

November 13, 2018

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

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

Dear Ms. Blundon:

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

Further to the Board's correspondence of October 13, 2016, please find enclosed one original plus twelve copies of Hydro's October update to its 2018-2019 Winter Readiness Planning Report.

Should you have any questions, please contact the undersigned.

Yours truly,

**NEWFOUNDLAND AND LABRADOR HYDRO**



Michael S. Ladha  
Legal Counsel & Assistant Corporate Secretary  
MSL/sk

cc: Gerard Hayes – Newfoundland Power  
Paul Coxworthy – Stewart McKelvey

ecc: Denis Fleming – Cox & Palmer  
Roberta Frampton Benefiel – Grand Riverkeeper® Labrador  
Larry Bartlett – Teck Resources Ltd.

Dennis Browne, Q.C. – Browne Fitzgerald Morgan & Avis  
Danny Dumaresque  
Dean Porter – Poole Althouse





# 2018-2019 Winter Readiness Planning

November 13, 2018

*A Report to the Board of Commissioners of Public Utilities*





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1 **1.0 Background and Introduction**

2 The Board of Commissioners of Public Utilities (“Board”), in a letter dated October 13, 2016,  
3 directed Newfoundland and Labrador Hydro (“Hydro”) to provide an annual report detailing  
4 its winter readiness (“WR”) planning. This report, for the 2018-2019 winter season, addresses  
5 the following items as requested by the Board:

- 6 • The status of Annual Work Plan (“AWP”) items, in the format previously provided to  
7 the Board, for Hydro’s generating plants, and transmission and terminal stations,  
8 including the completion date; outstanding items to complete; any risks to completion;  
9 and risks associated with failure to complete items.
- 10 • A description and schedule for all outstanding 2018 capital projects for Hydro’s  
11 generating plants, and transmission and terminal stations, including progress on  
12 completion status to date and expected completion date.
- 13 • The identification of all equipment and plant testing to be carried out in advance of the  
14 winter period (generation plants, emergency diesels, black start generators, fire  
15 systems, and transmission system equipment), including progress on completion  
16 status to date.
- 17 • The planned generation outage schedule for the period of September 1, 2018 to  
18 December 31, 2018, including an explanation for any planned outages extending  
19 beyond December 1, 2018.
- 20 • An update of critical spares assessment and procurement.
- 21 • The forecast loads and expected generation capacity and reserves (setting out the  
22 basis for calculation) for the upcoming winter, as of December 1, 2018, including  
23 capacity assistance agreements in place or planned.
- 24 • An identification of any risks that could impact the WR of assets as of December 1,  
25 2018, and associated contingency plans.

26  
27 Information presented in this report covers both the Island Interconnected System (“IIS”) and  
28 the Labrador Interconnected System (“LIS”). All data in this report is as of October 31, 2018.

1    **2.0   Annual Work Plan Status**

2    Hydro’s AWP integrates all planned activities for the year (i.e., corrective maintenance,  
3    preventive maintenance, and capital project support) that are critical to safe and reliable  
4    service. Hydro regularly measures the progress of its AWP execution in comparison with plan  
5    and is able to track the AWP status down to the level of individual work plan items. The  
6    individual AWP’s are incorporated into an integrated AWP.

7  
8    This report produces a consolidated summary of operation and maintenance progress, both  
9    for the entire AWP (i.e., first chart in each set) and the WR tasks (i.e., second chart in each  
10   set), as of October 31, 2018 for each of the following areas of operations:

- 11       • Holyrood Thermal Generating Station:
  - 12           ○ Units 1, 2, and 3; and
  - 13           ○ Balance of Plant, including black start diesels.
- 14       • Gas Turbines:
  - 15           ○ Holyrood;
  - 16           ○ Hardwoods;
  - 17           ○ Stephenville; and
  - 18           ○ Happy Valley.
- 19       • Hydraulic Generation:
  - 20           ○ Bay d’Espoir;
  - 21           ○ Cat Arm;
  - 22           ○ Hinds Lake;
  - 23           ○ Paradise River;
  - 24           ○ Upper Salmon; and
  - 25           ○ Granite Canal.
- 26       • Transmission and Rural Operations for the IIS and LIS:
  - 27           ○ Transmission; and
  - 28           ○ Terminal Stations.

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

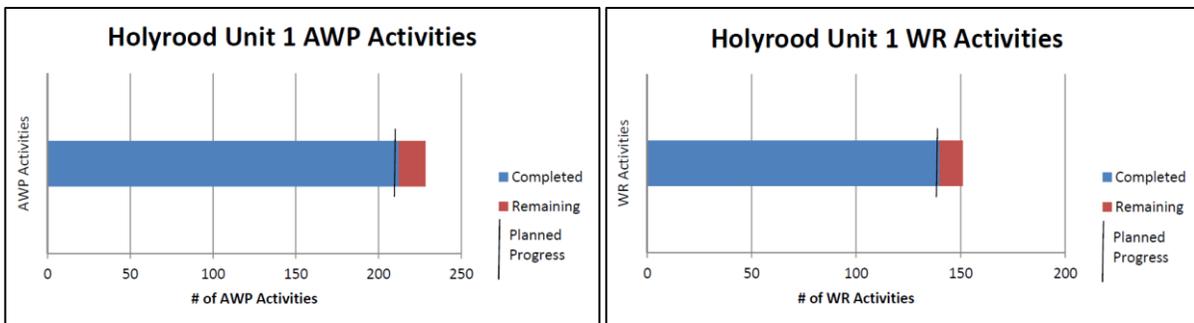
3

4 Found below each WR chart is Hydro’s forecasted completion status as of October 31, 2018 in  
 5 relation to AWP and WR activities (i.e., Green: On Target, Yellow: Caution – Recovery  
 6 Required, Red: Target will not be Fully Met). Relevant highlights are also provided.

7

8 **2.1 AWP and WR Status: Thermal Generation**

9 The status of AWP and WR execution at Holyrood Thermal Generating Station is summarized  
 10 in the charts below. As noted, all planned 2018 WR work is expected to be complete by  
 11 December 1, 2018.

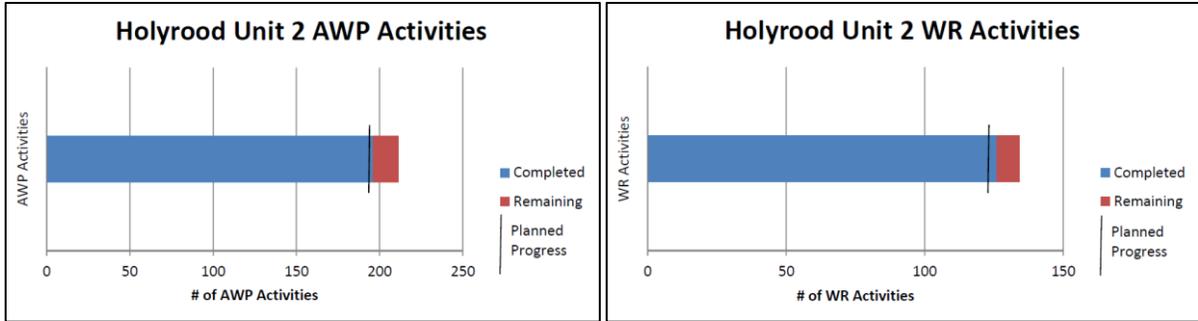


**Holyrood Unit 1:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Unit 1 overall AWP completion status is 93% to date.
- Unit 1 planned WR completion status is 93% to date.
- Unit 1 Annual Maintenance Outage was completed on October 19, 2018.
- All WR activities pertaining to Unit 1 are on schedule for completion by December 1, 2018.

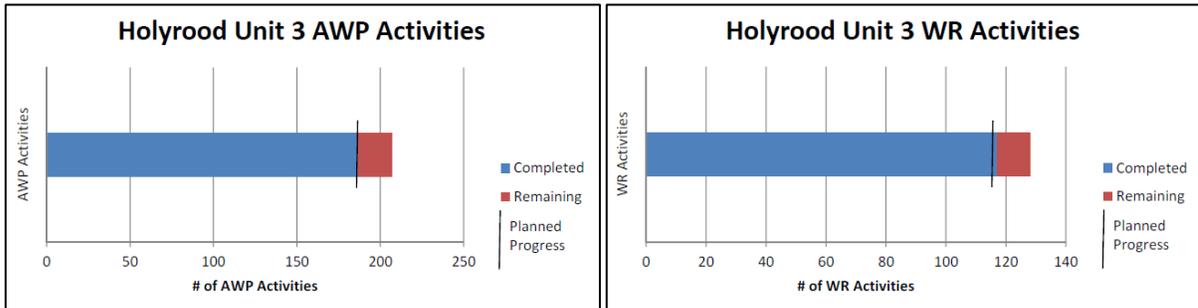


**Holyrood Unit 2:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Unit 2 overall AWP completion status is 93% to date.
- Unit 2 planned WR completion status is 94% to date.
- Unit 2 Annual Maintenance Outage was completed on September 14, 2018.
- All WR activities pertaining to Unit 2 are on schedule for completion by December 1, 2018.

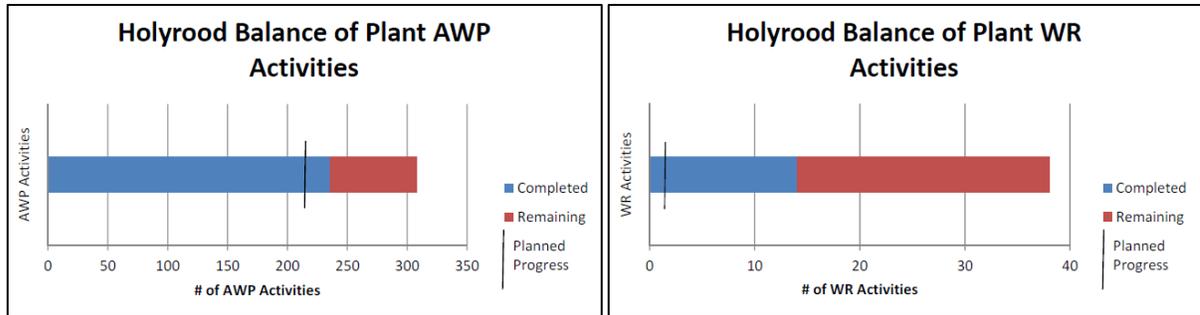


**Holyrood Unit 3:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Unit 3 overall AWP completion status is 90% to date.
- Unit 3 planned WR completion status is 91% to date.
- Unit 3 Annual Maintenance Outage was completed on June 29, 2018.
- Unit 3 fall outage to replace air heater baskets and travelling screens, and to switch from Synchronous Condenser mode to Generate mode, is in progress.
- All WR activities pertaining to Unit 3 are on schedule for completion by December 1, 2018.



**Holyrood – Balance of Plant:**

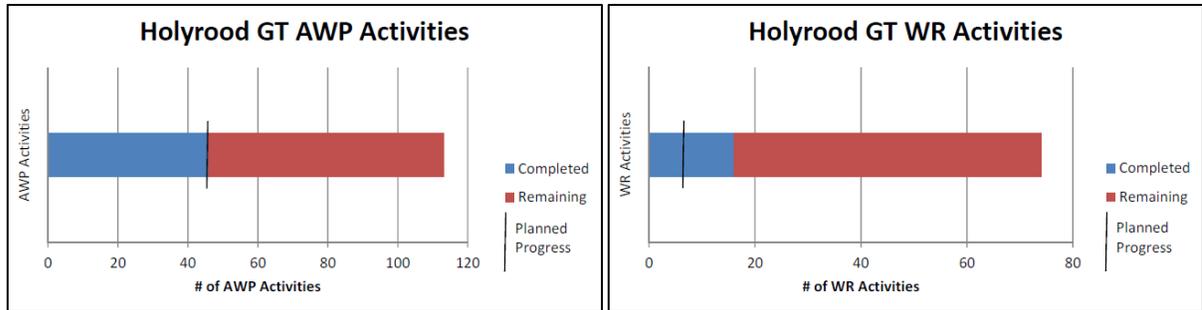
**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Holyrood balance of plant overall AWP completion status is 77% to date.
- Holyrood balance of plant planned WR completion status is 37% to date.
- Remaining balance of plant planned WR work scheduled through October 2018 and early November 2018 and on track for successful completion by December 1, 2018.

