

2017/2018 Winter Readiness Planning

As of December 1, 2017

December 8, 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
2.2.1	Scheduled Completion after December 1, 2017 Deadline	7
2.3	AWP and WR Status: Hydraulic Units.....	9
2.4	AWP and WR Status: Transmission and Terminal Stations.....	12
2.4.1	Scheduled Completion after December 1, 2017 Deadline	12
2.4.2	Deferred Until 2018	13
3.0	Status of Winter Readiness for Capital Projects	16
4.0	Plant and Equipment Testing.....	17
4.1	Thermal Generation	17
4.2	Hydraulic Generation	18
4.3	Transmission and Terminal Stations	18
4.3.1	Transmission	18
4.3.2	Terminal Stations	19
4.3.3	Transmission and Terminal Station Testing.....	19
4.4	Gas Turbines – Holyrood, Hardwoods and Stephenville	20
5.0	Generation Outage Schedule.....	20
5.1	Unplanned Outage	20
5.2	Deratings	21
6.0	Critical Spares.....	21
6.1	Overview	21
6.2	2017/2018 Winter Season	22

7.0	Forecasted Loads, Capacity and Reserves	23
8.0	Risks and Risk Mitigation	25
8.1	Transmission Line TL267	25
8.2	Bay d’Espoir Penstock 1	26
8.3	Capital Projects.....	26
8.4	Thermal Generation – Holyrood Rated Output	28
8.5	Holyrood Diesel Generation.....	30
8.6	Gas Turbines.....	31
8.7	Exploits Generation (Grand Falls Unit 4).....	31
8.8	Bay d’Espoir Reservoir Levels.....	31
8.9	Critical Spares.....	32
9.0	Gas Turbine Failure Analysis – Implementation Update for Recommended Actions	32
9.1	Background.....	32
9.2	Implementation Status Summary	33
10.0	Conclusion.....	36

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 December 1, 2017
Appendix C	Status of Winter Readiness Testing of Plant and Equipment – Hydraulic Generation as of December 1, 2017
Appendix D	Master Generation Outage Schedule – December 2017
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 an annual report related to its winter
4 readiness planning for the upcoming winter season (Annual Winter Readiness Report) and
5 provide updates to this Annual Winter Readiness Report on October 30, 2017 and November
6 30, 2017.

7
8 Hydro’s 2017/2018 Annual Winter Readiness Report was filed with the Board on October 2,
9 2017, for the 2017/2018 winter season (September Report) and an update was provided on
10 October 30, 2017 (October Update). Hydro requested that its final report be submitted on
11 December 8, 2017 and the Board approved Hydro’s extension request in a letter dated
12 October 19, 2017. This is Hydro’s update to the Annual Winter Readiness Report (the
13 December Update Report). All data in this report is as of December 1, 2017, unless otherwise
14 noted.

15

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

- 17 1. The status of Annual Work Plan (AWP) items, in the format previously provided to the
18 Board, for Hydro’s generating plants and transmission and terminal stations; including
19 the completion date, outstanding items to complete, and any risks to completion or as
20 a result of failure to complete;
- 21 2. A description and schedule for all outstanding 2017 capital projects for Hydro’s
22 generating plant and transmission and terminal stations; including progress on
23 completion status to date and expected completion date;
- 24 3. The identification of all equipment and plant testing to be carried out in advance of the
25 winter period (generation plant, emergency diesels, black start generators, fire
26 systems, transmission system equipment); including progress on completion status to
27 date;

- 1 4. The planned generation outage schedule for the period November 1 to December 31,
2 2017; including an explanation for any planned outages extending beyond December
3 1, 2017;
- 4 5. An update of critical spares assessment and procurement;
- 5 6. The forecast loads and expected generation capacity and reserves (setting out the
6 basis for calculation) for the upcoming winter as of December 1, 2017; and including
7 capacity assistance agreements in place or planned; and,
- 8 7. An identification of any risks that could impact the winter readiness of assets as of
9 December 1, 2017 and associated contingency plans.
- 10 8. In addition to the winter readiness activities, Section 9 of this report provides an
11 update on the implementation of recommendations that resulted from the root cause
12 analysis of the gas turbine engine failures and the operations and maintenance review,
13 which was committed to in the update report Hydro submitted to the Board on July 4,
14 2017.

15
16 Some of the major items of note in Report as of December 1, 2017 include:

- 17 1. Updates to the Annual Work Plan and Winter Readiness Activities (see Section 2.0);
- 18 2. Updates to the Winter Readiness Capital Projects, including one item being added to
19 the list of Capital Projects for 2017 (see Section 3 and Appendix A);
- 20 3. Changes to the Master Generation Outage Schedule (see Section 5 and Appendix D);
- 21 4. Updates to risks and mitigation strategies to reflect the progress and updates received
22 in December 2017; and
- 23 5. Update on the implementation of recommendations that resulted from the root cause
24 analyses of the gas turbine engine failures (see Section 9).

25 Although completed on December 6, 2017 after the formal Winter Readiness cut-off date, the
26 new transmission line TL 267 went into service on December 6, 2017, removing the
27 transmission constraint that existed to the Avalon Peninsula.

1 As noted in various sections of the report, work is ongoing on several winter readiness items
2 that will extend beyond the December 1, 2017 winter readiness date. Any activities that are
3 completed after December 1, 2017 and on or before December 8, 2017 have been noted in
4 this report. Hydro will continue to track these activities, manage identified risks, and will
5 provide an update to the Board on January 19, 2018.

6

7 **2.0 Annual Work Plan Status**

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

14

15 This section of the Report produces a consolidated summary of actual AWP progress, both for
16 the entire plan (first chart in each set) and the winter readiness (WR) tasks (second chart in
17 each set) versus the plan, as of December 1, 2017, for each of the following areas of
18 operations:

- 19 1. Holyrood Thermal Generating Station:
 - 20 a. Units 1, 2, and 3; and
 - 21 b. Balance of Plant, including black-start diesels.
- 22 2. Gas Turbines:
 - 23 a. Holyrood Gas Turbine;
 - 24 b. Hardwoods; and
 - 25 c. Stephenville.
- 26 3. Hydraulic Generation:
 - 27 a. Bay d'Espoir;
 - 28 b. Cat Arm;
 - 29 c. Hinds Lake;

- 1 d. Paradise River;
- 2 e. Upper Salmon; and
- 3 f. Granite Canal.
- 4 4. Transmission and Terminal Stations:
- 5 a. Transmission; and
- 6 b. Terminal Stations.

7

8 Each chart includes the completed and not completed AWP and WR tasks, as well as a

9 progress bar indicating the planned task completion target to date. It is important to note that

10 capital project execution items are not included in these charts, but are reported in Section 3.

11

12 A text box below each WR chart below indicates Hydro's completion status as of December 1,

13 2017 in relation to AWP winter readiness activities (Green: Target Achieved, Red: Target Not

14 Met). Relevant highlights are also provided.

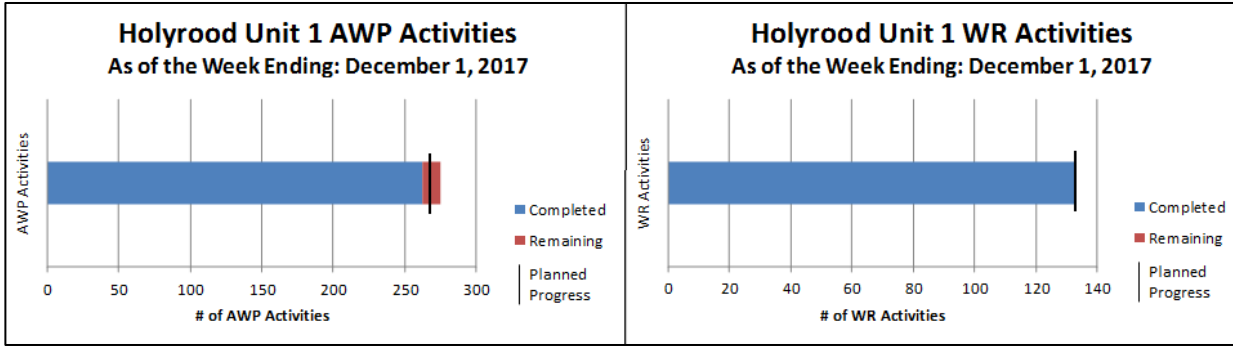
15

16 **2.1 AWP and WR Status: Holyrood Thermal Generating Station**

17 The status of AWP and WR items at the Holyrood Thermal Generating Station (Holyrood) is

18 summarized in the charts below. As noted, all winter readiness execution has been

19 completed.

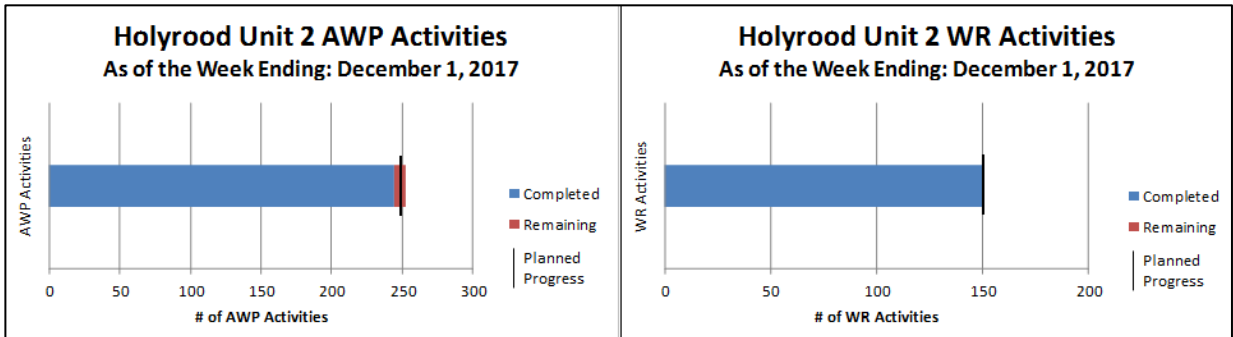


Holyrood Unit 1

Completion Status: Target Achieved

Comments and Schedule Notables:

- Unit 1 overall AWP completion status is 95% to date.
- Unit 1 planned WR work is 100% complete for 2017.

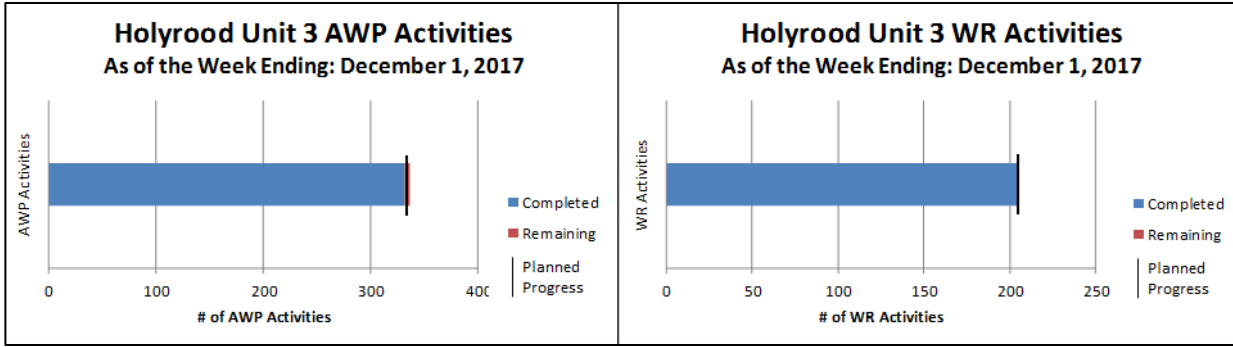


Holyrood Unit 2

Completion Status: Target Achieved

Comments and Schedule Notables:

- Unit 2 overall AWP completion status is 97% to date.
- Unit 2 planned WR work is 100% complete for 2017.

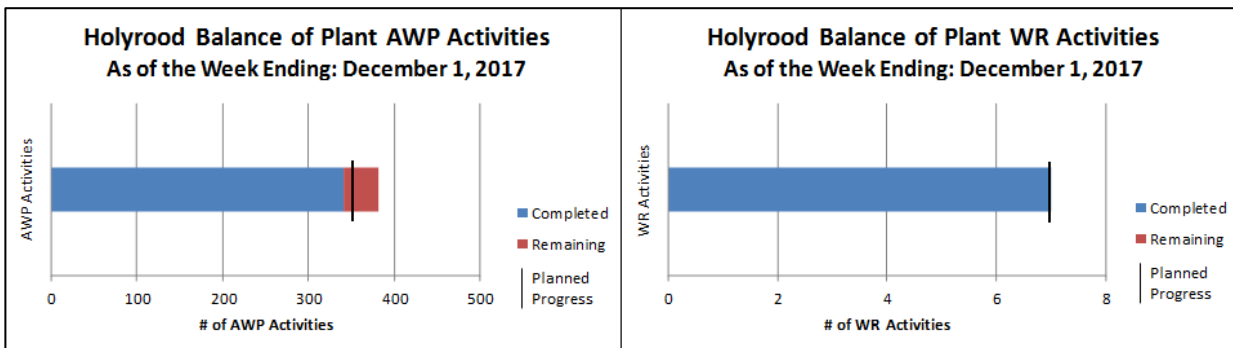


Holyrood Unit 3

Completion Status: **Target Achieved**

Comments and Schedule Notables:

- Unit 3 overall AWP completion status is 99% to date.
- Unit 3 planned WR work is 100% complete for 2017.



Holyrood – Balance of Plant

Completion Status: **Target Achieved**

Comments and Schedule Notables:

- Balance of plant overall AWP completion status is 89% to date.
- Balance of plant planned WR work is 100% complete for 2017.
- Balance of Plant work remaining to be completed in the AWP is typically completed on-line and is on track to be completed by year end, as scheduled.

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

- 2 The AWP and WR execution at the Holyrood Gas Turbine, and the Hardwoods and
- 3 Stephenville gas turbines is summarized in the following charts, as of December 1, 2017. 77%

1 of the AWP and 94% of the WR work has been completed for the Holyrood Gas Turbine and
2 93% of the AWP and WR activities are complete for both Hardwoods and Stephenville.

3

4 There are three remaining WR items to be completed for the Holyrood Gas Turbine and one
5 remaining WR item for each of the Hardwoods and Stephenville gas turbines, as listed in
6 Section 2.2.1. The final annual inspections the Holyrood and Hardwoods gas turbines require a
7 short outage and have been delayed due to other system conditions, including the outages to
8 Bay d'Espoir Units 1 and 2, and the maintenance outages at Holyrood. All of these items are
9 scheduled to be completed prior to year end.

10

11 **2.2.1 Scheduled Completion after December 1, 2017 Deadline**

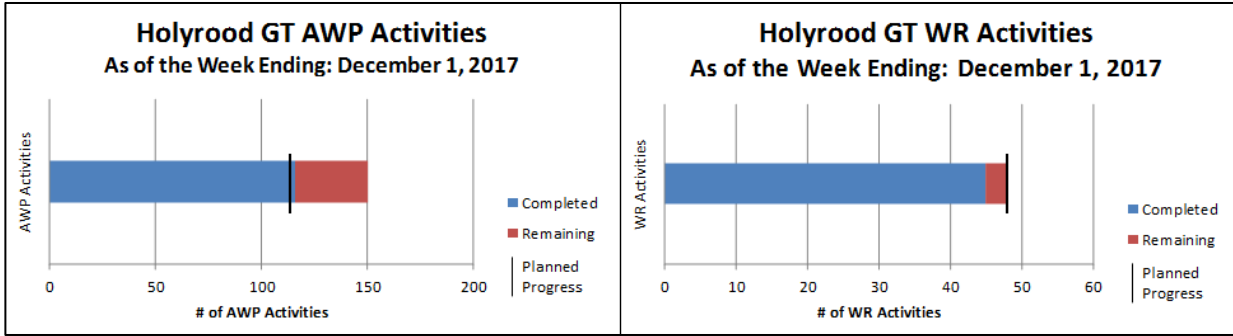
12 1. Gantry inspection at the Stephenville Gas Turbine. This inspection was completed
13 December 4, 2017. The WR Activities for the Stephenville Gas Turbine are now
14 complete.

15 2. Annual inspection of exhaust louvers for the Holyrood Gas Turbine. This inspection was
16 completed December 8, 2017.

17 3. Replace service computer for the Hardwoods Gas Turbine. This work is scheduled for
18 completion by December 15, 2017.

19 4. Annual inspection of lube oil for the Holyrood Gas Turbine. This is 50% complete and
20 the remainder of this work is now scheduled for completion by December 22, 2017.

21 5. Annual inspection of emergency diesel for the Holyrood Gas Turbine. This inspection is
22 now scheduled for completion by December 15, 2017.

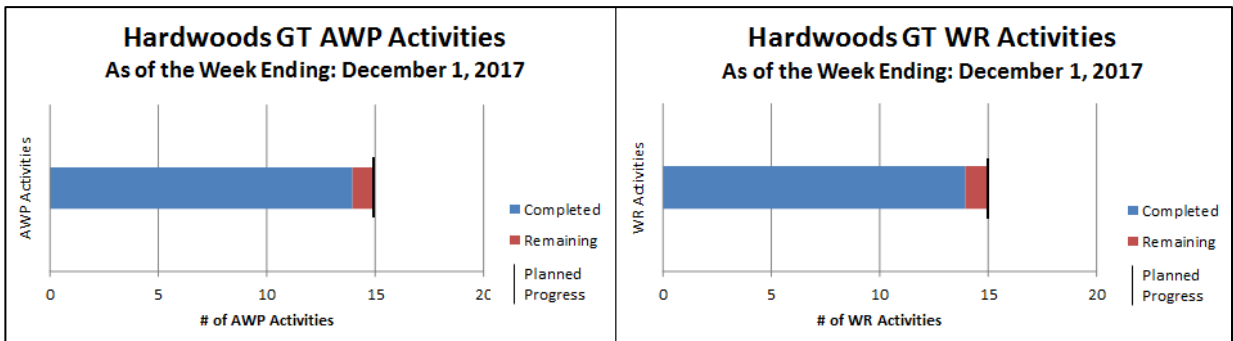


Holyrood Gas Turbine

Completion Status: **Target Not Met**

Comments and Schedule Notables:

- Holyrood GT overall AWP completion status is 77% complete.
- Holyrood GT planned WR completion status is 94% complete.

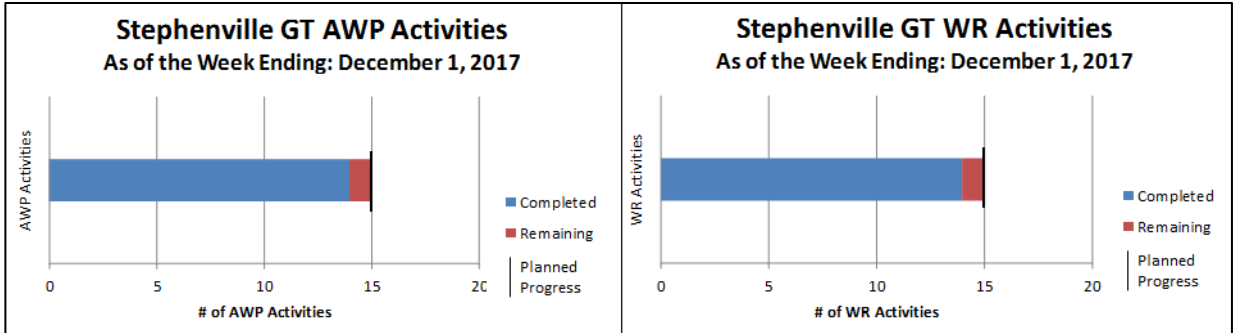


Hardwoods Gas Turbine

Completion Status: **Target Not Met**

Comments and Schedule Notables:

- Hardwoods GT overall AWP completion status is 93% to date.
- Hardwoods GT planned WR completion status is 93% complete to date.



Stephenville Gas Turbine

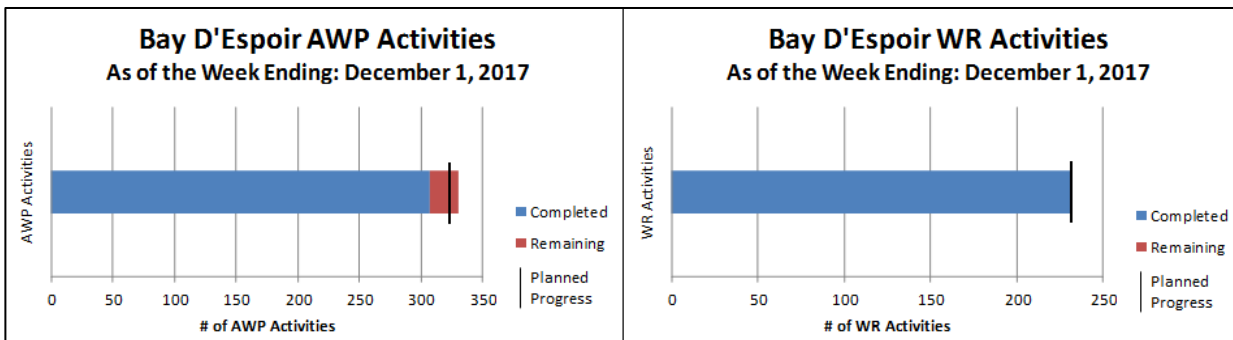
Completion Status: Target Not Met

Comments and Schedule Notables:

- Stephenville GT overall AWP completion status is 93% to date.
- Stephenville GT planned WR completion status is 93% complete to date.
- Stephenville GT planned WR activities were completed December 4, 2017.

1 2.3 AWP and WR Status: Hydraulic Units

2 The AWP and WR execution at Bay d’Espoir and other hydraulic generation facilities is
 3 summarized in the charts below, as of December 1, 2017. As noted, all WR execution has been
 4 completed.

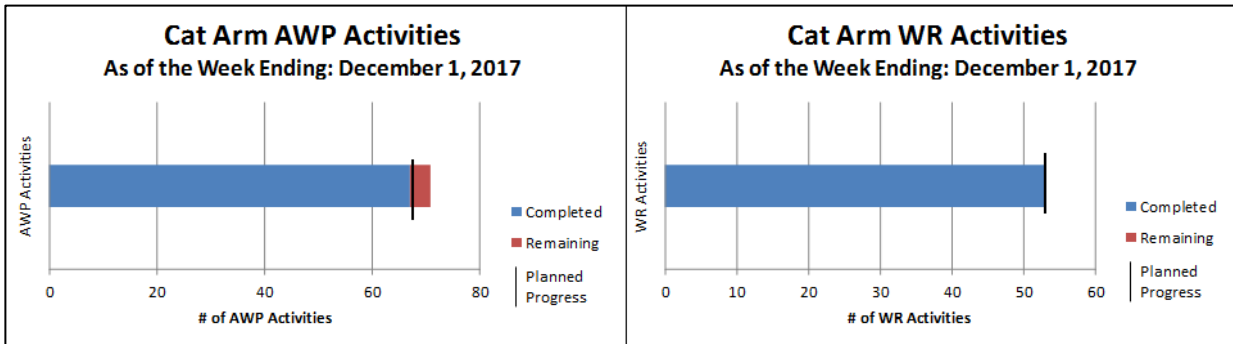


Bay d’Espoir Hydroelectric Units

Completion Status: Target Achieved

Comments and Schedule Notables:

- Bay d’Espoir overall AWP completion status, including work in progress, is 93% to date.
- Bay d’Espoir planned WR work is 100% complete for 2017.

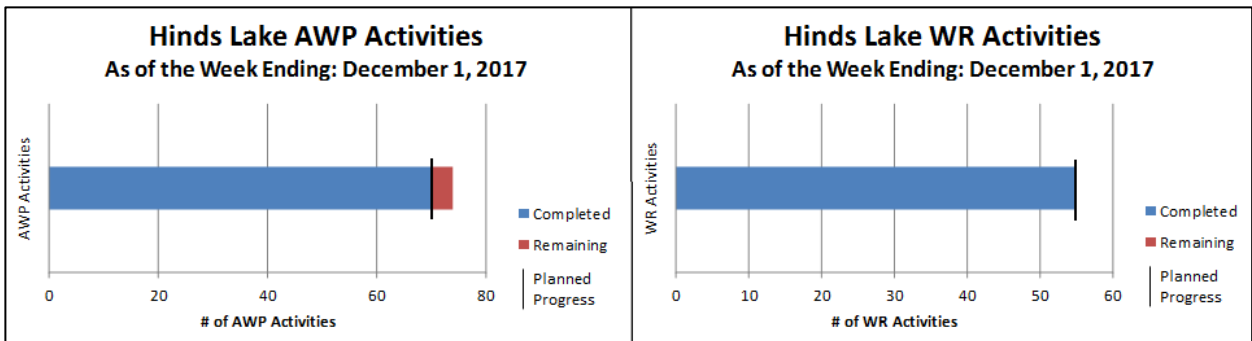


Cat Arm Hydroelectric Units

Completion Status: Target Achieved

Comments and Schedule Notables:

- Cat Arm overall AWP completion status, including work in progress, is 94% complete to date.
- Cat Arm planned WR work is 100% complete for 2017.
- Remaining on-line planned work is on schedule for completion in 2017.

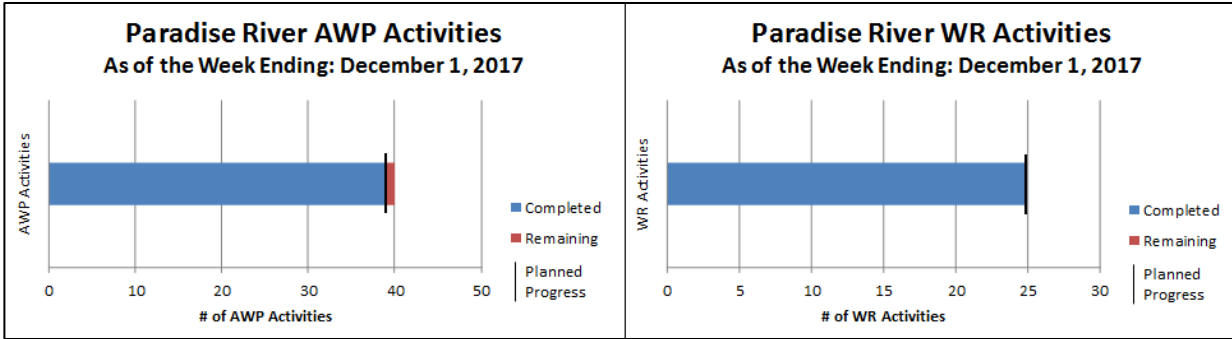


Hinds Lake Hydroelectric Unit:

Completion Status: Target Achieved

Comments and Schedule Notables:

- Hinds Lake overall AWP completion status, including work in progress, is 95% complete to date.
- Hinds Lake planned WR work is 100% complete for 2017.
- Remaining on-line planned work is on schedule for completion in 2017.

