 775 | Hydraulic Generation | | BDE - GASKET,SULL 040517 | In Stock | MEDIUM | N/A |
| 776 | Hydraulic Generation | | BDE - REGULATOR KIT,SULL 250019-453 | In Stock | MEDIUM | N/A |
| 777 | Hydraulic Generation | | BDE - MODULE,ANALOG QUANTUM | In Stock | MEDIUM | N/A |
| 778 | Hydraulic Generation | | BDE - MODULE,CPU MODICON | In Stock | MEDIUM | N/A |
| 779 | Hydraulic Generation | | BDE - MODULE,DISCRETE IN | In Stock | MEDIUM | N/A |
| 780 | Hydraulic Generation | | BDE - MODULE,DISCRETE OUT | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 781 | Hydraulic Generation | | BDE - MODULE,ETHERNET QUANTUM | In Stock | MEDIUM | N/A |
| 782 | Hydraulic Generation | | BDE - MODULE,GPS QUANTUM | In Stock | MEDIUM | N/A |
| 783 | Hydraulic Generation | | BDE - MODULE,HOT STANDBY | In Stock | MEDIUM | N/A |
| 784 | Hydraulic Generation | | BDE - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 785 | Hydraulic Generation | | BDE - MODULE,RACK FILLER | In Stock | MEDIUM | N/A |
| 786 | Hydraulic Generation | | BDE - MODULE,RELAY OUT | In Stock | MEDIUM | N/A |
| 787 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 788 | Hydraulic Generation | | BDE - POWER SUPPLY,125 VDC | In Stock | MEDIUM | N/A |
| 789 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 790 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 791 | Hydraulic Generation | | BDE - REMOTE I/O HEAD,MODICON | In Stock | MEDIUM | N/A |
| 792 | Hydraulic Generation | | BDE - ADAPTER,REMOTE I/O | In Stock | MEDIUM | N/A |
| 793 | Hydraulic Generation | | BDE - BACKPLANE,10 SLOT MODICON | In Stock | MEDIUM | N/A |
| 794 | Hydraulic Generation | | BDE - MODULE,ANALOG QUANTUM | In Stock | MEDIUM | N/A |
| 795 | Hydraulic Generation | | BDE - MODULE,CPU MODICON | In Stock | MEDIUM | N/A |
| 796 | Hydraulic Generation | | BDE - MODULE,DISCRETE IN | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-----------------------------------|--------------|------------|------------------------|
| 797 | Hydraulic Generation | | BDE - MODULE,DISCRETE OUT | In Stock | MEDIUM | N/A |
| 798 | Hydraulic Generation | | BDE - MODULE,ETHERNET QUANTUM | In Stock | MEDIUM | N/A |
| 799 | Hydraulic Generation | | BDE - MODULE,GPS QUANTUM | In Stock | MEDIUM | N/A |
| 800 | Hydraulic Generation | | BDE - MODULE,HOT STANDBY | In Stock | MEDIUM | N/A |
| 801 | Hydraulic Generation | | BDE - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 802 | Hydraulic Generation | | BDE - MODULE,RACK FILLER | In Stock | MEDIUM | N/A |
| 803 | Hydraulic Generation | | BDE - MODULE,RELAY OUT | In Stock | MEDIUM | N/A |
| 804 | Hydraulic Generation | | BDE - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 805 | Hydraulic Generation | | BDE - POWER SUPPLY,125 VDC | In Stock | MEDIUM | N/A |
| 806 | Hydraulic Generation | | BDE - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 807 | Hydraulic Generation | | BDE - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 808 | Hydraulic Generation | | BDE - REMOTE I/O HEAD,MODICON | In Stock | MEDIUM | N/A |
| 809 | Hydraulic Generation | | BDE - ADAPTER,REMOTE I/O | In Stock | MEDIUM | N/A |
| 810 | Hydraulic Generation | | BDE - BACKPLANE,10 SLOT MODICON | In Stock | MEDIUM | N/A |
| 811 | Hydraulic Generation | | CAT | In Stock | MEDIUM | N/A |
| 812 | Hydraulic Generation | | CAT - ARC-CHUTE ABB #15DA045697R1 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--------------------------------------|--------------|------------|------------------------|
| 813 | Hydraulic Generation | | CAT - BOARD, CONTROL | In Stock | MEDIUM | N/A |
| 814 | Hydraulic Generation | | CAT - BOARD, DIGITAL I/O | In Stock | MEDIUM | N/A |
| 815 | Hydraulic Generation | | CAT - BOARD, I/O ANALOG | In Stock | MEDIUM | N/A |
| 816 | Hydraulic Generation | | CAT - BOARD, MEASURING ABB | In Stock | MEDIUM | N/A |
| 817 | Hydraulic Generation | | CAT - BOARD, POWER SYSTEM STABI | In Stock | MEDIUM | N/A |
| 818 | Hydraulic Generation | | CAT - BREAKER, EXCITER ABB | In Stock | MEDIUM | N/A |
| 819 | Hydraulic Generation | | CAT - COIL, SHUNT CLOSING | In Stock | MEDIUM | N/A |
| 820 | Hydraulic Generation | | CAT - COIL, SHUNT OPENING | In Stock | MEDIUM | N/A |
| 821 | Hydraulic Generation | | CAT - CONTACT, I SOLATING | In Stock | MEDIUM | N/A |
| 822 | Hydraulic Generation | | CAT - MODULE, THYRISTOR BRIDGE | In Stock | MEDIUM | N/A |
| 823 | Hydraulic Generation | | CAT - MOTOR, CHARGING | In Stock | MEDIUM | N/A |
| 824 | Hydraulic Generation | | CAT - PANEL, CONTROL | In Stock | MEDIUM | N/A |
| 825 | Hydraulic Generation | | CAT - POWER SUPPLY, 110-220 VOLT | In Stock | MEDIUM | N/A |
| 826 | Hydraulic Generation | | CAT - RELAY, ASEA RXSF1, RK271 0 | In Stock | MEDIUM | N/A |
| 827 | Hydraulic Generation | | CAT - MODULE, THYRISTOR BRIDGE | In Stock | MEDIUM | N/A |
| 828 | Hydraulic Generation | | CAT - RECTIFIER, BRIDGE 250JB6L-8338 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--------------------------------------|--------------|------------|------------------------|
| 829 | Hydraulic Generation | | CAT - RECTIFIER, BRIDGE 35MB60A-8419 | In Stock | MEDIUM | N/A |
| 830 | Hydraulic Generation | | CAT - RECTIFIER, BRIDGE 35MB60A-8421 | In Stock | MEDIUM | N/A |
| 831 | Hydraulic Generation | | CAT - THYRISTOR, ABB CS411-20 | In Stock | MEDIUM | N/A |