1 **2.2 AWP and WR Status: Gas Turbine Generation**

2 The current status of the AWP and WR execution at the Holyrood, Hardwoods, Stephenville,  
 3 and Happy Valley gas turbines is summarized in the following charts. Planned WR work for  
 4 both the Holyrood and Happy Valley gas turbines is on target for completion by December 1,  
 5 2018. Recovery plans for Hardwoods and Stephenville gas turbines, necessary due to timing  
 6 changes in maintenance outages caused by system requirements, have been effective in  
 7 ensuring WR tasks are back on target.



**Holyrood Gas Turbine:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Holyrood Gas Turbine overall AWP completion status is 41% to date.
- Holyrood Gas Turbine planned WR completion status is 22% to date.
- Work schedules are in place to ensure all WR activities will be completed by December 1, 2018

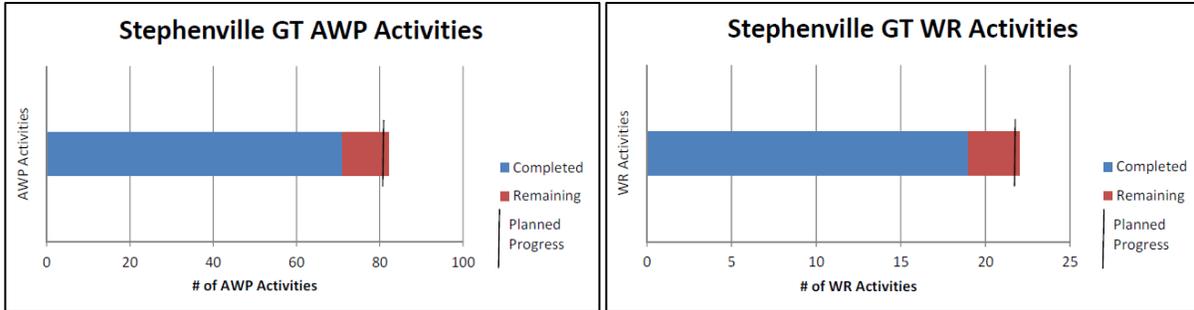


**Hardwoods Gas Turbine:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Hardwoods Gas Turbine overall AWP completion status is 97% to date.
- Hardwoods Gas Turbine planned WR completion status is 95% to date.
- The planned WR completion is slightly behind schedule with the remaining item planned to be completed prior to December 1, 2018.

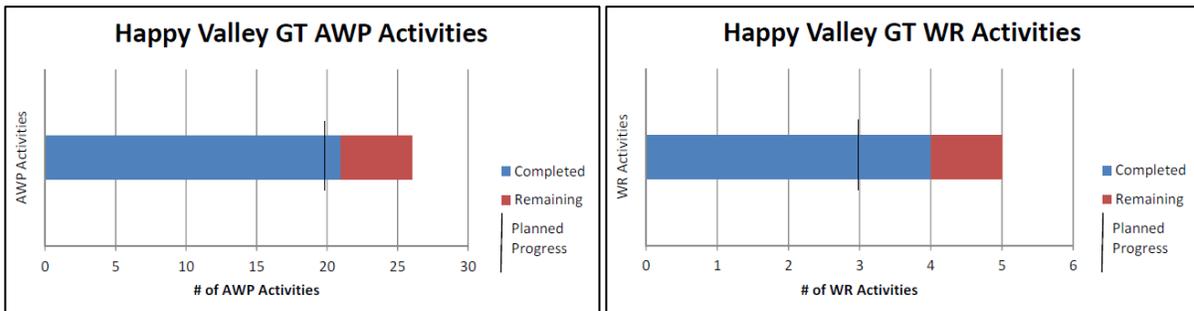


**Stephenville Gas Turbine:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Stephenville Gas Turbine overall AWP completion status is 87% to date.
- Stephenville Gas Turbine planned WR completion status is 86% to date.
- The planned WR completion is slightly behind schedule with the remaining three items planned to be completed prior to December 1, 2018.



**Happy Valley Gas Turbine:**

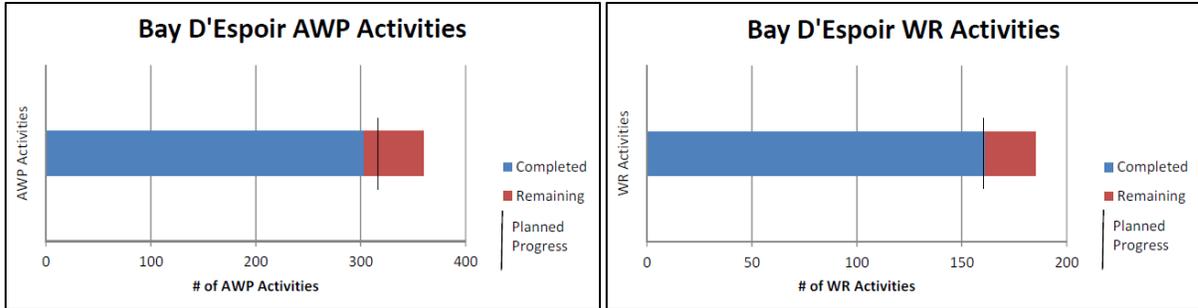
**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Happy Valley Gas Turbine overall AWP completion status is 81% to date.
- Happy Valley Gas Turbine planned WR completion status is 80% to date.
- All WR activities are on schedule for completion by December 1, 2018.

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

- 2 The current status of AWP and WR execution at Bay d’Espoir and other hydraulic generation
- 3 facilities is summarized in the following charts. As noted, it is expected that all planned 2018
- 4 WR activities will be completed by December 1, 2018.

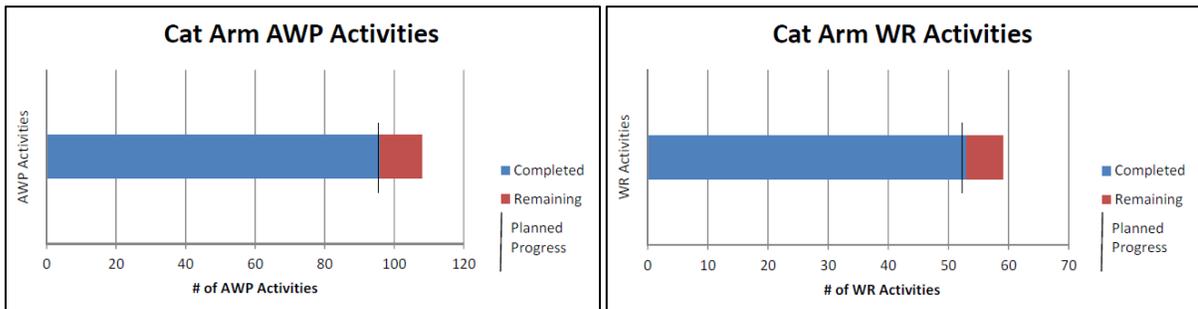


**Bay d’Espoir Hydraulic Units:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Bay d’Espoir overall AWP completion status is 84% to date.
- Bay d’Espoir planned WR completion status is 87% to date.
- All annual outages complete for Units 1 to 7.
- All WR activities are on schedule for completion by December 1, 2018.

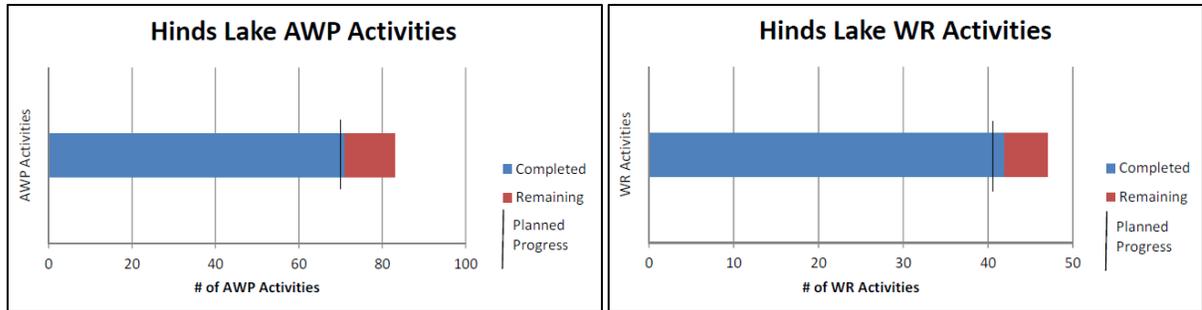


**Cat Arm Hydraulic Units:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Cat Arm overall AWP completion status is 89% to date.
- Cat Arm planned WR completion status is 90% to date.
- Both annual unit outages are complete.
- All WR activities are on schedule for completion by December 1, 2018.

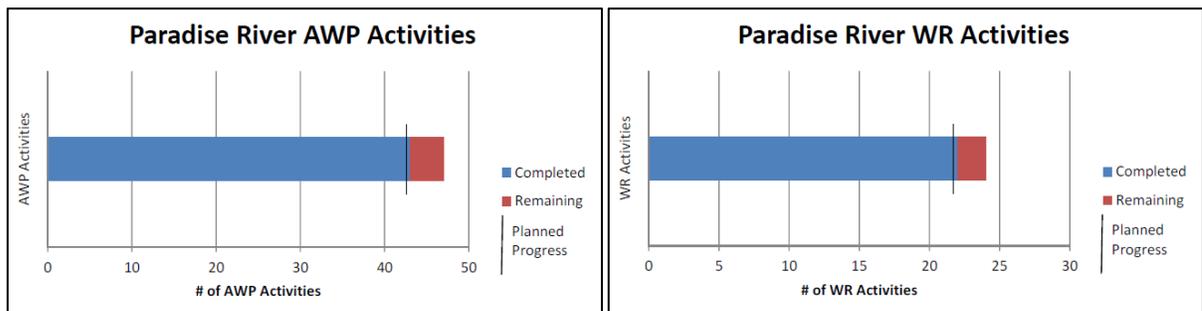


**Hinds Lake Hydraulic Unit:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Hinds Lake overall AWP completion status is 86% to date.
- Hinds Lake planned WR completion status is 89% to date.
- Annual unit outage complete.
- All WR activities are on schedule for completion by December 1, 2018.

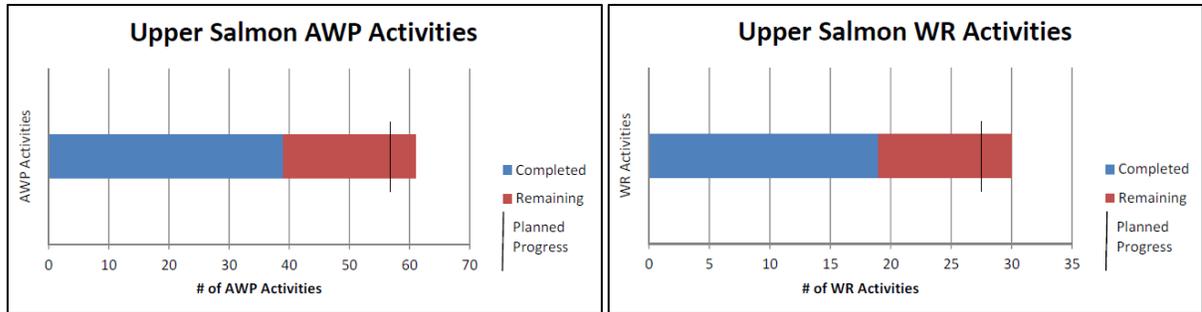


**Paradise River Hydraulic Unit:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Paradise River overall AWP completion status is 92% to date.
- Paradise River planned WR completion status is 92% to date.
- Annual unit outage complete.
- All WR activities are on schedule for completion by December 1, 2018.

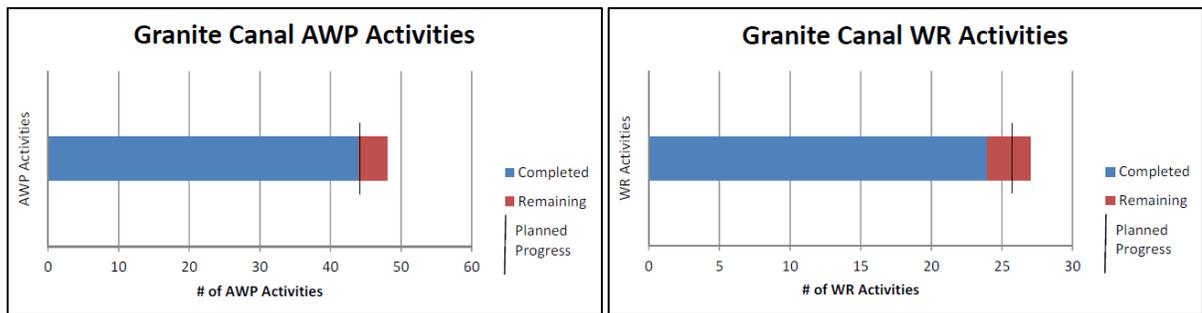


**Upper Salmon Hydraulic Unit:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Upper Salmon overall AWP completion status is 64% to date.
- Upper Salmon planned WR completion status is 63% to date.
- Discrepancy in AWP and WR numbers due to unit outage timing. The outage was moved to later in the year and is now scheduled to be complete November 7, 2018.
- All WR activities are on schedule for completion by December 1, 2018.