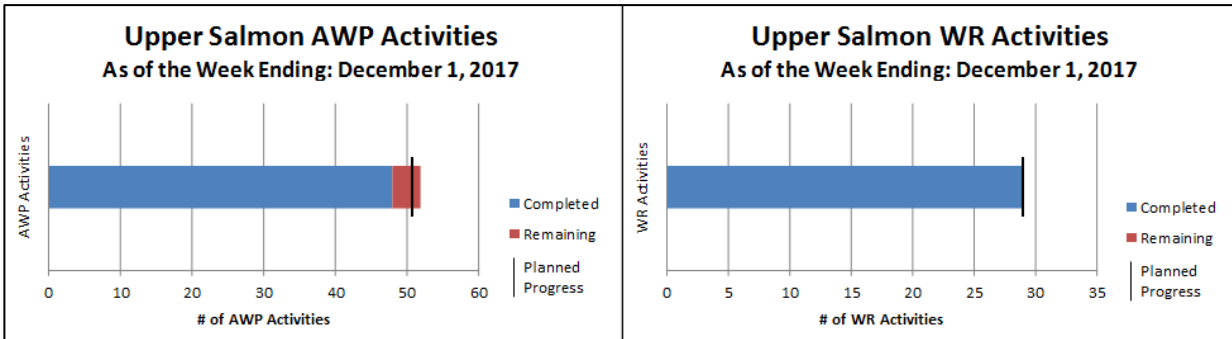


Paradise River Hydroelectric Unit:

Completion Status: Target Achieved

Comments and Schedule Notables:

- Paradise River overall AWP completion status, including work in progress, is 98% complete to date.
- Paradise River planned WR work is 100% complete for 2017.
- Remaining on-line planned work is on schedule for successful for 2017.

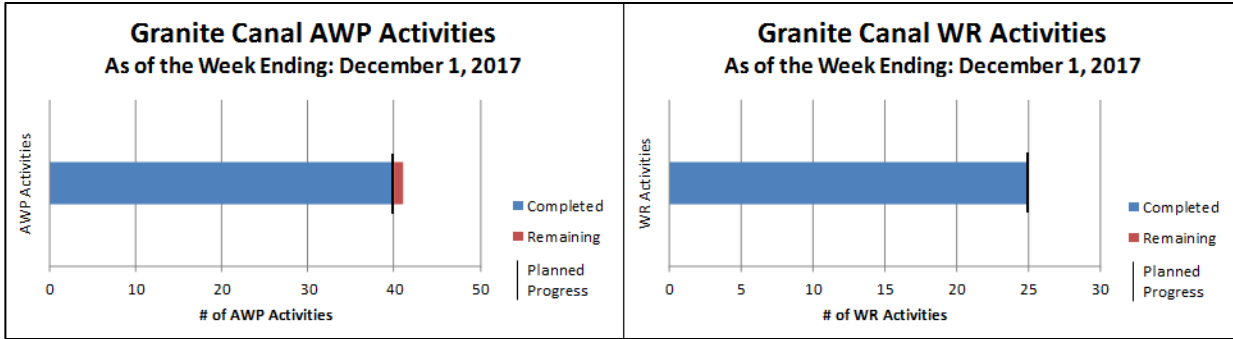


Upper Salmon Hydroelectric Unit:

Completion Status: Target Achieved

Comments and Schedule Notables:

- Upper Salmon overall AWP completion status, including work in progress, is 92% complete to date.
- Upper Salmon planned WR work is 100% complete for 2017.
- Remaining on-line planned work is on schedule for successful completion in 2017.



Granite Canal Hydroelectric Units:

Completion Status: Target Achieved

Comments and Schedule Notables:

- Granite Canal overall AWP completion status, including work in progress, is 98% complete to date.
- Granite Canal planned WR work is 100% complete for 2017.
- Remaining on-line planned work is on schedule for completion in 2017.

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

2 The current status of AWP and WR execution for both transmission line and terminal station
 3 facilities on the Island Interconnected System (IIS) (Northern, Western, and Eastern regions) is
 4 summarized in the charts below.

5
 6 All WR activities in Transmission are complete. Thirteen WR items in the Terminal Stations for
 7 the Eastern and Western Region remain incomplete. Eleven of these items are scheduled to
 8 be completed in 2017, after the December 1, 2017 deadline, and two of these items will be
 9 deferred until 2018.

10
 11 **2.4.1 Scheduled Completion after December 1, 2017 Deadline**

- 12 1. Preventive maintenance inspection of the gantry on the Stephenville Gas Turbine was
 13 rescheduled to align with the hoist replacement. This work was completed on
 14 December 4, 2017.

- 1 2. Corrective maintenance work to replace station service insulator at the Howley
2 Terminal Station was rescheduled to align with customer outage in Hampden. This
3 work was completed December 2, 2017.
- 4 3. Three Corner Brook Frequency Converter corrective maintenance items were delayed
5 to align with customer outage scheduled for December 6, 2017, which will also
6 minimize impacts to customer. This work was completed December 6, 2017.
- 7 4. Four verifications of the Breaker Failure System on Hardwoods Transformers T1, T2,
8 T3, and T4 were delayed due to delays in capital project upgrades as a result of delays
9 in receiving the required materials. This verification is scheduled for completion by
10 December 15, 2017.
- 11 5. Preventive maintenance work on Hardwoods B8B9 Operate Breaker delayed due to
12 coordination of work with Newfoundland Power. This work is scheduled for
13 completion by December 15, 2017.
- 14 6. Preventive maintenance work to swap computers on the Hardwoods Gas Turbine was
15 delayed due to system loading and conditions. This work has been scheduled for
16 completion by December 15, 2017.

17

18 **2.4.2 Deferred Until 2018**

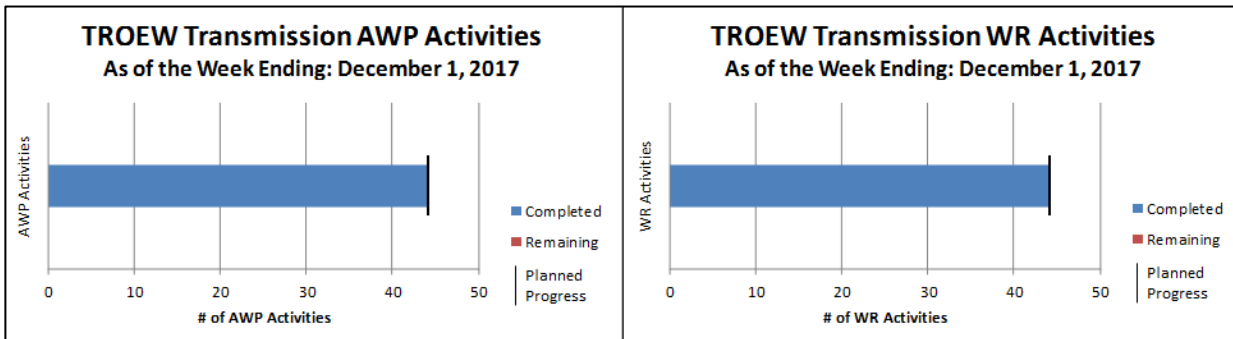
- 19 1. Corrective maintenance on B2B3-1 230 kV Disconnect Switch in Bay d'Espoir is
20 deferred until 2018 because systems conditions at the time the job was originally
21 scheduled did not allow for the work on the disconnect switch. These system
22 conditions still persist. The work will be rescheduled in 2018 when the system loading
23 and conditions allow for the work to be completed. The current estimate for
24 completion is April, 2018.

25

26 The motor operator does not work but this disconnect switch can still be operated
27 manually. Work will continue to investigate the cause of the motor issues.

2. Work to replace the copper braids on Disconnect Switch B2B3 at Bottom Brook is deferred until 2018 because the work could not be completed as planned due to switching requirements during energization of transformers T3 and T1. The work will be rescheduled in 2018 when the system loading and conditions allow for the work to be completed. The current estimate for completion is April, 2018.

Infrared scans have been performed on the braid connections and no issues were reported. If this normally open disconnect is closed again during the winter, a second infrared scan, and additional scans, if required, will be completed to ensure no issues with the braid connections.

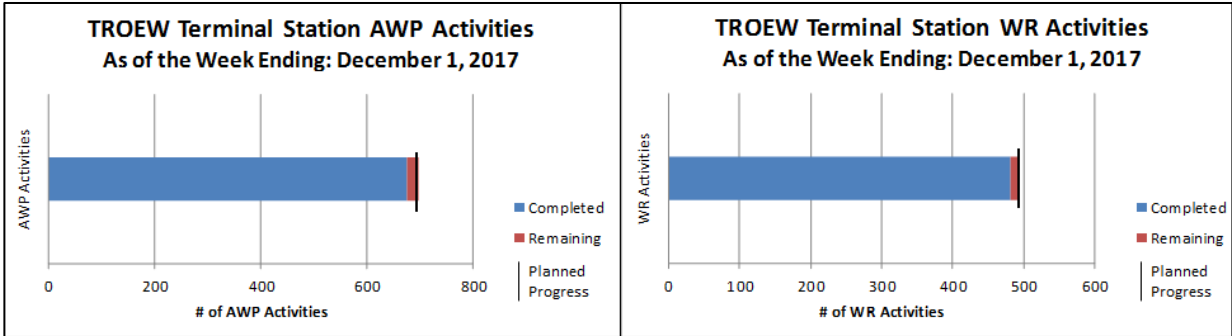


Transmission and Rural Operations (Eastern and Western) - Transmission:

Completion Status: Target Achieved

Comments and Schedule Notables:

- TROEW Transmission overall AWP work is 100% complete.
- TROEW Transmission planned WR work is 100% complete for 2017.

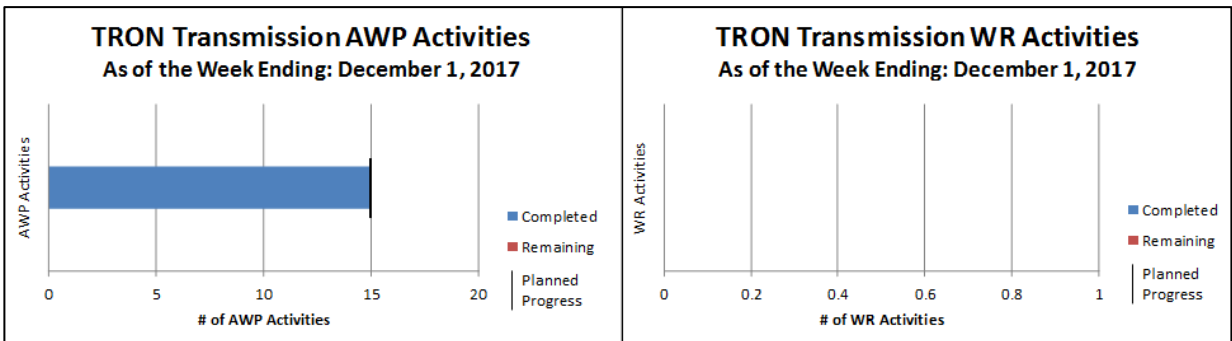


Transmission and Rural Operations (Eastern and Western) - Terminal Stations:

Completion Status: Target Not Met

Comments and Schedule Notables:

- TROEW Terminal Station overall AWP completion status is 97% to date.
- TROEW Terminal Station planned WR work is 100% complete for 2017.

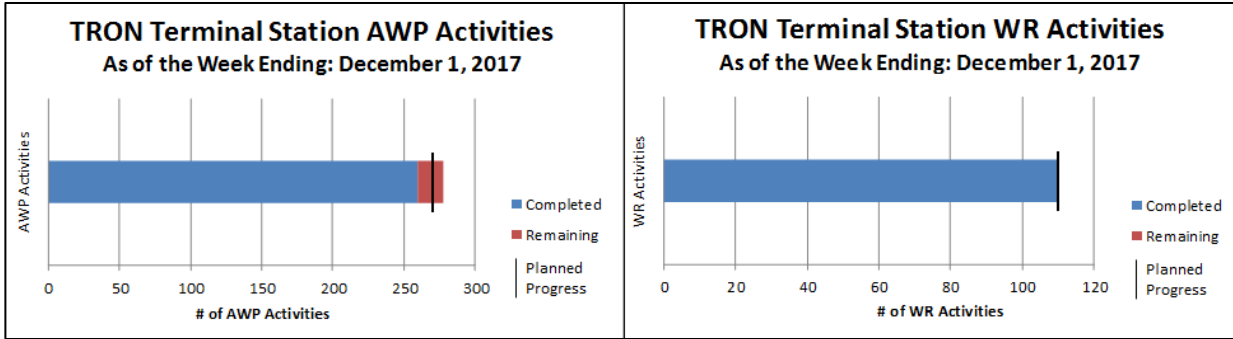


Transmission and Rural Operations (Northern) - Transmission:

Completion Status: Target Achieved

Comments and Schedule Notables:

- TRON Transmission overall AWP completion status, including work in progress, is 100% complete to date.
- There are no specific WR activities.



Transmission and Rural Operations (Northern) - Terminal Stations:

Completion Status: Target Achieved

Comments and Schedule Notables:

- TRON Terminal Station overall AWP completion status is 94% complete to date.
- TRON Terminal Station planned WR work is 100% complete for 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 on the Island Interconnected System and indicates the status of
 4 each. Table 3.1 below summarizes the status of the winter readiness scope of these projects
 5 by asset category.

Table 3.1 Winter Readiness Scope in 2017 Capital Projects

Asset Category	Complete (As of 1-Dec-2017)	Incomplete (Expected Completion After 1-Dec-2017)	Total
Hydraulic Plant	6	4	10
Thermal Plant	8	1	9
Gas Turbines	5	0	5
Diesel Generation	1	0	1
Terminal Stations	0	3	3
Transmission	2	2	4
Other	1	1	2
Total	23	11	34

1 Of the 34 capital projects with winter readiness scope, 11 projects have some scope that is
2 not expected to be completed by the WR target date of December 1, 2017. Appendix A
3 highlights these eleven projects, describes the scope that is expected to be incomplete, and
4 any risk mitigation that Hydro will implement until the work is complete. Hydro continues to
5 closely coordinate its overall work plan and manage associated risks as we enter the
6 2017/2018 winter season.

7

8 **4.0 Plant and Equipment Testing**

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

12

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

20

21 **4.1 Thermal Generation**

22 Winter readiness testing of generating equipment in Thermal Generation is focused primarily
23 around annual unit maintenance outages. Following these annual outages, units are run up,
24 synchronized, and all systems are verified before the unit's operating status is determined and
25 preparedness is confirmed. Unit load tests are performed at this time as well. It should be
26 noted that the unit load tests confirmed maximum loading limitations and that there are
27 deratings for Units 1 and Unit 2, as discussed in Section 8.4.

1 The winter readiness testing protocol includes the testing of appropriate Balance of Plant
2 components, as well as the black start diesels.

3

4 The current status of equipment/plant testing for Thermal Generation is indicated in Appendix
5 B of this Report, with all activities complete consistent with the generation outage schedule
6 shown in Appendix D.

7

8 **4.2 Hydraulic Generation**

9 Winter readiness testing of generating equipment and balance of plant in Hydraulic
10 Generation is completed using the same process as for Thermal Generation as described in
11 Section 4.1 of this report.

12 The current status of equipment/plant testing for Hydraulic Generation is indicated in
13 Appendix C of this report with all winter readiness activities complete consistent with the
14 generation outage schedule shown in Appendix D.

15

16 **4.3 Transmission and Terminal Stations**

17 **4.3.1 Transmission**

18 Transmission lines are a set of conductors supported by structures that carry electrical power
19 from generation plants to terminal stations and link terminal stations together, which allows
20 for the distribution of electricity to customers. On the island of Newfoundland, Hydro
21 maintains approximately 1,468 km of lattice steel structure transmission lines operating at
22 voltages of 138 and 230 kV. In addition, Hydro maintains approximately 2,230 km of wood
23 pole transmission lines operating at voltages of 69, 138, and 230 kV for a total combined line
24 length of 3,698 km with a right of way area of 10,290 hectares. Many of these assets date
25 back to the mid to late 1960's. A typical lattice steel structure can remain in service in excess
26 of 70 years and a typical treated pole can remain in service in excess of 60 years. Typically,
27 treated cross-arms and braces can remain in service in excess of 30 years.

1 The summary of the maintenance, refurbishment, and replacement criteria Hydro uses for its
2 transmission lines was included in the *Transmission and Terminal Station Asset Management*
3 *Execution Report*, submitted to the Board on April 11, 2017. It includes criteria for Wood Pole
4 and Steel Structure Line Management Programs, helicopter patrols, ground patrols, infrared
5 inspections, wood pole treatment, and right-of-way maintenance. The *Transmission and*
6 *Terminal Station Asset Management Execution Report* is submitted annually, with the next
7 submission on April 11, 2018.

8

9 **4.3.2 Terminal Stations**

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

17

18 The maintenance, refurbishment, and replacement criteria used by Hydro for Terminal Station
19 assets, named *Terminal Station Asset Management Overview*, was included in the *Terminal*
20 *Station Refurbishment and Modernization* project in Hydro's 2017 Capital Budget Application,
21 and further updated in the 2018 Capital Budget Application.

22

23 **4.3.3 Transmission and Terminal Station Testing**

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

- 27 1. Transformer PMs and CMs;
- 28 2. Annual exercises on all high voltage circuit breakers;
- 29 3. Exercise of 230 kV circuit breakers from protection during PM inspections;

- 1 4. Infrared scans at all terminal stations;
- 2 5. Annual ultrasonic leak testing on all terminal station air systems; and
- 3 6. Annual helicopter patrol of transmission lines prior to the winter season.

4
5 Annual Work Plan charts which include winter readiness activities are displayed in Section 2.4
6 of this report, including details regarding winter readiness activities. Two items in the terminal
7 stations group are being carried over to 2018 and another eleven activities will be completed
8 in December.

10 **4.4 Gas Turbines – Holyrood, Hardwoods, and Stephenville**

11 Examples of WR activities that are included in the AWP work scopes and maintenance plans
12 for the Hardwoods, Stephenville, and Holyrood gas turbines include the following:

- 13 1. PMs and CMs for major components and auxiliary systems;
- 14 2. Black start testing;
- 15 3. Monthly operational testing; and
- 16 4. Execution of capital upgrades and refurbishment.

17
18 Annual work plan charts which include WR activities are shown in Section 2.2 of this report.

20 **5.0 Generation Outage Schedule**

21 Hydro's 2017 Master Generation Outage Schedule for December 2017 is attached to this
22 Report as Appendix D. This Schedule shows one planned and one unplanned outage that will
23 occur beyond December 1, 2017.

25 **5.1 Unplanned Outage**

- 26 1. Bay d'Espoir Unit 1 and Unit 2: An unplanned outage to Bay d'Espoir Generating Units
27 1 and 2 is underway, due to a leak in Penstock 1. At the time of submittal of this
28 report, the penstock is planned to be returned to service on December 8, 2017, with

1 in-service testing being completed on December 8, 2017. Please refer to Section 8.2
2 for additional information.

3 **5.2 Deratings**

- 4 1. Holyrood Thermal Generating Station (Unit 1): Holyrood Unit 1 is currently rated at
5 150 MW. Please refer to Section 8.4 for additional information on Holyrood Unit 1.
- 6 2. Holyrood Thermal Generating Station (Unit 2): Holyrood Unit 2 is currently rated at
7 160 MW. Please refer to Section 8.4 for additional information on Holyrood Unit 2.
- 8 3. Exploits Generation (Grand Falls Unit 4): The condition assessment of Grand Falls Unit
9 4 generator will require it to be out of service for remainder of 2017, and up until the
10 end of February, 2018. Please refer to Section 8.7 for additional information on
11 Exploits Generation Grand Falls Unit 4 generator.
- 12 4. Stephenville Gas Turbine Unit: Stephenville Gas Turbine is currently rated at 38 MW
13 due to a 19 MW loaner engine in place of a 25 MW engine. Work is currently
14 scheduled for the week of December 15, 2017, to replace the existing 19 MW engine
15 with the repaired 25 MW engine. Please refer to Section 8.6 for additional information.

17 **6.0 Critical Spares**

18 **6.1 Overview**

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

26
27 Hydro's evaluation of critical spares is an ongoing process where consideration is given to:
28 asset condition, level of criticality, parts availability/order lead time, and cost. In some cases, a
29 balanced consideration of these factors may result in a decision to not procure into inventory

1 where the risk to reliability is judged to be low and/or other measures are available to
 2 mitigate against generation unavailability.

3
 4 Included in this report is a full update on the status of Hydro’s critical spares, as of December
 5 1, 2017, for the 2017/2018 winter season. This update includes a detailed listing of critical
 6 spares requirements for each area of generation operations and the in-stock or on-order
 7 status of each item.

8

9 **6.2 2017/2018 Winter Season**

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

Table 6.1 Capital Spares Status

Operational Area	In Stock	On Order	Order Pending	Capital	Total
Thermal Plant	734	24	1	0	759
Hydraulic Plant	1,183	6	25	7	1,221
Gas Turbines	370	14	76	3	463
Grand Totals	2,287	44	102	10	2,443

12 Hydro’s critical spares status leading into the 2017/2018 winter season is very strong. For the
 13 Thermal Generation (Appendix E), Gas Turbines (Appendix F), and Hydro Generation
 14 (Appendix G), a total of 2,443 critical spares have been identified by Hydro’s three generation
 15 operations areas. Of this total 2,287 items are in stock (93.6%), 44 items are on order (1.8%),
 16 10 items have been identified as capital spares (0.4%), and the remaining 102 items (4.2%) are
 17 in various stages of the procurement process; including engineering specification preparation
 18 to determine proper replacement parts for those items that can no longer be readily
 19 purchased, and having the purchase orders drafted so that items can be ordered.

1 Appendix E of this report indicates the current status of the critical spares program at the
2 Holyrood Thermal Generating Station. For the Holyrood Thermal Generating Station, 96.7%
3 (734) of the identified critical spares are in stock, 3.2% (24) are on order, and the remaining
4 0.1% (1) is in the procurement process.

5
6 The spares list for the Holyrood Gas Turbine is detailed in Appendix F and includes both
7 operational and critical spares. Greater than 73% (255) of these spares are in stock, including
8 the high priority items. Of the remainder, 4.0% (14) are on order and 22.0% (76) are in the
9 procurement process, which continues to acquire these items. For the Hardwoods and
10 Stephenville gas turbines, 100% of the critical spares identified are in stock.

11
12 As noted above, a second phase of spares analysis was completed in 2017 for Hydro's
13 hydraulic generation facilities and 569 additional items were added to the critical spares list.
14 As listed in Appendix G, the hydraulic generation facilities currently have 97% (1183) of their
15 identified critical spare items in stock. Of the remaining items, 2.0% (25) are in the
16 procurement process and the other 0.5% (6) has been ordered. The other 0.5% consists of
17 parts that will be utilized in capital projects.

18

19 **7.0 Forecasted Loads, Capacity and Reserves**

20 Hydro filed its most recent *Near-term Generation Adequacy Report* on November 15, 2017.

21 The generation adequacy report included:

- 22 a) The updated P90 load forecast through winter 2021/2022; one year beyond the
23 anticipated Muskrat Falls completion date;
- 24 b) An assessment and quantification of forecast peak uncertainty;
- 25 c) Four sensitivity demand forecasts to ensure a robust assessment of risk; and
- 26 d) A critical assessment of Hydro's thermal generating assets and their relative
27 importance to the Island Interconnected System, by evaluating a range of unit
28 availabilities, and the resultant expected unserved energy (EUE).

1 Since the report was submitted, additional information about the maximum capacity
 2 anticipated from Holyrood Units 1 and 2 for the upcoming winter season only. This
 3 information’s impact on Hydro’s calculation of reserve margin for the expected 2017/2018
 4 winter peak demand is discussed here, and specific details of the unit capability are provided
 5 in Section 8.5. Additionally, regarding the diesel generating units installed at Holyrood, Hydro
 6 has had further engagement with the Department of Municipal Affairs and Environment and it
 7 is acknowledged by the Department of Municipal Affairs and Environment that Hydro will
 8 operate these units if required for system conditions with appropriate notification to the
 9 Department. The maximum capacity of 10 MW is revised from the 8.5 MW that was used in
 10 Hydro’s *Near-term Generation Adequacy Report*. In this case, acknowledgement does not
 11 imply “approval”, but recognizes that Hydro may be required to operate the diesels to meet
 12 island demand. This is further discussed in Section 8.5. The adjustments in diesels and
 13 Holyrood unit’s capacity result in a Capacity at Peak of 1,963 MW for the 2017/2018 winter
 14 season. As such, Hydro has revised its calculation of reserves for this season only. These
 15 results are included in Table 7.1, which indicates the Island Interconnected System (IIS)
 16 reserves in both MW and percentage terms.

17

18 Note that while the reserve margin analysis presented below differs from that provided in
 19 Hydro’s November *Near-term Generation Adequacy Report*, there is no impact to the EUE or
 20 loss of load hours (LOLH) analysis provided in the same, as this winter’s expected level of
 21 Holyrood unit availability is fully contemplated in Hydro’s application of a 14% Holyrood plant
 22 Deration Adjusted Forced Outage Rate (DAFOR).

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

Winter 2017/2018	
Expected Reference Case	
A: IIS Peak Load – P90	1,808
B: Less Available Capacity Assistance (111 MW)	1,697
C: Capacity at Peak	1,963
Reserve Margin MW for P90 (C-B)	266
Reserve Margin (%)	16%

1 Finally, while Hydro continues to operate thermal generation above minimum to assist with
2 maintenance of its hydraulic reservoir levels, there is no impact on Hydro's ability to reliably
3 serve customers. Hydro remains able to dispatch generation sources as they are required to
4 meet customer demand. Hydro will continue to report on available system energy as part of
5 its *Energy Supply Report*, submitted monthly to the Board. Further, Hydro will be providing
6 additional information on this topic in response to the Board's letter of December 4, 2017
7 requesting follow up to Hydro's *Near-term Generation Adequacy Report*, to be filed on
8 December 15, 2017.