| 832 | Hydraulic Generation | | CAT - CONTROLLER,PLC DL05 | In Stock | MEDIUM | N/A |
| 833 | Hydraulic Generation | | CAT - ELEMENT,AFTER FILTER | In Stock | MEDIUM | N/A |
| 834 | Hydraulic Generation | | CAT - ELEMENT,AIR FILTER | In Stock | MEDIUM | N/A |
| 835 | Hydraulic Generation | | CAT - ELEMENT,PRE FILTER | In Stock | MEDIUM | N/A |
| 836 | Hydraulic Generation | | CAT - TEXT DISPLAY,AIR DRYER | In Stock | MEDIUM | N/A |
| 837 | Hydraulic Generation | | CAT - OIL,TURBINE 46 (205L) | In Stock | MEDIUM | N/A |
| 838 | Hydraulic Generation | | CAT - BEARING, GUIDE | In Stock | MEDIUM | N/A |
| 839 | Hydraulic Generation | | CAT - O-RING, NOZZLE M868 X 4 | In Stock | MEDIUM | N/A |
| 840 | Hydraulic Generation | | CAT - Rotating Ring | In Stock | MEDIUM | N/A |
| 841 | Hydraulic Generation | | CAT - Thrust Pads | In Stock | MEDIUM | N/A |
| 842 | Hydraulic Generation | | CAT - Rotating Ring | In Stock | MEDIUM | N/A |
| 843 | Hydraulic Generation | | CAT - Rotating Ring | In Stock | MEDIUM | N/A |
| 844 | Hydraulic Generation | | CAT - COIL, CONTACTOR 130 V 84D418 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-----------------------------------|--------------|------------|------------------------|
| 845 | Hydraulic Generation | | CAT - CONTACT, NORMAL LONG 700C | In Stock | MEDIUM | N/A |
| 846 | Hydraulic Generation | | CAT - CONTACT, NORMAL SHORT 700 | In Stock | MEDIUM | N/A |
| 847 | Hydraulic Generation | | CAT - CONTACT, OVERLAP LONG 700 | In Stock | MEDIUM | N/A |
| 848 | Hydraulic Generation | | CAT - CONTACT, OVERLAP SHORT 70 | In Stock | MEDIUM | N/A |
| 849 | Hydraulic Generation | | CAT - SEAL, SPHERICAL VALVE | In Stock | MEDIUM | N/A |
| 850 | Hydraulic Generation | | CAT - SEAL, SPHERICAL VALVE | In Stock | MEDIUM | N/A |
| 851 | Hydraulic Generation | | CAT - SEAL, SPHERICAL VALVE | In Stock | MEDIUM | N/A |
| 852 | Hydraulic Generation | | CAT - OPERATOR,WORM GEAR 8" | In Stock | MEDIUM | N/A |
| 853 | Hydraulic Generation | | CAT - SWITCH,DIFFERENTIAL PRES | In Stock | MEDIUM | N/A |
| 854 | Hydraulic Generation | | CAT - BEARING,BOWL - INTERMEDIATE | In Stock | MEDIUM | N/A |
| 855 | Hydraulic Generation | | CAT - BEARING,BOWL - TOP | In Stock | MEDIUM | N/A |
| 856 | Hydraulic Generation | | CAT - BEARING,BRIER HYD33A66 | In Stock | MEDIUM | N/A |
| 857 | Hydraulic Generation | | CAT - BEARING,LINESHAFT | In Stock | MEDIUM | N/A |
| 858 | Hydraulic Generation | | CAT - BEARING,STUFFING BOX | In Stock | MEDIUM | N/A |
| 859 | Hydraulic Generation | | CAT - BEARING,SUCTION CASE | In Stock | MEDIUM | N/A |
| 860 | Hydraulic Generation | | CAT - COLLAR,SAND | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 861 | Hydraulic Generation | | CAT - FLOAT - 2315 | In Stock | MEDIUM | N/A |
| 862 | Hydraulic Generation | | CAT - BELT, V IR 95100558 | In Stock | MEDIUM | N/A |
| 863 | Hydraulic Generation | | CAT - GASKET SET, IR 30423339 | In Stock | MEDIUM | N/A |
| 864 | Hydraulic Generation | | CAT - PISTON/PIN ASSY, IR 30215222 | In Stock | MEDIUM | N/A |
| 865 | Hydraulic Generation | | CAT - PISTON/PIN ASSY, IR 30215438 | In Stock | MEDIUM | N/A |
| 866 | Hydraulic Generation | | CAT - PISTON/PIN ASSY, IR 30292460 | In Stock | MEDIUM | N/A |
| 867 | Hydraulic Generation | | CAT - RING SET, IR 32194144 | In Stock | MEDIUM | N/A |
| 868 | Hydraulic Generation | | CAT - RING SET, IR 32194276 | In Stock | MEDIUM | N/A |
| 869 | Hydraulic Generation | | CAT - RING SET, IR 37138146 | In Stock | MEDIUM | N/A |
| 870 | Hydraulic Generation | | CAT - RING/GASKET KIT, IR 32133969 | In Stock | MEDIUM | N/A |
| 871 | Hydraulic Generation | | CAT - SEAL, OIL IR 32204562 | In Stock | MEDIUM | N/A |
| 872 | Hydraulic Generation | | CAT - VALVE ASSEMBLY 35 GA | In Stock | MEDIUM | N/A |
| 873 | Hydraulic Generation | | CAT - VALVE ASSEMBLY 55 GA | In Stock | MEDIUM | N/A |
| 874 | Hydraulic Generation | | CAT - VALVE/GASKET KIT, IR 32133951 | In Stock | MEDIUM | N/A |
| 875 | Hydraulic Generation | | CAT - BEARING KIT,IR 32127516 | In Stock | MEDIUM | N/A |
| 876 | Hydraulic Generation | | CAT - FILTER,AIR INTAKE - 101T | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 877 | Hydraulic Generation | | CAT - FILTER,ELEMENT 10 MICRON | In Stock | MEDIUM | N/A |
| 878 | Hydraulic Generation | | CAT - Cartridge, Oil Seperator | In Stock | MEDIUM | N/A |
| 879 | Hydraulic Generation | | CAT - Filter, Oil | In Stock | MEDIUM | N/A |
| 880 | Hydraulic Generation | | CAT - Oil, Cooling Compressor | In Stock | MEDIUM | N/A |
| 881 | Hydraulic Generation | | CAT - Filter, Mat | In Stock | MEDIUM | N/A |
| 882 | Hydraulic Generation | | CAT - Element, Air Filter | In Stock | MEDIUM | N/A |
| 883 | Hydraulic Generation | | GCL - THRISTOR, 5STP18F1800 V11 | In Stock | MEDIUM | N/A |
| 884 | Hydraulic Generation | | GCL - XFMR, CT 15 kV | In Stock | MEDIUM | N/A |
| 885 | Hydraulic Generation | | GCL - Pump, Vane Vick | In Stock | MEDIUM | N/A |
| 886 | Hydraulic Generation | | GCL - RELAY,OVERLOAD | In Stock | MEDIUM | N/A |
| 887 | Hydraulic Generation | | GCL - TRANSMITTER,WATER LEVEL | In Stock | MEDIUM | N/A |
| 888 | Hydraulic Generation | | GCL - Ring Assembly, Collector | In Stock | MEDIUM | N/A |
| 889 | Hydraulic Generation | | GCL - Brush, Carb Metric | In Stock | MEDIUM | N/A |
| 890 | Hydraulic Generation | | GCL - Holder, Brush Metric | In Stock | MEDIUM | N/A |