**Granite Canal Hydraulic Units:**

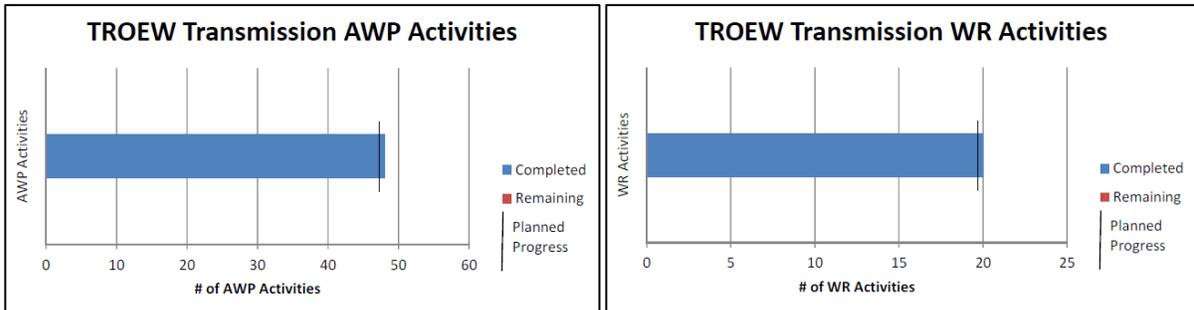
**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Granite Canal overall AWP completion status is 92% to date.
- Granite Canal planned WR completion status is 89% to date.
- Annual unit outage complete
- All WR activities are on schedule for completion by December 1, 2018.

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 both the IIS and the LIS are summarized in the following charts. As noted, it is  
 4 expected that all planned 2018 WR activities will be completed by December 1, 2018.

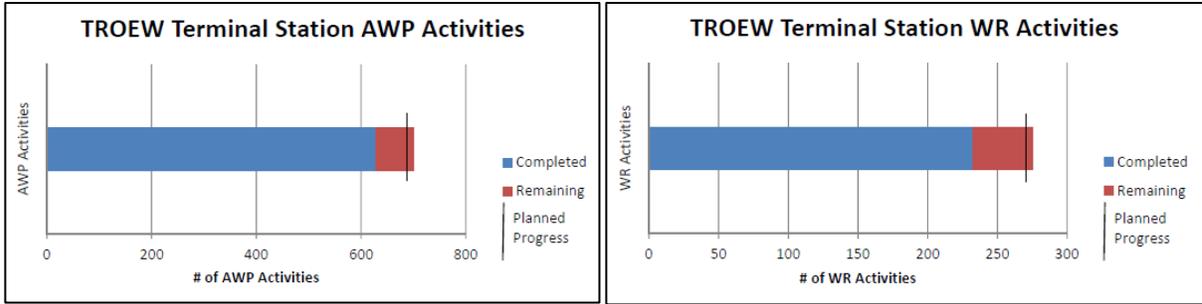


**Transmission and Rural Operations (East and West) – Transmission:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Transmission and Rural Operations – East and West (“TROEW”) Transmission: overall AWP completion status is 100%.
- TROEW Transmission: planned WR completion status is 100%.
- All WR activities are on schedule for completion by December 1, 2018.

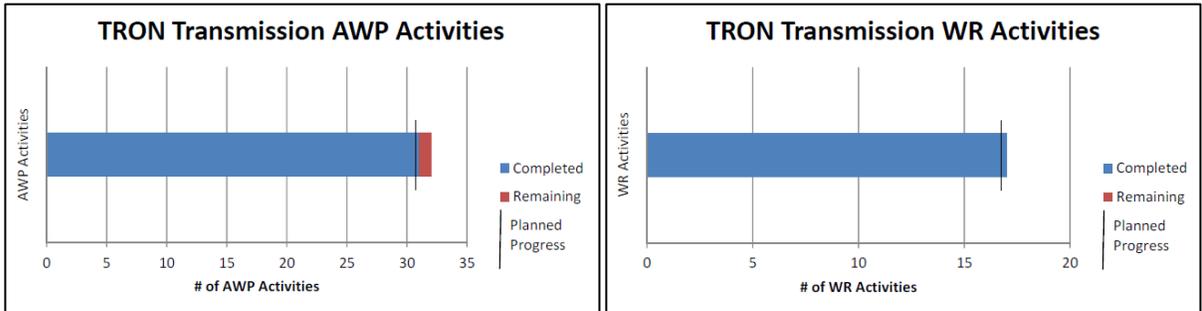


**Transmission and Rural Operations (East and West) – Terminal Stations:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- TROEW Terminal Stations: overall AWP completion status is 90% to date.
- TROEW Terminal Stations: planned WR completion status is 84% to date.
- Although behind schedule, all WR activities are scheduled for completion by December 1, 2018.

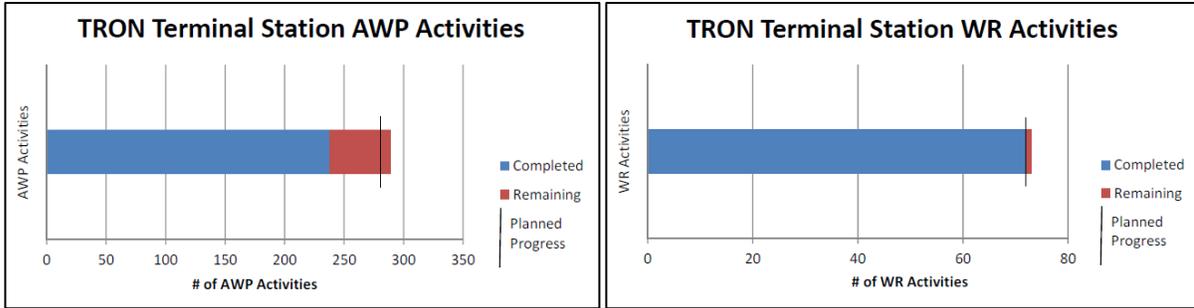


**Transmission and Rural Operations (Northern) – Transmission:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Transmission and Rural Operations – Northern (“TRON”) Transmission: overall AWP completion status is 97% to date.
- TRON Transmission: planned WR completion status is 100%.

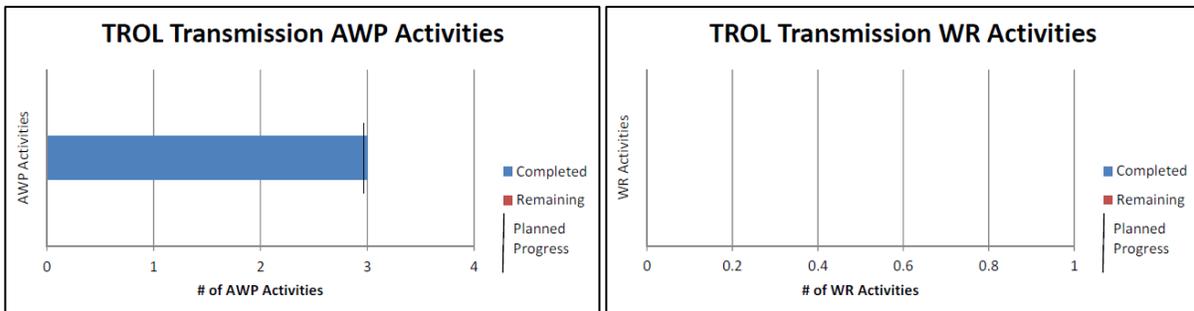


**Transmission and Rural Operations (Northern) – Terminal Stations:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- TRON Terminal Stations: overall AWP completion status is 82% to date.
- TRON Terminal Stations: planned WR completion status is 99% to date.
- Last remaining WR item scheduled for completion by mid-November, 2018.

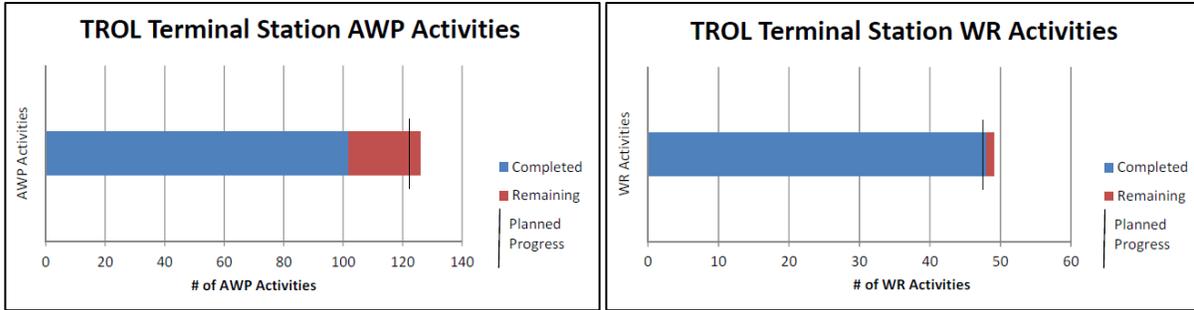


**Transmission and Rural Operations (Labrador) – Transmission:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- Transmission and Rural Operations – Labrador (“TROL”) Transmission: overall AWP completion status is 100%.
- There are no operational WR items for TROL for 2018. All WR items are covered through the Wood Pole Line Management Program.



**Transmission and Rural Operations (Labrador) – Terminal Stations:**

**Forecast Completion Status:** On Target

**Comments and Schedule Notables:**

- TROL Terminal Stations: overall AWP completion status is 81% to date.
- TROL Terminal Stations: planned WR completion status is 98% to date.
- All WR activities are on schedule for completion by December 1, 2018.

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

2 Appendix A of this report identifies the 2018 capital projects that include scope related to  
 3 2018-2019 WR for the IIS and the LIS, and indicates status of each. Table 1 summarizes the  
 4 status of the WR scope of these projects by asset category.

**Table 1: Winter Readiness Scope in 2018 Capital Projects**

Asset Category	Complete as of Oct 31 2018	Incomplete, Expected Completion by Dec 1 2018	Incomplete, Expected Completion after Dec 1, 2018	Total
Hydraulic Generation	6	1	1	8
Thermal Generation	5	1	1	7
Gas Turbine Generation	1	2	0	3
Diesel Generation	1	0	0	1
Terminal Stations	3	5	0	8
Transmission	5	0	0	5
Other	1	2	0	3
<b>Total</b>	<b>22</b>	<b>11</b>	<b>2</b>	<b>35</b>

1 Of the 35 capital projects with WR scope, two projects have a portion of scope that is not  
2 expected to be complete by the WR target date of December 1, 2018. Appendix A highlights  
3 these two projects, describes the scope that is expected to be incomplete (five capital spares  
4 purchases – three for Hydraulic Generation and two for Thermal Generation), and details risk  
5 mitigation activities that Hydro will implement until the spares are received. Hydro continues  
6 to closely coordinate its overall work plan and manage associated risks for the 2018-2019  
7 winter season.

8

#### 9 **4.0 Plant and Equipment Testing**

10 To ensure WR, Hydro follows a structured checklist for planning and documenting its testing  
11 and inspection of plant and equipment in its thermal and hydroelectric 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 WR testing and inspection of these assets. The AWP in these  
15 areas include planned preventive maintenance (“PM”) activities and corrective maintenance  
16 (“CM”) items; both of which involve inspection and testing. Planned PMs and CMs and any  
17 other activities pertaining to WR are flagged inside the respective AWP and may, therefore,  
18 be tracked separately from other AWP items that are not WR related.

19

#### 20 **4.1 Thermal Generation**

21 WR testing of generating equipment in Thermal Generation is focused primarily around  
22 annual unit maintenance outages. Following these annual outages, units are run up and  
23 synchronized and all systems are verified before the unit’s operating status is determined and  
24 preparedness is confirmed. Unit load tests are also performed at this time. It can take a period  
25 of time for system conditions to allow for all required load testing. The WR testing protocol  
26 includes the testing of appropriate Balance of Plant components, including the black start  
27 diesels, thus confirming their ability to black start the Holyrood Thermal Generating Station.