9

10 **8.0 Risks and Risk Mitigation**

11 Hydro is confident that the WR work completed for the 2017/2018 winter season will position
12 the company to be ready in critical areas in terms of generation and transmission availability.
13 Operational requirements meant that delays in some areas have resulted in work continuing
14 in several areas of the business past December 1, 2017. Risk assessments have been
15 completed and mitigation plans are in place for these items. This section identifies those risks
16 being actively managed by Hydro.

17

18 **8.1 Transmission Line TL 267**

19 The new TL 267 transmission line is a 230 kV transmission line between the Bay d'Espoir
20 Hydroelectric Generation Station and the Western Avalon Terminal Station at Chapel Arm.
21 TL 267 will increase Hydro's capability to deliver power to the major load centre on the Avalon
22 Peninsula and will ensure the continued stability and reliability of the IIS, particularly during
23 faulting events.

24

25 TL 267 was energized on December 6, 2017 and is fully available in the IIS. The energization of
26 this line removes the Avalon restriction and therefore, the supplementary analysis of Avalon
27 reserves.

1 **8.2 Bay d'Espoir Penstock 1**

2 On November 4, 2017, water was observed running down the side of Bay d'Espoir Penstock 1
3 due to a leak in the penstock, which resulted in Bay d'Espoir Units 1 and 2 (total generation
4 capacity of 153 MW) being removed from service to isolate the leak and investigate its cause.

5
6 The leak occurred at the same location as the September 2016 failure. The subsequent failure
7 along the penstock weld (where the leak was discovered and deteriorated welds were
8 replaced in the fall of 2016) is an indication that there are additional factors that are causing
9 cracking in the penstock.

10
11 Investigation into the cause of the failure in the penstock is on-going. Hydro engaged
12 consultants and contractors to return the penstock to service as quickly as possible and work
13 is currently being performed around the clock. Work to weld the cracks and further reinforce
14 these areas is complete. At the time of submittal of this report, the penstock is planned to be
15 returned to service on December 8, 2017. There is in-service testing being completed on
16 December 8, 2017 the results of which will be immediately analyzed, with results expected
17 through the following week. Hydro expects to receive results on the analysis of the tests, with
18 any commentary on the penstock operation for the winter period. However, based on
19 theoretical analysis, Hydro's consultant has preliminarily informed Hydro that following the
20 repair and reinforcement work, the penstock is expected to function as needed throughout
21 the winter generating season. Hydro will inform the Board the outcome of the analysis results.
22 Hydro, in conjunction with its consultant, will continue to investigate the root cause of the
23 issue throughout the winter. Hydro will provide additional information to the Board as it
24 becomes available, currently expected in March.

25

26 **8.3 Capital Projects**

27 In the past month, the Bay d'Espoir Penstock 1 leak and associated weld repairs resulted in an
28 additional Unforeseen Capital Project being added to Hydro's 2017 Capital Program. In
29 addition to the Refurbishment of Bay d'Espoir Penstock 1, there are ten other capital projects

1 with WR scope that are not expected to be completed by the WR target date of December 1,
2 2017. Many of the delays are due to the long lead times for procurement of certain parts and
3 because of system constraints and outage availability. Each of these projects is listed in
4 Section 3, with details in Appendix A, and below:

- 5 • Purchase Capital Spares (Hydraulic);
- 6 • Cat Arm Upgrade Work;
- 7 • Upper Salmon – Refurbish Main Generator Breaker;
- 8 • Procurement of 12MW of Diesel Generation – Holyrood;
- 9 • Purchase Capital Spares - Terminal Stations;
- 10 • Purchase Backup Diesel for Station Service - Grand Falls and Buchans;
- 11 • Replacement Due to In-Service Failures - Terminal Stations;
- 12 • Perform Wood Pole Line Management Program;
- 13 • Construct 230kV Transmission Line - Bay d'Espoir to Western Avalon (TL 267);
- 14 • Replace Air Conditioning Units - Hydro Place; and
- 15 • Refurbishment of Penstock 1 - Bay d'Espoir.

16

17 Seven of these projects are expected to be completed in 2017, but beyond the December 1,
18 2017 target date. The new 230 kV Transmission Line from Bay d'Espoir to Western Avalon (TL
19 267) has been delayed due to an incident that occurred on June 19, 2017. Section 8.1 of this
20 report provides the full update on the new 230 kV transmission line.

21

22 The remaining four projects¹ will not be completed until 2018. In order to mitigate the risk for
23 the upcoming winter season, Hydro has increased its monitoring and inspection of the
24 impacted equipment. In many cases, the replacement parts have or will arrive during the
25 winter season and will be available for emergency installation in the event of equipment

¹ Purchase Capital Spares – Hydraulic (excitation transformer), Upgrade Work – Cat Arm (spherical valve control system and deflector servomotor), Refurbish Main Generator Breaker – Upper Salmon (air-blast breaker), and Procurement of 12 MW of Diesel Generation – Holyrood (fuel reconciliation and exhaust stack extension – Section 8.5)

1 failure. In several instances, temporary equipment is being utilized until the capital work can
2 be completed (e.g.: air conditioners and mobile diesel units) and in another case spare
3 components have been identified in other Hydro locations that can be used if failure occurs
4 during the winter season.

5

6 **8.4 Thermal Generation – Holyrood Rated Output**

7 The rated generation output for Units 1 and 2 at the Holyrood Thermal Generating Station in
8 early 2017 was limited due to insufficient air flow. Throughout 2017, Hydro worked with the
9 boiler contractor and their engineering group to identify the cause and eliminate the de-
10 ratings of Holyrood Unit 1 and Unit 2. Three primary areas of focus were identified; pressure
11 drop across the economizer due to accumulated ash fouling from ongoing production, loss of
12 available air due to wear on air heater seals and associated leakage, and boiler tuning to
13 optimize the use of available air supply from the forced draft (FD) Fans.

14

15 The design of the economizer on both Units 1 and 2 utilizes finned tubes with very tight
16 spacing, staggered diagonally in multiple rows, which makes cleaning difficult. As well, the
17 economizer bundles are supported on beams, which restrict access to the bottom of the
18 bundles for cleaning. Dry-ice blasting was recommended and utilized to clean the economizer
19 sections of Units 1 and 2 during maintenance outages, removing approximately 11 tons of dry
20 ash from Unit 2 and 8 tons from Unit 1. The dry-ice blasting, while effective in removing large
21 quantities of ash, was unable to access many sections of the economizer due to the geometry
22 and restricted access described above. Hydro worked with service contractors to develop a
23 new economizer cleaning tool that could better reach the more difficult sections. This was
24 procured and used on Unit 2 during the planned fall outage, further removing additional ash
25 build-up. The weight of ash removed by this tool could not be measured since the ash was
26 carried away in the waste water. Visual inspection indicated that the tool was successful in
27 removing some additional ash, but not all. System demands throughout this period did not
28 present a suitable outage window to perform additional cleaning on the Unit 1 economizer
29 with the new tool.

1 Capital work in 2017 successfully reduced air leakage in the air heater sections. Also new
2 baskets were installed to improve heat transfer and reduce pressure drop across the air
3 heaters. The air heaters on both Units 1 and 2 were inspected and reported fit for service by
4 the original equipment manufacturer during the annual overhauls.

5
6 After Units 1 and 2 were returned to service in the fall of 2017 following annual maintenance,
7 some operational improvements had been realized. Available air flow has been improved on
8 Unit 1 and Unit 2 such that this is no longer the load limiting factor. Also, the pressure drop
9 across the economizer sections has been improved by approximately 20%. Hydro has also
10 completed boiler tuning on all three units to optimize operation and use of available air.
11 However, the expected result of full load capability for both units has not been achieved.
12 Load testing on November 28, 2017, indicated that the maximum load on Unit 2 is 160 MW.
13 Load testing of Unit 1 on December 5, 2017 confirmed that the maximum load on this unit is
14 150 MW. In both units, the load was limited by high furnace pressure, resulting from a
15 combination of a high pressure drop across the air heaters and continued elevated pressure
16 drop across the economizers. These load tests were completed immediately following air
17 heater washes to ensure accurate data.

18
19 To further assess the unexpected shortfall in both units, Hydro performed additional work
20 during air heater wash outages in November 2017. For both units, the calibration and
21 operation of the pressure measurement instruments were verified. Inspection of sections of
22 the gas path were completed including the air heaters, economizer sections, breeching, and
23 stacks.

24
25 For the Unit 1 air heater wash outage on November 30, 2017, inspection of the air heaters
26 was completed by an air heater expert from the original equipment manufacturer. From these
27 inspections the only finding of significance was the presence of ash deposits in the top layer
28 (hot end) air heater baskets of Unit 1. These deposits were found after completion of the air
29 heater wash, indicating that a more aggressive cleaning technique than the standard air

1 heater wash is required to remove the ash. A high pressure wash was expedited, which was
2 effective in removing some of the ash fouling, as confirmed visually. A load test completed on
3 December 5, 2017 confirmed that capability had improved from 145 MW prior to the air
4 heater wash to 150 MW. It is not known if the Unit 2 hot end baskets contain similar ash
5 deposits. A unit outage would be required to determine this.

6
7 Hydro continues to work towards restoring full load on Unit 1 and Unit 2. Further analysis and
8 planning is required to determine the next steps. Hydro has set up an engineering team to
9 work with the boiler service provider and other industry experts to identify and implement
10 the appropriate actions. Additional outage work will be required to achieve full load
11 capability, and Hydro will weigh the benefits and risks of completing an outage in the coming
12 winter, as additional solutions to restore capacity are determined.

13
14 Unit 3 is of a different design than Unit 1 and Unit 2, and is available for full load at 150 MW.

15 16 **8.5 Holyrood Diesel Generation**

17 As outlined in Note 8 and 8A of Appendix A, the WR scope for the Capital Project
18 *“Procurement of 12 MW of Diesel Generation – Holyrood”* includes the installation of larger
19 exhaust stacks and a fuel reconciliation system for the diesel generators at Holyrood that is
20 required to meet environmental regulations.

21
22 Hydro met with officials from the Department of Municipal Affairs and Environment on
23 November 28, 2017. The Department of Municipal Affairs and Environment acknowledged
24 that Hydro may be required to utilize the diesels to meet system load. While not an approval,
25 if Hydro finds itself in the extenuating circumstances that the diesels must be used for system
26 needs, Hydro is required to notify the Department in advance, if possible, or at the first
27 opportunity along with the details of the operating circumstances and duration.

1 **8.6 Gas Turbines**

2 Winter readiness activities for both Hardwoods and Stephenville gas turbines were
3 rescheduled into November to accommodate more pressing system needs.

4
5 The Hardwoods Gas Turbine remains available at its 50 MW capacity. The Stephenville Gas
6 Turbine is available at 38 MW with the completion of an exhaust stack repair on End A the
7 week of November 27, 2017. The Stephenville Gas Turbine will return to 50 MW with the
8 installation of Hydro's 25 MW engine, which will replace the 19 MW loaner engine currently
9 installed in End A. Hydro's 25 MW engine is currently scheduled to arrive on site December
10 15, 2017. This engine will be installed as soon as conditions permit after its arrival, anticipated
11 prior to December 22, 2017.

12

13 Hydro is maintaining the four in-service engines and two spare engines (19 MW and 25 MW)
14 in its fleet through this winter in order to provide for the ability to swap an engine in place of
15 one that may require extended maintenance.

16

17 **8.7 Exploits Generation (Grand Falls Unit 4)**

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

24

25 **8.8 Bay d'Espoir Reservoir Levels**

26 As stated in the *"Monthly Energy Supply Report for the Island Interconnected System as of*
27 *November 2017,"* the trend of drier than average weather conditions has resulted in nine of
28 the eleven months in 2017 being below average rainfall. This has resulted in an aggregate
29 reservoir storage level of 1405 GWh, which is 43% below the seasonal maximum operating

1 level (measured November 30, 2017). The 20-year average storage at the end of November
2 2017 is 2036 GWh.

3
4 Hydro increased thermal power generation at the Holyrood Thermal Generating Station to
5 reduce the hydroelectric generation required to meet the load and assist with the
6 maintenance of the island's reservoir levels.

7

8 **8.9 Critical Spares**

9 Hydro's critical spares status leading into the 2017/2018 winter season is very strong. As is
10 outlined in Section 6 of this report, 93.6% of the overall critical spare items are currently on
11 hand and 1.8% is on order. Of the remaining, 4.2% are in various stages of the procurement
12 process and 0.4% is capital spares that are not used in operations.

13

14

15 **9.0 Gas Turbine Failure Analysis – Implementation Update for** 16 **Recommended Actions**

17 **9.1 Background**

18 During the winter of 2016, in-service engine failures occurred at Hydro's Stephenville and
19 Hardwoods gas turbine facilities. Both engines were shipped to Alba Power Limited (Alba
20 Power) for detailed inspection and refurbishment. In addition to this work, analysis was
21 carried out to determine the root cause(s) of the failures, and recommendations were
22 investigated to improve reliability of the two generation plants.

23

24 Through Amec Foster Wheeler (now Wood), Hydro engaged consultant Performance
25 Improvements Limited (PI), with expertise in gas turbines, to oversee the failure analysis
26 process for the Stephenville engine and expanded the engagement with this gas turbine
27 expert to review Hydro's operational and maintenance practices with the aim of confirming
28 existing practices and making recommendations for improvement.

1 This report is the further update committed in the report submitted to the Board on July 4,
2 2017. This report provides an update of continued progress of the implementation of
3 recommendations resulting from the root cause analyses of the engine failures as well as the
4 operations and maintenance review.

5

6 **9.2 Implementation Status Summary**

7 Hydro has made a number of process and operational improvements following the root cause
8 investigations and since PI completed their operation and maintenance review of the gas
9 turbine failures. Hydro continues to implement improvements to its operation and
10 maintenance processes related to the Hardwoods and Stephenville gas turbines as these
11 improvements are identified. Since the filing of the July 4, 2017, report, the following progress
12 has been made:

- 13 1. Vibration monitoring location: The low profile accelerometer and associated
14 equipment have been installed and successfully tested. Additional accelerometers and
15 associated equipment have been purchased and are being installed on all engines. It is
16 expected that full implementation of this change will be completed by year end.
- 17 2. Vibration settings: All vibration settings and time delays have been implemented as
18 recommended. This item was complete at the time of the last report.
- 19 3. Lube oil filtration: PI has recommended improved scavenge oil filter monitoring rather
20 than the installation of an additional filter on the supply side of the lube oil system.
21 Hydro has reviewed this recommendation and completed the engineering necessary to
22 incorporate filter monitoring within the existing system. Implementation is currently
23 underway. Parts have been ordered and installation will be completed when received
24 and system conditions permit installation.
- 25 4. Fuel sampling and analysis: This item was complete at the time of the last report.
26 Hydro plans to complete annual fuel sampling and analysis to ensure the fuel quality is
27 as specified.
- 28 5. Acceleration/Deceleration changes: At the time of the July 4, 2017 report, required
29 logic changes had been determined and were in development by the system vendor.

- 1 Since that time, these logic changes have been developed by the system vendor and
2 tested using a simulator. Additional analysis is required for implementation the
3 changes and this is expected to be completed by year-end.
- 4 6. Fuel recirculation valves: At the time of the last report, the recirculation valves had
5 been replaced in Stephenville with normally closed valves, as recommended. Hydro
6 was also planning the replacement of the recirculation valves at Hardwoods with the
7 same valve installed in Stephenville. These valves have now been replaced on the fuel
8 system at Hardwoods.
- 9 7. Fire fuel shut off valves: At the time of the last report, Hydro was planning to replace
10 the fire fuel shut off valves at Hardwoods during the execution of fuel system upgrades
11 this year. This work has been completed.
- 12 8. Emergency shut down (E-stop) buttons: At the time of the last report, Hydro planned
13 to install E-stop buttons at the engine enclosures on all units. This has been completed
14 at both sites.
- 15 10. Lube oil tank modifications: Tank drain modifications have been designed and tested
16 at one location. The parts required to complete the remaining tanks have been
17 ordered and the modification will be made when parts have been received and
18 system conditions permit. It is expected that this will be completed prior to year-end.
- 19 11. Detailed review and revision of the planned maintenance strategy and program: This is
20 being completed in a prioritized fashion and incorporated in the annual review.
21 Adjustments and changes have been made to the PM program based on suggested
22 improvements, discussions with maintenance staff and supervisors, as well as on
23 operational and maintenance experience. Changes have been made to PMs by adding
24 detail to existing check sheets, adding check sheets as required and organizing PMs by
25 trade. This allows improved tracking of completion, identification of issues, and
26 improved documentation of results to allow comparison to previous data.

1 The items remaining to be investigated further and potentially implemented at this time
2 include:

- 3 1. Review the use of the Woodward LSOV25 as a replacement for the Altair 3-way valve:
4 this is still under review, as technical issues related to potential implementation are
5 being worked with the manufacturer. The earliest implementation could be
6 accomplished is next year, as the valves have a relatively long delivery and the project
7 would require capital approval, if the valve is found to be suitable for our installation.
- 8 2. Review of the addition of fuel system logic changes: This has not been looked into in
9 depth as yet. Hardwoods and Stephenville employ different types of fuel valves, and
10 implementation requires the monitoring of output and feedback signals to determine
11 the appropriate alarm and trip levels to allow for the implementation of this item
12 without causing nuisance trips and alarms.
- 13 3. Review of the introduction of a trip string related to protection trip of the engines: This
14 has been looked at on a high level, but no significant progress has been made, due to
15 the focus on the higher priority items and the fact that implementation of such a trip
16 string would require the addition of significant hardware once the required protection
17 elements to be included are identified. This would likely require capital approval to
18 implement, if determined feasible.
- 19 4. Review of improvements to the fire protection system: This has not yet been reviewed
20 in detail, and will take significant time and effort to complete, if changes are to be
21 made. This may also require capital approval, depending on the cost of the elements
22 to be implemented, if determined to be feasible.
- 23 5. Review of on-line monitoring of magnetic chip detectors: Review of available systems
24 and requirements for implementation is ongoing. This item will require capital
25 investment for implementation, if determined feasible.

26

27 These remaining recommendations resulting from the failure analyses performed and PI's
28 operations and maintenance review require varying degrees of engineering analysis, detailed
29 design, procurement, prior to implementation and will require considerable resources and

1 time to complete. In some cases, as noted, capital funding will likely be required to implement
2 the recommended modifications. In these cases, Hydro will include the projects in its future
3 capital plans as appropriate.

4 Hydro is committed to continued reliable operation of these units and to implementing the
5 remaining recommendations contained in this report as appropriate as well as any further
6 improvements that are identified through ongoing review and investigation. Hydro will
7 continue to keep the Board informed on the progress of investigation and implementation of
8 the remaining recommended improvements to operation, maintenance, monitoring, and
9 control of the gas turbines.

10

11 **10.0 Conclusion**

12 The results of Hydro's review of its annual work plan for its island interconnected system
13 assets indicate that it will be ready for winter in the critical areas of generation and
14 transmission availability and will continue address some of its planned work items beyond the
15 December 1, 2017 winter readiness target date. Risk assessments have been completed and
16 mitigation plans have been developed and put in place for items extending beyond December
17 1, 2017. Hydro will continue to track all required winter readiness activities, manage identified
18 risks, and will provide an update to the Board on January 19, 2018 for those winter readiness
19 items extending beyond December 8, 2017

Appendix A

Status of 2017 Capital Projects Related to Winter Readiness

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	December 1 Update
Hydraulic Plant	Unit 3 Turbine Major Overhaul - Bay d'Espoir	Complete	Complete	Complete
Hydraulic Plant	Refurbishment of Penstock 2 - Bay d'Espoir	Complete	Complete	Complete
Hydraulic Plant	Refurbishment of Penstock 1 - Bay d'Espoir			8-Dec-2017 Note 9
Hydraulic Plant	Replace Generator Bearing Coolers - Upper Salmon	Complete	Complete	Complete
Hydraulic Plant	Overhaul Turbine Generators - Cat Arm	6-Oct-2017	Complete	Complete
Hydraulic Plant	Replace Station Service Breakers - Cat Arm	20-Oct-2017	Complete	Complete
Hydraulic Plant	Replace Powerhouse 1 Station Service Transformer - Bay d'Espoir	4-Oct-2017	3-Nov-17	Complete
Hydraulic Plant	Purchase Capital Spares - Hydraulic	15-May-2018 Note 1	15-May-2018 Note 1A	15-May-2018 Note 1B
Hydraulic Plant	Upgrade Work - Cat Arm	2018 Note 2	2018 Note 2A	2018
Hydraulic Plant	Refurbish Main Generator Breaker - Upper Salmon	2018 Note 3	2018	2018
Thermal Plant	Overhaul Pumps - Holyrood	Complete	Complete	Complete
Thermal Plant	Purchase Capital Spares - Holyrood	Complete	Complete	Complete

Asset Category	Project Description	Expected Completion (2017 Winter Readiness Scope)		
		September 15 Update	October 20 Update	December 1 Update
Thermal Plant	Upgrade Underground Plant Drainage System - Holyrood	Complete	Complete	Complete
Thermal Plant	Emergency Repairs to Northeast Corner of Unit 2 Boiler - Holyrood	Complete	Complete	Complete
Thermal Plant	Overhaul Turbine Valves Unit 2 - Holyrood	6-Oct-2017	Complete	Complete
Thermal Plant	Reliability Improvement - Holyrood	6-Oct-2017	Complete	Complete
Thermal Plant	Condition Assessment and Miscellaneous Upgrades - Holyrood	6-Oct-2017	Complete	Complete
Thermal Plant	Replace Exciter Controls Units 1 and 2 - Holyrood	25-Oct-2017	27-Oct-2017	Complete
Thermal Plant	Procurement of 12 MW of Diesel Generation - Holyrood	1-Dec-2017	2018 Note 8	2018 Note 8A
Gas Turbines	Gas Generator Engine Refurbishments - Stephenville and Hardwoods	Complete	Complete	Complete
Gas Turbines	Purchase Capital Spares - Gas Turbines	30-Sep-2017	30-Nov-2017	Complete
Gas Turbines	Gas Turbine Life Extension - Stephenville	5-Nov-2017	5-Nov-2017	Complete
Gas Turbines	Replace Fuel Piping - Stephenville and Hardwoods	19-Nov-2017	19-Nov-2017	Complete
Gas Turbines	Gas Turbine Life Extension - Hardwoods	19-Nov-2017	19-Nov-2017	Complete
Diesel Generation	Replace Fuel Tank - St. Anthony	Complete	Complete	Complete

Asset Category	Project Description	Expected Completion (2017 Winter Readiness Scope)		
		September 15 Update	October 20 Update	December 1 Update
Terminal Stations	Purchase Capital Spares - Terminal Stations	1-Dec-2017	1-Dec-2017	8-Dec-2017 Note 10
Terminal Stations	Purchase Backup Diesel for Station Service - Grand Falls and Buchans	15-Dec-2017 Note 4	15-Dec-2017	15-Dec-2017
Terminal Stations	Replacement Due to In-Service Failures - Terminal Stations	12-Jan-2018 Note 5	12-Jan-2018 Note 5A	08-Dec-2017 Note 5B
Transmission	Rerouting of Transmission Line and Distribution Line - Sally's Cove	Complete	Complete	Complete
Transmission	Structures Replacement and Restoration - TL 212 and TL 201	Complete	Complete	Complete
Transmission	Perform Wood Pole Line Management Program	1-Dec-2017	1-Dec-2017	8-Dec-2017 Note 11
Transmission	Construct 230 kV Transmission Line - Bay d'Espoir to Western Avalon	8-Dec-2017 Note 6	8-Dec-2017 Note 6A	8-Dec-2017
Other	Replace Uninterruptable Power Supply Systems - Hydro Place	Complete	Complete	Complete
Other	Replace Air Conditioning Units - Hydro Place	15-Dec-2017 Note 7	15-Dec-2017	15-Dec-2017

Notes Description¹

Note #	Explanation
1	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.
1A	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.
1B	Items (1) and (2) have been received. The expected delivery date for item (3), the Bay d'Espoir Unit 7 excitation transformer, has been revised to December 22, 2017. There is no change to the expected delivery dates for items (4) and (5).
2	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

¹ Updates to this table are emphasized in bold.

Note #	Explanation
	<p>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> <p>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.</p>
3	<p>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).</p>
4	<p>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</p>

Note #	Explanation
	<p>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 mitigation until delivery of the new mobile generating unit, Hydro currently has a spare 225 kVA 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.</p>
5	<p>The 2017 winter readiness scope of this project includes the procurement of the following stand-by equipment: i) one 230 kV circuit breaker; ii) one 138kV circuit breaker; and iii) one 69 kV 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.</p>
5A	<p>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.</p>
5B	<p>The transformer for St. Anthony has been replaced and was placed in service on October 25, 2017. Since the last report, the mobile transformer at Hawke's Bay experienced a pump failure in the cooling system; this was refurbished and has been released back into service.</p>
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 (TL 267). 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</p>

Note #	Explanation
	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.
6A	The detailed project plan update has been finalized and confirms the expected in-service date of December 8, 2017.
7	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.
8	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 December 1, 2017. 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.
8A	Construction of the fuel reconciliation system is in progress and final commissioning is scheduled for completion in March 2018. In the current state, the diesel generators are physically capable of generation and fully available to black start the Holyrood Plant. Hydro continues to explore all avenues to expedite the extension of the exhaust stacks for energy and demand generation that is required to meet environmental regulations. A meeting with officials from the Department of Municipal Affairs and Environment (DOMAE) took place on November 28, 2017, and Hydro obtained agreement to operate the diesel units, as required, prior to completion of the project scope as per the emergency and peak load

Note #	Explanation
	requirements noted in the Environmental Assessment; and for extenuating circumstances within the electrical grid, Hydro may operate at maximum capacity with notification to DOMAE.
9	This is an unforeseen project as reported to the Board in a letter dated November 28, 2017. The work is in progress with an expected return to service date of December 8, 2017.
10	The winter readiness scope of this project is to procure isolated phase bus ducts for an existing, spare transformer. Delivery has been delayed by one week to December 8, 2017. Should a transformer fail prior to delivery of the bus duct, a four to six week installation period is required to replace the failed transformer. Therefore, the one week delay presents no additional risk to the system.
11	The winter readiness scope for this project includes work on Transmission Lines (TL) 201, 203, 212, 219, and 251. The scope consists of hardware replacements such as eye bolts and suspension clamps and the replacement of wooden cross braces, cross arms and poles on multiple structures along each transmission line. The work on four of these five transmission lines is complete. Completion of the remaining work on TL 203 has been delayed due to system constraints and outage availability. An outage is now planned from December 11, 2017 to December 15, 2017, during which time the remaining work is expected to be completed. No customers will be impacted by this outage. The risk associated with not having this work completed is the failure of the identified structures that may result in additional damage to the line. To mitigate this risk, line crews in the area have additional material to complete any other work that may arise.