| 891 | Hydraulic Generation | | GCL - Control Board, SDCS-CON-2 | In Stock | MEDIUM | N/A |
| 892 | Hydraulic Generation | | GCL - Measuring Board ABB | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-----------------------------------|--------------|------------|------------------------|
| 893 | Hydraulic Generation | | GCL - Breaker, Volt Autom | In Stock | MEDIUM | N/A |
| 894 | Hydraulic Generation | | GCL - Bushing, HV ABB TO25W0412AT | In Stock | MEDIUM | N/A |
| 895 | Hydraulic Generation | | GCL - Card, Digital I/O ABB | In Stock | MEDIUM | N/A |
| 896 | Hydraulic Generation | | GCL - Card, Analog I/O | In Stock | MEDIUM | N/A |
| 897 | Hydraulic Generation | | GCL - Card, EXT I/O ABB | In Stock | MEDIUM | N/A |
| 898 | Hydraulic Generation | | GCL - Card Measuring SDCS-Pin51 | In Stock | MEDIUM | N/A |
| 899 | Hydraulic Generation | | GCL - Contactor, AE LINE 125VDC | In Stock | MEDIUM | N/A |
| 900 | Hydraulic Generation | | GCL - Device, Surge Suppression | In Stock | MEDIUM | N/A |
| 901 | Hydraulic Generation | | GCL - Fan, Cooling 27" ABB | In Stock | MEDIUM | N/A |
| 902 | Hydraulic Generation | | GCL - Fuse,1250A 690V 170M6166 | In Stock | MEDIUM | N/A |
| 903 | Hydraulic Generation | | GCL - Module, Serial processor | In Stock | MEDIUM | N/A |
| 904 | Hydraulic Generation | | GCL - Panel, Service UNS 0874A-P | In Stock | MEDIUM | N/A |
| 905 | Hydraulic Generation | | GCL - Power Supply, SDCS-POWL | In Stock | MEDIUM | N/A |
| 906 | Hydraulic Generation | | GCL - PowerSupply, UNS0868A-P | In Stock | MEDIUM | N/A |
| 907 | Hydraulic Generation | | GCL - Pole, Wound GE | In Stock | MEDIUM | N/A |
| 908 | Hydraulic Generation | | GCL - Jumper, Pole ASM #1 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 909 | Hydraulic Generation | | GCL - Jumper, Pole ASM #2 | In Stock | MEDIUM | N/A |
| 910 | Hydraulic Generation | | GCL - Jumper, Pole ASM #3 | In Stock | MEDIUM | N/A |
| 911 | Hydraulic Generation | | GCL - Jumper, Pole ASM #4 | In Stock | MEDIUM | N/A |
| 912 | Hydraulic Generation | | GCL - Key, Pole Driven | In Stock | MEDIUM | N/A |
| 913 | Hydraulic Generation | | GCL - Key, Pole Stationary | In Stock | MEDIUM | N/A |
| 914 | Hydraulic Generation | | GCL - Bar, Stator Bottom | In Stock | MEDIUM | N/A |
| 915 | Hydraulic Generation | | GCL - Bar, Stator Top | In Stock | MEDIUM | N/A |
| 916 | Hydraulic Generation | | GCL - Bearing, Thrust | In Stock | MEDIUM | N/A |
| 917 | Hydraulic Generation | | GCL - Bearing, Pivoted Guide | In Stock | MEDIUM | N/A |
| 918 | Hydraulic Generation | | GCL - Spring Assy, Thrust | In Stock | MEDIUM | N/A |
| 919 | Hydraulic Generation | | GCL - Spring, GE | In Stock | MEDIUM | N/A |
| 920 | Hydraulic Generation | | GCL - Oil, Turbine 46 (205L) | In Stock | MEDIUM | N/A |
| 921 | Hydraulic Generation | | GCL - Ring, Rotating GE | In Stock | MEDIUM | N/A |
| 922 | Hydraulic Generation | | GCL - Locating Plate, Pivoted | In Stock | MEDIUM | N/A |
| 923 | Hydraulic Generation | | GCL - Breaker, Volt Automatic | In Stock | MEDIUM | N/A |
| 924 | Hydraulic Generation | | GCL - Bearing, Pivoted Guide GE | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|----------------------------------|--------------|------------|------------------------|
| 925 | Hydraulic Generation | | GCL - Bearing, Thrust | In Stock | MEDIUM | N/A |
| 926 | Hydraulic Generation | | GCL - Bearing, Guide GE | In Stock | MEDIUM | N/A |
| 927 | Hydraulic Generation | | GCL - Nut, Hex M30X3.5-6H | In Stock | MEDIUM | N/A |
| 928 | Hydraulic Generation | | GCL - PIN,TAPER 25MM X 90MM | In Stock | MEDIUM | N/A |
| 929 | Hydraulic Generation | | GCL - SCREW,CAP M30X3.5-6GX130MM | In Stock | MEDIUM | N/A |
| 930 | Hydraulic Generation | | GCL - VALVE,PURGE GE | In Stock | MEDIUM | N/A |
| 931 | Hydraulic Generation | | GCL - FILTER, OIL KAESER | In Stock | MEDIUM | N/A |
| 932 | Hydraulic Generation | | GCL - FILTER, ELEMENT | In Stock | MEDIUM | N/A |
| 933 | Hydraulic Generation | | GCL - FILTER, AIR CARTRIDGE | In Stock | MEDIUM | N/A |
| 934 | Hydraulic Generation | | GCL - BELT SET, V (4 PC) | In Stock | MEDIUM | N/A |
| 935 | Hydraulic Generation | | GCL - VALVE, CHECK PRESSURE | In Stock | MEDIUM | N/A |
| 936 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 937 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 938 | Hydraulic Generation | | GCL - FILTER, MAT | In Stock | MEDIUM | N/A |
| 939 | Hydraulic Generation | | GCL - VALVE,INLET MAIN KIT | In Stock | MEDIUM | N/A |
| 940 | Hydraulic Generation | | GCL - TRANSMITTER, FRAZIL ICE | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|--------------------------------|--------------|------------|------------------------|
| 941 | Hydraulic Generation | | GCL - Bushing, Bottom Shaft | In Stock | MEDIUM | N/A |
| 942 | Hydraulic Generation | | GCL - Bushing, Packing Gland | In Stock | MEDIUM | N/A |
| 943 | Hydraulic Generation | | GCL - ETH Card | In Stock | MEDIUM | N/A |
| 944 | Hydraulic Generation | | GCL - RTD, 12.5" -50-550 Deg | In Stock | MEDIUM | N/A |
| 945 | Hydraulic Generation | | GCL - RTD, 17" -50-550 Deg C | In Stock | MEDIUM | N/A |
| 946 | Hydraulic Generation | | GCL - Probe, 741 GE | In Stock | MEDIUM | N/A |
| 947 | Hydraulic Generation | | GCL - RTD, 12.5" -50-550 Deg | In Stock | MEDIUM | N/A |