1 The current status of equipment/plant testing for Thermal Generation is provided in Appendix  
2 B of this report. Consistent with the generation outage schedule shown in Appendix D, it is  
3 expected that all WR testing will be completed by December 1, 2018. As of October 31, 2018,  
4 Unit 3 had not returned to generation and as such, testing is partially completed. Unit 2 has  
5 been returned to service and returned to full capacity. Unit 1 has been returned to service,  
6 but is awaiting safety valve testing. Unit 1 has been tested up to 140 MW, and furnace  
7 pressures observed during operation thus far indicate the unit will operate at or close to full  
8 capacity once safety valve testing is completed. This will be confirmed through a full load test  
9 when system conditions allow (i.e., when system load is high enough).

#### 11 **4.2 Gas Turbine Generation**

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

- 15 • PMs and CMs for major components and auxiliary systems;
- 16 • Black start testing;
- 17 • Monthly operational testing; and
- 18 • Execution of capital upgrades and refurbishment.

19  
20 AWP charts, which include WR activities, are shown in Section 2.2. Black start testing is  
21 planned to be completed on all gas turbine units during the month of November 2018. It is  
22 expected that all work related to WR testing will be completed by December 1, 2018.

#### 24 **4.3 Hydraulic Generation**

25 WR testing of generating equipment in Hydraulic Generation is focused primarily around  
26 annual unit maintenance outages. Following these annual outages, units are run up and  
27 synchronized and all systems are verified before the unit's operating status is determined and  
28 preparedness is confirmed. Unit load tests are also performed at this time. The WR testing  
29 protocol includes the testing of appropriate Balance of Plant components.

1 The current status of equipment/plant testing for Hydraulic Generation is provided in  
2 Appendix C of this report. Testing is completed for all hydraulic generation facilities with the  
3 exception of Upper Salmon, which is in progress and expected to be completed by November  
4 7, 2018, and some remaining balance of plant items. All items within the checklist are to be  
5 completed by December 1, 2018.

#### 6 7 **4.4 Transmission and Terminal Stations**

##### 8 **4.4.1 Transmission**

9 The summary of the maintenance, refurbishment, and replacement criteria Hydro uses for its  
10 transmission lines was included in the “Transmission and Terminal Station Asset Management  
11 Execution Report,” submitted to the Board on April 11, 2018. It includes criteria for Wood Pole  
12 and Steel Structure Line Management Programs, helicopter patrols, ground patrols, infrared  
13 inspections, wood pole treatment, and right-of-way maintenance.

##### 14 15 **4.4.2 Terminal Stations**

16 The maintenance, refurbishment, and replacement criteria used by Hydro for Terminal Station  
17 assets, entitled “Terminal Station Asset Management Overview,” was included in the  
18 “Terminal Station Refurbishment and Modernization” project in Hydro’s *2019 Capital Budget*  
19 *Application*, submitted to the Board on July 31, 2018.

##### 20 21 **4.4.3 Transmission and Terminal Station Testing**

22 The AWP for both Transmission and Terminal Stations are predominantly comprised of PMs  
23 and CMs, which inherently involve inspection and testing. Examples of WR activities that are  
24 included in the AWP work scopes include the following:

- 25 • Transformer PMs and CMs;
- 26 • Annual exercises on all high voltage circuit breakers;
- 27 • Exercise of 230 kV circuit breakers from protection during PM inspections;
- 28 • Infrared scans at all terminal stations;
- 29 • Annual ultrasonic leak testing on all terminal station air systems; and

- Annual helicopter patrol of transmission lines prior to the winter season.

WR charts are shown in Section 2.4, and it is expected that all activities will be completed by December 1, 2018.

## **5.0 Generation Outage Schedule**

Hydro's 2018 Master Generation Outage Schedule for the period September 1, 2018 to December 31, 2018 is attached to this report as Appendix D. This schedule currently does not contemplate any planned generation outages for Hydro assets beyond November 18, 2018, and it is, therefore, expected that all generation assets will be fully available as of December 1, 2018.

## **6.0 Critical Spares**

### **6.1 Overview**

In 2014, Hydro completed extensive reviews of its critical spares requirements in all three areas of its generation operations: hydraulic generation; thermal generation (Holyrood); and the gas turbines in Hardwoods and Stephenville. These reviews included a detailed analysis of asset criticality and spare parts in reference to several factors, including impact on generation reliability and replacement part availability.

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

Included in this report is a full update on the status of Hydro's critical spares, as of October 31, 2018, for the 2018-2019 winter season. This update includes a detailed listing of critical spares

1 requirements for each area of generation operations and the “in stock” or “on order” status of  
2 each item.

3

## 4 **6.2 2018-2019 Winter Season**

5 Hydro’s critical spares status leading into the 2018-2019 winter season is strong. For thermal  
6 generation, gas turbines, and hydro generation a total of 2,481 critical spares have been  
7 identified by Hydro’s three generation operations areas. Listings of these items can be found  
8 in Appendices E, F, and G, respectively. Of this total, 2,403 items are in stock (96.9%), 19 items  
9 are on order (0.8%) and the remaining 59 items (2.4%) are in various stages of the  
10 procurement process (i.e., engineering specification preparation to determine proper  
11 replacement parts for items that can no longer be readily purchased or purchase orders  
12 drafted to enable item ordering).

13

### 14 **6.2.1 Thermal Generation**

15 There are eight critical spare stock items currently not in stock. None of these are considered  
16 to be a risk to the system at this time. All items have been ordered and are expected to be on  
17 site prior to December 1, 2018. The critical spares list for thermal generation is summarized in  
18 Table 2 and provided in detail in Appendix E.

**Table 2: Critical Spares – Thermal Generation**

	<b>Total</b>
Total identified critical spare items	<b>758</b>
Number of critical spare items in stock	<b>750</b>
Number of items on order	<b>8</b>
Number of items not yet on order	<b>0</b>

### 19 **6.2.2 Gas Turbines**

20 The spares list for the Hardwoods and Stephenville gas turbines is detailed in Appendix F and  
21 contains the critical spares identified for these units. This list contains 115 items and all items  
22 are currently in stock.

1 The spares list for the Holyrood Gas Turbine is also detailed in Appendix F and includes both  
 2 operational and critical spares for this unit. This list contains 410 critical and operational spare  
 3 items. Greater than 84%, or 346, of these spares are in stock. Of the remainder, five are on  
 4 order and 59 are in the procurement process to acquire these items. One item was received in  
 5 October 2018, and is highlighted yellow in Appendix F.

6  
 7 Of the five items on order, two are capital spares, which are expected to be on-site in  
 8 November, and the remaining three are expected to be on-site before December 1, 2018.

9  
 10 Items which are not yet ordered require further engineering and original equipment  
 11 manufacturer input due to changes in the technical specifications or changes in part numbers  
 12 related to these components. These items are being ordered as the specification and  
 13 appropriate part numbers for these parts are determined. These items pose a very low risk to  
 14 operation if not on-site by December 1, 2018.

15  
 16 Sixty-five additional spare parts have been identified through ongoing evaluation of spare  
 17 parts requirements, the majority of which are now in stock.

18  
 19 Table 3 summarizes the status of spare parts for the Hardwoods (“HWD”), Stephenville  
 20 (“SVL”) and Holyrood (“HRD”) gas turbines.

**Table 3: Critical Spares – Gas Turbine Generation**

	HWD/SVL	HRD	Total
Total Identified spare items	115	410	<b>525</b>
Number of items in stock	115	346	<b>461 (87.8%)</b>
Number of items on order	0	5	<b>5 (1.0%)</b>
Number of items not yet on order	0	59	<b>59 (11.2%)</b>

### 21 **6.2.3 Hydraulic Generation**

22 The majority of the required items are in stock. Three items on order are capital spares, and  
 23 are noted in Section 3.0 and Appendix A. These items will be delivered by Q1, 2019. The  
 24 remaining three items on order are the Hinds Lake coolers for the turbine bearing, upper

1 guide bearing, and surface air coolers. These items are expected to be delivered by December  
 2 15, 2018. These coolers are original to the unit and while there have been no issues in recent  
 3 history, spares have been ordered as the coolers are nearing end of life. These items pose a  
 4 very low risk to operation if not in hand by December 1, 2018. Table 4 summarizes the status  
 5 of spare parts for Hydraulic Generation.

**Table 4: Critical Spares – Hydraulic Generation**

	<b>Total</b>
Total identified critical spare items	<b>1198</b>
Number of critical spare items in stock	<b>1192</b>
Number of items on order	<b>6</b>
Number of items not yet on order	<b>0</b>

## 6 **7.0 Forecasted Loads, Capacity and Reserves**

7 In Hydro's submission filed in response to the Phase I report by Liberty Consulting on February  
 8 5, 2015, Hydro committed to provide the Board with a generation adequacy update as of  
 9 August in each year leading up to interconnection and that this update would include the  
 10 following:

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

16

17 At the request of the Board, Hydro filed the Near-Term Generation Adequacy Report on May  
 18 22, 2018.<sup>1</sup> The generation adequacy report included:

- 19 • The P90 load forecast through winter 2021-2022; one year beyond the anticipated  
 20 Muskrat Falls completion date;
- 21 • An assessment and quantification of forecast peak uncertainty;
- 22 • Sensitivity demand forecasts to ensure a robust assessment of risk;

<sup>1</sup> A revision to this report was filed with the Board on May 30, 2018.

- 1 • A critical assessment of Hydro's thermal generating assets and their relative
- 2 importance to the Island Interconnected System, by evaluating a range of unit
- 3 availabilities, and the resultant expected unserved energy; and,
- 4 • Information regarding the anticipated availability of the Labrador-Island Link (“LIL”)
- 5 and its importance to supply adequacy in advance of the availability of generation
- 6 from the Muskrat Falls Generating Station.

7

8 Since the filing of the Near-Term Generation Adequacy Report, Hydro has provided the Board

9 with additional information regarding the in-service of the LIL, now anticipated to be available

10 at 110 MW for winter 2018-2019.

11

12 Table 5 indicates the IIS reserves in MW and percentage terms resulting from Hydro’s demand

13 forecasts for the 2018-2019 winter season, consistent with Hydro’s “Near-Term Generation

14 Adequacy Report,” May 2018 and the most current information regarding the availability of

15 the LIL.

**Table 5: Forecasts of Peak Load, Capacity, and Reserve Margins**

**Winter 2018-2019 Conservative Supply Case**

A: IIS Forecast Peak Demand – P90	1,789
B: Capacity at Peak	2,101
C: Plus Available Capacity Assistance (100 MW)	2,201
Reserve Margin MW for P90 (C-A)	412
Reserve Margin (%)	23

16 The capacity at peak of 2,101 MW indicated in Table 5 includes Holyrood maximum unit

17 ratings of 170 MW for Units 1 and 2 and a rating of 150 MW for Unit 3, and the forecast

18 availability of the LIL at 110 MW.

19

20 Hydro’s reserve forecasts assume a total of 100 MW of capacity assistance is available through

21 the 2018-2019 winter season, if needed, under the capacity assistance agreements Hydro has

22 in place with Corner Brook Pulp and Paper Limited and Newfoundland Power’s curtailable

23 load.

1 As communicated to the Board in its report titled “Labrador-Island Link In-Service Update,”  
2 filed October 1, 2018, Hydro has developed a two-phased contingency plan for the coming  
3 winter that includes incremental internal and external system support. Hydro continues to  
4 advance this contingency plan and will update the Board on the status of each specific item in  
5 the plan as part of the biweekly report on Hydro's supply adequacy for winter 2018-2019.

## 7 **8.0 Risks and Risk Mitigation**

8 Hydro’s readiness planning for the 2018-2019 winter season is on track and positions the  
9 company to be ready in terms of generation and transmission availability by December 1,  
10 2018. Risks for thermal generation and hydraulic generation were mitigated in 2018, as  
11 described in the following sections.