Appendix B

Status of Winter Readiness Testing of Plant and Equipment
Holyrood Thermal Generating Station
As of December 1, 2017



Holyrood Thermal Generating Station

1-Dec-17

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.	✓	✓	✓	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.	✓	✓	✓	N/A

Safety:

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



Holyrood Thermal Generating Station

1-Dec-17

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	✓

Demineralization 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.	✓	✓	✓	N/A
CW Pump Motors Oil Normal Operating Level,	✓	✓	✓	N/A
CW Pumps operational.	✓	✓	✓	N/A
CW Pump Discharge Vacuum Breakers operational.	✓	✓	✓	N/A
CW Travelling Screens Wash Pumps operational.	✓	✓	✓	N/A
Condenser Flushed.	✓	✓	✓	N/A
Condenser Backwashed.	✓	✓	✓	N/A
General Service 'GS' Coolers Backwashed, cleaned, etc.	✓	✓	✓	N/A
Turbine / Generator 'TG' Coolers Backwashed, cleaned, etc.	✓	✓	✓	N/A
Vacuum Pump Coolers Backwashed, cleaned, etc.	✓	✓	✓	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'.	✓	✓	✓	N/A
Vacuum Pump Seal Water Tank water level controller operational.	✓	✓	✓	N/A
Vacuum Pump Seal Water Pump operational.	✓	✓	✓	N/A
Condenser Vacuum Breakers operational.	✓	✓	✓	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

1-Dec-17

Status of Test			
Unit 1	Unit 2	Unit 3	BoP

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

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

Miscellaneous:

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

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

Condenser Hotwell Make-Up / Surplus Control Valves operation verified.	✓	✓	✓	N/A
Condenser Hotwell Make-Up Motorized Isolating Valve operation verified.	✓	✓	✓	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



Holyrood Thermal Generating Station

1-Dec-17

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

Condensate Polishers:

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

Low Pressure Heaters:

Low Load Recirculation Control Valve operation.	✓	✓	✓	N/A
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Deaerator:

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

Miscellaneous:

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

Bled Steam and Heater Drains System:

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

1-Dec-17

Status of Test			
Unit 1	Unit 2	Unit 3	BoP

Air and Flue Gas System:

Instrumentation and Control operational.	✓	✓	✓	N/A
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Forced Draft 'FD' Fans and Air Dampers:

Two (2) FD Fans available.	✓	✓	✓	N/A
Bearing Oil Normal Operating Level.	✓	✓	✓	N/A
Cooling Water on to Fans.	✓	✓	✓	N/A
Stroke Variable Inlet Vanes, 'VIVs'.	✓	✓	✓	N/A
Stroke Discharge Dampers.	✓	✓	✓	N/A
FD Fan Motor Variable Speed Drives operational.	✓	✓	✓	N/A
All Burner Auxiliary Air Dampers/Positioners operation (Units 1 & 2).	✓	✓	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.	✓	✓	✓	N/A
Rotary Air Heaters Bearing Oil (Top & Bottom) Normal Operating Level.	✓	✓	✓	N/A
Rotary Air Heaters Bearing Cooling Water On.	✓	✓	✓	N/A
Rotary Air Heaters Electric Motor Drives operational.	✓	✓	✓	N/A
Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open.	✓	✓	✓	N/A
Rotary Air Heaters Start-up of Air Motor Drive upon loss of AC Power Supply to the normal operating Electric Drive Motor.	✓	✓	✓	N/A
Rotary Air Heaters Steam Supply Control Valves operational. (*Note: Two Steam Supplies on (Units 1 & 2)).	✓	✓	✓	N/A
Rotary Air Heaters Sootblowers operational.	✓	✓	✓	N/A

Boiler Sootblowing System:

Sootblower Control Panel operational.	✓	✓	✓	N/A
Sootblowers Steam Supply Control Valve operational.	✓	✓	✓	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.	✓	✓	✓	N/A

Light Fuel Oil System:

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

1-Dec-17

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

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

Fuel Oil Supply Control Valve operational.	✓	✓	✓	N/A
Fuel Oil Trip Valve operational.	✓	✓	✓	N/A
Fuel Oil Long Recirculation Valve operational (Units 1 & 2).	✓	✓	N/A	N/A
Fuel Oil Short Recirculation Valve operational (Units 1 & 2).	✓	✓	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

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

1-Dec-17

Status of Test			
Unit 1	Unit 2	Unit 3	BoP

Burners:

All Burners cleaned, securely in place with associated lines securely fastened.	✓	✓	✓	N/A
All Burners checked for operation during Unit Start-up (e.g. Advancing / Retracting, Valve Operation, Lighting, etc.).	✓	✓	✓	N/A
All Burner Tilts checked for operation (Units 1 & 2).	✓	✓	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.	✓	✓	✓	N/A
Turbine Lube Oil Coolers operational.	✓	✓	✓	N/A
TG Heat Exchangers Backwashed, cleaned, etc.	✓	✓	✓	N/A
TG Pump Oil Normal Operating Level.	✓	✓	✓	N/A
TG Pumps available & tested for STBY 'Auto-Start'.	✓	✓	✓	N/A

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

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

Valves:

Pre-Outage Valve Surgery conducted of Boiler Drains.	✓	✓	✓	N/A
Turbine Main Stop Valve Testing (Units 1 & 2).	✓	✓	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.	✓	✓	✓	N/A
Turbine Six (6) Main Control Valve operation (Units 1 & 2).	✓	✓	N/A	N/A
Turbine Four (4) Main Control Valve operation (Unit 3).	N/A	N/A	✓	N/A
Turbine Blowdown Valve operation.	✓	✓	✓	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

1-Dec-17

Status of Test			
Unit 1	Unit 2	Unit 3	BoP

Lubricating System:

Lube Oil Tank Normal Operating Level and checked for moisture content.	✓	✓	✓	N/A
Portable Centrifuge operational.	✓	✓	✓	N/A
Lube Oil Tank Vapor Extractor operation.	✓	✓	✓	N/A
Bowser Oil Conditioner Vapor Extractor Operation (Units 1 & 2).	✓	✓	✓	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.	✓	✓	✓	N/A
Operational On-Line / Off-Line Overspeed Trip Tests.	✓	✓	✓	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



Holyrood Thermal Generating Station

1-Dec-17

Status of Test			
Unit 1	Unit 2	Unit 3	BoP

Generator:

Generator Exciter Operation checked Off & On Line.	✓	✓	✓	N/A
Seal Oil System tested with 'Air' on Generator in preparation for Leak Testing.	✓	✓	✓	N/A
Seal Oil Regulator operational.	✓	✓	✓	N/A
AC Seal Oil pumps available & tested for STBY 'Auto-Start' (Units 1 & 2).	✓	✓	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'.	✓	✓	✓	N/A
Seal Oil Vacuum Pumps available.	✓	✓	✓	N/A
Vacuum Tank Level Control operational.	✓	✓	✓	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.	✓	✓	✓	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.	✓	✓	✓	N/A
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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

1-Dec-17

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	✓
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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	✓
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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 December 1, 2017



Status of Test								
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	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Air Compressor operational checks performed (e.g. oil levels, cooling water, etc.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Air Compressor STBY / Sequencing capability./Lead Lag/Standby	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
HP compressors available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
LP compressor available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Instrumentation Control and Alarms operational.	N/A	N/A	N/A	N/A	N/A	N/A	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 sytem available	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
CW Pump Motorized discharge valves 'Manual' & 'Auto', 'Cracked' Position operation verified. GCI /Hlk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rotary Strainer inspected and available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Status of Test								
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	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
Alarm Systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Spillway

Water elevation	✓	✓	✓	✓	✓	✓	✓	✓	N/A
Gate Heating /Ice Away unit	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
Emergency(back-up) Diesel 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



Status of Test								
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	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V Battery Chargers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V battery Banks Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

Plant 48V System:

48V Battery Banks checked	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
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Plant Uninterrupted Power Supplies 'UPS':

'UPS' Power Supplies (Inverter NWS).	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
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Emergency Diesel Generators:

Emergency Diesel Generators Tested for Emergency Stop.	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	✓	N/A
Alternate AC sources available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Station Services Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Transfer alternate source	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

Plant Air Conditioning System:

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

Plant Heating Steam:

All Systems operational for when required.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
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Status of Test										
Cat Arm			HLK		USL		GCL		PRV	
Unit 1	Unit 2	Bop PH	Unit 1	Bop	Unit 1	Bop	Unit 1	Bop	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	✓	✓	✓	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	Unit 1	Bop	Unit 1	Bop	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	✓	✓	✓	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	✓	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	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Hydraulic Pump Gov Auto Start Testing.	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A

Generator:

Generator Exciter Operation checked Off & On Line.	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
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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	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Oil level system turbine metering	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	N/A	N/A
AC High pressure Jacking Oil Pump available automatic	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	N/A	N/A

Miscellaneous:

			✓								
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	Status of Test										
	Cat Arm			HLK		USL		GCL		PRV	
	Unit 1	Unit 2	Bop PH	Unit 1	Bop	Unit 1	Bop	Unit 1	Bop	Unit 1	Bop
Breaker & Disconnect Operation verified by Ops. Dept. & TROcrew.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Trashrack system	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Gate operation	✓	✓	N/A	✓	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	Unit 1	Bop	Unit 1	Bop	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Station Services Available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transfer alternate source	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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
December 2017

2017 Planned Generation Outage Schedule*

Unit	Month Week Starting	December				Scheduled Annual Maintenance Outages
		3	10	17	24	
Holyrood - G1 ^{Note 1}	170					Jun 23 - Sep 17
Holyrood - G2 ^{Note 2}	170					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 ^{Note 3}	76.5					Jul 23 - Aug 13
Bay d'Espoir - G2 ^{Note 3}	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	154.4					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 4}	50					May 09 - May 31, Oct 23 - Oct 27, Oct 30 - Nov 03
Holyrood GT	123.5					Jun 18 - Jun 23, Nov 06 - Nov 11
Star Lake	18					Jun 11 - Jun 16, Sep 10 - Sep 14
Exploits ^{Note 5}	58					
CBPP CoGen	8					
NLH Diesels ^{Note 6}	24.7					
Newfoundland Power	119.3					
CBPP 60 Hz	99.1					
Available Capacity ^{Note 7}	1,995	1,740	1,956	1,956	1,968	
Forecasted Gross Island Peak Load ^{Note 8,9}		1,343	1,415	1,811	1,811	
Total Reserve ^{Note 10}		502	648	256	268	
Largest Operating Unit		160	160	160	160	
N-1 Reserve		272	418	26	38	

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

Notes:

1. Holyrood Unit 1 derated to 150 MW.
2. Holyrood Unit 2 derated to 160 MW.
3. Bay d'Espoir Units 1 and 2 unavailable as of November 04, 2017 due to a penstock leak. Expected to be returned to service on December 08, 2018.
4. Stephenville Gas Turbine derated to 38 MW due to End A lease engine. The Gas Turbine expected to be available at full capacity (50 MW) on December 20, 2017 following the installation of the overhauled engine.
5. Grand Falls unit 4 unavailable for generator rewind. Expected to be returned to service on February 28, 2018.
6. 24.7 MW include Hawke's Bay (5 MW), St. Anthony (9.7 MW), and Holyrood Diesels (10 MW).
7. As of December 01, planned Vale Diesels capacity of 7.6 MW is included in Available Capacity under capacity assistance arrangements. A pre-winter capacity test has proven capacity up to 7.6 MW.
8. Peaks for the weeks of December 10, 17 and 24, 2017 reflect the 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.
9. Peak load for the weeks of December 03 and December 10, 2017 reflect the actual peak or current Nostradamus load forecast peak for the week.
10. December's Total Reserves reflect the arrangements for CBPP capacity assistance (a net of 80 MW), system voltage reduction (up to 20 MW) and Vale and Praxair interruptible load arrangements (11 MW).

* Preventative/Corrective Maintenance items that require short duration outages are not reflected in this chart. They are planned in conjunction with system operation for an appropriate time.

Appendix E

Critical Spares Status Listing – Thermal Generation

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory 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

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory 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