| 948 | Hydraulic Generation | | GCL - RTD, 17" -50-550 Deg C | In Stock | MEDIUM | N/A |
| 949 | Hydraulic Generation | | GCL - Inflatable Seal | In Stock | MEDIUM | N/A |
| 950 | Hydraulic Generation | | GCL - Sleeve, Shaft | In Stock | MEDIUM | N/A |
| 951 | Hydraulic Generation | | GCL - Ring, Sealing C/W Spring | In Stock | MEDIUM | N/A |
| 952 | Hydraulic Generation | | GCL - FILTER, OIL KAESER | In Stock | MEDIUM | N/A |
| 953 | Hydraulic Generation | | GCL - FILTER, ELEMENT | In Stock | MEDIUM | N/A |
| 954 | Hydraulic Generation | | GCL - FILTER, AIR CARTRIDGE | In Stock | MEDIUM | N/A |
| 955 | Hydraulic Generation | | GCL - BELT SET, V (4 PC) | In Stock | MEDIUM | N/A |
| 956 | Hydraulic Generation | | GCL - VALVE, CHECK PRESSURE | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|-----------------------------|--------------|------------|------------------------|
| 957 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 958 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 959 | Hydraulic Generation | | GCL - FILTER, MAT | In Stock | MEDIUM | N/A |
| 960 | Hydraulic Generation | | GCL - VALVE,INLET MAIN KIT | In Stock | MEDIUM | N/A |
| 961 | Hydraulic Generation | | GCL - FILTER, OIL KAESER | In Stock | MEDIUM | N/A |
| 962 | Hydraulic Generation | | GCL - FILTER, ELEMENT | In Stock | MEDIUM | N/A |
| 963 | Hydraulic Generation | | GCL - FILTER, AIR CARTRIDGE | In Stock | MEDIUM | N/A |
| 964 | Hydraulic Generation | | GCL - BELT SET, V (4 PC) | In Stock | MEDIUM | N/A |
| 965 | Hydraulic Generation | | GCL - VALVE, CHECK PRESSURE | In Stock | MEDIUM | N/A |
| 966 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 967 | Hydraulic Generation | | GCL - FILTER, INLINE | In Stock | MEDIUM | N/A |
| 968 | Hydraulic Generation | | GCL - FILTER, MAT | In Stock | MEDIUM | N/A |
| 969 | Hydraulic Generation | | GCL - VALVE,INLET MAIN KIT | In Stock | MEDIUM | N/A |
| 970 | Hydraulic Generation | | GCL - RELAY,ANTI-PUMP | In Stock | MEDIUM | N/A |
| 971 | Hydraulic Generation | | GCL - RELAY,AUX 48VDC | In Stock | MEDIUM | N/A |
| 972 | Hydraulic Generation | | GCL - RELAY,BREAKER FAIL | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|-----|----------------------|-------------|----------------------------------|--------------|------------|------------------------|
| 973 | Hydraulic Generation | | GCL - RELAY,BUSHHOLZ 250V 2AMP | In Stock | MEDIUM | N/A |
| 974 | Hydraulic Generation | | GCL - RELAY,CONTROL 120V 60HZ | In Stock | MEDIUM | N/A |
| 975 | Hydraulic Generation | | GCL - RELAY,CONTROL 120V 60HZ | In Stock | MEDIUM | N/A |
| 976 | Hydraulic Generation | | GCL - RELAY,CONTROL 120V 60HZ | In Stock | MEDIUM | N/A |
| 977 | Hydraulic Generation | | GCL - RELAY,CONTROL 125VDC | In Stock | MEDIUM | N/A |
| 978 | Hydraulic Generation | | GCL - RELAY,CONTROL 24VDC | In Stock | MEDIUM | N/A |
| 979 | Hydraulic Generation | | GCL - RELAY,FAST TRIPPING 125V | In Stock | MEDIUM | N/A |
| 980 | Hydraulic Generation | | GCL - RELAY,INTERPOSING | In Stock | MEDIUM | N/A |
| 981 | Hydraulic Generation | | GCL - RELAY,LOCKOUT 125V | In Stock | MEDIUM | N/A |
| 982 | Hydraulic Generation | | GCL - RELAY,LOCKOUT 125V | In Stock | MEDIUM | N/A |
| 983 | Hydraulic Generation | | GCL - RELAY,OVERCURRENT | In Stock | MEDIUM | N/A |
| 984 | Hydraulic Generation | | GCL - RELAY,OVERLOAD CH C306DN3B | In Stock | MEDIUM | N/A |
| 985 | Hydraulic Generation | | GCL - RELAY,PLUG-IN 14 PIN | In Stock | MEDIUM | N/A |
| 986 | Hydraulic Generation | | GCL - RELAY,PLUG-IN 14 PIN DC | In Stock | MEDIUM | N/A |
| 987 | Hydraulic Generation | | GCL - RELAY,PUSHBUTTON 110V | In Stock | MEDIUM | N/A |
| 988 | Hydraulic Generation | | GCL - RELAY,PUSHBUTTON 125V | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 989 | Hydraulic Generation | | GCL - RELAY,RESIDUAL | In Stock | MEDIUM | N/A |
| 990 | Hydraulic Generation | | GCL - RELAY,THERMISTOR 110V | In Stock | MEDIUM | N/A |
| 991 | Hydraulic Generation | | GCL - RELAY,TIME TYPE SGDM-1 | In Stock | MEDIUM | N/A |
| 992 | Hydraulic Generation | | GCL - RELAY,TIME 24-230V AC/DC | In Stock | MEDIUM | N/A |
| 993 | Hydraulic Generation | | GCL - RELAY,TRIP CIRCUIT | In Stock | MEDIUM | N/A |
| 994 | Hydraulic Generation | | GCL - RELAY,VOLTAGE UNBALANCE | In Stock | MEDIUM | N/A |
| 995 | Hydraulic Generation | | GCL - RELAY,11 PIN 24V | In Stock | MEDIUM | N/A |
| 996 | Hydraulic Generation | | GCL - RELAY,110-125V | In Stock | MEDIUM | N/A |
| 997 | Hydraulic Generation | | GCL - RELAY,110-125V ABB | In Stock | MEDIUM | N/A |
| 998 | Hydraulic Generation | | GCL - RELAY,110-125VDC | In Stock | MEDIUM | N/A |
| 999 | Hydraulic Generation | | GCL - RELAY,120V 10A DPDT | In Stock | MEDIUM | N/A |
| 1000 | Hydraulic Generation | | GCL - RELAY,14 PIN 110/120 VAC | In Stock | MEDIUM | N/A |
| 1001 | Hydraulic Generation | | GCL - RELAY,8 PIN 110/120VAC(S) | In Stock | MEDIUM | N/A |
| 1002 | Hydraulic Generation | | GCL - RELAY,8 PIN 120V AC/DC | In Stock | MEDIUM | N/A |
| 1003 | Hydraulic Generation | | GCL - SOCKET,RELAY 14 PIN 5A | In Stock | MEDIUM | N/A |
| 1004 | Hydraulic Generation | | GCL - SOCKET,RELAY 8 PIN 7A | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 1005 | Hydraulic Generation | | GCL - RELAY,8 PIN DPDT | In Stock | MEDIUM | N/A |