### 13 **8.1 Thermal Generation**

14 In 2018, Hydro worked to eliminate the deratings of the three Holyrood units that were  
15 caused by air flow issues. The economizers on Unit 1 and Unit 2 were chemically washed, a  
16 new process for 2018, to remove the ash debris that was not removed by the dry ice cleaning  
17 performed in 2017. As well, the top level air heater baskets were replaced in both units to  
18 remove ash fouling that was identified late in 2017. For Unit 3, the top level baskets were  
19 replaced and the air heaters were upgraded to reduce air leakage. Hydro expects that all three  
20 units will be capable of achieving full or close to full load when returned to service. To date,  
21 Unit 2 has been tested to full load. Unit 1 has been tested to 140 MW, but not yet loaded  
22 beyond 140 MW while awaiting mandatory and routine safety valve testing. Based on  
23 observed boiler performance at 140 MW, Unit 1 is expected to return to full or close to full  
24 load once the safety valve testing is complete, similar to Unit 2. Unit 3 is scheduled to return  
25 to service on November 3, 2018, also requiring subsequent safety valve testing. Final load  
26 testing will be completed on Unit 1 and Unit 3 as soon as system conditions permit to verify  
27 the capability of the units.

1    **8.2    Hydraulic Generation**

2    In 2018, Hydro conducted condition assessments on Bay d’Espoir Penstocks 1, 2, and 3, as well  
3    as a refurbishment of Bay d’Espoir Penstock 3 after inspection in the spring. Penstocks 1 and 2  
4    were returned to service after a thorough condition assessment, and all three penstocks are in  
5    good condition for the coming 2018-2019 winter. Hydro is working with its consultant on a  
6    detailed report that will interpret the results of the three penstock Level II condition  
7    assessments and provide recommendations for reliable operation of each penstock. Based on  
8    the findings of the inspection, Hydro and the consultant expect the penstocks to perform  
9    reliably this winter.

10

11   **8.3    Reservoir Levels**

12    During September 2018, as part of Hydro’s water management process, the Vista Decision  
13    Support System recommended the need for additional energy production to supplement  
14    hydraulic production given low reservoir levels. As Water Management continued its analysis,  
15    an increased number of historic sequences showed the need for additional energy production  
16    to mitigate low system storage. In October 2018, to be proactive and to reduce overall system  
17    costs throughout winter 2018-2019, energy was imported over the Maritime Link at  
18    opportunities identified to be economic. This reduced generation requirements from the  
19    Holyrood Thermal Generating Station. Significant rainfall events over all reservoir basins  
20    occurred in late October 2018 that increased the system energy in storage to 1,672 GWh at  
21    the end of October 2018, from a system storage level of 1,241 GWh on October 16, 2018; a  
22    net increase in energy in storage of 431 GWh. At the end of October 2018, system energy in  
23    storage was 53% above the minimum storage target of 1,095 GWh. Given current reservoir  
24    levels, energy in storage does not currently pose a risk to supply for the winter of 2018-2019.  
25    Hydro continues to monitor energy levels in its reservoirs, inflows in comparison to historic  
26    dry periods, and results from Vista Decision Support System modelling to ensure there is  
27    enough energy available for customers, and will adjust its production dispatch in response.

1 **9.0 Conclusion**

2 The results of Hydro's review of the year-to-date completion status of its AWP for the IIS and  
3 LIS assets indicate that its WR milestone will be achieved by December 1, 2018, with the  
4 noted exception of the acquisition of five capital spares. Hydro will continue to track all  
5 required WR activities, manage identified risks, and keep the Board informed on any current  
6 and additional risks that may arise and impact the WR date. Hydro is confident in its ability to  
7 reliably serve customers in the 2018-2019 winter season.

## **Appendix A**

Status of Capital Projects Related to Winter Readiness



Status of Winter Readiness Scope in 2018 Capital Projects on the Island and Labrador Interconnected Systems			
Asset Category	Project Title	Expected Completion of 2018 Winter Readiness Scope: (Sep 30 2018 Update)	Expected Completion of 2018 Winter Readiness Scope: (Oct 31 2018 Update)
Hydraulic Generation	Cat Arm - Upgrade Spherical Valve Controls and Replace Deflector Servomotors	Complete	Complete
Hydraulic Generation	Hydraulic Generation - Purchase Capital Spares	Complete	Complete
Hydraulic Generation	Bay d'Espoir Units 1 and 2 - Spherical Valve Bypass Valve Replacement	Complete	Complete
Hydraulic Generation	Hinds Lake - Replace Generator Bearing Coolers	Complete	Complete
Hydraulic Generation	Bay d'Espoir - Refurbish Penstock	Complete	Complete
Hydraulic Generation	Bay d'Espoir - Replace Exciter Controls	16-Oct-2018	Complete
Hydraulic Generation	Bay d'Espoir and Cat Arm - Replace Water Systems	15-Nov-2018	15-Nov-2018
Hydraulic Generation	Hydraulic Generation - In-Service Failures	26-Mar-19 <sup>1</sup>	26-Mar-2019
Thermal Generation	Holyrood - 12 Megawatt Diesel Generation	Complete	Complete
Thermal Generation	Holyrood - Overhaul Pumps	Complete	Complete
Thermal Generation	Holyrood - Condition Assessment and Miscellaneous Upgrades	Complete	Complete
Thermal Generation	Holyrood Unit 1 - Overhaul Generator	05-Oct-2018	Complete
Thermal Generation	Holyrood Unit 1 - Overhaul Turbine Valves	05-Oct-2018	Complete
Thermal Generation	Holyrood - Improve Boiler Capacity	02-Nov-2018	02-Nov-2018
Thermal Generation	Thermal Generation - In-Service Failures	12-Mar-19 <sup>2</sup>	12-Mar-2019
Gas Turbine Generation	Holyrood Gas Turbine - Hot Gas Inspection	3-Oct-18	Complete
Gas Turbine Generation	Hardwoods and Stephenville Gas Turbine - Equipment Refurbishment and Replacement	30-Nov-2018	30-Nov-2018
Gas Turbine Generation	Gas Turbines - Purchase Capital Spares	30-Nov-2018	30-Nov-2018
Diesel Generation	Various Diesel Plants - Overhaul Diesel Units	Complete	Complete
Terminal Stations	Holyrood - Upgrade Aluminum Support Structures	Complete	Complete
Terminal Stations	Oxen Pond - Replace Power Transformers	12-Oct-2018	Complete
Terminal Stations	Various Terminal Stations - Replace Disconnects	17-Oct-2018	Complete
Terminal Stations	Wabush - Upgrade Terminal Station Equipment	22-Oct-2018	12-Nov-2018
Terminal Stations	Various Terminal Stations - Replace Insulators	26-Oct-2018	10-Nov-2018
Terminal Stations	Various Terminal Stations - Upgrade Circuit Breakers	02-Nov-2018	27-Nov-2018
Terminal Stations	Terminal Stations - In-Service Failures	02-Nov-2018	16-Nov-2018
Terminal Stations	Various Terminal Stations - Upgrade Power Transformers	16-Nov-2018	13-Nov-2018
Transmission	Transmission Line TL 227 - Replace Insulators	Complete	Complete
Transmission	Construct 230 kV Transmission Line TL 266 from Soldiers Pond to Hardwoods	Complete	Complete
Transmission	Transmission Lines TL 212 and TL 218 - Upgrade	Complete	Complete
Transmission	Various Transmission Lines - Perform Wood Pole Line Management	Complete	Complete
Transmission	Happy Valley - Additions for Load Growth	14-Oct-18	Complete
Other	Hydro Place - Replace Air Conditioner Units	Complete	Complete
Other	Various Locations - Replace Battery Banks and Chargers (2017-2018)	30-Nov-2018	30-Nov-2018
Other	Various Locations - Replace Battery Banks and Chargers (2018-2019)	30-Nov-2018	30-Nov-2018

**Notes**

1. The winter readiness scope of this project is the replacement of critical hydraulic generation equipment following any in-service failures, as well as the procurement of three capital spare components. The scope delayed beyond December 1, 2018 is the procurement of the three capital spare components: (1) Cat Arm Excitation Transformer; (2) Hinds Lake Station Service Transformer; and (3) Hinds Lake Circuit Breaker. These spare components are required in case of failure or indication of end-of-life of an in-service component. The delay is due to longer than expected engineering time and long delivery periods for these components. It is noted that there is an updated delivery date from the previous report; the three components are expected to arrive in February 2019 (item 1), March 2019 (item 2), and January 2019 (item 3). Hydro is working to improve the delivery dates. The 2018 planned preventive maintenance activities have been completed and there are no immediate concerns with the in-service components associated with these spares. Based on these results, there is no immediate concern entering the winter operating season.

2. The winter readiness scope of this project is the replacement of critical thermal generation equipment following any in-service failures, as well as the procurement of the three capital spare components. The scope delayed beyond December 1, 2018 is the procurement of two of the three capital spare components: (1) a 1500 kVA Auxiliary Board Transformer and (2) a 1400 kVA Excitation Transformer. These spare components are required in case of failure or indication of end-of-life of an in-service component. The delay is due to longer than expected engineering time and long delivery periods for these components. The spares are expected to arrive by February 2019 and March 2019, respectively, and Hydro is working to improve the delivery dates. Hydro is currently evaluating the risk and determining appropriate risk mitigations.



## **Appendix B**

Status of Winter Readiness Testing of Plant and Equipment  
Thermal Generation





Holyrood Thermal Generating Station

31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Plant: Holyrood Operations</b>				
Following Annual outages, Unit is run up, Synchronized and all Systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time.	S/U	✓	S/U	N/A
Black Start Test of the black start systems is performed prior to the Winter Operating Season	N/A	N/A	N/A	✓
Perform Megger testing of 600 volt motors prior to the Winter Operating Season	✓	✓	✓	N/A
<b>Safety</b>				
Boiler Service Pressure Test performed as required by Regulator	✓	✓	✓	N/A
Safety Valves testing as required (Post Start-Up)	S/U	✓	S/U	N/A
Boiler Operational Off-Line High/Low Drum Level Trip Tests	✓	✓	S/U	N/A
H2 Emergency Venting Valving	S/U	✓	S/U	N/A
Breaker & Disconnect Operation verified by Ops. Dept. & Whitbourne Crew	S/U	✓	S/U	N/A
<b>Service Air and Instrument Air Systems</b>				
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 Standby/Sequencing capability	N/A	N/A	N/A	✓
<b>Raw and Makeup Water System</b>				
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	✓
<b>Raw and Makeup Water System &amp; Water Treatment Plant:</b>				
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	✓
<b>Clarifier</b>				
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



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Sand Filters</b>				
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	✓
<b>Demineralization System</b>				
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	✓
<b>Reserve Feedwater System ("RFW")</b>				
RFW Transfer Pump Oil Normal Operating Level	✓	✓	✓	N/A
RFW Transfer Pumps operational	✓	✓	✓	N/A
<b>Circulating Water ("CW") and Screen Wash System</b>				
Vacuum Seal Pits operational	✓	✓	✓	N/A
All CW Travelling Screens Operational	✓	✓	S/U	N/A
CW Pump Motorized discharge valves 'Manual' & 'Auto', 'Cracked' Position operation verified	✓	✓	S/U	N/A
CW Pump Motors Oil Normal Operating Level	✓	✓	S/U	N/A
CW Pumps operational	✓	✓	S/U	N/A
CW Pump Discharge Vacuum Breakers operational	✓	✓	S/U	N/A
CW Travelling Screens Wash Pumps operational	✓	✓	S/U	N/A
Condenser Flushed	✓	✓	S/U	N/A
Condenser Backwashed	✓	✓	S/U	N/A
General Service ("GS") Coolers Backwashed, cleaned, etc.	✓	✓	✓	N/A
Turbine/Generator ("TG") Coolers Backwashed, cleaned, etc.	✓	✓	✓	N/A
Vacuum Pump Coolers Backwashed, cleaned, etc.	✓	✓	S/U	N/A
<b>Boiler</b>				
Pre-Outage Valve Survey conducted of Boiler Drains.	✓	✓	✓	N/A
Service pressure test on boiler for tube leaks.	✓	✓	S/U	N/A
<b>Condenser Air Extraction System</b>				
Vacuum Pumps available & tested for standby 'Auto-Start'.	✓	✓	S/U	N/A
Vacuum Pump Seal Water Tank water level controller operational.	✓	✓	S/U	N/A
Vacuum Pump Seal Water Pump operational.	✓	✓	S/U	N/A
Condenser Vacuum Breakers operational.	✓	✓	S/U	N/A