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory 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		Sodium Monitor - ANALYZER,ORION 2111LLEN	In Stock		N/A
35	Thermal Generation		Frequency Drive - CONTROLLER,SPEED CLARIFIER	In Stock		N/A
36	Thermal Generation		Recirculator - Double Induction Speed Reducer - In Stock - RECIRCULATOR,STERLING 9A6108	In Stock		N/A
37	Thermal Generation		18 " Butterfly Valve - VALVE,BTFY 18" 150#	In Stock		N/A
38	Thermal Generation		Gear Box - CAPSTAN GEARBOX,SADI	In Stock		N/A
39	Thermal Generation		30A DC Breaker - BREAKER,DC HFD2030 30A	In Stock		N/A
40	Thermal Generation		25A DC Breaker - BREAKER,DC HFD2025 25A	In Stock		N/A
41	Thermal Generation		15A DC Breaker - BREAKER,DC HFD2015 15A	In Stock		N/A
42	Thermal Generation		400A DC Breaker - BREAKER,DC KD3400 400A	In Stock		N/A
43	Thermal Generation		50A DC Breaker - BREAKER,DC HFD2050 50A	In Stock		N/A
44	Thermal Generation		Control Unit - CONTROL UNIT,BATTERY CHG 129V	In Stock		N/A
45	Thermal Generation		36" Butterfly Valve - VALVE,BUTTERFLY 36"	In Stock		N/A
46	Thermal Generation		Actuator - ACTUATOR ASSY,ROTORK	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
47	Thermal Generation		Coils - WINDING COILS	In Stock		N/A
48	Thermal Generation		Network Interface Modules - MODULE,NETWORK INTERFACE	In Stock		N/A
49	Thermal Generation		Master Fuel Trip Relays - RELAY,AB TYPE P	In Stock		N/A
50	Thermal Generation		DCS Control Processor - MODULE,PROCESSOR FOXBORO	In Stock		N/A
51	Thermal Generation		24Vdc Scanner Power Supply - POWER SUPPLY,WEIDMULLER	In Stock		N/A
52	Thermal Generation		Transmitter - TRANSMITTER, DP 1 KPA TO 1 KPA	In Stock		N/A
53	Thermal Generation		6' Flanged - VALVE,AIR & VACUUM 6 FLG	In Stock		N/A
54	Thermal Generation		See Parts List #U1&2 - 1 from Service Contractor - HYDROGEN SEAL RINGS,GE	In Stock		N/A
55	Thermal Generation		ArcNet Coupler - CARD,ABB UNS0672	In Stock		N/A
56	Thermal Generation		Conduction Monitor - CARD,ABB UNS0673	In Stock		N/A
57	Thermal Generation		Crowbar - CARD,ABB UNS0017AVAR1	In Stock		N/A
58	Thermal Generation		Digital ArcNet - CARD,ABB UPC090	In Stock		N/A
59	Thermal Generation		Binary Input - CARD,ABB UFC092	In Stock		N/A
60	Thermal Generation		Output Relay - CARD,ABB ARC093	In Stock		N/A
61	Thermal Generation		Measuring Card - CARD,ABB UNC4672	In Stock		N/A
62	Thermal Generation		Measuring Card - CARD,ABB UNC4673	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
63	Thermal Generation		I/O Connection - CARD,ABB UNC4674	In Stock		N/A
64	Thermal Generation		Converter - CARD,ABB UNS3670	In Stock		N/A
65	Thermal Generation		Snubber Bridge - SNUBBER,ABB UNS4681V12	In Stock		N/A
66	Thermal Generation		Control - CARD,ABB HIEE300900R0001	In Stock		N/A
67	Thermal Generation		Power Supply - CARD,ABB KUC321	In Stock		N/A
68	Thermal Generation		Pulse Gen - CARD,ABB GDB021	In Stock		N/A
69	Thermal Generation		Combined I/O - CARD,ABB UAC326	In Stock		N/A
70	Thermal Generation		Control Panel - CARD,ABB AFC094	In Stock		N/A
71	Thermal Generation		Transformer - N/A	In Stock		N/A
72	Thermal Generation		Primary Contact for Generator P.T. - CONTACT ASSY,PT	In Stock		N/A
73	Thermal Generation		1.5" Regulating Valve - SEAL OIL REG KIT, RK	In Stock		N/A
74	Thermal Generation		1" Valve - VALVE,FISH F.O. TRIP	In Stock		N/A
75	Thermal Generation		Ignition Transformer - XFMR,FOSSIL S870-542F	In Stock		N/A
76	Thermal Generation		Sunspot - BASE,AMPLIFIER & TERMINAL	In Stock		N/A
77	Thermal Generation		Valve Assembly / Oil Igniter - IGNITER,ASSEMBLY ALSTOM	In Stock		N/A
78	Thermal Generation		Level Transmitter - TRANSMITTER,LEVEL	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
79	Thermal Generation		Aquarian Alarm Modules - MODULE,AQUARIAN	In Stock		N/A
80	Thermal Generation		Relays - RELAY,PLUG-IN 12 PIN AC	In Stock		N/A
81	Thermal Generation		Solenoid - SOLENOID,ASCO 8300 125 VDC	In Stock		N/A
82	Thermal Generation		Conductivity Probe - PROBE,GUIDED WAVE RADAR 26"	In Stock		N/A
83	Thermal Generation		Level Switch - SWITCH,LEVEL MOBREY	In Stock		N/A
84	Thermal Generation		Level Transmitter - TRANSMITTER,LEVEL	In Stock		N/A
85	Thermal Generation		Relay - RELAY,PLUG-IN 12 PIN AC	In Stock		N/A
86	Thermal Generation		Bulk Chemical - AMMONIUM HYDROXIDE,20% TOTE	In Stock		N/A
87	Thermal Generation		12"-150# Gasket Kit - GASKET,S&K 74S0397V0010	In Stock		N/A
88	Thermal Generation		O-Rings - O-RING,S&K 75S0144V0090	In Stock		N/A
89	Thermal Generation		Packing - PACKING,S&K 24"	In Stock		N/A
90	Thermal Generation		Packing - PACKING,S&K 16"	In Stock		N/A
91	Thermal Generation		Seal washers - SEAL,S&K 75G0181V0020	In Stock		N/A
92	Thermal Generation		Gasket - GASKET,S&K 67S0064V0010	In Stock		N/A
93	Thermal Generation		O-Rings - O-RING,S&K 75S0144V0100	In Stock		N/A
94	Thermal Generation		Packing - PACKING,S&K 75G0100V0040	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
95	Thermal Generation		Packing - PACKING,S&K 75G0100V0040	In Stock		N/A
96	Thermal Generation		Seal washers - SEAL,S&K 75G0181V0050	In Stock		N/A
97	Thermal Generation		Valve - VALVE KIT,BALL 3	In Stock		N/A
98	Thermal Generation		Actuator - ACTUATOR KIT,WORCH D-38	In Stock		N/A
99	Thermal Generation		Valve - VALVE KIT,BALL 2	In Stock		N/A
100	Thermal Generation		Actuator - ACTUATOR KIT,WORCH C-38	In Stock		N/A
101	Thermal Generation		Mark 5 System - cable assemblies - CABLE ASSY,SERVO G.E.	In Stock		N/A
102	Thermal Generation		Mark 5 System - 50 gal. Intercept Control Valve Servos - VALVE,SERVO 50.0 GPM	In Stock		N/A
103	Thermal Generation		Mark 5 System - 50 gal. Main Control Valve Servos - VALVE,SERVO 50.0 GPM	In Stock		N/A
104	Thermal Generation		Mark 5 System - 6 gal. Intercept Control Valve Servos (scram) - VALVE,SERVO 9.0-11.0 GPM	In Stock		N/A
105	Thermal Generation		Mark 5 System - 6 gal. Main Stop Valve Servos - VALVE,SERVO 9.0-11.0 GPM	In Stock		N/A
106	Thermal Generation		Linear Variable Differential Transducer for Intercept Control Valve & Main Control Valve - TRANSDUCER,GE	In Stock		N/A
107	Thermal Generation		Linear Variable Differential Transducers for 1 per Main Stop Valve - TRANSDUCER,GE	In Stock		N/A
108	Thermal Generation		Cable - CABLE SET,FLUID POWER	In Stock		N/A
109	Thermal Generation		Valve - VALVE,FLUID POWER PILOT	In Stock		N/A
110	Thermal Generation		Sensor - SENSOR,FLUID POWER	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
111	Thermal Generation		Coil - COIL,FLUID POWER	In Stock		N/A
112	Thermal Generation		Go Switch - Limit Switches - SWITCH,LIMIT GO LEVER	In Stock		N/A
113	Thermal Generation		Cable Set - CABLE SET,FLUID POWER	In Stock		N/A
114	Thermal Generation		Valve - VALVE,FLUID POWER PILOT	In Stock		N/A
115	Thermal Generation		Sensor - SENSOR,FLUID POWER	In Stock		N/A
116	Thermal Generation		Coil - COIL,FLUID POWER	In Stock		N/A
117	Thermal Generation		O-Ring Kit - O-RING KIT,FLUID POWER	In Stock		N/A
118	Thermal Generation		RES,50OHM,5%,40 WATT - RESISTOR,500HM	In Stock		N/A
119	Thermal Generation		DIODE MOD,1200V,45A,SKKD46/12 - DIODE,MOD 1200V	In Stock		N/A
120	Thermal Generation		RELAY - RELAY,12HGA11J52	In Stock		N/A
121	Thermal Generation		CPF MK5 CONTROL POWE - CONTROL,MK5 POWER	In Stock		N/A
122	Thermal Generation		TERMINATOR,93 OHMS - TERMINATOR,93 OHMS	In Stock		N/A
123	Thermal Generation		RESISTOR - RESISTOR,323A2354P1	In Stock		N/A
124	Thermal Generation		RESISTOR - RESISTOR,323A2354P2	In Stock		N/A
125	Thermal Generation		RES 100 OHM 5% 40W - RESISTOR,100 OHM	In Stock		N/A
126	Thermal Generation		CAP-METALLIZED-MYLAR - CAP,METALIZED MYLAR	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
127	Thermal Generation		MKV, C-Core Terminal Board - TERMINAL BOARD,MKV C-CORE	In Stock		N/A
128	Thermal Generation		MKV, Terminal Board, Digital I/O - TERMINAL BOARD,DIGITAL I/O	In Stock		N/A
129	Thermal Generation		MKV, Terminal Board, Digital I/O - TERMINAL BOARD,DIGITAL I/O	In Stock		N/A
130	Thermal Generation		MKV, Terminal Board, Relay/Solenoid - TERMINAL BOARD,MKV RELAY	In Stock		N/A
131	Thermal Generation		MKV, Terminal Board, Relay/Solenoid - TERMINAL BOARD,MKV RELAY	In Stock		N/A
132	Thermal Generation		MKV, P-Core Terminal Board - TERMINAL BOARD,MKV P-CORE	In Stock		N/A
133	Thermal Generation		TERM. BOARD (R-S-T) - TERMINAL BOARD,(R-S-T)	In Stock		N/A
134	Thermal Generation		Main Control Card - BOARD,GE DS200SDCCG4A	In Stock		N/A
135	Thermal Generation		MKV, LAN Comm Interface Card - BOARD,GE DS200SLCC G3A/PS	In Stock		N/A
136	Thermal Generation		MKV,Thermocouple Terminal Board - TERMINAL BOARD,THERMOCOUPLE	In Stock		N/A
137	Thermal Generation		MKV,TERM.BD ©R-S-T TC - TERMINAL BOARD,MKV	In Stock		N/A
138	Thermal Generation		MKVe, Analog I/O Terminal Board - TERMINAL BOARD,ANALOG I/O	In Stock		N/A
139	Thermal Generation		MKVe, Analog I/O Terminal Board - TERMINAL BOARD,ANALOG I/O	In Stock		N/A
140	Thermal Generation		MKV,TERM BD (R-S-T) EXT - TERMINAL BOARD,(R-S-T) EXT	In Stock		N/A
141	Thermal Generation		MKV, Common Analog Card - BOARD,GE DS200TCCAG1B	In Stock		N/A
142	Thermal Generation		MKV, DIG. I/O BD. CONF. C - BOARD,GE DS200TCDAH1B/PS	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
143	Thermal Generation		MKV, Emergency Overspeed Card - BOARD,GE DS200TCEAG1B	In Stock		N/A
144	Thermal Generation		MKV, COMM. CIRCUITS FOR T - BOARD,GE DS200TCEBG1B	In Stock		N/A
145	Thermal Generation		PDM, Switch & Fuse Card - BOARD,GE DS200TCPDG1B	In Stock		N/A
146	Thermal Generation		MKV, DC INPUT PWR SUPPLY - BOARD,GE DS200TCPSG1A	In Stock		N/A
147	Thermal Generation		MKV, Analog I/O Card - BOARD,GE DS200TCQAG1B	In Stock		N/A
148	Thermal Generation		MKV, (RST) Extended Analog I/O Card - CARD,EXTENDED MKV (RST)	In Stock		N/A
149	Thermal Generation		MKV, BOARD-(RST) OVERFLOW - BOARD,GE DS200TCQCG1B	In Stock		N/A
150	Thermal Generation		MKV, Relay Output Card - BOARD,GE DS200TCRAG1A/PS	In Stock		N/A
151	Thermal Generation		MKV, Turbine Trip Card - BOARD,GE DS200TCTSG1A	In Stock		N/A
152	Thermal Generation		MODULE,AC TO DC - MODULE,AC TO DC	In Stock		N/A
153	Thermal Generation		(Commissioning Kit) Fuses, Resistors , Diodes, Relays - SPARE KIT,MKV	In Stock		N/A
154	Thermal Generation		Pump - PUMP,DC LUBE OIL	In Stock		N/A
155	Thermal Generation		Motor - MOTOR,DC LUBE OIL PUMP	In Stock		N/A
156	Thermal Generation		Switch - SWITCH,PRESS 0-150 PSI	In Stock		N/A
157	Thermal Generation		Pump - PUMP,HYD FLUID POWER UNIT	In Stock		N/A
158	Thermal Generation		Shaft - SHAFT,IR 10 (TYPE 2 ERVH)	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
159	Thermal Generation		Impeller - IMPELLER,IR 2RVH3DX1-813	In Stock		N/A
160	Thermal Generation		Sleeve - SLEEVE,I RAND 175B135NX1B-204	In Stock		N/A
161	Thermal Generation		Key - KEY,IMPELLER IR 11A9C37	In Stock		N/A
162	Thermal Generation		Motor - MOTOR,ELECT 20HP 575VAC	In Stock		N/A
163	Thermal Generation		Switch - SWITCH,PRESS 0-150 PSI	In Stock		N/A
164	Thermal Generation		Bushing - BUSHING,FISH 1E845714012	In Stock		N/A
165	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E859802202	In Stock		N/A
166	Thermal Generation		Repair Kit - ACTUATOR KIT,FISH R667X000502	In Stock		N/A
167	Thermal Generation		Packing - PACKING KIT,FISH RPACKX0011	In Stock		N/A
168	Thermal Generation		Positioner - POSITIONER,FISH DVC6200	In Stock		N/A
169	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2N130902202	In Stock		N/A
170	Thermal Generation		Repair Kit - ACTUATOR KIT,FISH R667X000702	In Stock		N/A
171	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX232	In Stock		N/A
172	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 27A3965X052	In Stock		N/A
173	Thermal Generation		Cage - CAGE,FISH 20A3245X092	In Stock		N/A
174	Thermal Generation		Ring - RING,FISH 17A3991X022	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
175	Thermal Generation		Seat Ring - RING,FISH 20A3260X152	In Stock		N/A
176	Thermal Generation		Pressure Transmittter - TRANSMITTER,DP -8000-8000KPA	In Stock		N/A
177	Thermal Generation		Bearing - BEARING,BALL 23034CCK/C3W33	In Stock		N/A
178	Thermal Generation		Seal - SEAL,HOWDEN 68-01-615	In Stock		N/A
179	Thermal Generation		Coupling - COUPLING,STEELFLEX 1-1/8 S-4	In Stock		N/A
180	Thermal Generation		Air Motor - AIR MOTOR,ING RAND	In Stock		N/A
181	Thermal Generation		Motor - MOTOR,HEATER 1/3HP (XL GEAR)	In Stock		N/A
182	Thermal Generation		Sleeve - SLEEVE,RELIANCE 411629-6A	In Stock		N/A
183	Thermal Generation		Coupling - COUPLING,BORE 3/4X5/8	In Stock		N/A
184	Thermal Generation		Roller assembly - ROLLER,ASSEMBLY	In Stock		N/A
185	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX182	In Stock		N/A
186	Thermal Generation		Stud - STUD,DEW 0282336	In Stock		N/A
187	Thermal Generation		Repair Kit - ACTUATOR KIT,FISH R667X000402	In Stock		N/A
188	Thermal Generation		Cage - CAGE,FISH 2U224033272	In Stock		N/A
189	Thermal Generation		Plug/Stem - PLUG ASSY,FISH 1V6575X0052	In Stock		N/A
190	Thermal Generation		Ring - RING,FISH 1U222646172	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
191	Thermal Generation		Bushing - BUSHING,FISH 1E682814012	In Stock		N/A
192	Thermal Generation		2" Flanged Valve - VALVE,FISH ATOM STEAM	In Stock		N/A
193	Thermal Generation		Flanged Valve - VALVE,FISH F.O. TRIP	In Stock		N/A
194	Thermal Generation		Repair Kit - PACKING KIT,FISH RPACKX00012	In Stock		N/A
195	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E670002202	In Stock		N/A
196	Thermal Generation		PUMP,IMO C324 - PUMP,IMO C324 (COMPLETE)	In Stock		N/A
197	Thermal Generation		Seal - SEAL,MECHANICAL FUEL C324	In Stock		N/A
198	Thermal Generation		Gasket Set - GASKET SET,FISH RGASKETX312	In Stock		N/A
199	Thermal Generation		Packing - PACKING KIT,FISH RPACKX00012	In Stock		N/A
200	Thermal Generation		Ring - RING,FISH 1U222535072	In Stock		N/A
201	Thermal Generation		Plug/stem - PLUG/STEM,FISH 1U8350X0022	In Stock		N/A
202	Thermal Generation		Cage - CAGE,FISH 2U215033272	In Stock		N/A
203	Thermal Generation		Gasket - GASKET,FISH 10A4154X012	In Stock		N/A
204	Thermal Generation		Ring - RING,FISH 1U222835072	In Stock		N/A
205	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2N126902202	In Stock		N/A
206	Thermal Generation		Cage - CAGE,FISH 2U231833272	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
207	Thermal Generation		Gaskets - GASKET,FUEL OIL HEATER	In Stock		N/A
208	Thermal Generation		Oil, Steam & Scavange Valves - All Same - VALVE,BALL 3/4 C/W PNEU	In Stock		N/A
209	Thermal Generation		Gasket - GASKET,FISH 26A5314X012	In Stock		N/A
210	Thermal Generation		Ring - RING,FISH 10A5410X012	In Stock		N/A
211	Thermal Generation		Bushing - BUSHING,BJ 216507LG	In Stock		N/A
212	Thermal Generation		Shaft Driven Oil Pump - PUMP,BJ DWG C1F-238	In Stock		N/A
213	Thermal Generation		Ring - RING,BJ 612987-EH	In Stock		N/A
214	Thermal Generation		Ring - RING,BJ 634599-BG	In Stock		N/A
215	Thermal Generation		Shoe - SHOE ASSY,BJ 631163-KD	In Stock		N/A
216	Thermal Generation		Cover - COVER,BJ 308952-SA	In Stock		N/A
217	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
218	Thermal Generation		Gasket - GASKET,FISH 12B7100X082	In Stock		N/A
219	Thermal Generation		Seal - SEAL,FISH 10A4215X012	In Stock		N/A
220	Thermal Generation		Ring - RING,FISH 10A4217X012	In Stock		N/A
221	Thermal Generation		Ring - RING,FISH 10A4219X012	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
222	Thermal Generation		Ring - RING,FISH 22B9344X012	In Stock		N/A
223	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 38A0014X062	In Stock		N/A
224	Thermal Generation		Level Transmitter - TRANSMITTER, DP 0-120" H2O	In Stock		N/A
225	Thermal Generation		Level Transmitter - TRANSMITTER, DP 0-120" H2O	In Stock		N/A
226	Thermal Generation		Level Transmitter - TRANSMITTER, DP 0-120" H2O	In Stock		N/A
227	Thermal Generation		Aquarian Alarm Modules - MODULE,AQUARIAN	In Stock		N/A
228	Thermal Generation		Aquarian Alarm Modules - MODULE,AQUARIAN	In Stock		N/A
229	Thermal Generation		Aquarian Alarm Modules - MODULE,AQUARIAN	In Stock		N/A
230	Thermal Generation		Conductivity Probe - PROBE,CONDUCTIVITY	In Stock		N/A
231	Thermal Generation		Relay - RELAY,PLUG-IN 12 PIN AC	In Stock		N/A
232	Thermal Generation		Solenoid - SOLENOID,ASCO 8300 125 VDC	In Stock		N/A
233	Thermal Generation		Oil Tight Limit Switch - SWITCH,LIMIT AB 802T-B	In Stock		N/A
234	Thermal Generation		Packing - PACKING,GRAFOIL 1IDX1-1/2OD	In Stock		N/A
235	Thermal Generation		Gasket - GASKET,HOP 30037592	In Stock		N/A
236	Thermal Generation		Spindle - SPINDLE,HOP 44574-011	In Stock		N/A
237	Thermal Generation		Nut - NUT,HOP 35224-508	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
238	Thermal Generation		Stop - STOP,HOP 8 VALVE 24930W	In Stock		N/A
239	Thermal Generation		Belt - BELT ASSY,HOP 44511-001	In Stock		N/A
240	Thermal Generation		8"- 150# Gasket Kit - GASKET,S&K 74S0397V0010	In Stock		N/A
241	Thermal Generation		8"- 300# Gasket Kit - GASKET,S&K 74S0397V0010	In Stock		N/A
242	Thermal Generation		8"- 600# Gasket Kit - GASKET,S&K 74S0397V0010	In Stock		N/A
243	Thermal Generation		Level Transmitter - TRANSMITTER,PRESS 5-800	In Stock		N/A
244	Thermal Generation		1/2" x 1" Valve - VALVE,RELIEF 1/2"110# SE	In Stock		N/A
245	Thermal Generation		4" Valve - VALVE,GATE 4 CS BW 300#	In Stock		N/A
246	Thermal Generation		2.5" x 5 "Pneumatic PowerPositioner (Hagan) In Stock - VALVE ASSY,373218-001	In Stock		N/A
247	Thermal Generation		Coupling - COUPLING,METASTREAM	In Stock		N/A
248	Thermal Generation		Impeller - IMPELLER,MAT PLA 27881-P	In Stock		N/A
249	Thermal Generation		Impeller - IMPELLER,MAT PLA 27882-P	In Stock		N/A
250	Thermal Generation		Impeller - O-RING,M&P 775C	In Stock		N/A
251	Thermal Generation		Impeller - O-RING,MAT PLA 775D	In Stock		N/A
252	Thermal Generation		Cable - CABLE,BATTERY 1/0	In Stock		N/A
253	Thermal Generation		Mark 5 System - speed probes - PROBE,SPEED PICKUP	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
254	Thermal Generation		Switch - SWITCH,PRESS 0-150 PSI	In Stock		N/A
255	Thermal Generation		Positioner - POSITIONER,FISH DVC6200	In Stock		N/A
256	Thermal Generation		Motor - MOTOR,ELECT 50HP 575V	In Stock		N/A
257	Thermal Generation		Potential Transformer (PT) - TRANSFORMER,GE 765X	In Stock		N/A
258	Thermal Generation		Stand Off Insulator - BUSHING,HIGH VOLTAGE GE	In Stock		N/A
259	Thermal Generation		Truck V-Fast Cables - CABLE SET,FLUID POWER	In Stock		N/A
260	Thermal Generation		Brush - BRUSH,GENERATOR U1 & U2	In Stock		N/A
261	Thermal Generation		Inboard Bearing Liner - LINER,BEARING 6"	In Stock		N/A
262	Thermal Generation		Outboard Bearing Liner - SLEEVE,BEARING 6"	In Stock		N/A
263	Thermal Generation		Bearing Set - BEARING SET,SLEEVE 6"	In Stock		N/A
264	Thermal Generation		200A Power Cell - POWER CELL,SIEMENS 200A	In Stock		N/A
265	Thermal Generation		1500HP Motor, 4160Vac - SCIM, sin# 1026842643, frame MGP500C, 1500HP, 4160Vac, 60Hz	In Stock		N/A
266	Thermal Generation		400A DC Breaker - BREAKER,DC KD2400F 400A	In Stock		N/A
267	Thermal Generation		40A DC Breaker - BREAKER,DC HFD2040 40A	In Stock		N/A
268	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-116	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
269	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-114-1	In Stock		N/A
270	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-111-1	In Stock		N/A
271	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-107-2	In Stock		N/A
272	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-107-2	In Stock		N/A
273	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-107-2	In Stock		N/A
274	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-107-2A	In Stock		N/A
275	Thermal Generation		Electronic Control Cards - CARD,CIGENTEC 81-112-2	In Stock		N/A
276	Thermal Generation		Rectifier - RECTIFIER,CIGENT 323-230	In Stock		N/A
277	Thermal Generation		36 ' Butterfly Valve - VALVE,BUTTERFLY 36"	In Stock		N/A
278	Thermal Generation		CW Butterfly Valve Actuator - ACTUATOR ASSY,ROTORK	In Stock		N/A
279	Thermal Generation		Coils - COILS,STAGE 2 MOTOR	In Stock		N/A
280	Thermal Generation		Network Interface Modules - MODULE,NETWORK INTERFACE	In Stock		N/A
281	Thermal Generation		Master Fuel Trip Relays - RELAY,SD 8501XUDO	In Stock		N/A
282	Thermal Generation		DCS Control Processor - MODULE,PROCESSOR FOXBORO	In Stock		N/A
283	Thermal Generation		Meter & Transmitter - FLOWMETER,PROMASS 83F40	In Stock		N/A
284	Thermal Generation		Positioner - POSITIONER,FISH DVC6200	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
285	Thermal Generation		6" Flange Vacuum Breaker - VALVE,AIR & VACUUM 6 FLG	In Stock		N/A
286	Thermal Generation		Brush - BRUSH,GENERATOR U3	In Stock		N/A
287	Thermal Generation		Bearing Pad - PAD,BEARING U3 SYNC COND	In Stock		N/A
288	Thermal Generation		Seal Ring - RING,SEAL U3 SYNC COND	In Stock		N/A
289	Thermal Generation		Thrust bearing - BEARING,THRUST U3 SYNC COND	In Stock		N/A
290	Thermal Generation		Thrust bearing - BEARING,THRUST U3 SYNCH COND	In Stock		N/A
291	Thermal Generation		Seal Ring - RING,SEAL U3 SYNCH COND	In Stock		N/A
292	Thermal Generation		Thermocouple - THERMOCOUPLE,U3 SYNCH COND	In Stock		N/A
293	Thermal Generation		Bellows - BELLOWS,HITACHI	In Stock		N/A
294	Thermal Generation		Gaskets - GASKET,HITACHI	In Stock		N/A
295	Thermal Generation		Gaskets - GASKET,HITACHI	In Stock		N/A
296	Thermal Generation		Gaskets - GASKET,HITACHI	In Stock		N/A
297	Thermal Generation		Converter - CONVERTER,ABB EXCITER	In Stock		N/A
298	Thermal Generation		ECT Panel - ECT PANEL,ABB EXCITER	In Stock		N/A
299	Thermal Generation		Computer - COMPUTER,ABB EXCITER	In Stock		N/A
300	Thermal Generation		Firing Board - BOARD,ABB EXCITER	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
301	Thermal Generation		Message Module - MODULE,ABB EXCITER	In Stock		N/A
302	Thermal Generation		Input Coupling - INPUT COUPLING UNIT,ABB	In Stock		N/A
303	Thermal Generation		Power Supply - POWER SUPPLY,ABB	In Stock		N/A
304	Thermal Generation		Crowbar - CROWBAR,ABB EXCITER	In Stock		N/A
305	Thermal Generation		Murr - MURR,ABB EXCITER	In Stock		N/A
306	Thermal Generation		Resistor - RESISTOR,ABB EXCITER	In Stock		N/A
307	Thermal Generation		I/O/ Board - BOARD,ABB COMBINED I/O	In Stock		N/A
308	Thermal Generation		Field Breaker - BREAKER,FIELD ABB E2/E	In Stock		N/A
309	Thermal Generation		Insulator Bushing - BUSHING,HIGH VOLTAGE HIT	In Stock		N/A
310	Thermal Generation		Potential Transformer (PT) - TRANSFORMER,EATON VIZZ	In Stock		N/A
311	Thermal Generation		Fuse - FUSE,GE EJ0-1-C588L405G1	In Stock		N/A
312	Thermal Generation		1-1/2" Valve - VALVE KIT,JAMES RKB5MT	In Stock		N/A
313	Thermal Generation		Light Oil / Air Supply Solenoid Valve - SOLENOID,ASCO 8342C1	In Stock		N/A
314	Thermal Generation		Purge Solenoid Valve - SOLENOID,ASCO 8262G232	In Stock		N/A
315	Thermal Generation		Pneumatic Actuator - ACTUATOR,PNEU R16C	In Stock		N/A
316	Thermal Generation		Ignition Transformer - XFMR,IGNITION 120V 60C	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
317	Thermal Generation		Relay - BOX,IGNITOR C/W CABLES N-6	In Stock		N/A
318	Thermal Generation		Sunspot - Scanner - SCANNER,FOSSIL 9100-1000	In Stock		N/A
319	Thermal Generation		Snap Action Switch - MICROSWITCH,16CX12-D01	In Stock		N/A
320	Thermal Generation		1/4" Light Oil Air Ball Valves - VALVE,BALL 1/4" U3 IGNITOR	In Stock		N/A
321	Thermal Generation		Level Transmitter LP Heater #1 - TRANSMITTER,LEVEL	In Stock		N/A
322	Thermal Generation		Aquarian Alarm Modules - MODULE,AQUARIAN	In Stock		N/A
323	Thermal Generation		Solenoid - SOLENOID,ASCO 8300 125 VDC	In Stock		N/A
324	Thermal Generation		Relay - RELAY,OMRON MM4XP-DC125	In Stock		N/A
325	Thermal Generation		Conductivity Probe - PROBE,CONDUCTIVITY	In Stock		N/A
326	Thermal Generation		Gauge Glasses - GAUGE,GLASS 3/4X48	In Stock		N/A
327	Thermal Generation		Level Switch - SWITCH ASSY,MAG 89-7401-052	In Stock		N/A
328	Thermal Generation		Solenoid - SOLENOID,ASCO 8320G184M0	In Stock		N/A
329	Thermal Generation		Level Transmitter - TRANSMITTER, DP 0-120" H2O	In Stock		N/A
330	Thermal Generation		Repair Kit - VALVE KIT,BALL 8"	In Stock		N/A
331	Thermal Generation		Repair Kit - ACTUATOR KIT,WORCH C-38	In Stock		N/A
332	Thermal Generation		Valve - VALVE,FISH 8560-1052-36105	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
333	Thermal Generation		Disc - DISC,FISH 75B1036X102	In Stock		N/A
334	Thermal Generation		Pin - PIN,FISH 75B1122X052	In Stock		N/A
335	Thermal Generation		Pin - PIN,FISH G13725K0022	In Stock		N/A
336	Thermal Generation		Ring - RING,FISH 75B0311X032	In Stock		N/A
337	Thermal Generation		Shaft - SHAFT,FISH 75B0014X012	In Stock		N/A
338	Thermal Generation		Spring - SPRING,FISH 75B0012X012	In Stock		N/A
339	Thermal Generation		Packing - PACKING,FISH 12A8951X022	In Stock		N/A
340	Thermal Generation		Bearing - BEARING,FISH 75B1076X012	In Stock		N/A
341	Thermal Generation		20"Dia - GASKET,COVER HIT	In Stock		N/A
342	Thermal Generation		24" Dia - GASKET,COVER HIT	In Stock		N/A
343	Thermal Generation		14" Dia on DA - GASKET COVER HIT	In Stock		N/A
344	Thermal Generation		Disc - DISC,VALVE SAFETY RELIEF	In Stock		N/A
345	Thermal Generation		Parts to Repair - VALVE,FISH 8560-1052-36105	In Stock		N/A
346	Thermal Generation		Valve Kit - VALVE KIT,BALL 3	In Stock		N/A
347	Thermal Generation		Actuator Kit - ACTUATOR KIT,WORCH D-38	In Stock		N/A
348	Thermal Generation		Valve Kit - VALVE KIT,BALL 2	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
349	Thermal Generation		Actuator Kit - ACTUATOR KIT,WORCH C-38	In Stock		N/A
350	Thermal Generation		Bellows - BELLOW ASSY,HIT L1000-1	In Stock		N/A
351	Thermal Generation		400A DC Breaker - BREAKER,DC KD2400F 400A	In Stock		N/A
352	Thermal Generation		40A DC Breaker - BREAKER,DC HFD2040 40A	In Stock		N/A
353	Thermal Generation		Piston - PISTON RING,HITACHI	In Stock		N/A
354	Thermal Generation		Oil Seal - OIL SEAL,HITACHI	In Stock		N/A
355	Thermal Generation		O-Ring - O-RING,HITACHI	In Stock		N/A
356	Thermal Generation		O-Ring - O-RING,HITACHI	In Stock		N/A
357	Thermal Generation		Bushing - BUSHING,HITACHI	In Stock		N/A
358	Thermal Generation		Packing - PACKING,HITACHI	In Stock		N/A
359	Thermal Generation		Bushing - BUSHING,HITACHI	In Stock		N/A
360	Thermal Generation		O-Ring - O-RING,HITACHI	In Stock		N/A
361	Thermal Generation		Bearing - BEARING,HITACHI LOAD LIMIT	In Stock		N/A
362	Thermal Generation		Bearing - BEARING,HITACHI LOAD LIMIT	In Stock		N/A
363	Thermal Generation		Piston - PISTON RING,HITACHI	In Stock		N/A
364	Thermal Generation		Packing - PACKING,HITACHI	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
365	Thermal Generation		Sleeve - SLEEVE,HITACHI	In Stock		N/A
366	Thermal Generation		Trunnion - TRUNNION,HITACHI	In Stock		N/A
367	Thermal Generation		Bearing - BEARING,BALL HITACHI	In Stock		N/A
368	Thermal Generation		Pin - SPLIT PIN,HITACHI	In Stock		N/A
369	Thermal Generation		Bearing - BEARING,BALL HITACHI	In Stock		N/A
370	Thermal Generation		Oil Seal - OIL SEAL,HITACHI	In Stock		N/A
371	Thermal Generation		Packing - PACKING,HITACHI	In Stock		N/A
372	Thermal Generation		Piston - PISTON RING,HITACHI	In Stock		N/A
373	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A
374	Thermal Generation		Washer - WASHER,HITACHI	In Stock		N/A
375	Thermal Generation		Washer - WASHER,HITACHI	In Stock		N/A
376	Thermal Generation		Washer - WASHER,HITACHI	In Stock		N/A
377	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A
378	Thermal Generation		Washer - WASHER,HITACHI	In Stock		N/A
379	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A
380	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
381	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A
382	Thermal Generation		Washer - WASHER,HITACHI	In Stock		N/A
383	Thermal Generation		Seat Packing - SEAT PACKING,HITACHI	In Stock		N/A
384	Thermal Generation		Bearing - BEARING,PLANE HIT ITEM 35	In Stock		N/A
385	Thermal Generation		Bearing - BEARING,PLANE HIT ITEM 36	In Stock		N/A
386	Thermal Generation		Auto Start Pressure Switch - SWITCH,PRESS 10-300 TYPE ACW2	In Stock		N/A
387	Thermal Generation		Seal Ring - SEALRING,10P-067-551-17	In Stock		N/A
388	Thermal Generation		Seal Ring - SEALRING,10P-067-551-18	In Stock		N/A
389	Thermal Generation		O-Ring - O-RING,HITACHI	In Stock		N/A
390	Thermal Generation		Ring - RING,HIT 10P 067-551-13	In Stock		N/A
391	Thermal Generation		Ring - RING,HIT 10P 067-551-17	In Stock		N/A
392	Thermal Generation		Ring - RING,HIT 10P 067-551-18	In Stock		N/A
393	Thermal Generation		Brush - BRUSH,HIT 10P 067-551-38	In Stock		N/A
394	Thermal Generation		Bearing - BEARING,PLANE HIT ITEM 35	In Stock		N/A
395	Thermal Generation		Bearing - BEARING,PLANE HIT ITEM 36	In Stock		N/A
396	Thermal Generation		Motor - MOTOR,AUX OIL YELLOW	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
397	Thermal Generation		Seat - SEAT,10P-061-226-123	In Stock		N/A
398	Thermal Generation		Pin - PIN,10P-061-226-207	In Stock		N/A
399	Thermal Generation		Lockring - LOCKRING,10P-061-226-208	In Stock		N/A
400	Thermal Generation		Lockring - LOCKRING,10P-061-226-209	In Stock		N/A
401	Thermal Generation		Pin - PIN,HIT 10P-061-226/16	In Stock		N/A
402	Thermal Generation		Pin - PIN,HIT 10P-061-226/98	In Stock		N/A
403	Thermal Generation		Bushing - BUSHING,HIT T-9201	In Stock		N/A
404	Thermal Generation		Pin - PIN,HIT 10P-061-228-125	In Stock		N/A
405	Thermal Generation		Crosshead - CROSSHEAD,HIT 10P0612283	In Stock		N/A
406	Thermal Generation		Pin - PIN,HIT 10P-061-228/98	In Stock		N/A
407	Thermal Generation		Pin - PIN,HIT 10P-061-228/16	In Stock		N/A
408	Thermal Generation		Gasket - GASKET,STL #16	In Stock		N/A
409	Thermal Generation		Gasket - GASKET,HIT 10P-038-197-16	In Stock		N/A
410	Thermal Generation		Gasket - GASKET,HIT 10P-038-197-71	In Stock		N/A
411	Thermal Generation		Bushing - BUSHING,10P-038-197/15	In Stock		N/A
412	Thermal Generation		Seal Ring - SEAL RING,10P-038-197/14	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
413	Thermal Generation		Bushing - BUSHING,HIT 10P-038-197/18	In Stock		N/A
414	Thermal Generation		Bushing - BUSHING,HIT 10P0611582	In Stock		N/A
415	Thermal Generation		Bushing - BUSHING,HIT 10P0611586	In Stock		N/A
416	Thermal Generation		Bushing - BUSHING,HIT 10P06115814	In Stock		N/A
417	Thermal Generation		Rivet - RIVET,HIT 10P-061-158-63	In Stock		N/A
418	Thermal Generation		Stem - STEM,HIT 10P061158/7	In Stock		N/A
419	Thermal Generation		Pin - PIN,HIT 10P06115872	In Stock		N/A
420	Thermal Generation		Pressure Transmitter - Unit 3 - TRANSMITTER,PRESS 0-200	In Stock		N/A
421	Thermal Generation		Bushing - BUSHING,FISH 1E845714012	In Stock		N/A
422	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E859602202	In Stock		N/A
423	Thermal Generation		Actuator repair kit - ACTUATOR KIT,FISH R667X000502	In Stock		N/A
424	Thermal Generation		Packing Kit - PACKING KIT,FISH RPACKX0011	In Stock		N/A
425	Thermal Generation		Positioner - POSITIONER,FISH DVC6200	In Stock		N/A
426	Thermal Generation		Aux Steam Control Valve - Actuator - Unit 3 - ACTUATOR KIT,FISH R470X000032	In Stock		N/A
427	Thermal Generation		Aux Steam Control Valve - Body - Unit 3 - BODY,VALVE FISH 3N192029022	In Stock		N/A
428	Thermal Generation		Dump Control Valve - Actuator - Repair Kit - Unit 3 - ACTUATOR KIT,FISHER R667	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
429	Thermal Generation		Ring - RING,FISH 17A3990X022	In Stock		N/A
430	Thermal Generation		Ring - RING,FISH 1U508039102	In Stock		N/A
431	Thermal Generation		Pin - PIN,FISH 1V326035072	In Stock		N/A
432	Thermal Generation		Cage - CAGE,FISH 2U505939102	In Stock		N/A
433	Thermal Generation		Plug - PLUG,FISH 27A3953X012	In Stock		N/A
434	Thermal Generation		Thrust Plate - THRUST PLATE KIT,DODGE 132221	In Stock		N/A
435	Thermal Generation		Formed Coils - COIL,WINDING U3 FD FAN	In Stock		N/A
436	Thermal Generation		Liner - LINER ASSY,DODGE 132423	In Stock		N/A
437	Thermal Generation		Collar - COLLAR,DODGE 132154	In Stock		N/A
438	Thermal Generation		Opposite side bearing - LINER ASSY,DODGE 132951	In Stock		N/A
439	Thermal Generation		Falk Steelflex coupling - COUPLING,STEEFLFLEX GRID	In Stock		N/A
440	Thermal Generation		Gasket - GASKET,DODGE 132170	In Stock		N/A
441	Thermal Generation		Actuator Repair Kit - DRIVE KIT,BAILEY 532694C1	In Stock		N/A
442	Thermal Generation		Actuator repair kit - DRIVE KIT,BAILEY 256111A0	In Stock		N/A
443	Thermal Generation		Gearbox - GEARBOX,AIR HEATER U3	In Stock		N/A
444	Thermal Generation		Air Drive Motor - AIR MOTOR,ING RAND	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
445	Thermal Generation		Probe - In Stock - PROBE,OXYGEN ANALYZER	In Stock		N/A
446	Thermal Generation		Analyser - ANALYZER,ROSE 3000 OXY	In Stock		N/A
447	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX362	In Stock		N/A
448	Thermal Generation		Packing - PACKING KIT,FISH RPACKX0002	In Stock		N/A
449	Thermal Generation		Actuator - ACTUATOR KIT,FISH R667X000502	In Stock		N/A
450	Thermal Generation		Regulator - REGULATOR KIT,FISH WR67AFRX011	In Stock		N/A
451	Thermal Generation		Bushing - BUSHING,FISH 1E845714012	In Stock		N/A
452	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E859802202	In Stock		N/A
453	Thermal Generation		Cage - CAGE,FISH 2U236033272	In Stock		N/A
454	Thermal Generation		Ring - RING,FISH 1U217305092	In Stock		N/A
455	Thermal Generation		Seat - SEAT,FISH 1U222046172	In Stock		N/A
456	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 1V6571X0042	In Stock		N/A
457	Thermal Generation		Cage - CAGE,FISH 2U215333272	In Stock		N/A
458	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX242	In Stock		N/A
459	Thermal Generation		Packing - PACKING KIT,FISH RPACKX00012	In Stock		N/A
460	Thermal Generation		Bushing - BUSHING,FISH 1E682814012	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
461	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E669902202	In Stock		N/A
462	Thermal Generation		Cage - CAGE,FISH 2U223733272	In Stock		N/A
463	Thermal Generation		Ring - RING,FISH 1U222646172	In Stock		N/A
464	Thermal Generation		Plug/Stem - PLUG ASSY,FISH 1V6575X0052	In Stock		N/A
465	Thermal Generation		Packing - PACKING KIT,FISH RPACKX0002	In Stock		N/A
466	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX182	In Stock		N/A
467	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E670002202	In Stock		N/A
468	Thermal Generation		Packing - PACKING KIT,FISH RPACKX0002	In Stock		N/A
469	Thermal Generation		Repair Kit - ACTUATOR KIT,FISH R667X000402	In Stock		N/A
470	Thermal Generation		Bushing - BUSHING,FISH 1E682814012	In Stock		N/A
471	Thermal Generation		Retainer - RETAINER,FISH 1V710935072	In Stock		N/A
472	Thermal Generation		Disc - DISC,FISH 1V711006242	In Stock		N/A
473	Thermal Generation		Seat - SEAT,FISH 1V711135072	In Stock		N/A
474	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E669902202	In Stock		N/A
475	Thermal Generation		Cage - CAGE,FISH 2U227633272	In Stock		N/A
476	Thermal Generation		Repair Kit - ACTUATOR KIT,FISH R667X000402	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
477	Thermal Generation		Bushing - BUSHING,FISH 1E682814012	In Stock		N/A
478	Thermal Generation		Diaphragm - DIAPHRAGM,FISH 2E669902202	In Stock		N/A
479	Thermal Generation		Pump - PUMP,MAIN FUEL OIL KRAL	In Stock		N/A
480	Thermal Generation		1" Welded Flange Valve w/ Actuator - VALVE ASSY,JAMES 1052 1"	In Stock		N/A
481	Thermal Generation		3/4" Welded Valve w/ Actuator - VALVE ASSY,JAMES 1052 3/4"	In Stock		N/A
482	Thermal Generation		1/2"Ball Valve - VALVE KIT,JAMES RKB5MT	In Stock		N/A
483	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX312	In Stock		N/A
484	Thermal Generation		Packing - PACKING KIT,FISH RPACKX00012	In Stock		N/A
485	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 1U2161X0082	In Stock		N/A
486	Thermal Generation		Ring - RING,FISH 1U222546172	In Stock		N/A
487	Thermal Generation		Cage - CAGE,FISH 2U215033272	In Stock		N/A
488	Thermal Generation		Gasket - GASKET SET,FISH RGASKETX312	In Stock		N/A
489	Thermal Generation		Packing - PACKING KIT,FISH RPACKX00012	In Stock		N/A
490	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 1U2161X0082	In Stock		N/A
491	Thermal Generation		Ring - RING,FISH 1U222546172	In Stock		N/A
492	Thermal Generation		Cage - CAGE,FISH 2U215033272	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
493	Thermal Generation		Rotating Assembly - CASE ASSY,BWL (INNER)	In Stock		N/A
494	Thermal Generation		Shoe Assembly - SHOE ASSY,KI-00166-A-3740	In Stock		N/A
495	Thermal Generation		Throttle bushing (2 req'd) - BUSHING,BWL 3106181	In Stock		N/A
496	Thermal Generation		Bearing - BEARING,HIT 9-60-1	In Stock		N/A
497	Thermal Generation		Bearing - BEARING,HIT 9-60-2	In Stock		N/A
498	Thermal Generation		Balance bushing - BUSHING,BWL 3106181	In Stock		N/A
499	Thermal Generation		Thrust bearing - BEARING ASSY,THRUST JHJ-5	In Stock		N/A
500	Thermal Generation		Gaskets - GASKET,BWL T-101204JG	In Stock		N/A
501	Thermal Generation		2350HP Motor, 4160Vac - SCIM, sin# 1026842642, frame MGP450D, 2350HP, 4160Vac, 60Hz	In Stock		N/A
502	Thermal Generation		6" - EHT valve 1500lb - Welded - DIAPHRAGM,FISH 2R6376X00	In Stock		N/A
503	Thermal Generation		1 - 13A5599X052 - O-Ring - O-RING,FISH 13A5599X052	In Stock		N/A
504	Thermal Generation		1 - 27A2798X042 - Seat Ring, O-Ring - RING,FISH 27A2798X042	In Stock		N/A
505	Thermal Generation		2 - 26A5314X012 - Gasket - GASKET,FISH 26A5314X012	In Stock		N/A
506	Thermal Generation		1 - 1J872906332 - Upper Wiper - WIPER,FISH 1J872906332	In Stock		N/A
507	Thermal Generation		1 - 1J873435072 - Packing Box Ring - RING,FISH 1J873435072	In Stock		N/A
508	Thermal Generation		1 - 1H7441X0022 - Bushing Seal - SEAL,FISH 1H7441X0022	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
509	Thermal Generation		1 - 2R6376X0082 - Diaphragm - DIAPHRAGM,FISH 2R6376X00	In Stock		N/A
510	Thermal Generation		1 - R667X000802 - Repair Kit - ACTUATOR KIT,FISHER R667	In Stock		N/A
511	Thermal Generation		Conductivity Probe - PROBE,CONDUCTIVITY	In Stock		N/A
512	Thermal Generation		Aquarian Alarm Module - PROBE,AQUARIAN	In Stock		N/A
513	Thermal Generation		Level Transmitter - TRANSMITTER, DP 0-120" H2O	In Stock		N/A
514	Thermal Generation		Relay - RELAY,OMRON MM4XP-DC125	In Stock		N/A
515	Thermal Generation		Solenoid - SOLENOID,ASCO 8300 125 VDC	In Stock		N/A
516	Thermal Generation		Bushing - BUSHING,DEW 0800109	In Stock		N/A
517	Thermal Generation		Clip - CLIP,DEW 0540097	In Stock		N/A
518	Thermal Generation		Ring - RING,DEW 0760093	In Stock		N/A
519	Thermal Generation		Ring - RING,DEW 668215DEW	In Stock		N/A
520	Thermal Generation		Screw - SCREW,DEW 0440024	In Stock		N/A
521	Thermal Generation		Spacer - SPACER,DEW 0660065	In Stock		N/A
522	Thermal Generation		Spring - SPRING,DEW 6580312 (3/SET)	In Stock		N/A
523	Thermal Generation		Stem - STEM,DEW 0040851	In Stock		N/A
524	Thermal Generation		Stud - STUD,DEW 0282351	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
525	Thermal Generation		Stud - STUD,DEW 0280514	In Stock		N/A
526	Thermal Generation		Packing - PACKING,DEW 6442946	In Stock		N/A
527	Thermal Generation		Nut - NUT,DEW P71ER250	In Stock		N/A
528	Thermal Generation		6" Dia - GASKET,COVER HIT	In Stock		N/A
529	Thermal Generation		8" Dia - GASKET,COVER HIT	In Stock		N/A
530	Thermal Generation		10" Dia - GASKET,COVER HIT	In Stock		N/A
531	Thermal Generation		Stud - STUD,DEW 0280443	In Stock		N/A
532	Thermal Generation		Stud - STUD,DEW 0280513	In Stock		N/A
533	Thermal Generation		Disc - DISC,DEW 051095	In Stock		N/A
534	Thermal Generation		Ring - RING,DEW 0760072	In Stock		N/A
535	Thermal Generation		Ring - RING,DEW 2004920	In Stock		N/A
536	Thermal Generation		Stud - STUD,DEW 0440024	In Stock		N/A
537	Thermal Generation		Nut - NUT,DEW #2003863	In Stock		N/A
538	Thermal Generation		Nut - NUT,DEW 2000006	In Stock		N/A
539	Thermal Generation		Nut - NUT,KEYSTONE 903-735	In Stock		N/A
540	Thermal Generation		Transmitter - TRANSMITTER,PRESS 5-800	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
541	Thermal Generation		Cage - CAGE ASSY,FISH 22A3525X022	In Stock		N/A
542	Thermal Generation		Plug/Stem - PLUG/STEM,FISH 22A3527X052	In Stock		N/A
543	Thermal Generation		Gasket - GASKET,FISH 10A4155X012	In Stock		N/A
544	Thermal Generation		Gasket - GASKET,FISH 10A4154X012	In Stock		N/A
545	Thermal Generation		Ring - RING,FISH 10A4210X012	In Stock		N/A
546	Thermal Generation		Ring - RING,FISH 12A3529X012	In Stock		N/A
547	Thermal Generation		Ring - RING,FISH 11A3306X012	In Stock		N/A
548	Thermal Generation		1/2" Dia - VALVE,RELIEF 1/2"110# SE	In Stock		N/A
549	Thermal Generation		Body - BODY,VALVE MASON 37-79264	In Stock		N/A
550	Thermal Generation		Ring - RING KIT,MASON 01148734399	In Stock		N/A
551	Thermal Generation		Retainer - RETAINER,MASON 358754-000-163	In Stock		N/A
552	Thermal Generation		Seal - SEAL,MASON 358753-000-210	In Stock		N/A
553	Thermal Generation		Stem - STEM,MASON 358738-113-210	In Stock		N/A
554	Thermal Generation		Diaphragm - DIAPHRAGM,MASON 010275-040-77	In Stock		N/A
555	Thermal Generation		Stem - STEM,MASON 770354-027-152	In Stock		N/A
556	Thermal Generation		Feeder to MCC E1 - breaker C4 - BREAKER,EATON 600V	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
557	Thermal Generation		Feeder to MCC C12 - breaker C7 - BREAKER,EATON 600V	In Stock		N/A
558	Thermal Generation		Feeder to Power Centre - breaker C14 - BREAKER,EATON 600V	In Stock		N/A
559	Thermal Generation		Feeder to Power Centre - breaker C15 - BREAKER,EATON 600V	In Stock		N/A
560	Thermal Generation		breaker C3 - BREAKER,EATON 600V	In Stock		N/A
561	Thermal Generation		breaker C5 - BREAKER,EATON 600V	In Stock		N/A
562	Thermal Generation		breaker C6 - BREAKER,EATON 600V	In Stock		N/A
563	Thermal Generation		breaker C8 - BREAKER,EATON 600V	In Stock		N/A
564	Thermal Generation		breaker C9 - BREAKER,EATON 600V	In Stock		N/A
565	Thermal Generation		breaker C10 - BREAKER,EATON 600V	In Stock		N/A
566	Thermal Generation		breaker C11 - BREAKER,EATON 600V	In Stock		N/A
567	Thermal Generation		breaker C12 - BREAKER,EATON 600V	In Stock		N/A
568	Thermal Generation		breaker C13 - BREAKER,EATON 600V	In Stock		N/A
569	Thermal Generation		Circuit Breaker to Bus - breaker C16 - BREAKER,EATON 600V	In Stock		N/A
570	Thermal Generation		Circuit Breaker to Bus - breaker C17 - BREAKER,EATON 600V	In Stock		N/A
571	Thermal Generation		Feeder to MCC - breaker C18 - BREAKER,EATON 600V	In Stock		N/A
572	Thermal Generation		Circuit Breaker to Bus - breaker C19 - BREAKER,EATON 600V	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
573	Thermal Generation		SSB-3 Relay - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
574	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
575	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
576	Thermal Generation		Feeder to transformer ATC - breaker SSB-3 - BREAKER,EATON 4160V 2000A	In Stock		N/A
577	Thermal Generation		SSB-4 Relay - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
578	Thermal Generation		SSB-4 Relay - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
579	Thermal Generation		Feeder to Station Board - breaker SSB-2 - BREAKER,EATON 4160V 2000A	In Stock		N/A
580	Thermal Generation		Feeder to Station Board - breaker SSB-4 - BREAKER,EATON 4160V 2000A	In Stock		N/A
581	Thermal Generation		Feeder to Boiler Area MCC BAB3 - breaker SDB-34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
582	Thermal Generation		GPB34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
583	Thermal Generation		AC34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
584	Thermal Generation		CWP34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
585	Thermal Generation		LDP34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
586	Thermal Generation		WTP34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
587	Thermal Generation		Feeder to Diesel Bus DB34 - Breaker DB34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
588	Thermal Generation		Feeder to Diesel Bus - D2 - BREAKER,SCHNEIDER 600V	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
589	Thermal Generation		Feeder to Diesel Bus - DBT - BREAKER,SCHNEIDER 600V	In Stock		N/A
590	Thermal Generation		breaker ST34 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
591	Thermal Generation		breaker ST34 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
592	Thermal Generation		breaker TB12 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
593	Thermal Generation		breaker TB12 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
594	Thermal Generation		breaker SAT34 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
595	Thermal Generation		breaker SAT34 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
596	Thermal Generation		TB3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
597	Thermal Generation		TB3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
598	Thermal Generation		Feeder to Station Board - breaker ST34 & relays - BREAKER,EATON 4160V 2000A	In Stock		N/A
599	Thermal Generation		Feeder to Station Board - breaker TB12 & relays - BREAKER,EATON 4160V 2000A	In Stock		N/A
600	Thermal Generation		Circuit Breaker TB3 - BREAKER,EATON 4160V 2000A	In Stock		N/A
601	Thermal Generation		breaker PSM3 & relay - BREAKER,EATON 4160V 1200A	In Stock		N/A
602	Thermal Generation		breaker TB12 relays - SYNCHROTECT,SYN5201	In Stock		N/A
603	Thermal Generation		breaker TB12 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
604	Thermal Generation		TB3 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
605	Thermal Generation		TB3 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
606	Thermal Generation		Circuit Breaker UB1-1 - BREAKER,EATON 4160V 2000A	In Stock		N/A
607	Thermal Generation		UB1-1 Relay - SYNCHROTECT,SYN5201	In Stock		N/A
608	Thermal Generation		UB1-1 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
609	Thermal Generation		UB1-1 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
610	Thermal Generation		Circuit Breaker UB2-12 - BREAKER,EATON 4160V 2000A	In Stock		N/A
611	Thermal Generation		UB2-12 Relay - SYNCHROTECT,SYN5201	In Stock		N/A
612	Thermal Generation		UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
613	Thermal Generation		UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
614	Thermal Generation		UB2-12 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
615	Thermal Generation		Feeder to Power Centre A - A1 - BREAKER,EATON 600V	In Stock		N/A
616	Thermal Generation		Feeder to Power Centre A - A9 - BREAKER,EATON 600V	In Stock		N/A
617	Thermal Generation		Feeder to transformer LT-A - breaker A3 - BREAKER,EATON 600V	In Stock		N/A
618	Thermal Generation		Feeder to MCC A1 - breaker A4 - BREAKER,EATON 600V	In Stock		N/A
619	Thermal Generation		A5 - BREAKER,EATON 600V	In Stock		N/A
620	Thermal Generation		A6 - BREAKER,EATON 600V	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
621	Thermal Generation		A7 - BREAKER,EATON 600V	In Stock		N/A
622	Thermal Generation		UB1-4 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
623	Thermal Generation		UB1-9 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
624	Thermal Generation		UB1-11 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
625	Thermal Generation		UB1-2 relays - RELAY,AUXILIARY RXMA-2	In Stock		N/A
626	Thermal Generation		UB1-2 relays - RELAY,AUXILIARY RXMA-1	In Stock		N/A
627	Thermal Generation		UB1-2 relays - RELAY,AUXILIARY RXMS-1	In Stock		N/A
628	Thermal Generation		UB1-2 relays - RELAY,AUXILIARY RXMH-2	In Stock		N/A
629	Thermal Generation		UB1-3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
630	Thermal Generation		UB1-3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
631	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
632	Thermal Generation		Feeder to Unit Board UB1 - breaker UB1-2 - BREAKER,EATON 4160V 2000A	In Stock		N/A
633	Thermal Generation		Feeder to transformer ATA - breaker UB1-3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
634	Thermal Generation		breaker UB1-4 - BREAKER,EATON 4160V 1200A	In Stock		N/A
635	Thermal Generation		breaker UB1-5 - BREAKER,EATON 4160V 1200A	In Stock		N/A
636	Thermal Generation		breaker UB1-6 - BREAKER,EATON 4160V 1200A	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
637	Thermal Generation		breaker UB1-7 - BREAKER,EATON 4160V 1200A	In Stock		N/A
638	Thermal Generation		breaker UB1-8 - BREAKER,EATON 4160V 1200A	In Stock		N/A
639	Thermal Generation		breaker UB1-9 - BREAKER,EATON 4160V 1200A	In Stock		N/A
640	Thermal Generation		breaker UB1-10 - BREAKER,EATON 4160V 1200A	In Stock		N/A
641	Thermal Generation		breaker UB1-11 - BREAKER,EATON 4160V 1200A	In Stock		N/A
642	Thermal Generation		UB1-2 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
643	Thermal Generation		Feeder to Power Centre B - breaker B1 - BREAKER,EATON 600V	In Stock		N/A
644	Thermal Generation		Feeder to transformer LT-B - breaker B4 - BREAKER,EATON 600V	In Stock		N/A
645	Thermal Generation		Feeder to MCC B1 - breaker B5 - BREAKER,EATON 600V	In Stock		N/A
646	Thermal Generation		B2 - BREAKER,EATON 600V	In Stock		N/A
647	Thermal Generation		B6 - BREAKER,EATON 600V	In Stock		N/A
648	Thermal Generation		B7 - BREAKER,EATON 600V	In Stock		N/A
649	Thermal Generation		B8 - BREAKER,EATON 600V	In Stock		N/A
650	Thermal Generation		UB2-3 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
651	Thermal Generation		UB2-4 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
652	Thermal Generation		UB2-9 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
653	Thermal Generation		UB2-10 relay - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
654	Thermal Generation		UB2-1 relays - RELAY,AUXILIARY RXMA-2	In Stock		N/A
655	Thermal Generation		UB2-1 relays - RELAY,AUXILIARY RXMA-1	In Stock		N/A
656	Thermal Generation		UB2-1 relays - RELAY,AUXILIARY RXMS-1	In Stock		N/A
657	Thermal Generation		UB2-1 relays - RELAY,AUXILIARY RXMH-2	In Stock		N/A
658	Thermal Generation		UB2-2 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
659	Thermal Generation		UB2-2 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
660	Thermal Generation		Feeder to Unit Board - breaker UB2-1 & relays - BREAKER,EATON 4160V 2000A	In Stock		N/A
661	Thermal Generation		Feeder to Transformer ATB, breaker UB2-2 - BREAKER,EATON 4160V 1200A	In Stock		N/A
662	Thermal Generation		UB2-3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
663	Thermal Generation		UB2-4 - BREAKER,EATON 4160V 1200A	In Stock		N/A
664	Thermal Generation		UB2-5 - BREAKER,EATON 4160V 1200A	In Stock		N/A
665	Thermal Generation		UB2-6 - BREAKER,EATON 4160V 1200A	In Stock		N/A
666	Thermal Generation		UB2-7 - BREAKER,EATON 4160V 1200A	In Stock		N/A
667	Thermal Generation		UB2-8 - BREAKER,EATON 4160V 1200A	In Stock		N/A
668	Thermal Generation		UB2-9 - BREAKER,EATON 4160V 1200A	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
669	Thermal Generation		UB2-10 - BREAKER,EATON 4160V 1200A	In Stock		N/A
670	Thermal Generation		UB2-1 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
671	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
672	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
673	Thermal Generation		Feeder to Aux Board - breaker UAB-3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
674	Thermal Generation		Feeder to transformer LDP-3 - breaker LDP-3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
675	Thermal Generation		Feeder to MCC BAB3 - breaker BAB-3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
676	Thermal Generation		AOP3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
677	Thermal Generation		TAB3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
678	Thermal Generation		AC12 - BREAKER,SCHNEIDER 600V	In Stock		N/A
679	Thermal Generation		Tie Breaker to Station Board - breaker ATB3 - BREAKER,SCHNEIDER 600V	In Stock		N/A
680	Thermal Generation		Relays - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
681	Thermal Generation		UT3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
682	Thermal Generation		UT3 relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
683	Thermal Generation		UAT3 Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
684	Thermal Generation		UAT3 Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
685	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
686	Thermal Generation		Feeder to Unit Board - breaker UT3 - BREAKER,EATON 4160V 2000A	In Stock		N/A
687	Thermal Generation		Feeder to transformer UAT3 - breaker UAT3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
688	Thermal Generation		BFE3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
689	Thermal Generation		BFW3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
690	Thermal Generation		FDE3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
691	Thermal Generation		FDW3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
692	Thermal Generation		CEN3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
693	Thermal Generation		CES3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
694	Thermal Generation		CWE3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
695	Thermal Generation		CWW3 - BREAKER,EATON 4160V 1200A	In Stock		N/A
696	Thermal Generation		UT3 relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
697	Thermal Generation		Relays - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
698	Thermal Generation		SSB-3 Relay - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
699	Thermal Generation		Relays - RELAY,PROTECTION SEL701	In Stock		N/A
700	Thermal Generation		Feeder to Station Board - breaker SSB-1 & Relays - BREAKER,EATON 4160V 2000A	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
701	Thermal Generation		SSB-1 Relay - SYNCHROTECT,SYN5201	In Stock		N/A
702	Thermal Generation		SSB-1 Relay - RELAY,VOLTAGE ABB SPAU121C	In Stock		N/A
703	Thermal Generation		SSB-1 Relay - RELAY,AUXILIARY RXMA-2	In Stock		N/A
704	Thermal Generation		SSB-1 Relay - RELAY,AUXILIARY RXMA-1	In Stock		N/A
705	Thermal Generation		SSB-1 Relay - RELAY,AUXILIARY RXMS-1	In Stock		N/A
706	Thermal Generation		SSB-1 Relay - RELAY,AUXILIARY RXMH-2	In Stock		N/A
707	Thermal Generation		breaker PSM3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
708	Thermal Generation		UB1-5 relay - RELAY,PROTECTION SEL701	In Stock		N/A
709	Thermal Generation		UB1-6 relay - RELAY,PROTECTION SEL701	In Stock		N/A
710	Thermal Generation		UB1-7 relay - RELAY,PROTECTION SEL701	In Stock		N/A
711	Thermal Generation		UB1-8 relay - RELAY,PROTECTION SEL701	In Stock		N/A
712	Thermal Generation		UB1-10 relay - RELAY,PROTECTION SEL701	In Stock		N/A
713	Thermal Generation		UB2-5 relay - RELAY,PROTECTION SEL701	In Stock		N/A
714	Thermal Generation		UB2-6 relay - RELAY,PROTECTION SEL701	In Stock		N/A
715	Thermal Generation		UB2-7 relay - RELAY,PROTECTION SEL701	In Stock		N/A
716	Thermal Generation		UB2-8 relay - RELAY,PROTECTION SEL701	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
717	Thermal Generation		BFE3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
718	Thermal Generation		BFW3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
719	Thermal Generation		FDE3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
720	Thermal Generation		FDW3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
721	Thermal Generation		CEN3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
722	Thermal Generation		CES3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
723	Thermal Generation		CWE3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
724	Thermal Generation		CWW3 relay - RELAY,PROTECTION SEL701	In Stock		N/A
725	Thermal Generation		Relays - RELAY,PROTECTION SEL701	In Stock		N/A
726	Thermal Generation		Feeder to Power Centre - breaker C1 - BREAKER,EATON 600V	In Stock		N/A
727	Thermal Generation		Feeder to MCC C1 - breaker C2 - BREAKER,EATON 600V	In Stock		N/A
728	Thermal Generation		Feeder to transformer SAT34 - breaker SAT34 & relays - BREAKER,EATON 4160V 1200A	In Stock		N/A
729	Thermal Generation		Feeder to Station Board - breaker SAB34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
730	Thermal Generation		Feeder to Station Board - breaker ATB12 - BREAKER,SCHNEIDER 600V	In Stock		N/A
731	Thermal Generation		WAM34 - BREAKER,SCHNEIDER 600V	In Stock		N/A
732	Thermal Generation		Relays - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
733	Thermal Generation		Relays - RELAY,OVERCURRENT SEL 551C	In Stock		N/A
734	Thermal Generation		Relays - RELAY,RETRO. PBSJ3E5N11	In Stock		N/A
735	Thermal Generation		Packing - PACKING,S&K 12"	On Order		TBD
736	Thermal Generation		Pressure Transmitter - Unit 1 - TRANSMITTER,PRESS -30-0"	On Order		TBD
737	Thermal Generation		Cage - CAGE,FISH 42B3570X012	On Order		TBD
738	Thermal Generation		Plug/stem - PLUG/STEM,FISH 36A5366X062	On Order		TBD
739	Thermal Generation		Ring - RING,FISH 26A5285X012	On Order		TBD
740	Thermal Generation		Ring - RING,FISH 26A5299X052	On Order		TBD
741	Thermal Generation		Ring - RING,FISH 10A5411X022	On Order		TBD
742	Thermal Generation		Pin - PIN,FISH 1V334035072	On Order		TBD
743	Thermal Generation		Gasket - GASKET,FISH 18A2810X012	On Order		TBD
744	Thermal Generation		Packing - PACKING,FISH 1R290601012	On Order		TBD
745	Thermal Generation		Controller - CONTROLLER,ABB EXCITER	On Order		TBD
746	Thermal Generation		2 - Temperature probes installed in bearings - THERMOCOUPLE,TYPE T	On Order		TBD
747	Thermal Generation		1 - 10A5411X022 -Seal Ring - RING,FISH 10A5411X022	On Order		TBD
748	Thermal Generation		1 - 26A5299X052 - Seat Ring Retainer - RING,FISH 26A5299X052	On Order		TBD