| 1006 | Hydraulic Generation | | GCL - Relay, Overload 3.7-12A | In Stock | MEDIUM | N/A |
| 1007 | Hydraulic Generation | | GCL - Relay, Overload 1.6-5.0A | In Stock | MEDIUM | N/A |
| 1008 | Hydraulic Generation | | GCL - Relay, Overload 0.32-1.0A | In Stock | MEDIUM | N/A |
| 1009 | Hydraulic Generation | | GCL - Module, Control Relay | In Stock | MEDIUM | N/A |
| 1010 | Hydraulic Generation | | GCL - Relay, Overload | In Stock | MEDIUM | N/A |
| 1011 | Hydraulic Generation | | GCL - Relay, Low Voltage | In Stock | MEDIUM | N/A |
| 1012 | Hydraulic Generation | | GCL - Gas, Inergen (350F3) | In Stock | MEDIUM | N/A |
| 1013 | Hydraulic Generation | | GCL - Gas, inergen (425F3) | In Stock | MEDIUM | N/A |
| 1014 | Hydraulic Generation | | GCL - Bell, Fire Alarm 10" | In Stock | MEDIUM | N/A |
| 1015 | Hydraulic Generation | | GCL - Detector, Heat 281B-PL | In Stock | MEDIUM | N/A |
| 1016 | Hydraulic Generation | | GCL - Detector, heat 135F | In Stock | MEDIUM | N/A |
| 1017 | Hydraulic Generation | | GCL - Detector, Smoke EC30DU-3 | In Stock | MEDIUM | N/A |
| 1018 | Hydraulic Generation | | GCL - Base, Smoke Detector | In Stock | MEDIUM | N/A |
| 1019 | Hydraulic Generation | | HLK - BOARD,FIRING ES | In Stock | MEDIUM | N/A |
| 1020 | Hydraulic Generation | | HLK - PANEL,CONTROL SCP/CCP | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 1021 | Hydraulic Generation | | HLK - POWER DISTRIBUTOR, ASSY | In Stock | MEDIUM | N/A |
| 1022 | Hydraulic Generation | | HLK - POWER SUPPLY,CP-C-24/10. | In Stock | MEDIUM | N/A |
| 1023 | Hydraulic Generation | | HLK - BRIDGE,THYRISTOR EG | In Stock | MEDIUM | N/A |
| 1024 | Hydraulic Generation | | HLK - BEARING KIT, | In Stock | MEDIUM | N/A |
| 1025 | Hydraulic Generation | | HLK - GASKET KIT, COMPAIR 79452 | In Stock | MEDIUM | N/A |
| 1026 | Hydraulic Generation | | HLK - SEAT/SEAL KIT, VALVE 1-1/ | In Stock | MEDIUM | N/A |
| 1027 | Hydraulic Generation | | HLK - GASKET KIT, COMPAIR 45244 | In Stock | MEDIUM | N/A |
| 1028 | Hydraulic Generation | | HLK - INSERT, COMPAIR 38275 | In Stock | MEDIUM | N/A |
| 1029 | Hydraulic Generation | | HLK - RING SET, COMPAIR 45237 | In Stock | MEDIUM | N/A |
| 1030 | Hydraulic Generation | | HLK - RING SET ASSY, COMPAIR 48 | In Stock | MEDIUM | N/A |
| 1031 | Hydraulic Generation | | HLK - SEAL, COMPAIR 13254 | In Stock | MEDIUM | N/A |
| 1032 | Hydraulic Generation | | HLK - VALVE & SPRING SET,45245 | In Stock | MEDIUM | N/A |
| 1033 | Hydraulic Generation | | HLK - VALVE ASSY, COMPAIR 47936 | In Stock | MEDIUM | N/A |
| 1034 | Hydraulic Generation | | HLK - VALVE ASSY, COMPAIR 50681 | In Stock | MEDIUM | N/A |
| 1035 | Hydraulic Generation | | HLK - VALVE ASSY, COMPAIR 48141 | In Stock | MEDIUM | N/A |
| 1036 | Hydraulic Generation | | HLK - VALVE ASSY, COMPAIR 47935 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|--------------------------------|--------------|------------|------------------------|
| 1037 | Hydraulic Generation | | HLK - BREAKER,100 AMP 600 VOLT | In Stock | MEDIUM | N/A |
| 1038 | Hydraulic Generation | | HLK - BREAKER,150A 600V | In Stock | MEDIUM | N/A |
| 1039 | Hydraulic Generation | | HLK - BREAKER,225A 600V 3P | In Stock | MEDIUM | N/A |
| 1040 | Hydraulic Generation | | HLK - BREAKER,600 VOLT 3 PHASE | In Stock | MEDIUM | N/A |
| 1041 | Hydraulic Generation | | HLK - CONTACT,AUX GE | In Stock | MEDIUM | N/A |
| 1042 | Hydraulic Generation | | HLK - CONTACTOR,FURNAS | In Stock | MEDIUM | N/A |
| 1043 | Hydraulic Generation | | HLK - XFMR,PT 600 VOLT 3 PHASE | In Stock | MEDIUM | N/A |
| 1044 | Hydraulic Generation | | HLK - MODULE,ANALOG QUANTUM | In Stock | MEDIUM | N/A |
| 1045 | Hydraulic Generation | | HLK - MODULE,CPU MODICON | In Stock | MEDIUM | N/A |
| 1046 | Hydraulic Generation | | HLK - MODULE,DISCRETE IN | In Stock | MEDIUM | N/A |
| 1047 | Hydraulic Generation | | HLK - MODULE,DISCRETE OUT | In Stock | MEDIUM | N/A |
| 1048 | Hydraulic Generation | | HLK - MODULE,ETHERNET QUANTUM | In Stock | MEDIUM | N/A |
| 1049 | Hydraulic Generation | | HLK - MODULE,GPS QUANTUM | In Stock | MEDIUM | N/A |
| 1050 | Hydraulic Generation | | HLK - MODULE,HOT STANDBY | In Stock | MEDIUM | N/A |
| 1051 | Hydraulic Generation | | HLK - MODULE,INTERFACE PLC | In Stock | MEDIUM | N/A |
| 1052 | Hydraulic Generation | | HLK - MODULE,RACK FILLER | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---------------------------------|--------------|------------|------------------------|
| 1053 | Hydraulic Generation | | HLK - MODULE,RELAY OUT | In Stock | MEDIUM | N/A |
| 1054 | Hydraulic Generation | | HLK - POWER SUPPLY, 125-24 VDC | In Stock | MEDIUM | N/A |
| 1055 | Hydraulic Generation | | HLK - POWER SUPPLY,125 VDC | In Stock | MEDIUM | N/A |
| 1056 | Hydraulic Generation | | HLK - POWER SUPPLY,125VDC 8A | In Stock | MEDIUM | N/A |
| 1057 | Hydraulic Generation | | HLK - POWER SUPPLY,24 VDC | In Stock | MEDIUM | N/A |
| 1058 | Hydraulic Generation | | HLK - REMOTE I/O HEAD,MODICON | In Stock | MEDIUM | N/A |
| 1059 | Hydraulic Generation | | HLK - ADAPTER,REMOTE I/O | In Stock | MEDIUM | N/A |
| 1060 | Hydraulic Generation | | HLK - BACKPLANE,10 SLOT MODICON | In Stock | MEDIUM | N/A |
| 1061 | Hydraulic Generation | | HLK - Ampmeter | In Stock | MEDIUM | N/A |
| 1062 | Hydraulic Generation | | HLK - Card battery charger | In Stock | MEDIUM | N/A |