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

✓ - Test completed

N/A - Not Applicable



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>High Pressure ("HP") Feedwater System</b>				
<b>Boiler Feed Pumps</b>				
Boiler Feed Pumps available	✓	✓	S/U	N/A
Boiler Feed Pump Oil Tank Normal Operating Level and checked for moisture content	✓	✓	S/U	N/A
Boiler Feed Pump Auxiliary Oil Pumps available	✓	✓	S/U	N/A
Boiler Feed Pump Suction Valves & Limit Switches	✓	✓	S/U	N/A
Boiler Feed Pump Emergency Gland Seal Injection Pump available	✓	✓	S/U	N/A
Boiler Feed Pump Emergency Gland Seal Pump Oil Normal Operating Level	✓	✓	S/U	N/A
Boiler Feed Pump Gland Seal Water available from the Emergency Pump and Condensate Extraction Pumps	✓	✓	S/U	N/A
Boiler Feed Pump Gland Seal Water Control Valve operational	✓	✓	S/U	N/A
Boiler Feed Pump Gland Seal Water Drains Tank Level Float Operated Valve operational (Units 1 & 2)	✓	✓	N/A	N/A
Boiler Feed Pump Gland Seal Water Transfer Pumps operational (Units 1 & 2)	✓	✓	N/A	N/A
Boiler Feed Pump Gland Seal Water Drains Tank Level Control Valve operational (Unit 3)	N/A	N/A	S/U	N/A
Boiler Feed Pump Gland Seal Water Transfer Pumps operational (Unit 3)	N/A	N/A	S/U	N/A
Boiler Feed Pump Recirculation Control Valves operational	✓	✓	S/U	N/A
Boiler Feed Pump Motorized Discharge Pilot & Main Valves operational	✓	✓	S/U	N/A
Low Load Feedwater Isolator & Control Valves operational	✓	✓	S/U	N/A
Main Feedwater Isolator & Control Valves operational	✓	✓	S/U	N/A
High Pressure Heater Motorized Valves (Inlet, Outlet & Bypass) checked for proper operation, sequencing, etc.	✓	✓	S/U	N/A
<b>Miscellaneous</b>				
Economizer 'Manual' Operated Valve operational	✓	✓	S/U	N/A
Economizer Motorized Recirculation Valve operational (Unit 3)	N/A	N/A	S/U	N/A
Boiler Drum Level Instrumentation operational	✓	✓	S/U	N/A
HP Heater Bled Steam Check Valves operational	✓	✓	S/U	N/A
Startup De-superheater Steam & Water valving operation/position verified	✓	✓	S/U	N/A
Main Steam & Reheat Steam Desuperheater Spray Water Isolators & Control Valves operational	✓	✓	S/U	N/A
Auxiliary Steam Desuperheater Spray Water Control Valve operational	N/A	N/A	S/U	N/A
<b>Low Pressure ("LP") Feedwater System</b>				
<b>Condenser</b>				
Condenser Hotwell Makeup/Surplus Control Valves operation verified	✓	✓	S/U	N/A
Condenser Hotwell Makeup Motorized Isolating Valve operation verified	✓	✓	S/U	N/A
Condenser Dye test for leaks, as required	✓	N/A	S/U	N/A

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

✓ - Test completed

N/A - Not Applicable



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Ammonia &amp; Control System</b>				
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	✓
<b>Condensate Extraction Pumps</b>				
Condensate Extraction Pumps available	✓	✓	S/U	N/A
Condensate Extraction Pump Motors Bearing Oil Normal Operating Level	✓	✓	S/U	N/A
Condensate Extraction Pump Motor Cooling Water available (Unit 3)	N/A	N/A	S/U	N/A
<b>Condensate Polishers</b>				
Resin integrity verified	✓	✓	S/U	N/A
Two (2) Polishers Rinsed and available	✓	✓	S/U	N/A
Valve Operation (Normal & Regenerating, etc.)	✓	✓	S/U	N/A
Regeneration System Skids available (valving, pumps, blowers, tanks. Etc.)	✓	✓	S/U	N/A
Condensate Polisher Bypass Control Valve operational	✓	✓	S/U	N/A
<b>Low Pressure Heaters</b>				
Low Load Recirculation Control Valve operation	✓	✓	S/U	N/A
<b>Deaerator</b>				
Deaerator Normal Operating Level	✓	✓	S/U	N/A
Deaerator Steam Coil operational	✓	✓	S/U	N/A
Deaerator Pegging Steam operational	✓	✓	S/U	N/A
Deaerator Low Level Trip Test	✓	✓	S/U	N/A
<b>Miscellaneous</b>				
Condenser Flash Tank Control Valve operation/position	✓	✓	S/U	N/A
Turbine Low Pressure Exhaust Hood Spray Motorized Valve operation	✓	✓	S/U	N/A
Start-up Desuperheater Steam & Water valving operational	✓	✓	N/A	N/A
LP Heater Bled Steam Check Valves operational	✓	✓	S/U	N/A
<b>Bled Steam and Heater Drains System</b>				
Low Pressure ("LP") and High Pressure ("HP") Instrumentation and Control operational	✓	✓	S/U	N/A
LP and HP Heater Level Control operational	✓	✓	S/U	N/A
LP Heater Condensate Drains Pumps operational	✓	✓	S/U	N/A
No. 4 HP Heater Condensate Drains Pump operational	✓	✓	S/U	N/A

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

✓ - Test completed

N/A - Not Applicable



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Air and Flue Gas System</b>				
Instrumentation and Control operational	✓	✓	S/U	N/A
<b>Forced Draft ("FD") Fans and Air Dampers</b>				
Two (2) FD Fans available	✓	✓	S/U	N/A
Bearing Oil Normal Operating Level	✓	✓	S/U	N/A
Cooling Water on to Fans	✓	✓	S/U	N/A
Stroke Variable Inlet Vanes ("VIVs")	✓	✓	S/U	N/A
Stroke Discharge Dampers	✓	✓	S/U	N/A
FD Fan Motor Variable Speed Drives operational	✓	✓	S/U	N/A
All Burner Auxiliary Air Dampers/Positioners operation (Units 1 & 2)	✓	✓	N/A	N/A
All Elevation Air Flow Dampers/Positioners operation (Unit 3)	N/A	N/A	S/U	N/A
<b>Rotary Air Heaters</b>				
Rotary Air Heaters operational	✓	✓	S/U	N/A
Rotary Air Heaters Bearing Oil (Top & Bottom) Normal Operating Level	✓	✓	S/U	N/A
Rotary Air Heaters Bearing Cooling Water On	✓	✓	S/U	N/A
Rotary Air Heaters Electric Motor Drives operational	✓	✓	S/U	N/A
Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open	✓	✓	S/U	N/A
Rotary Air Heaters Start-up of Air Motor Drive upon loss of AC Power Supply to the normal operating Electric Drive Motor	✓	✓	S/U	N/A
Rotary Air Heaters Steam Supply Control Valves operational. *Note: Two Steam Supplies on (Units 1 & 2)	✓	✓	S/U	N/A
Rotary Air Heaters Sootblowers operational	✓	✓	S/U	N/A
<b>Boiler Sootblowing System</b>				
Sootblower Control Panel operational	✓	✓	S/U	N/A
Sootblowers Steam Supply Control Valve operational	✓	✓	S/U	N/A
Sootblowers Overhauled during Annual Outage Verify operation (e.g., Rotation, Travel Advancing/Retracting from Furnace, leaks, etc.) first time Unit is placed on Line	✓	✓	S/U	N/A
<b>Light Fuel Oil System</b>				
Hydro Pad operational	N/A	N/A	N/A	N/A
Light Oil Pumps available	✓	✓	S/U	N/A
Pumps, Valves (including Control & Trip), lines, strainers, pressure (locally & UCB)	✓	✓	S/U	N/A
Check Light Oil Supply & Return Lines to/from Plant respectively	N/A	N/A	N/A	✓
Suction Strainers cleaned with covers secured	✓	✓	✓	N/A
Ignitors cleaned, securely in place with associated lines securely fastened	✓	✓	S/U	N/A
Ignitors all checked for operation during Unit Startup (e.g., Ignitor Control Box, Valve Operation, Lighting, etc.)	✓	✓	S/U	N/A

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

✓ - Test completed

N/A - Not Applicable



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Fuel Oil Delivery System, Auxiliary Steam &amp; Fuel Oil Piping System</b>				
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	✓

<b>Fuel (Heavy) Oil System</b>				
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	✓	✓	S/U	N/A
Fuel Oil Heaters Temperature Steam Control Valve operational	✓	✓	S/U	N/A
Suction Strainers cleaned (including standby & extras) with covers secured	✓	✓	S/U	N/A
Fuel Oil Accumulator operational	✓	✓	S/U	N/A
Fuel Oil Pumps available	✓	✓	S/U	N/A
Pumps 'Auto-Start' check offline	✓	✓	S/U	N/A
Header Pressure Control Valve operational	✓	✓	S/U	N/A
Fuel Oil Meter operational	✓	✓	S/U	N/A
<b>Fuel Oil Supply Control, Trip, Long &amp; Short Recirculation Valves</b>				
Fuel Oil Supply Control Valve operational	✓	✓	S/U	N/A
Fuel Oil Trip Valve operational	✓	✓	S/U	N/A
Fuel Oil Long Recirculation Valve operational (Units 1 & 2)	✓	✓	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	S/U	N/A
Elevation Fuel Oil Minimum Supply Control Valves operational (Unit 3)	N/A	N/A	S/U	N/A
Elevation Fuel Oil Supply Control Valves operational (Unit 3)	N/A	N/A	S/U	N/A
Main Fuel Oil Recirculation Valve operational (Unit 3)	N/A	N/A	S/U	N/A
Elevation Recirculation Valves operational (Unit 3)	N/A	N/A	S/U	N/A
<b>Burners</b>				
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.)	✓	✓	S/U	N/A
All Burner Tilts checked for operation (Units 1 & 2)	✓	✓	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



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>General Service ("GS") System</b>				
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 standby 'Auto-Start'	✓	✓	✓	N/A
<b>Turbine/Generator ("TG") Auxiliary Cooling System</b>				
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 standby 'Auto-Start'	✓	✓	✓	N/A
<b>Turbine/Generator ("TG") System</b>				
<b>Hydraulic System Units 1 &amp; 2</b>				
Hydraulic System Accumulators operational	✓	✓	N/A	N/A
Hydraulic System Storage Tank Normal Operating Level and checked for moisture content	✓	✓	N/A	N/A
Hydraulic System Storage Tank air purging of moisture in place	✓	✓	N/A	N/A
Hydraulic Set Primary, Secondary Filter indications ok	✓	✓	N/A	N/A
Two (2) Hydraulic Fluid Pumps availability	✓	✓	N/A	N/A
Hydraulic Pump Auto Start Testing	✓	✓	N/A	N/A
Two (2) Hydraulic Fluid Pump Coolers availability	✓	✓	N/A	N/A
<b>Valves</b>				
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	S/U	N/A
Turbine 'Left-Hand' & 'Right Hand' Reheat Stop & Intercept Control Valve Testing verified	✓	✓	S/U	N/A
Turbine Six (6) Main Control Valve operation (Units 1 & 2)	✓	✓	N/A	N/A
Turbine Four (4) Main Control Valve operation (Unit 3)	N/A	N/A	S/U	N/A
Turbine Blowdown Valve operation	✓	✓	S/U	N/A

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

✓ - Test completed

N/A - Not Applicable



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Lubricating System</b>				
Lube Oil Tank Normal Operating Level and checked for moisture content	✓	✓	S/U	N/A
Portable Centrifuge operational	✓	✓	✓	N/A
Lube Oil Tank Vapor Extractor operation	✓	✓	S/U	N/A
Bowser Oil Conditioner Vapor Extractor Operation (Units 1 & 2)	✓	✓	S/U	N/A
Two (2) AC Lube Oil pumps available & tested for standby '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	S/U	N/A
Verify Discharge Pressure of Jacking Oil Pump (Locally & UCB)	N/A	N/A	S/U	N/A
Auxiliary Oil Pump ("AOP") Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3)	N/A	N/A	S/U	N/A
Verify Discharge Pressure of AOP Pump (Locally & UCB) (Unit 3)	N/A	N/A	S/U	N/A
AC Pump Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3)	N/A	N/A	S/U	N/A
Verify Discharge Pressure of AC Flushing Oil Pump (Locally & UCB) (Unit 3)	N/A	N/A	S/U	N/A
DC Pump Testing & Starting from UCB & Turbine Lube Oil Tank (Unit 3)	N/A	N/A	S/U	N/A
Verify Discharge Pressure of DC Flushing Oil Pump (Locally & UCB) (Unit 3)	N/A	N/A	S/U	N/A
<b>Barring/Turning Gear</b>				
Turning Gear operation verified.	✓	✓	S/U	N/A
Perform trip test of Turning Gear.	✓	✓	S/U	N/A
<b>Miscellaneous</b>				
Steam Seal Regulator operational	✓	✓	S/U	N/A
Operational online/offline Overspeed Trip Tests	✓	✓	S/U	N/A
<b>Hydrogen ("H<sub>2</sub>") &amp; Carbon Dioxide ("CO<sub>2</sub>") System</b>				
<b>H<sub>2</sub> Generation &amp; Storage System</b>				
System in operation	N/A	N/A	N/A	N/A
Electrolyzer/H <sub>2</sub> 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
<b>H<sub>2</sub> &amp; CO<sub>2</sub> Bulk Packs</b>				
Adequate H <sub>2</sub> Bulk Packs on hand for contingency purposes	N/A	N/A	N/A	✓
CO <sub>2</sub> 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