Critical Spares Status for Thermal Generation

#	Operational Area	Part Number	Description	Inventory Status	Risk Score	Expected Delivery Date
749	Thermal Generation		1 - 42B3570X012 - Cage, Eq% - CAGE,FISH 42B3570X012	On Order		TBD
750	Thermal Generation		1 - 36A5366X062 - Plug/Stem Bal - PLUG/STEM,FISH 36A5366X062	On Order		TBD
751	Thermal Generation		1 - 1R290601012 - Packing Set - PACKING,FISH 1R290601012	On Order		TBD
752	Thermal Generation		Packing - PACKING,FISH 1R290601012	On Order		TBD
753	Thermal Generation		Gasket - GASKET,MASON 356154-152-825	On Order		TBD
754	Thermal Generation		Seal - SEAL,MASON 354810-034-779	On Order		TBD
755	Thermal Generation		Pin - PIN,MASON 971342-023-250	On Order		TBD
756	Thermal Generation		Plug - PLUG,MASON 011509-398206	On Order		TBD
757	Thermal Generation		Seat - SEAT,MASON 358748-000-596	On Order		TBD
758	Thermal Generation		Liner - LINER,MASON 359005-000-213	On Order		TBD
759	Thermal Generation		Transmitter - Unit 1 - FLOWMETER,ROSE	Order Pending		TBD