| 1063 | Hydraulic Generation | | HLK - Card battery charger | In Stock | MEDIUM | N/A |
| 1064 | Hydraulic Generation | | HLK - Card battery charger | In Stock | MEDIUM | N/A |
| 1065 | Hydraulic Generation | | HLK - Card battery charger | In Stock | MEDIUM | N/A |
| 1066 | Hydraulic Generation | | HLK - Card gate pulse | In Stock | MEDIUM | N/A |
| 1067 | Hydraulic Generation | | HLK - Creep detector | In Stock | MEDIUM | N/A |
| 1068 | Hydraulic Generation | | HLK - VOLTAGE ADJUSTER | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 1069 | Hydraulic Generation | | HLK - RELAY,CONTROL AB 500F-A0D92 | In Stock | MEDIUM | N/A |
| 1070 | Hydraulic Generation | | HLK - RELAY,CONTROL 120V 60HZ | In Stock | MEDIUM | N/A |
| 1071 | Hydraulic Generation | | HLK - RELAY,CONTROL 48V | In Stock | MEDIUM | N/A |
| 1072 | Hydraulic Generation | | HLK - AUTO AIR CHARGING SOLND. | In Stock | MEDIUM | N/A |
| 1073 | Hydraulic Generation | | HLK - METER,FLOW BARTON | In Stock | MEDIUM | N/A |
| 1074 | Hydraulic Generation | | HLK - PANEL,VOLTAGE ADJUSTER | In Stock | MEDIUM | N/A |
| 1075 | Hydraulic Generation | | HLK - SOLENOID,GENERATOR AIR VALVE | In Stock | MEDIUM | N/A |
| 1076 | Hydraulic Generation | | HLK - SWITCH,LIMIT AB 802T-ATP | In Stock | MEDIUM | N/A |
| 1077 | Hydraulic Generation | | HLK - SWITCH,LIMIT AB 802T-DTP | In Stock | MEDIUM | N/A |
| 1078 | Hydraulic Generation | | HLK - SWITCH,MERCOID TYPE C-4 | In Stock | MEDIUM | N/A |
| 1079 | Hydraulic Generation | | HLK - SWITCH,PRESS OIL ALARM | In Stock | MEDIUM | N/A |
| 1080 | Hydraulic Generation | | HLK - VALVE,SOL 4-WAY SKINNER | In Stock | MEDIUM | N/A |
| 1081 | Hydraulic Generation | | HLK - COIL,AUTO AIR CHARGING SOLND. | In Stock | MEDIUM | N/A |
| 1082 | Hydraulic Generation | | HLK - PLATE,TERMINAL 3 POLE | In Stock | MEDIUM | N/A |
| 1083 | Hydraulic Generation | | HLK - PLATE,TERMINAL 6 POLE | In Stock | MEDIUM | N/A |
| 1084 | Hydraulic Generation | | HLK - IMPELLER,DEWATERING PUMP | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|------------------------------------|--------------|------------|------------------------|
| 1085 | Hydraulic Generation | | HLK - RING SET,WORTH P04643-10 | In Stock | MEDIUM | N/A |
| 1086 | Hydraulic Generation | | HLK - RING/GASKET KIT,IR 32133944 | In Stock | MEDIUM | N/A |
| 1087 | Hydraulic Generation | | HLK - THRUST PIN ASSY,IR 32218406 | In Stock | MEDIUM | N/A |
| 1088 | Hydraulic Generation | | HLK - VALVE ASSEMBLY 55 GA | In Stock | MEDIUM | N/A |
| 1089 | Hydraulic Generation | | HLK - VALVE/GASKET KIT,IR 32133936 | In Stock | MEDIUM | N/A |
| 1090 | Hydraulic Generation | | USL - VARISTOR,EXCITER | In Stock | MEDIUM | N/A |
| 1091 | Hydraulic Generation | | USL - BRIDGE,THYRISTOR EG | In Stock | MEDIUM | N/A |
| 1092 | Hydraulic Generation | | USL - CROWBAR,ES | In Stock | MEDIUM | N/A |
| 1093 | Hydraulic Generation | | USL - POWER DISTRIBUTOR, ASSY | In Stock | MEDIUM | N/A |
| 1094 | Hydraulic Generation | | USL - TRANSMITTER,PRESS 0-2.5MH20 | In Stock | MEDIUM | N/A |
| 1095 | Hydraulic Generation | | USL - BEARING, BOWL - Unwatering | In Stock | MEDIUM | N/A |
| 1096 | Hydraulic Generation | | USL - BEARING, BOWL - Drainage | In Stock | MEDIUM | N/A |
| 1097 | Hydraulic Generation | | USL - BEARING,PACKING CONTAINER | In Stock | MEDIUM | N/A |
| 1098 | Hydraulic Generation | | USL - BUSHING,IMPELLER TAPERLOCK | In Stock | MEDIUM | N/A |
| 1099 | Hydraulic Generation | | USL - BUSHING,IMPELLER TAPERLOCK | In Stock | MEDIUM | N/A |
| 1100 | Hydraulic Generation | | USL - BEARING,BIG END COMP #E02128 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 1101 | Hydraulic Generation | | USL - BEARING,COMPAIR E05519 | In Stock | MEDIUM | N/A |
| 1102 | Hydraulic Generation | | USL - BELT,V 3V950 | In Stock | MEDIUM | N/A |
| 1103 | Hydraulic Generation | | USL - BUSHING,SMALL END COM#LE02130 | In Stock | MEDIUM | N/A |
| 1104 | Hydraulic Generation | | USL - GASKET,COMPAIR E05516 | In Stock | MEDIUM | N/A |
| 1105 | Hydraulic Generation | | USL - GASKET,COMPAIR J201671 | In Stock | MEDIUM | N/A |
| 1106 | Hydraulic Generation | | USL - BEARING,MAIN D/E | In Stock | MEDIUM | N/A |
| 1107 | Hydraulic Generation | | USL - BEARING,MAIN O/E | In Stock | MEDIUM | N/A |
| 1108 | Hydraulic Generation | | USL - BELT,DRIVE COMPAIR 3VX850 | In Stock | MEDIUM | N/A |
| 1109 | Hydraulic Generation | | USL - JOINT KIT,COMPAIR 98504/1172 | In Stock | MEDIUM | N/A |
| 1110 | Hydraulic Generation | | USL - JOINT,COMPAIR C202284 | In Stock | MEDIUM | N/A |
| 1111 | Hydraulic Generation | | USL - JOINT,COMPAIR C202285 | In Stock | MEDIUM | N/A |
| 1112 | Hydraulic Generation | | USL - JOINT,COMPAIR C202285-100 | In Stock | MEDIUM | N/A |
| 1113 | Hydraulic Generation | | USL - JOINT,COMPAIR C202286 | In Stock | MEDIUM | N/A |
| 1114 | Hydraulic Generation | | USL - JOINT,COMPAIR C202287 | In Stock | MEDIUM | N/A |
| 1115 | Hydraulic Generation | | USL - RING KIT,COMPAIR 98477/1131 | In Stock | MEDIUM | N/A |
| 1116 | Hydraulic Generation | | USL - RING,PISTON 1ST STAGE | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 1117 | Hydraulic Generation | | USL - SWITCH,OIL LEVEL | In Stock | MEDIUM | N/A |
| 1118 | Hydraulic Generation | | USL - VALVE,REED 1ST STAGE | In Stock | MEDIUM | N/A |
| 1119 | Hydraulic Generation | | USL - VALVE,REED 2ND STAGE | In Stock | MEDIUM | N/A |