31-Oct-18

	Status of Test			
	Unit 1	Unit 2	Unit 3	BoP
<b>Generator</b>				
Generator Exciter Operation checked offline & online	✓	✓	S/U	N/A
Seal Oil System tested with 'Air' on Generator in preparation for Leak Testing	✓	✓	S/U	N/A
Seal Oil Regulator operational	✓	✓	S/U	N/A
AC Seal Oil pumps available & tested for standby 'Auto-Start' (Units 1 & 2)	✓	✓	N/A	N/A
AC Seal Oil Pump available (Unit 3)	N/A	N/A	S/U	N/A
DC Seal Oil Pump available & tested for standby 'Auto-Start'	✓	✓	S/U	N/A
Seal Oil Vacuum Pumps available	✓	✓	S/U	N/A
Vacuum Tank Level Control operational	✓	✓	S/U	N/A
H <sub>2</sub> System in operation and/or adequate Bulk Packs on hand for contingency purposes	N/A	N/A	N/A	✓
CO <sub>2</sub> Adequate Bulk Packs on hand	N/A	N/A	N/A	✓
Leak Testing Performed prior to 'Gassing Up' Generator	✓	✓	S/U	N/A
Purity, Dew Point, etc. Instrumentation operation verified	✓	✓	S/U	N/A
<b>Powerhouse and Switchyard Single Line</b>				
<b>Plant 129 V System</b>				
129 V Battery Banks checked Stage I & II	✓	✓	✓	N/A
129V Battery Chargers checked Stage I & II	✓	✓	✓	N/A
<b>Plant 258V System</b>				
258V Battery Banks checked Stage I & II	✓	✓	S/U	N/A
258V Battery Chargers checked Stage I & II	✓	✓	S/U	N/A
<b>Plant Uninterrupted Power Supplies ("UPS")</b>				
Numbers 1, 2, 3, & 4 UPS' including Batteries, Cooling Fans, etc., checked	✓	✓	S/U	N/A
<b>Emergency Diesel Generators</b>				
Stage I & II Emergency Diesel Generators Tested for Emergency Stop	✓	✓	N/A	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	N/A
Diesel Bus Tie Breaker ("DBT") operation verified	✓	✓	N/A	N/A
<b>Fire Protection System</b>				
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	✓
<b>Holyrood Main Powerhouse</b>				
Back-Up ECC and Guardhouse Propane Generator	N/A	N/A	N/A	✓
<b>Plant Air Conditioning System</b>				
Control & Relay Rooms	N/A	N/A	N/A	✓
UPS No. 1 Room	N/A	N/A	N/A	✓
Generator Excitation and UPS' Nos. 2, 3, & 4 Room (Unit 3)	N/A	N/A	✓	N/A
<b>Plant Heating Steam</b>				
All Systems operational for when required.	N/A	N/A	N/A	✓

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

✓ - Test completed

N/A - Not Applicable



## **Appendix C**

Status of Winter Readiness Testing of Plant and Equipment  
Hydraulic Generation





Status of Test									
Bay d'Espoir									
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	BoP PH 1	BoP PH 2	
Following annual outages, unit is run up, synchronized and all systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time.	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Black Start Test of the black start systems is performed prior to the Winter Operating Season. Station service transfers alternate sources	N/A	✓	✓						
<b>Spherical Valves</b>									
Turbine Main Stop Valve Testing	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
Turbine Main Stop Valve Operational	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
<b>Service Air and Instrument Air Systems Compressors</b>									
All stationary air compressors available	N/A	✓	✓						
Air compressor operational checks performed (e.g., oil levels, cooling water, etc.)	N/A	✓	✓						
Air compressor standby/sequencing, capability/lead, lag/standby	N/A	✓	✓						
High pressure ("HP") compressors available	N/A	✓	✓						
Low pressure ("LP") compressor available	N/A	✓	✓						
Instrumentation control and alarms operational	N/A	✓	✓						
<b>Turbine/Generator ("TG") Cooling Water Systems</b>									
Cooling water pumps available	✓	✓	✓	✓	✓	✓	N/A	✓	N/A
Emergency cooling water available Penstock supply	✓	✓	✓	✓	✓	✓	N/A	✓	✓
Cooling water system available	✓	✓	✓	✓	✓	✓	✓	✓	✓
TG pumps available and tested for auto/manual start	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
Shaft seal system available	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Circulating water ("CW") pump motorized discharge valves 'manual' and 'auto', 'cracked' position operation verified. GCI/Hlk	N/A	N/A	N/A						
Rotary strainer inspected and available	N/A	N/A	N/A						
<b>Turbine Generator Governor System</b>									
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
<b>Generator</b>									
Generator exciter operation checked offline and online	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Generator exciter available	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
<b>Lubricating System</b>									
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
<b>Switchyard/Terminal Station</b>									
Breakers and disconnects operational	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Breaker and disconnect operation verified by Operations department & TRO Bishops Falls	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
<b>Intake</b>									
Water elevation	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Trashrack system	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Gate operation	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
<b>Surge Tank</b>									
Heating system	N/A	30-Nov	N/A						
Alarm Systems	N/A	30-Nov	N/A						

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.  
✓ - Test completed  
N/A - Not Applicable



Status of Test									
Bay d'Espoir									
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	BoP PH 1	BoP PH 2
<b>Spillway</b>									
Water elevation	✓	✓	✓	✓	✓	✓	✓	✓	N/A
Gate Heating /Ice Away unit	N/A	30-Nov	N/A						
Gate operation	N/A	✓	N/A						
Emergency (back-up) diesel generator	N/A	N/A							
Emergency lift operation and tested	N/A	✓	N/A						
<b>Battery Banks And Battery Chargers</b>									
<b>Plant 129V System</b>									
129 V Battery Banks checked	N/A	✓	✓						
129 V Battery Chargers	N/A	✓	✓						
129 V battery Banks Available	N/A	✓	✓						
<b>Plant 48 V System</b>									
48V Battery Banks checked	N/A	✓	N/A						
<b>Plant Uninterrupted Power Supplies ("UPS")</b>									
UPS Power Supplies (Inverter NWS)	N/A	✓	N/A						
<b>Emergency Diesel Generators</b>									
Emergency diesel generators tested for emergency stop	N/A	✓	N/A						
Emergency diesel generators tested for manual and auto-start operation along with auto breaker closure as well as emergency manual closing of breakers	N/A	✓	N/A						
alternate ac sources available	N/A	✓	✓						
Station services available	N/A	✓	✓						
Transfer alternate source	N/A	✓	✓						
<b>Plant Air Conditioning System</b>									
Control rooms	N/A	✓	N/A						
Communications rooms	N/A	✓	N/A						
<b>Plant Heating Steam</b>									
All Systems operational for when 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



Hydraulic Generating Stations (Remote Units)

	Status of Test										
	Cat Arm			HLK		USL		GCL		PRV	
	Unit 1	Unit 2	BoP PH	Unit 1	BoP						
Following annual outages, unit is run up, synchronized and all systems verified before Operating Status determined, as per ECC, prior to coming Winter Operating Season to ensure preparedness. A Unit Load Test is performed at this time.	✓	✓	N/A	✓	✓	7-Nov	N/A	✓	N/A	✓	N/A
Black Start Test of the black start systems is performed prior to the Winter Operating Season. Station service transfers alternate sources	✓	✓	✓	✓	✓	7-Nov	✓	✓	✓	✓	✓
<b>Spherical Valves</b>											
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
<b>Service Air and Instrument Air Systems Compressors</b>											
All stationary air compressors available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air compressor operational checks performed (e.g., oil levels, cooling water, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air compressor standby/sequencing, capability/lead, lag/standby	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High pressure ("HP") compressors available	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A
Low pressure ("LP") compressor available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Instrumentation control and alarms operational	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Turbine/Generator ("TG") Cooling Water Systems</b>											
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	✓	✓	✓	✓	✓	7-Nov	✓	✓	✓	✓	✓
TG pumps available & tested for auto/manual start	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A
Shaft seal system available	N/A	N/A	N/A	✓	✓	7-Nov	N/A	✓	✓	✓	✓
Circulating water ("CW") pump motorized discharge valves 'manual' and 'auto', 'cracked' position operation verified	✓	✓	✓	✓	✓	7-Nov	✓	✓	✓	✓	✓
Rotary (water) strainer	✓	✓	✓	✓	✓	7-Nov	✓	✓	✓	✓	✓
<b>Turbine Generator Governor System</b>											
Hydraulic system accumulators operational	✓	✓	N/A	✓	N/A	7-Nov	N/A		N/A	✓	N/A
Governor system testing	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Governor system available	✓	✓	N/A	✓	N/A	7-Nov	N/A		N/A	✓	N/A
Hydraulic pump(s) available	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Hydraulic pump gov auto-start testing	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
<b>Generator</b>											
Generator exciter operation checked offline and online	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
<b>Lubricating System</b>											
Portable centrifuge operational	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Portable oil pump (jacking)	✓	✓	✓	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Oil level system generator metering	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Oil level system turbine metering	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	N/A	N/A
ac high pressure jacking oil pump available automatic	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	N/A	N/A
<b>Miscellaneous</b>											
Breaker and disconnect operation verified by Operations department & TRO crew	✓	✓	✓	✓	✓	7-Nov	✓	✓	✓	✓	✓
<b>Control Structure</b>											
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

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.  
✓ - Test completed  
N/A - Not Applicable



Hydraulic Generating Stations (Remote Units)

Status of Test											
Cat Arm			HLK		USL		GCL		PRV		
Unit 1	Unit 2	BoP PH	Unit 1	BoP							

Intake											
Water elevation	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Trashrack system	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A
Gate operation	✓	✓	N/A	✓	N/A	7-Nov	N/A	✓	N/A	✓	N/A

Spillway/Bypass											
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	30-Nov	N/A	30-Nov	✓	30-Nov	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	N/A

Battery Banks And Battery Chargers											
Plant 129 V System											
129 V battery banks checked	✓	✓	✓	✓	✓	✓	16-Nov	✓	✓	✓	✓
129 V battery chargers	✓	✓	✓	✓	✓	✓	16-Nov	✓	✓	✓	✓
129 V battery banks available	✓	✓	✓	✓	✓	✓	16-Nov	✓	✓	✓	✓
Plant 48 V System											
48 V battery banks checked	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Emergency Diesel Generators											
Emergency diesel generators tested for emergency stop	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emergency diesel generators tested for manual and 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.  
 ✓ - Test completed  
 N/A - Not Applicable