Summary of Thermal Generation Critical Spares:

In Stock 734

On Order 24

Order Pending 1

Grand Total 759

Appendix F

Critical Spares Status Listing – Combustion Turbines

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
1	Gas Turbines Holyrood GT	3900023	HEATER,400W PANEL	In Stock	1	N/A
2	Gas Turbines Holyrood GT	3900024	THERMOSTAT KIT,WR-90	Order Pending	0	TBD
3	Gas Turbines Holyrood GT	3900025	HEATER,12KW OPEN COIL	Order Pending	0	TBD
4	Gas Turbines Holyrood GT	3900026	HEATER,3PH COMFORT	Order Pending	0	TBD
5	Gas Turbines Holyrood GT	3900028	ELEMENT,CHROMOLOX	Order Pending	0	TBD
6	Gas Turbines Holyrood GT	3900029	HEATER,CHROMOLOX	Order Pending	0	TBD
7	Gas Turbines Holyrood GT	22900028	BELT,POLYBAND	In Stock	6	N/A
8	Gas Turbines Holyrood GT	25900063	COUPLING,FISHER	In Stock	1	N/A
9	Gas Turbines Holyrood GT	37900015	CABLE,TITAN IGNITER	Order Pending	0	TBD
10	Gas Turbines Holyrood GT	37900016	IGNITER,SPARK PLUG	In Stock	2	N/A
11	Gas Turbines Holyrood GT	42100313	BELT,V	In Stock	6	N/A
12	Gas Turbines Holyrood GT	42100314	SHAFT,FISHER	In Stock	1	N/A
13	Gas Turbines Holyrood GT	42100315	BELT,RADIATOR FAN	On Order	0	TBD
14	Gas Turbines Holyrood GT	42900001	PUMP,CONVERTER CHARGING	In Stock	1	N/A
15	Gas Turbines Holyrood GT	42900002	REPAIR KIT,SSS CLUTCH MINOR	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
16	Gas Turbines Holyrood GT	43900018	DAMPER,VACUUM CONTROL	Order Pending	0	TBD
17	Gas Turbines Holyrood GT	54100202	VALVE,CHECK 3"	In Stock	1	N/A
18	Gas Turbines Holyrood GT	54100203	VALVE,SS POPPET CHECK	In Stock	1	N/A
19	Gas Turbines Holyrood GT	54100204	VALVE,150# CHECK	Order Pending	0	TBD
20	Gas Turbines Holyrood GT	54100205	VALVE,CHECK	Order Pending	0	TBD
21	Gas Turbines Holyrood GT	54100206	VALVE,FUEL CHECK	In Stock	3	N/A
22	Gas Turbines Holyrood GT	54100207	VALVE,PVC CHECK	Order Pending	0	TBD
23	Gas Turbines Holyrood GT	54100208	VALVE,CHECK	In Stock	1	N/A
24	Gas Turbines Holyrood GT	54100209	VALVE,SOLENOID	In Stock	1	N/A
25	Gas Turbines Holyrood GT	54300750	VALVE,FUEL BYPASS	In Stock	1	N/A
26	Gas Turbines Holyrood GT	54300751	REPAIR KIT,BYPASS VALVE	In Stock	3	N/A
27	Gas Turbines Holyrood GT	54400323	VALVE,PUMP DISCHARGE	In Stock	1	N/A
28	Gas Turbines Holyrood GT	54400324	VALVE,AIR RELIEF	Order Pending	0	TBD
29	Gas Turbines Holyrood GT	54400325	VALVE,PRESSURE RELIEF	Order Pending	0	TBD
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

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
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	54600159	VALVE,1" SW BALL	Order Pending	0	TBD
39	Gas Turbines Holyrood GT	54600160	VALVE 2" NPT BALL	Order Pending	0	TBD
40	Gas Turbines Holyrood GT	54600161	VALVE,3/8" THD BALL	Order Pending	0	TBD
41	Gas Turbines Holyrood GT	54600163	VALVE,2" PVC BALL	Order Pending	0	TBD
42	Gas Turbines Holyrood GT	54800068	VALVE,STOP	In Stock	1	N/A
43	Gas Turbines Holyrood GT	54800069	FILTER,WATER	In Stock	28	N/A
44	Gas Turbines Holyrood GT	54800070	VALVE,BUTTERFLY	Order Pending	0	TBD
45	Gas Turbines Holyrood GT	54900160	VALVE,SHUTDOWN PURGE	On Order	0	TBD
46	Gas Turbines Holyrood GT	54900161	VALVE,CONTINUOUS PURGE	On Order	0	TBD
47	Gas Turbines Holyrood GT	54900162	ANALYZER,DEW POINT	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
48	Gas Turbines Holyrood GT	54900163	RACK & PINION,PNEUMATIC	In Stock	1	N/A
49	Gas Turbines Holyrood GT	54900164	VALVE,AIR INLET	In Stock	1	N/A
50	Gas Turbines Holyrood GT	54900165	VALVE,AUTOMATIC DRAIN	In Stock	2	N/A
51	Gas Turbines Holyrood GT	54900166	VALVE,AUTO SHUT-OFF	In Stock	2	N/A
52	Gas Turbines Holyrood GT	54900167	THERMOCOUPLE,TEMPERATURE	In Stock	2	N/A
53	Gas Turbines Holyrood GT	54900168	VALVE,TEMP CONTROL	Order Pending	0	TBD
54	Gas Turbines Holyrood GT	54900169	VALVE,AIR FILTER DRAIN	In Stock	1	N/A
55	Gas Turbines Holyrood GT	54900170	VALVE,TEMP CONTROL	Order Pending	0	TBD
56	Gas Turbines Holyrood GT	54900171	VALVE,COMPRESSOR BLEED	Capital	0	TBD
57	Gas Turbines Holyrood GT	54900172	VALVE,COMPRESSOR BLEED	Capital	0	TBD
58	Gas Turbines Holyrood GT	54900173	VALVE,PRESS REGULATING	Order Pending	0	TBD
59	Gas Turbines Holyrood GT	54900174	COIL,OVERSPEED TRIP	In Stock	1	N/A
60	Gas Turbines Holyrood GT	54900175	COIL.MAGNETIC SPEED PICK-UP	In Stock	1	N/A
61	Gas Turbines Holyrood GT	54900176	VALVE,NEEDLE	In Stock	1	N/A
62	Gas Turbines Holyrood GT	54900177	VALVE,FEMALE NEEDLE	In Stock	2	N/A
63	Gas Turbines Holyrood GT	54900178	VALVE,6Z-PR4-BNT-SS	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
64	Gas Turbines Holyrood GT	54900188	VALVE,GLOBE	In Stock	2	N/A
65	Gas Turbines Holyrood GT	54900189	INDICTATOR,SIGHT	In Stock	1	N/A
66	Gas Turbines Holyrood GT	54900190	VALVE ASSY,PILOT	In Stock	1	N/A
67	Gas Turbines Holyrood GT	54900193	VALVE,INLET SHUFFLE	Order Pending	0	TBD
68	Gas Turbines Holyrood GT	54900194	FLOAT,SURESITE	In Stock	1	N/A
69	Gas Turbines Holyrood GT	54900195	REPAIR KIT,SOLENOID	On Order	0	TBD
70	Gas Turbines Holyrood GT	54900196	VALVE,SUPPLY FILTER	In Stock	1	N/A
71	Gas Turbines Holyrood GT	54900197	VALVE,THROTTLE	In Stock	1	N/A
72	Gas Turbines Holyrood GT	56200362	GASKET,FLANGE	Order Pending	0	TBD
73	Gas Turbines Holyrood GT	56200363	GASKET,CENTAUR	Order Pending	0	TBD
74	Gas Turbines Holyrood GT	56200364	GASKET,FILTER HOUSING	In Stock	6	N/A
75	Gas Turbines Holyrood GT	56400182	O-RING,BUNA	In Stock	10	N/A
76	Gas Turbines Holyrood GT	56400183	O-RING,FISHER	In Stock	1	N/A
77	Gas Turbines Holyrood GT	56400184	BUSHING ASSY,FISHER POT	In Stock	1	N/A
78	Gas Turbines Holyrood GT	56500206	FILL KIT,SF6	In Stock	1	N/A
79	Gas Turbines Holyrood GT	56500208	SEAL.MECHANICAL	Order Pending	0	TBD

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
80	Gas Turbines Holyrood GT	58000077	BELT,1320-BLT-S-EHX19-90	In Stock	6	N/A
81	Gas Turbines Holyrood GT	58101224	COUPLING,PUMP/MOTOR	In Stock	1	N/A
82	Gas Turbines Holyrood GT	58101225	PUMP,GEAR	In Stock	1	N/A
83	Gas Turbines Holyrood GT	58101229	COUPLING,PUMP-MOTOR	In Stock	1	N/A
84	Gas Turbines Holyrood GT	58101230	COUPLING,PUMP-MOTOR	In Stock	1	N/A
85	Gas Turbines Holyrood GT	58101231	REPAIR KIT,INJ. PUMP	In Stock	1	N/A
86	Gas Turbines Holyrood GT	58400504	FILTER,FUEL CAT 1R0749	In Stock	10	N/A
87	Gas Turbines Holyrood GT	58400762	ELEMENT,0180MA0003BN	In Stock	1	N/A
88	Gas Turbines Holyrood GT	58400763	FILTER,LIQUID FUEL	In Stock	25	N/A
89	Gas Turbines Holyrood GT	58400764	FILTER,AIR (ELEMENT)	In Stock	20	N/A
90	Gas Turbines Holyrood GT	58400766	ELEMENT,PRE-FILTER	In Stock	6	N/A
91	Gas Turbines Holyrood GT	58400768	FILTER, AIR	In stock	16	N/A
92	Gas Turbines Holyrood GT	58400769	FILTER, AIR	In Stock	64	N/A
93	Gas Turbines Holyrood GT	58400772	FILTER KIT,FUEL	In Stock	1	N/A
94	Gas Turbines Holyrood GT	58400773	AIR FILTER,SOLAR FINAL	Order Pending	0	TBD
95	Gas Turbines Holyrood GT	58400775	KIT,OIL FILTER & O-RING	In Stock	6	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
96	Gas Turbines Holyrood GT	58400776	PRE-FILTER,SOLAR	Order Pending	0	TBD
97	Gas Turbines Holyrood GT	58400777	FILTER,TITAN LUBE OIL	Order Pending	0	TBD
98	Gas Turbines Holyrood GT	58400778	FILTER,961131C1 FUEL	In Stock	6	N/A
99	Gas Turbines Holyrood GT	58400779	FILTER,TITAN FUEL	Order Pending	0	TBD
100	Gas Turbines Holyrood GT	58400780	FILTER,FUEL BOOST KIT	In Stock	1	N/A
101	Gas Turbines Holyrood GT	58400781	FILTER,HIGH PRESSURE FUEL	Order Pending	0	TBD
102	Gas Turbines Holyrood GT	58400782	FILTER,IGV ACTUATOR	In Stock	6	N/A
103	Gas Turbines Holyrood GT	58400783	FILTER,TMP-95 FINAL	In Stock	55	N/A
104	Gas Turbines Holyrood GT	58400784	PRE-FILTER,Z-100	In Stock	130	N/A
105	Gas Turbines Holyrood GT	58400785	PRE-FILTER,PARKER AIR DRYER	In Stock	8	N/A
106	Gas Turbines Holyrood GT	58400786	AFTER-FILTER,AIR DRYER	In Stock	4	N/A
107	Gas Turbines Holyrood GT	58400787	FILTER,PRESSURE	In Stock	4	N/A
108	Gas Turbines Holyrood GT	58400788	ELEMENT,POST FILTER	In Stock	6	N/A
109	Gas Turbines Holyrood GT	58400789	FILTER,LUBE OIL	Order Pending	0	TBD
110	Gas Turbines Holyrood GT	58400790	TRANSMITTER,PRESSURE	In Stock	1	N/A
111	Gas Turbines Holyrood GT	58400791	FILTER,LUBE OIL	In Stock	20	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
112	Gas Turbines Holyrood GT	58400792	KIT,SOFT PARTS	In Stock	1	N/A
113	Gas Turbines Holyrood GT	58400796	MICROSWITCH ASSY,FILTER	Order Pending	0	TBD
114	Gas Turbines Holyrood GT	58400797	FILTER,FLOW CONTROL	In Stock	1	N/A
115	Gas Turbines Holyrood GT	58400798	FILTER,FLOW CONTROL	In Stock	1	N/A
116	Gas Turbines Holyrood GT	58400799	CARTRIDGE,DESICCANT	In Stock	1	N/A
117	Gas Turbines Holyrood GT	58400801	FILTER,OIL 275-2604	In Stock	6	N/A
118	Gas Turbines Holyrood GT	58400802	FILTER,AIR 4P0710S	In Stock	2	N/A
119	Gas Turbines Holyrood GT	58400824	PRE-FILTER,AIR COOLING	In Stock	72	N/A
120	Gas Turbines Holyrood GT	58400825	PRE-FILTER,AIR COOLING	In Stock	32	N/A
121	Gas Turbines Holyrood GT	58608460	SWITCH,TEMPERATURE	in Stock	1	TBD
122	Gas Turbines Holyrood GT	60101067	METER,FLOW	In Stock	1	N/A
123	Gas Turbines Holyrood GT	60101068	TRANSMITTER,LIQUID FUEL TEMP	In Stock	1	N/A
124	Gas Turbines Holyrood GT	60101069	SWITCH,PUMP SUPPLY PRESSURE	In Stock	1	N/A
125	Gas Turbines Holyrood GT	60101070	TRANSMITTER,PUMP DISCHARGE	In Stock	1	N/A
126	Gas Turbines Holyrood GT	60101071	VALVE,ACTUATED THROTTLE	In Stock	1	N/A
127	Gas Turbines Holyrood GT	60101072	SWITCH,PUMP DISCHARGE PRESS.	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
128	Gas Turbines Holyrood GT	60101073	METER,FLOW	In Stock	1	N/A
129	Gas Turbines Holyrood GT	60101074	CONTROLLER,STEP LIFO	In Stock	1	N/A
130	Gas Turbines Holyrood GT	60101075	CONTROLLER,LIMIT (0-2502-F)	In Stock	1	N/A
131	Gas Turbines Holyrood GT	60101076	CONTROLLER,STEP LIFO (4 STAGE)	In Stock	1	N/A
132	Gas Turbines Holyrood GT	60101077	DRYER,INSTRUMENT AIR	In Stock	1	N/A
133	Gas Turbines Holyrood GT	60101078	TRANSMITTER,GROUND FAULT	Order Pending	0	TBD
134	Gas Turbines Holyrood GT	60101079	SWITCH,PRESSURE	In Stock	1	N/A
135	Gas Turbines Holyrood GT	60101080	SENSOR,TEMPERATURE	On Order	0	TBD
136	Gas Turbines Holyrood GT	60101082	SWITCH,HEATER SUPPLY FLOW	In Stock	1	N/A
137	Gas Turbines Holyrood GT	60101083	GAUGE,PRESSURE	In Stock	1	N/A
138	Gas Turbines Holyrood GT	60101084	TRANSMITTER,RADAR LEVEL	In Stock	1	N/A
139	Gas Turbines Holyrood GT	60101085	LEVEL SWITCH,DAY TANK	In Stock	1	N/A
140	Gas Turbines Holyrood GT	60101086	TRANSMITTER,HEATER DISCHARGE	In Stock	1	N/A
141	Gas Turbines Holyrood GT	60101087	RTD,HEATER DISCHARGE TEMP.	In Stock	1	N/A
142	Gas Turbines Holyrood GT	60101088	LEVEL TRANSMITTER,LEVEL	In Stock	1	N/A
143	Gas Turbines Holyrood GT	60101089	SWITCH,DISPLACER LEVEL	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
144	Gas Turbines Holyrood GT	60101090	SWITCH ASSEMBLY,LIMIT	In Stock	2	N/A
145	Gas Turbines Holyrood GT	60101092	CABLE,SOLAR,IGNITER	In Stock	1	N/A
146	Gas Turbines Holyrood GT	60101094	PICKUP,MAGNETIC	In Stock	1	N/A
147	Gas Turbines Holyrood GT	60101095	SWITCH,OVERSPEED	In Stock	1	N/A
148	Gas Turbines Holyrood GT	60101096	VALVE,COMPRESSOR SOLENOID	On Order	0	TBD
149	Gas Turbines Holyrood GT	60101097	SWITCH,VALVE OPEN LIMIT	Order Pending	0	TBD
150	Gas Turbines Holyrood GT	60101099	TRANSMITTER,GUIDE POSITION	In Stock	1	N/A
151	Gas Turbines Holyrood GT	60101100	SWITCH,VALVE OPEN LIMIT	Order Pending	0	TBD
152	Gas Turbines Holyrood GT	60101101	VALVE,SOLENOID	In Stock	1	N/A
153	Gas Turbines Holyrood GT	60101104	SWITCH,HIGH PRESSURE	In Stock	1	N/A
154	Gas Turbines Holyrood GT	60101105	TOWER,LUBE OIL FILTER	Order Pending	0	TBD
155	Gas Turbines Holyrood GT	60101106	GAUGE,OIL TEMPERATURE	In Stock	1	N/A
156	Gas Turbines Holyrood GT	60101107	SWITCH,PRESSURE	In Stock	1	N/A
157	Gas Turbines Holyrood GT	60101108	THERMOCOUPLE,LUBE OIL TEMP	Order Pending	0	TBD
158	Gas Turbines Holyrood GT	60101109	VALVE,PRESSURE CONTROL	In Stock	1	N/A
159	Gas Turbines Holyrood GT	60101110	SWITCH,PRESSURE	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
160	Gas Turbines Holyrood GT	60101111	INDICATOR,VACUUM PRESSURE	In Stock	1	N/A
161	Gas Turbines Holyrood GT	60101114	SWITCH,TEMPERATURE	In Stock	1	N/A
162	Gas Turbines Holyrood GT	60101115	SWITCH,PRESSURE	In Stock	1	N/A
163	Gas Turbines Holyrood GT	60101116	PICK UP,GENERATOR SPEED	Order Pending	0	TBD
164	Gas Turbines Holyrood GT	60101117	SENSOR,#1 OVERSPEED TRIP	In Stock	2	N/A
165	Gas Turbines Holyrood GT	60101118	PICK UP,TORQUE CONVERTER SP	Order Pending	0	TBD
166	Gas Turbines Holyrood GT	60101119	SWITCH,MANIFOLD PRESSURE	In Stock	1	N/A
167	Gas Turbines Holyrood GT	60101120	SWITCH,DIFFERENTIAL PRESS	In Stock	2	N/A
168	Gas Turbines Holyrood GT	60101121	SWITCH,DIFFERENTIAL PRESSURE	In Stock	1	N/A
169	Gas Turbines Holyrood GT	60101122	TRANSMITTER,31 TEMPERATURE	In Stock	1	N/A
170	Gas Turbines Holyrood GT	60101123	RTD,#1 PRIMARY SIGNAL	In Stock	1	N/A
171	Gas Turbines Holyrood GT	60101124	TRANSMITTER,PRESSURE	On Order	0	TBD
172	Gas Turbines Holyrood GT	60101125	SWITCH,PRESSURE	In stock	1	N/A
173	Gas Turbines Holyrood GT	60101126	SWITCH, LOW ALARM PRESSURE	In Stock	1	N/A
174	Gas Turbines Holyrood GT	60101127	VALVE,SOLENOID	In stock	1	N/A
175	Gas Turbines Holyrood GT	60101128	SWITCH,START STOP PRESSURE	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
176	Gas Turbines Holyrood GT	60101129	INDICTATOR,LOW OIL LEVEL	In Stock	1	N/A
177	Gas Turbines Holyrood GT	60101130	SWITCH,OIL PUMP PRESSURE	On Order	0	TBD
178	Gas Turbines Holyrood GT	60101131	SWITCH,OIL PUMP PRESSURE	In Stock	2	N/A
179	Gas Turbines Holyrood GT	60101132	SWITCH,OIL FLOW	In stock	2	N/A
180	Gas Turbines Holyrood GT	60101134	VALVE,AIR BLEED	In Stock	1	N/A
181	Gas Turbines Holyrood GT	60101135	SWITCH,DISCH PRESSURE	In Stock	1	N/A
182	Gas Turbines Holyrood GT	60101136	INDICATOR,LOOP PRESSURE	Order Pending	0	TBD
183	Gas Turbines Holyrood GT	60101137	TRANSMITTER,LEVEL	In Stock	1	N/A
184	Gas Turbines Holyrood GT	60101138	INDICATOR,LEVEL	In Stock	1	N/A
185	Gas Turbines Holyrood GT	60101139	TRANSMITTER,PRESSURE	In Stock	1	N/A
186	Gas Turbines Holyrood GT	60101140	SWITCH,TEMPERATURE (OFF)	In Stock	1	N/A
187	Gas Turbines Holyrood GT	60101141	SWITCH,TEMPERATURE (ON)	In Stock	1	N/A
188	Gas Turbines Holyrood GT	60101142	SWITCH,TEMPERATURE	In Stock	1	N/A
189	Gas Turbines Holyrood GT	60101143	SWITCH,DIFF. PRESSURE	In Stock	1	N/A
190	Gas Turbines Holyrood GT	60101144	THERMOCOUPLE,RESERVOIR	In Stock	1	N/A
191	Gas Turbines Holyrood GT	60101145	SWITCH,FLUID LOW LEVEL	Order Pending	0	TBD

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
192	Gas Turbines Holyrood GT	60101148	SPEED CONTROL,NUMATICS	Order Pending	0	TBD
193	Gas Turbines Holyrood GT	60101149	SWITCH,CHLORINE FLOW	In Stock	1	N/A
194	Gas Turbines Holyrood GT	60101150	SWITCH,INSULATOR #58-PA	Order Pending	0	TBD
195	Gas Turbines Holyrood GT	60101151	SWITCH,STAGER 48-03	Order Pending	0	TBD
196	Gas Turbines Holyrood GT	60101152	ACTUATOR,PNEUMATIC	In Stock	1	N/A
197	Gas Turbines Holyrood GT	60101153	TRANSMITTER,PRESSURE	In Stock	1	N/A
198	Gas Turbines Holyrood GT	60101154	TRANSMITTER,PRESSURE	In Stock	3	N/A
199	Gas Turbines Holyrood GT	60101155	INPUT CARD,PLC	In Stock	1	N/A
200	Gas Turbines Holyrood GT	60101156	FUSE,LOW VOLTAGE DC	On Order	0	TBD
201	Gas Turbines Holyrood GT	60101157	MODULE,DC POWER SUPPLY	On Order	0	TBD
202	Gas Turbines Holyrood GT	60101158	MODULE,POWER SUPPLY	On Order	0	TBD
203	Gas Turbines Holyrood GT	60101159	MODULE,POWER INPUT	On Order	0	TBD
204	Gas Turbines Holyrood GT	60101160	MANUAL,POWER SUPPLY MODULE	On Order	0	TBD
205	Gas Turbines Holyrood GT	60101161	VALVE,ACTUATOR	Order Pending	0	TBD
206	Gas Turbines Holyrood GT	60101162	VALVE,BALL	In Stock	1	N/A
207	Gas Turbines Holyrood GT	60101164	SENSOR,VIBRATION	Order Pending	0	TBD