| 1120 | Hydraulic Generation | | USL - BEARING,BIG END COMP #E02128 | In Stock | MEDIUM | N/A |
| 1121 | Hydraulic Generation | | USL - BEARING,COMPAIR E05519 | In Stock | MEDIUM | N/A |
| 1122 | Hydraulic Generation | | USL - BELT,V 3V950 | In Stock | MEDIUM | N/A |
| 1123 | Hydraulic Generation | | USL - BUSHING,SMALL END COM#LE02130 | In Stock | MEDIUM | N/A |
| 1124 | Hydraulic Generation | | USL - GASKET,COMPAIR E05516 | In Stock | MEDIUM | N/A |
| 1125 | Hydraulic Generation | | USL - GASKET,COMPAIR J201671 | In Stock | MEDIUM | N/A |
| 1126 | Hydraulic Generation | | USL - BEARING,MAIN D/E | In Stock | MEDIUM | N/A |
| 1127 | Hydraulic Generation | | USL - BEARING,MAIN O/E | In Stock | MEDIUM | N/A |
| 1128 | Hydraulic Generation | | USL - BELT,DRIVE COMPAIR 3VX850 | In Stock | MEDIUM | N/A |
| 1129 | Hydraulic Generation | | USL - JOINT KIT,COMPAIR 98504/1172 | In Stock | MEDIUM | N/A |
| 1130 | Hydraulic Generation | | USL - JOINT,COMPAIR C202284 | In Stock | MEDIUM | N/A |
| 1131 | Hydraulic Generation | | USL - JOINT,COMPAIR C202285 | In Stock | MEDIUM | N/A |
| 1132 | Hydraulic Generation | | USL - JOINT,COMPAIR C202285-100 | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 1133 | Hydraulic Generation | | USL - JOINT,COMPAIR C202286 | In Stock | MEDIUM | N/A |
| 1134 | Hydraulic Generation | | USL - JOINT,COMPAIR C202287 | In Stock | MEDIUM | N/A |
| 1135 | Hydraulic Generation | | USL - RING KIT,COMPAIR 98477/1131 | In Stock | MEDIUM | N/A |
| 1136 | Hydraulic Generation | | USL - RING,PISTON 1ST STAGE | In Stock | MEDIUM | N/A |
| 1137 | Hydraulic Generation | | USL - SWITCH,OIL LEVEL | In Stock | MEDIUM | N/A |
| 1138 | Hydraulic Generation | | USL - VALVE,REED 1ST STAGE | In Stock | MEDIUM | N/A |
| 1139 | Hydraulic Generation | | USL - VALVE,REED 2ND STAGE | In Stock | MEDIUM | N/A |
| 1140 | Hydraulic Generation | | USL - COIL,SULL 250018-971 | In Stock | MEDIUM | N/A |
| 1141 | Hydraulic Generation | | USL - FILTER,COOLANT (ELEMENT ONLY) | In Stock | MEDIUM | N/A |
| 1142 | Hydraulic Generation | | USL - GASKET KIT,IR X1453T47 | In Stock | MEDIUM | N/A |
| 1143 | Hydraulic Generation | | USL - GASKET,FLEXMASTER 250007-559 | In Stock | MEDIUM | N/A |
| 1144 | Hydraulic Generation | | USL - GASKET,SULL 040517 | In Stock | MEDIUM | N/A |
| 1145 | Hydraulic Generation | | USL - REGULATOR KIT,SULL 250019-453 | In Stock | MEDIUM | N/A |
| 1146 | Hydraulic Generation | | USL - BUSHING,SIDE ROLLER | In Stock | MEDIUM | N/A |
| 1147 | Hydraulic Generation | | USL - BUSHING,WHEEL | In Stock | MEDIUM | N/A |
| 1148 | Hydraulic Generation | | USL - HEATER,GAIN 3.2 KW 575 V | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|----------------------------------|--------------|------------|------------------------|
| 1149 | Hydraulic Generation | | USL - HEATER,SHEAVE BLOCK 1366 W | In Stock | MEDIUM | N/A |
| 1150 | Hydraulic Generation | | USL - HEATER,GATE (DUCT BLOWE | In Stock | MEDIUM | N/A |
| 1151 | Hydraulic Generation | | USL - SEAL,FLAT 22' LENGTH | In Stock | MEDIUM | N/A |
| 1152 | Hydraulic Generation | | USL - SEAL,J C/W 2 CORNERS | In Stock | MEDIUM | N/A |
| 1153 | Hydraulic Generation | | USL - SEAL,J C/W 4 CORNERS | In Stock | MEDIUM | N/A |
| 1154 | Hydraulic Generation | | USL - SEAL,J 22' LENGTH | In Stock | MEDIUM | N/A |
| 1155 | Hydraulic Generation | | PRV - MOTOR,GOVERNOR PUMP | In Stock | MEDIUM | N/A |
| 1156 | Hydraulic Generation | | PRV - PUMP,PH PVP1630-R212 | In Stock | MEDIUM | N/A |
| 1157 | Hydraulic Generation | | PRV - TACHOMETER,TAK PAK 3 | In Stock | MEDIUM | N/A |
| 1158 | Hydraulic Generation | | PRV - DIODE,GE 4001A1158JA | In Stock | MEDIUM | N/A |
| 1159 | Hydraulic Generation | | PRV - DIODE,GE 4001A1158JB | In Stock | MEDIUM | N/A |
| 1160 | Hydraulic Generation | | PRV - DIODE,GE 6RT44UV698-8841 | In Stock | MEDIUM | N/A |
| 1161 | Hydraulic Generation | | PRV - COIL,GE 22-115-045-01 | In Stock | MEDIUM | N/A |
| 1162 | Hydraulic Generation | | PRV - CONTACTOR,FIELD FLASHING | In Stock | MEDIUM | N/A |
| 1163 | Hydraulic Generation | | PRV - BLOCK POWERTRAC,115VAC/1 | In Stock | MEDIUM | N/A |
| 1164 | Hydraulic Generation | | PRV - Bearing, Lower Guide | In Stock | MEDIUM | N/A |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|-------------------------------------|--------------|------------|------------------------|
| 1165 | Hydraulic Generation | | PRV - Bearing, Upper Thrust | In Stock | MEDIUM | N/A |
| 1166 | Hydraulic Generation | | PRV - Bearing, Upper Guide | In Stock | MEDIUM | N/A |
| 1167 | Hydraulic Generation | | PRV - Pad, Guide Bearing | In Stock | MEDIUM | N/A |
| 1168 | Hydraulic Generation | | PRV - METER, FLOW OMEGA FL-6318B | In Stock | MEDIUM | N/A |
| 1169 | Hydraulic Generation | | PRV - METER, FLOW WATER 1000# | In Stock | MEDIUM | N/A |
| 1170 | Hydraulic Generation | | PRV - MAGNETROL, D-B10-1GBA-ABM | In Stock | MEDIUM | N/A |
| 1171 | Hydraulic Generation | | EBBE - GEAR, HANDWHEEL | In Stock | MEDIUM | N/A |
| 1172 | Hydraulic Generation | | EBBE - GEAR, HELICAL SET | In Stock | MEDIUM | N/A |
| 1173 | Hydraulic Generation | | EBBE - GEAR, WORM 16:1 RATIO | In Stock | MEDIUM | N/A |
| 1174 | Hydraulic Generation | | EBBE - LINK, DECLUTCH | In Stock | MEDIUM | N/A |
| 1175 | Hydraulic Generation | | EBBE - PIN, FORK PIVOT | In Stock | MEDIUM | N/A |
| 1176 | Hydraulic Generation | | BDE - ACCUMULATOR TANK Level switch | In Stock | MEDIUM | N/A |
| 1177 | Hydraulic Generation | | PRV - PLC Power Supply | In Stock | MEDIUM | N/A |
| 1178 | Hydraulic Generation | | PRV - PLC CPU Module | In Stock | MEDIUM | N/A |
| 1179 | Hydraulic Generation | | BDE - Unit 7 RECTIFYING TRANSFORMER | On Order | MEDIUM | 15-Dec-17 |
| 1180 | Hydraulic Generation | | HLK - Thrust/Guide Bearing Coolers | On Order | MEDIUM | 30-Nov-17 |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|--|---------------|------------|------------------------|
| 1181 | Hydraulic Generation | | HLK - Slip ring | On Order | MEDIUM | 31-May-18 |
| 1182 | Hydraulic Generation | | HLK - RECTIFYING TRANSFORMER | On Order | HIGH | 15-Dec-17 |
| 1183 | Hydraulic Generation | | Cat- Turbine Bearing Cooler | On Order | HIGH | 30-Nov-17 |
| 1184 | Hydraulic Generation | | USL- Rotor Drive Key System | On Order | MEDIUM | 30-Nov-17 |
| 1185 | Hydraulic Generation | | Cat- minimal pressure Valve | On Order | MEDIUM | 17-Nov-17 |
| 1186 | Hydraulic Generation | | BDE -7 Slip Ring | On Order | MEDIUM | 1-Nov-17 |
| 1187 | Hydraulic Generation | | HLK - STATION SERVICE SWITCHGEAR - Breaker (Federal Pioneer) | Order Pending | HIGH | Q3 2018 |
| 1188 | Hydraulic Generation | | BDE - ACCUMULATOR TANK Pressure switch | Order Pending | Medium | 31-Mar-18 |
| 1189 | Hydraulic Generation | | BDE - NEUTRAL GROUND TRANSFORMER | Order Pending | Medium | 30-Nov-18 |
| 1190 | Hydraulic Generation | | CAT - Potential Transformer | Order Pending | Medium | 30-Nov-18 |
| 1191 | Hydraulic Generation | | CAT - Lightning Arrestor - Surge Suppresor | Order Pending | Medium | 30-Nov-18 |
| 1192 | Hydraulic Generation | | GCL - Potential Transformer | Order Pending | Medium | 30-Nov-18 |
| 1193 | Hydraulic Generation | | GCL - Rectifier Transformer | Order Pending | Medium | TBD |
| 1194 | Hydraulic Generation | | GCL - Synchronizer | Order Pending | Medium | 30-Nov-18 |
| 1195 | Hydraulic Generation | | GCL - Media converter | Order Pending | Medium | 30-Nov-18 |
| 1196 | Hydraulic Generation | | GCL - CMU | Order Pending | Medium | 30-Nov-18 |

Appendix G:
Critical Spares Status for Hydraulic Generation

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---|---------------|------------|------------------------|
| 1197 | Hydraulic Generation | | GCL - Power Supply | Order Pending | Medium | 30-Nov-18 |
| 1198 | Hydraulic Generation | | GCL - LVDT | Order Pending | Medium | 30-Nov-18 |
| 1199 | Hydraulic Generation | | GCL - MLDT | Order Pending | Medium | 30-Nov-18 |
| 1200 | Hydraulic Generation | | PRV - PLC Back Plane | Order Pending | Medium | 30-Nov-18 |
| 1201 | Hydraulic Generation | | PRV - PLC Digital I/O | Order Pending | Medium | 30-Nov-18 |
| 1202 | Hydraulic Generation | | PRV - PLC Analog I/O | Order Pending | Medium | 30-Nov-18 |
| 1203 | Hydraulic Generation | | PRV - PLC Genius Bus Controller Card | Order Pending | Medium | 30-Nov-18 |
| 1204 | Hydraulic Generation | | PRV - PLC Relay Output Modules | Order Pending | Medium | 30-Nov-18 |
| 1205 | Hydraulic Generation | | PRV - PLC Ethernet Module | Order Pending | Medium | 30-Nov-18 |
| 1206 | Hydraulic Generation | | HLK - PMG Speed Switch Bracket | Order Pending | Medium | 30-Nov-18 |
| 1207 | Hydraulic Generation | | HLK - Accumulator tank Solinoid Valve | Order Pending | Medium | 30-Nov-18 |
| 1208 | Hydraulic Generation | | HLK - Exciter Field Breaker | Order Pending | Medium | 30-Nov-18 |
| 1209 | Hydraulic Generation | | HLK- Turbine Bearing Cooler | Order Pending | Medium | 30-Nov-18 |
| 1210 | Hydraulic Generation | | BDE- C/T 50/51 | Order Pending | Medium | 30-Nov-18 |
| 1211 | Hydraulic Generation | | BDE - Heat Sink Exciter | Order Pending | Medium | 30-Nov-19 |
| 1212 | Hydraulic Generation | | BDE Unit 7- Stator circuit ring jumpers | Order Pending | Medium | 30-Nov-19 |

**Appendix G:
Critical Spares Status for Hydraulic Generation**

| # | Operational Area | Part Number | Description | Stock Status | Risk Score | Expected Delivery Date |
|------|----------------------|-------------|---------------------------------------|---------------|------------|------------------------|
| 1213 | Hydraulic Generation | | BDE Unit 7- Neutral ground resistor | Order Pending | Medium | 30-Nov-19 |
| 1214 | Hydraulic Generation | | PRV- Turbine bearing Cooler | Order Pending | Medium | 30-Nov-18 |
| 1215 | Hydraulic Generation | | USL- Governor Pump | Order Pending | Medium | 30-Nov-18 |
| 1216 | Hydraulic Generation | | HLK - GENERATOR CIRCUIT BREAKER | Capital | MEDIUM | 30-Nov-18 |
| 1217 | Hydraulic Generation | | HLK - UPPER GUIDE BEARING COOLER | Capital | MEDIUM | 30-Nov-19 |
| 1218 | Hydraulic Generation | | CAT - EXCITATION TRF | Capital | HIGH | 30-Nov-18 |
| 1219 | Hydraulic Generation | | HLK - STN SERVICE TRANSFORMER (SST-1) | Capital | HIGH | 30-Nov-18 |
| 1220 | Hydraulic Generation | | HLK - SURFACE AIR COOLERS | Capital | MEDIUM | 30-Nov-19 |
| 1221 | Hydraulic Generation | | HLK - Circuit Breaker | Capital | MEDIUM | 30-Nov-19 |
| 1222 | Hydraulic Generation | | HLK - Wicket Gate Bushings | Capital | MEDIUM | 30-Nov-19 |

Summary of Gas Turbine Critical Spares:

In Stock 1178
 On Order 8
 Order Pending 29
 Capital 7
Grand Total 1222