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
208	Gas Turbines Holyrood GT	60101170	SENSOR,VIBRATION	Order Pending	0	TBD
209	Gas Turbines Holyrood GT	60101171	SWITCH,PRESSURE	In Stock	1	N/A
210	Gas Turbines Holyrood GT	60101172	SWITCH,PRESSURE	In Stock	1	N/A
211	Gas Turbines Holyrood GT	60101173	MODULE,POWER SWITCH	In Stock	1	N/A
212	Gas Turbines Holyrood GT	60101174	ACTUATOR,LOUVER	In stock	1	N/A
213	Gas Turbines Holyrood GT	60101175	THERMOSTAT,VENTILATION	In Stock	1	N/A
214	Gas Turbines Holyrood GT	60101176	SWITCH,TEMPERATURE	Order Pending	0	TBD
215	Gas Turbines Holyrood GT	60101177	SENSOR,INLINE FLOW	Order Pending	0	TBD
216	Gas Turbines Holyrood GT	60101178	KIT,STACK FITTINGS	In Stock	1	N/A
217	Gas Turbines Holyrood GT	60101179	RELAY,SINGLE POLE	In Stock	2	N/A
218	Gas Turbines Holyrood GT	60101180	SWITCH,E-CELL PRESSURE	Order Pending	0	TBD
219	Gas Turbines Holyrood GT	60101181	SENSOR,E-CELL FLOW	Order Pending	0	TBD
220	Gas Turbines Holyrood GT	60101182	ANALYZER,CONDUCTIVITY	Order Pending	0	TBD
221	Gas Turbines Holyrood GT	60101183	METER,30-199.9 MV	Order Pending	0	TBD
222	Gas Turbines Holyrood GT	60101184	TRANSDUCER,55A CURRENT	On Order	0	TBD
223	Gas Turbines Holyrood GT	60101185	CONTACTOR,E-CELL 32A	In Stock	2	TBD

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
224	Gas Turbines Holyrood GT	60101186	TRANSMITTER,PRESSURE	Order Pending	0	TBD
225	Gas Turbines Holyrood GT	60101191	SWITCH,DIFF PRESSURE	In Stock	1	N/A
226	Gas Turbines Holyrood GT	60101192	ACTUATOR,DEMAND CONTROL	Capital	0	TBD
227	Gas Turbines Holyrood GT	60101193	TRANSMITTER,PRESSURE	Order Pending	0	TBD
228	Gas Turbines Holyrood GT	60800395	MONITOR,MULTIFUNCTION	In Stock	1	N/A
229	Gas Turbines Holyrood GT	60800396	POWER SUPPLY,24VDC	In stock	1	N/A
230	Gas Turbines Holyrood GT	60800397	SENSOR,ORP	In Stock	1	N/A
231	Gas Turbines Holyrood GT	60800398	PREAMPLIFIER,ORP	Order Pending	0	TBD
232	Gas Turbines Holyrood GT	60900049	SENSOR,CONDUCTIVITY	In Stock	1	N/A
233	Gas Turbines Holyrood GT	61100423	MANIFOLD,PRESSURE TRANSMITTER	In Stock	1	N/A
234	Gas Turbines Holyrood GT	61100424	THERMOCOUPLE ASSEMBLY TYPE J	Order Pending	0	TBD
235	Gas Turbines Holyrood GT	61100425	THERMOCOUPLE,TYPE K	Order Pending	0	TBD
236	Gas Turbines Holyrood GT	61100426	GAUGE,PRESSURE	In Stock	1	N/A
237	Gas Turbines Holyrood GT	61100427	INDICATOR,BLUE MOISTURE	In Stock	1	N/A
238	Gas Turbines Holyrood GT	61100428	THERMOMETER,RESISTANCE	In Stock	1	N/A
239	Gas Turbines Holyrood GT	61100429	THERMOCOUPLE,SHELL	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
240	Gas Turbines Holyrood GT	61100430	RTD,AIR TEMPERATURE	Order Pending	0	TBD
241	Gas Turbines Holyrood GT	61100431	FLOWMETER,TURBINE	In Stock	1	N/A
242	Gas Turbines Holyrood GT	61100432	INDICTATOR,DISCHG PRESS	In Stock	1	N/A
243	Gas Turbines Holyrood GT	61100433	SWITCH,DIFF PRESSURE	In Stock	1	N/A
244	Gas Turbines Holyrood GT	61100434	FLOWMETER,MAGNETIC	In Stock	1	N/A
245	Gas Turbines Holyrood GT	61100435	TRANSMITTER,TANK LEVEL	In Stock	1	N/A
246	Gas Turbines Holyrood GT	61100436	GAUGE,PRESSURE	In Stock	1	N/A
247	Gas Turbines Holyrood GT	61100437	REGULATOR,SIGNAL PRESSURE	In Stock	1	N/A
248	Gas Turbines Holyrood GT	61100438	THERMOCOUPLE,EXHAUST	Order Pending	0	TBD
249	Gas Turbines Holyrood GT	61100439	SOLENOID,BLEED VALVE	In Stock	1	N/A
250	Gas Turbines Holyrood GT	61100440	THERMOCOUPLE,BLADE PATH	In Stock	8	N/A
251	Gas Turbines Holyrood GT	61100441	THERMOCOUPLE,DISC CAVITY	Order Pending	0	TBD
252	Gas Turbines Holyrood GT	61100442	GAUGE,DIAL PRESSURE	Order Pending	0	TBD
253	Gas Turbines Holyrood GT	61100443	VALVE,CONTROL	Order Pending	0	TBD
254	Gas Turbines Holyrood GT	61100444	VALVE,CONTROL	Order Pending	0	TBD

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
255	Gas Turbines Holyrood GT	61100445	TRANSMITTER,OIL PRESSURE	Order Pending	0	TBD
256	Gas Turbines Holyrood GT	61100447	INDICATOR,OIL LEVEL	Order Pending	0	TBD
257	Gas Turbines Holyrood GT	61100448	THERMOCOUPLE,TEMPERATURE	Order Pending	0	TBD
258	Gas Turbines Holyrood GT	61100449	THERMOCOUPLE,TEMPERATURE	Order Pending	0	TBD
259	Gas Turbines Holyrood GT	61100450	GAUGE,CONVERTER PRESSURE	In Stock	2	N/A
260	Gas Turbines Holyrood GT	61100451	GAUGE,CAPSUHELIC	In Stock	1	N/A
261	Gas Turbines Holyrood GT	61100452	INDICTATOR,PRESSURE	In Stock	1	N/A
262	Gas Turbines Holyrood GT	61100453	INDICTATOR,PRESSURE	In Stock	1	N/A
263	Gas Turbines Holyrood GT	61100454	GAUGE,CAPSUHELIC	In Stock	1	N/A
264	Gas Turbines Holyrood GT	61100455	TRANSMITTER,PRESSURE	In Stock	1	N/A
265	Gas Turbines Holyrood GT	61100456	REGULATOR,PRESSURE	In Stock	1	N/A
266	Gas Turbines Holyrood GT	61100457	GAUGE,PRESSURE	In Stock	1	N/A
267	Gas Turbines Holyrood GT	61100458	GAUGE,PRESSURE	In Stock	1	N/A
268	Gas Turbines Holyrood GT	61100459	GAUGE,PRESSURE	Order Pending	0	TBD
269	Gas Turbines Holyrood GT	61100460	GAUGE,PRESS REGULATING	In Stock	1	N/A
270	Gas Turbines Holyrood GT	61100463	GAUGE,PRESSURE	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
271	Gas Turbines Holyrood GT	61100464	GAUGE,PRESSURE	In Stock	1	N/A
272	Gas Turbines Holyrood GT	61100465	GAUGE,PRESSURE	In Stock	1	N/A
273	Gas Turbines Holyrood GT	61100466	PRESSURE GUAGE 0-500PSI	In Stock	1	N/A
274	Gas Turbines Holyrood GT	61100467	GAUGE,PRESSURE 0-500PSI	In Stock	1	N/A
275	Gas Turbines Holyrood GT	61100468	THERMOSTAT,AC#1	Order Pending	0	TBD
276	Gas Turbines Holyrood GT	61100469	DIVIDER,FLOW	In Stock	1	N/A
277	Gas Turbines Holyrood GT	61900223	TRANSMITTER,DEW POINT -100F	In Stock	2	N/A
278	Gas Turbines Holyrood GT	61900225	MONITOR,GROUND VERIFICATION	In Stock	1	N/A
279	Gas Turbines Holyrood GT	65000435	MOTOR,FLAP ACTUATOR	In Stock	1	N/A
280	Gas Turbines Holyrood GT	65000436	BRUSH,CARBON MOTOR	In Stock	1	N/A
281	Gas Turbines Holyrood GT	65000437	ACTUATOR,AUMA	Order Pending	0	TBD
282	Gas Turbines Holyrood GT	65000438	VALVE,SOLENOID	In Stock	1	N/A
283	Gas Turbines Holyrood GT	65000439	MOTOR,10 HP DC TURNING GEAR	In Stock	1	N/A
284	Gas Turbines Holyrood GT	65000442	MOTOR,BALDOR	In Stock	1	N/A
285	Gas Turbines Holyrood GT	65900003	BRUSH SET,TURNING MOTOR GEAR	In Stock	5	N/A
286	Gas Turbines Holyrood GT	65900004	COUPLING,PUMP/MOTOR	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
287	Gas Turbines Holyrood GT	68601089	RELAY,DPDT 120VAC	In Stock	1	N/A
288	Gas Turbines Holyrood GT	68601090	RELAY,TPDT 120VAC	In Stock	1	N/A
289	Gas Turbines Holyrood GT	68601093	CUT-OUT,AUTO	In Stock	3	N/A
290	Gas Turbines Holyrood GT	70000370	FUSE,AGC 1A 250V	In Stock	10	N/A
291	Gas Turbines Holyrood GT	70000373	FUSE,AGC 3A 250V	In Stock	10	N/A
292	Gas Turbines Holyrood GT	70000481	FUSE,POWER CLASS J 45A	In Stock	10	N/A
293	Gas Turbines Holyrood GT	70000482	FUSE,PRIMARY 20A	In Stock	4	N/A
294	Gas Turbines Holyrood GT	70000483	FUSE,SECONDARY 8A	In Stock	4	N/A
295	Gas Turbines Holyrood GT	70000484	CONTACTOR,50A 120VAC	In Stock	2	N/A
296	Gas Turbines Holyrood GT	70000485	FUSE,PANEL HEATER 4.5A	In Stock	3	N/A
297	Gas Turbines Holyrood GT	70000486	FUSE,AC 25A	In Stock	4	N/A
298	Gas Turbines Holyrood GT	70000487	FUSE,SIEMENS PG	In Stock	2	N/A
299	Gas Turbines Holyrood GT	70000488	FUSE,15.0A	In Stock	10	N/A
300	Gas Turbines Holyrood GT	70000489	FUSE,5.0A	In Stock	20	N/A
301	Gas Turbines Holyrood GT	70000490	FUSE,1.0A	In Stock	10	N/A
302	Gas Turbines Holyrood GT	70000491	FUSE,2.0A 300 VDC	In Stock	10	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
303	Gas Turbines Holyrood GT	70000492	FUSE,3.0A	In Stock	20	N/A
304	Gas Turbines Holyrood GT	70000493	FUSE,12A	In Stock	10	N/A
305	Gas Turbines Holyrood GT	70000500	FUSE,2AMP	In Stock	10	N/A
306	Gas Turbines Holyrood GT	70000501	FUSE,3AMP GMC-R	In Stock	10	N/A
307	Gas Turbines Holyrood GT	70000502	FUSE,3A E-CELL	In Stock	2	N/A
308	Gas Turbines Holyrood GT	70000503	FUSE,25A E-CELL	In Stock	2	N/A
309	Gas Turbines Holyrood GT	70000504	FUSE,2A E-CELL	In Stock	2	N/A
310	Gas Turbines Holyrood GT	70000506	FUSE,6A GMC-6A	In Stock	10	N/A
311	Gas Turbines Holyrood GT	70000507	FUSE,1.25A GMC-1.25A	In Stock	10	N/A
312	Gas Turbines Holyrood GT	70000508	FUSE,8A E-CELL	In Stock	4	N/A
313	Gas Turbines Holyrood GT	70000509	FUSE,AC PIM	In Stock	3	N/A
314	Gas Turbines Holyrood GT	74201105	CONTACT,BRUSH	Order Pending	0	TBD
315	Gas Turbines Holyrood GT	74201106	CONTACT,1NC BLK	In Stock	1	N/A
316	Gas Turbines Holyrood GT	74600097	PILOT LIGHT ASSEMBLY.AMBER	In Stock	6	N/A
317	Gas Turbines Holyrood GT	74600098	SWITCH,AUXILIARY	Order Pending	0	TBD
318	Gas Turbines Holyrood GT	74600099	MODULE,TMR I/O	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
319	Gas Turbines Holyrood GT	74600100	MODULE,TMR I/O	In Stock	1	N/A
320	Gas Turbines Holyrood GT	74600101	MODULE,PROX/VELOM I/O	In Stock	1	N/A
321	Gas Turbines Holyrood GT	74600102	MODULE,PROX/VELOM I/O	In Stock	1	N/A
322	Gas Turbines Holyrood GT	74600103	MODULE,SHAFT ABSOLUTE	In Stock	1	N/A
323	Gas Turbines Holyrood GT	74600104	MODULE,PROX/SEISMIC	In Stock	1	N/A
324	Gas Turbines Holyrood GT	74600105	MODULE,I/O	In Stock	1	N/A
325	Gas Turbines Holyrood GT	74600106	MODULE,ABSOLUTE SHAFT	In Stock	1	N/A
326	Gas Turbines Holyrood GT	74600107	MODULE,PROX/SEISMIC	In Stock	1	N/A
327	Gas Turbines Holyrood GT	74600108	MODULE,I/O	In Stock	1	N/A
328	Gas Turbines Holyrood GT	74600109	MODULE,I/O	In Stock	1	N/A
329	Gas Turbines Holyrood GT	74600110	MODULE,PROX/SEISMIC	In Stock	1	N/A
330	Gas Turbines Holyrood GT	74600111	MODULE,DISCRETE I/O	In Stock	1	N/A
331	Gas Turbines Holyrood GT	74600112	MODULE,SIGNAL OUTPUT	In Stock	1	N/A
332	Gas Turbines Holyrood GT	74600113	MODULE,DISCRETE I/O	In Stock	2	N/A
333	Gas Turbines Holyrood GT	74600114	LAMP,115VAC PILOT	In Stock	6	N/A
334	Gas Turbines Holyrood GT	74600115	MODULE,3500/50	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
335	Gas Turbines Holyrood GT	80900088	BULB,TEMP A DRY	In Stock	1	N/A
336	Gas Turbines Holyrood GT	81200812	R-DIODE	In Stock	12	N/A
337	Gas Turbines Holyrood GT	81200813	F-DIODE	In Stock	12	N/A
338	Gas Turbines Holyrood GT	81200814	CAPACITOR ASSEMBLY,RC	In Stock	1	N/A
339	Gas Turbines Holyrood GT	88600152	OIL,COMPRESSOR	Order Pending	0	TBD
340	Gas Turbines Holyrood GT	89200233	OIL,LUBE	In Stock	2	N/A
341	Gas Turbines Holyrood GT	92000260	DESICCANT,4-8 GRADE D	In Stock	2	N/A
342	Gas Turbines Holyrood GT	98200194	DETECTOR,THERMAL	In Stock	2	N/A
343	Gas Turbines Holyrood GT	98200195	DETECTOR,THERMAL	Order Pending	0	TBD
344	Gas Turbines Holyrood GT	98200196	DETECTOR,THERMAL	In Stock	1	N/A
345	Gas Turbines Holyrood GT	98200197	DETECTOR,SMOKE	In Stock	2	N/A
346	Gas Turbines Holyrood GT	98200198	ALARM,TROUBLE	Order Pending	0	TBD
347	Gas Turbines Holyrood GT	98200199	ALARM,PANEL DISCHARGE	Order Pending	0	TBD
348	Gas Turbines Holyrood GT	98200200	DETECTOR,THERMAL	In Stock	4	N/A
349	Gas Turbines		High Energy Ignition Unit, Gas Generator, Prime Mover Systems	In Stock	1	N/A
350	Gas Turbines		Fire Fuel Shutoff Valve (LF-8), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
351	Gas Turbines		Bearing (494047), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
352	Gas Turbines		Bearing (494056), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
353	Gas Turbines		Vibration Transducer, Gas Generator, Prime Mover Systems	In Stock	1	N/A
354	Gas Turbines		Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
355	Gas Turbines		Fuel Filter, Gas Generator, Prime Mover Systems	In Stock	1	N/A
356	Gas Turbines		Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems	In Stock	1	N/A
357	Gas Turbines		Filter (494064), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
358	Gas Turbines		Proximity Switch, Clutch, Prime Mover Systems	In Stock	1	N/A
359	Gas Turbines		Altair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
360	Gas Turbines		Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
361	Gas Turbines		Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
362	Gas Turbines		Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
363	Gas Turbines		Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
364	Gas Turbines		Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	1	N/A
365	Gas Turbines		Valve (181536), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
366	Gas Turbines		Primary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	1	N/A
367	Gas Turbines		Primary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
368	Gas Turbines		Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	1	N/A
369	Gas Turbines		Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	1	N/A
370	Gas Turbines		Ring that the Primary Pawl and spring are installed	In Stock	1	N/A
371	Gas Turbines		Primary Pawl Spring, Clutch, Prime Mover Systems	In Stock	1	N/A
372	Gas Turbines		Primary Pawl, Clutch, Prime Mover Systems	In Stock	1	N/A
373	Gas Turbines		Secondary Pawl, Clutch, Prime Mover Systems	In Stock	1	N/A
374	Gas Turbines		Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	In Stock	1	N/A
375	Gas Turbines		NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
376	Gas Turbines		NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
377	Gas Turbines		Starter Control Valve (CA-17), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
378	Gas Turbines		3-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	1	N/A
379	Gas Turbines		Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
380	Gas Turbines		Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
381	Gas Turbines		Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
382	Gas Turbines		Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
383	Gas Turbines		Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
384	Gas Turbines		Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
385	Gas Turbines		Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
386	Gas Turbines		Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
387	Gas Turbines		Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	1	N/A
388	Gas Turbines		Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
389	Gas Turbines		Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
390	Gas Turbines		Prefilter, Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
391	Gas Turbines		Supplemental Fuel Filter (F-LF-5), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
392	Gas Turbines		High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	1	N/A
393	Gas Turbines		Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
394	Gas Turbines		Unloading Filter, Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	1	N/A
395	Gas Turbines		Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
396	Gas Turbines		Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	1	N/A
397	Gas Turbines		P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
398	Gas Turbines		Common Drain Clutch A Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
399	Gas Turbines		Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	1	N/A
400	Gas Turbines		Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
401	Gas Turbines		Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, SVL GT	In Stock	1	N/A
402	Gas Turbines		Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
403	Gas Turbines		Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
404	Gas Turbines		Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
405	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
406	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
407	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
408	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
409	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
410	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

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
411	Gas Turbines		Oil Drain Exciter Bearing 7 Thermocouple (TC-LO-10), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
412	Gas Turbines		Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	1	N/A
413	Gas Turbines		Oil Supply Thermocouple (TC-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
414	Gas Turbines		Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
415	Gas Turbines		Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In Stock	1	N/A
416	Gas Turbines		Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
417	Gas Turbines		Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
418	Gas Turbines		Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
419	Gas Turbines		Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	1	N/A
420	Gas Turbines		Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	1	N/A
421	Gas Turbines		NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	1	N/A
422	Gas Turbines		Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
423	Gas Turbines		Combustion Chamber, Gas Generator, Prime Mover Systems	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
424	Gas Turbines		Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	1	N/A
425	Gas Turbines		Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems	In Stock	1	N/A
426	Gas Turbines		Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	1	N/A
427	Gas Turbines		Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	1	N/A
428	Gas Turbines		Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	1	N/A
429	Gas Turbines		Bearing (181413 or 181332), Power Turbine Model CT2, Prime Mover Systems	In Stock	1	N/A
430	Gas Turbines		Fuel Pump Servo Valve (SV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
431	Gas Turbines		Low Trip Pressure Switch (PS-LO-7), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
432	Gas Turbines		Start Permissive Pressure Switch (PS-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
433	Gas Turbines		Pressure Switch, Permissive Start - Low Pressure Alarm (PS-LF-2), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
434	Gas Turbines		Pressure Switch, Trip - Low Fuel Pressure (PS-LF-3), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
435	Gas Turbines		Low Oil Pressure Switch (PS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
436	Gas Turbines		Filter Differential Pressure Switch (PSD-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
437	Gas Turbines		Filter Upstream Pressure Switch (PS-GGLO-3), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
438	Gas Turbines		Pre-filter Differential Pressure Switch (PSD-LF-2), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
439	Gas Turbines		AC Pump Discharge Fuel Pressure Switch (PS-LF-4), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	1	N/A
440	Gas Turbines		DC Pump Start Pressure Switch (PS-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
441	Gas Turbines		DC Pump Start Pressure Switch (PS-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
442	Gas Turbines		DC Pump Start Pressure Switch (PS-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	1	N/A
443	Gas Turbines		Low Oil Pressure Switch (PS-GGLO-2), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
444	Gas Turbines		Pressure Switch (PS-HO-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
445	Gas Turbines		Inertial Filter Element, Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	1	N/A
446	Gas Turbines		Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
447	Gas Turbines		Oil to Clutch B Pressure Transducer (PT-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
448	Gas Turbines		Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
449	Gas Turbines		Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	In Stock	1	N/A
450	Gas Turbines		Oil Pump - Complete, Gas Generator, Prime Mover Systems	In Stock	1	N/A
451	Gas Turbines		Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems	In Stock	1	N/A
452	Gas Turbines		Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems	In Stock	1	N/A
453	Gas Turbines		Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems	In Stock	1	N/A
454	Gas Turbines		HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	1	N/A

Critical Spares Status for Gas Turbines

#	Operational Area	Part Number	Description	Stock Status	Quantity on Hand	Expected Delivery Date
455	Gas Turbines		LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	1	N/A
456	Gas Turbines		Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	1	N/A
457	Gas Turbines		Level Switch (LS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
458	Gas Turbines		Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	1	N/A
459	Gas Turbines		Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	1	N/A
460	Gas Turbines		Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	1	N/A
461	Gas Turbines		Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	1	N/A
462	Gas Turbines		Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	1	N/A
463	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	370
On Order	14
Order Pending	76
Capital	3
Grand Total	463

Appendix G

Critical Spares Status Listing – Hydraulic Generation

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

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,GPS	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

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,3	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

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

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

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

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

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

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

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,ROTOI	In Stock	HIGH	N/A
156	Hydraulic Generation		BDE - GOVERNOR SPEED GENERATOR - PIN,ROCKER	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

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,PN	In Stock	MEDIUM	N/A
160	Hydraulic Generation		BDE - GOVERNOR SPEED GENERATOR - PIN,BALLAR	In Stock	HIGH	N/A
161	Hydraulic Generation		BDE - GOVERNOR SPEED GENERATOR - BUSHING,UI	In Stock	MEDIUM	N/A
162	Hydraulic Generation		BDE - GOVERNOR SPEED GENERATOR - BUSHING,UI	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,TAPERE	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 stationary	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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		GCL - Synchronizer	In Stock	MEDIUM	N/A
1180	Hydraulic Generation		HLK - Thrust/Guide Bearing Coolers	In Stock	MEDIUM	N/A

Critical Spares Status for Hydraulic Generation

#	Operational Area	Part Number	Description	Stock Status	Risk Score	Expected Delivery Date
1181	Hydraulic Generation		BDE -7 Slip Ring	In Stock	MEDIUM	N/A
1182	Hydraulic Generation		BDE - ACCUMULATOR TANK Pressure switch	In Stock	MEDIUM	N/A
1183	Hydraulic Generation		HLK - Accumulator tank Solinoid Valve	In Stock	MEDIUM	N/A
1184	Hydraulic Generation		BDE - Unit 7 RECTIFYING TRANSFORMER	On Order	MEDIUM	20-Dec-17
1185	Hydraulic Generation		HLK - Slip ring	On Order	MEDIUM	31-May-18
1186	Hydraulic Generation		HLK - RECTIFYING TRANSFORMER	On Order	HIGH	15-Dec-17
1187	Hydraulic Generation		Cat- Turbine Bearing Cooler	On Order	HIGH	20-Dec-17
1188	Hydraulic Generation		USL- Rotor Rim Drive Keys	On Order	MEDIUM	20-Dec-17
1189	Hydraulic Generation		BDE - NEUTRAL GROUND TRANSFORMER	On Order	Medium	15-Mar-18
1190	Hydraulic Generation		HLK - STATION SERVICE SWITCHGEAR - Breaker (Federal Pioneer)	Order Pending	HIGH	Q3 2018
1191	Hydraulic Generation		CAT - Potential Transformer	Order Pending	Medium	30-Nov-18
1192	Hydraulic Generation		CAT - Lightning Arrestor - Surge Suppresor	Order Pending	Medium	30-Nov-18
1193	Hydraulic Generation		GCL - Potential Transformer	Order Pending	Medium	30-Nov-18
1194	Hydraulic Generation		GCL - Rectifier Transformer	Order Pending	Medium	TBD
1195	Hydraulic Generation		GCL - Media converter	Order Pending	Medium	30-Nov-18
1196	Hydraulic Generation		GCL - CMU	Order Pending	Medium	30-Nov-18

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 - Exciter Field Breaker	Order Pending	Medium	30-Nov-18
1208	Hydraulic Generation		HLK- Turbine Bearing Cooler	Order Pending	Medium	30-Nov-18
1209	Hydraulic Generation		BDE- C/T 50/51	Order Pending	Medium	30-Nov-18
1210	Hydraulic Generation		BDE - Heat Sink Exciter	Order Pending	Medium	30-Nov-19
1211	Hydraulic Generation		BDE Unit 7- Neutral ground resistor	Order Pending	Medium	30-Nov-19
1212	Hydraulic Generation		PRV- Turbine bearing Cooler	Order Pending	Medium	30-Nov-18

Critical Spares Status for Hydraulic Generation

#	Operational Area	Part Number	Description	Stock Status	Risk Score	Expected Delivery Date
1213	Hydraulic Generation		USL- Governor Pump	Order Pending	Medium	30-Nov-18
1214	Hydraulic Generation		Cat- minimal pressure Valve	Order Pending	MEDIUM	30-Apr-18
1215	Hydraulic Generation		HLK - GENERATOR CIRCUIT BREAKER	Capital	Medium	30-Nov-19
1216	Hydraulic Generation		HLK - UPPER GUIDE BEARING COOLER	Capital	MEDIUM	30-Nov-19
1217	Hydraulic Generation		CAT - EXCITATION TRF	Capital	MEDIUM	30-Nov-19
1218	Hydraulic Generation		HLK - STN SERVICE TRANSFORMER (SST-1)	Capital	HIGH	30-Nov-19
1219	Hydraulic Generation		HLK - SURFACE AIR COOLERS	Capital	HIGH	30-Nov-19
1220	Hydraulic Generation		HLK - Circuit Breaker	Capital	MEDIUM	30-Nov-19
1221	Hydraulic Generation		HLK - Wicket Gate Bushings	Capital	MEDIUM	30-Nov-19

Summary of Gas Turbine Critical Spares:

In Stock 1183

On Order 6

Order Pending 25

Capital 7

Grand Total 1221