## **Appendix D**

### Master Generation Outage Schedule



### 2018 Planned Generation Outage Schedule\*

Unit	Month Week Starting MW	October		November			December			Scheduled Annual Maintenance Outages				
		21	28	4	11	18	25	2	9		16	23	30	
Holyrood - G1	170													27-Jul 27 to 19-Oct
Holyrood - G2	170													22-May to 17-Sep
Holyrood - G3	150													2-Apr to 19-Jul, 28-Sep to 3-Nov
Bay d'Espoir - G1	76.5													9-Jul to 27-Jul
Bay d'Espoir - G2	76.5													11-Jun to 16-Aug
Bay d'Espoir - G3	76.5													22-Sep to 5-Oct
Bay d'Espoir - G4	76.5													17-Sep to 6-Oct
Bay d'Espoir - G5	76.5													29-Apr to 28-Jun
Bay d'Espoir - G6	76.5													17-Apr to 29-Jun
Bay d'Espoir - G7	154.4													8-Oct to 19-Oct
Upper Salmon	84													22-Oct to 7-Nov
Granite Canal	40													29-Jul to 16-Aug
Hinds Lake	75													27-Jun to 30-Jul
Cat Arm 1	67													6-Aug to 15-Sep
Cat Arm 2	67													6-Aug to 16-Sep
Paradise River	8													2-Apr to 6-Apr
Hardwoods GT	50													15-Oct to 20-Oct, 1-Nov to 2-Nov
Stephenville GT <sup>Note 1</sup>	50													23-Jul to 7-Aug, 1-Oct to 5-Oct, 23-Oct to 26-Oct
Holyrood GT	123.5													3-Jul to 2-Aug, 21-Aug to 4-Oct
Star Lake	18													14-Oct to 20-Oct
Exploits	63													
COGen	8													
NLH Diesels <sup>Note 2</sup>	24.7													
Newfoundland Power <sup>Note 3</sup>	119.3													
CBPP 60 Hz <sup>Note 4</sup>	99.1													
Available Island Capacity	2000	1,655	1,630	1,665	1,954	1,960	1,980	2,022	2,022	2,025	2,025	2,025	2,025	
Forecasted Gross Island Peak Load		1,125	1,201	1,264	1,336	1,399	1,462	1,789	1,789	1,789	1,789	1,789	1,789	
Total Island Reserve <sup>Note 5</sup>		530	428	494	712	657	614	333	333	336	336	336	336	
Largest Island Operating Unit		170	170	170	170	170	170	170	170	170	170	170	170	
Island N-1 Reserve		290	188	254	472	417	374	93	93	96	96	96	96	
Happy Valley GT	25													

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

**Notes:**

- Stephenville Gas Turbine End A (25 MW) unavailable due to a bellows issue.
- 24.7 MW include Hawke's Bay (5 MW), St. Anthony (9.7 MW), and Holyrood Diesels (10 MW).
- Newfoundland Power MGT and MD-3 are unavailable. MGT is expected to be available mid-November and MD3 is expected to be available mid-December.
- As of December 1, 2018 Deer Lake Power 60 Hz generation capacity will increase by approximately 25 MW after the conversion of Unit 8.
- November and December Total Reserves reflect the planned agreements for CBPP Capacity Assistance (90 MW) and System Voltage Reduction (up to 20 MW).

\* Preventive/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  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Fire Protection System	Electrical Driven Pump	Pump	Inboard Bearing		BEARING,PEERLESS INBOARD	In Stock
Fire Protection System	Electrical Driven Pump	Pump	Outboard Bearing		BEARING,PEERLESS OUTBOARD	In Stock
Fire Protection System	Electrical Driven Pump	Pump	Casing Ring		RING,PEERLESS CASING	In Stock
Fire Protection System	Electrical Driven Pump	Pump	Casing Gasket		GASKET,PEERLESS CASING	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Valves	Day Tank TripValve	8" Butterfly Valve and Actuator		VALVE,BTFY 8" 150#	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Day Tank Trip Valve	Actuator		ACTUATOR,BETTIS CB520	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Fuel Line Block Valve	16" Gate Valve		VALVE,GATE 16" NEWCO	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Day Tank Fill Line Control valve	6" Control Valve		VALVE,CONTROL 6" FISHER	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping			Actuator		ACTUATOR,PNEU 1-BSW-5-LT	In Stock
Hydrogen Generation and Storage	Valves	Motorized Valves	1/2 " Valve		SOLENOID,VALVE ASCO 8316	In Stock
Hydrogen Generation and Storage	Tubing		Tubing		TUBING,SS 1" OD X.083 316	In Stock
Powerhouse and Switchyard Single Line	129V DC System	Charger	Control Unit		CONTROL UNIT,BATTERY CHG 129V	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2205C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2206C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3205C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3206C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2203C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2207C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2202C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2208C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3203C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3207C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3202C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3208C		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4003B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4004A		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4005B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4006B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4007B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4008B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4009B		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4010A		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4011A		VALVE,ITT	In Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - PCV4071	Non-Stock is OK since there are non critical uses for this TX which can be "borrowed)	VALVE,PRESS REGULATING	Non-Stock
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Sodium Monitor	Non-Stock is OK since there are non critical uses for this TX which can be "borrowed)	ANALYZER,ORION 2111LLEN	In Stock
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Frequency Drive		CONTROLLER,SPEED CLARIFIER	In Stock
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Recirculator - Double Induction Speed Reducer - In Stock		RECIRCULATOR,STERLING 9A6108	In Stock
Raw and Makeup Water System & Water Treatment Plant	Clearwell	Clearwell Pump	Pump, single stage, 750GPM	Critical repair parts stocked for this pump. No need to stock the entire pump.	PUMP ASSY,KSB 6"	Non-Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Quick Closing Valves	18 " Butterfly Valve		VALVE,BTFY 18" 150#	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Capstan	Gear Box		CAPSTAN GEARBOX,SADI	In Stock
Fire Protection System	Electrical Driven Pump	Control Panel	Fire Pump Controller	Spare Controller on site in Warehouse	N/A	Non-Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	30A DC Breaker		BREAKER,DC HFD2030 30A	In Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	25A DC Breaker		BREAKER,DC HFD2025 25A	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	15A DC Breaker		BREAKER,DC HFD2015 15A	In Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	400A DC Breaker		BREAKER,DC KD3400 400A	In Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	50A DC Breaker		BREAKER,DC HFD2050 50A	In Stock
Powerhouse and Switchyard Single Line	129V DC System	Charger	Control Unit		CONTROL UNIT,BATTERY CHG 129V	In Stock
Circulating Water and Screen Wash System	CW Discharge Valves	Butterfly Valve	36" Butterfly Valve		VALVE,BUTTERFLY 36"	In Stock
Circulating Water and Screen Wash System	CW Discharge Valves	Butterfly Valve	Actuator		ACTUATOR ASSY,ROTORK	In Stock
Circulating Water and Screen Wash System	CW Pumps	Motor	Coils		WINDING COILS	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE,NETWORK INTERFACE	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		RELAY,AB TYPE P	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE,PROCESSOR FOXBORO	In Stock
Combustion Air & Gas Instruments	Burner Management	Flame Scanners	24Vdc Scanner Power Supply		POWER SUPPLY,WEIDMULLER	In Stock
Combustion Air & Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter		TRANSMITTER, DP 1 KPA TO 1 KPA	In Stock
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 1	One spare F.O. Flow TX for both units	FLOWMETER,ROSE	On Order
Condenser Air Extraction System	Vacuum Breakers		6' Flanged		VALVE,AIR & VACUUM 6 FLG	In Stock
Generator	Seal Oil System	Seals	See Parts List #U1&2 - 1 from Service Contractor		HYDROGEN SEAL RINGS,GE	In Stock
Generator	Exciter	Controls	ArcNet Coupler		CARD,ABB UNS0672	In Stock
Generator	Exciter	Controls	Conduction Monitor		CARD,ABB UNS0673	In Stock
Generator	Exciter	Controls	Crowbar		CARD,ABB UNS0017AVAR1	In Stock
Generator	Exciter	Controls	Digital ArcNet		CARD,ABB UPC090	In Stock
Generator	Exciter	Controls	Binary Input		CARD,ABB UFC092	In Stock
Generator	Exciter	Controls	Output Relay		CARD,ABB ARC093	In Stock
Generator	Exciter	Controls	Measuring Card		CARD,ABB UNC4672	In Stock
Generator	Exciter	Controls	Measuring Card		CARD,ABB UNC4673	In Stock
Generator	Exciter	Controls	I/O Connection		CARD,ABB UNC4674	In Stock
Generator	Exciter	Controls	Converter		CARD,ABB UNS3670	In Stock
Generator	Exciter	Controls	Snubber Bridge		SNUBBER,ABB UNS4681V12	In Stock
Generator	Exciter	Controls	Control		CARD,ABB HIEE300900R0001	In Stock
Generator	Exciter	Controls	Power Supply		CARD,ABB KUC321	In Stock
Generator	Exciter	Controls	Pulse Gen		CARD,ABB GDB021	In Stock
Generator	Exciter	Controls	Combined I/O		CARD,ABB UAC326	In Stock
Generator	Exciter	Controls	Control Panel		CARD,ABB AFC094	In Stock
Generator	Exciter	Controls	Breaker		BREAKER,FIELD ABB F3/SE	In Stock
Generator	Exciter		Transformer	On Site	N/A	In Stock
Generator	Stator	PT Cubicle	Primary Contact for Generator P.T.		CONTACT ASSY,PT	In Stock
Generator	Seal Oil System	Regulator	1.5" Regulating Valve		SEAL OIL REG KIT, RK	On Order
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Valve		VALVE,FISH F.O. TRIP	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Ignition Transformer		XFMR,FOSSIL S870-542F	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Sunspot		BASE,AMPLIFIER & TERMINAL	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Valve Assembly / Oil Igniter		IGNITER,ASSEMBLY ALSTOM	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitter		TRANSMITTER,LEVEL	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Relays		RELAY,PLUG-IN 12 PIN AC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe		PROBE,GUIDED WAVE RADAR 26"	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Switch		SWITCH,LEVEL MOBREY	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter		TRANSMITTER,LEVEL	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
L.P. Feedwater System	Deaerator System	Level Control	Relay		RELAY,PLUG-IN 12 PIN AC	In Stock
L.P. Feedwater System	Ammonia System		Bulk Chemical		AMMONIUM HYDROXIDE,20% TOTE	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	12"-150# Gasket Kit		GASKET,S&K 74S0397V0010	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	O-Rings		O-RING,S&K 75S0144V0090	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 24"	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 16"	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 12"	On Order
L.P. Feedwater System	Deaerator System	NRV Valves	Seal washers		SEAL,S&K 75G0181V0020	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1&2 LP Heaters	Gasket		GASKET,S&K 67S0064V0010	On Order
L.P. Feedwater System	L.P. Heaters	NRV Valves	O-Rings		O-RING,S&K 75S0144V0100	On Order
L.P. Feedwater System	L.P. Heaters	NRV Valves	Packing		PACKING,S&K 75G0100V0040	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	Packing		PACKING,S&K 75G0100V0040	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	Seal washers		SEAL,S&K 75G0181V0050	In Stock
L.P. Feedwater System	Polisher Bypass Valve		Valve	Non-Stock is OK since there are full rebuild items identified and	VALVE,FISH 5080326PTBNN	Non-Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	Valve		VALVE KIT,BALL 3	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	Actuator		ACTUATOR KIT,WORCH D-38	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	Valve		VALVE KIT,BALL 2	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	Actuator		ACTUATOR KIT,WORCH C-38	In Stock
Main Steam & Reheat Steam; Turbine Drains	Vacuum Trip Device		Pressure Transmitter - Unit 1		TRANSMITTER,PRESS -30-0"	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - cable assemblies		CABLE ASSY,SERVO G.E.	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Intercept Control Valve Servos		VALVE,SERVO 50.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Main Control Valve Servos		VALVE,SERVO 50.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Intercept Control Valve Servos (scram)		VALVE,SERVO 9.0-11.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Main Stop Valve Servos		VALVE,SERVO 9.0-11.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducer for Intercept Control Valve & Main Control Valve		TRANSDUCER,GE	In Stock
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducers for 1 per Main Stop Valve		TRANSDUCER,GE	In Stock
Turbine Generator System Stage 1	Governor	Governor	Cable		CABLE SET,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Valve		VALVE,FLUID POWER PILOT	In Stock
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Go Switch - Limit Switches		SWITCH,LIMIT GO LEVER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Cable Set		CABLE SET,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Valve		VALVE,FLUID POWER PILOT	In Stock
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	O-Ring Kit		O-RING KIT,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RES,500HM,5%,40 WATT		RESISTOR,500HM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	DIODE MOD,1200V,45A,SKKD46/1 2		DIODE,MOD 1200V	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RELAY		RELAY,12HGA11J52	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	CPF MK5 CONTROL POWE		CONTROL,MK5 POWER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	TERMINATOR,93 OHMS		TERMINATOR,93 OHMS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR		RESISTOR,323A2354P1	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR		RESISTOR,323A2354P2	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Turbine Generator System Stage 1	Governor	Turbine Control System	RES 100 OHM 5% 40W		RESISTOR,100 OHM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	CAP-METALLIZED-MYLAR		CAP,METALIZED MYLAR	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, C-Core Terminal Board		TERMINAL BOARD,MKV C-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, P-Core Terminal Board		TERMINAL BOARD,MKV P-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	TERM. BOARD (R-S-T)		TERMINAL BOARD,(R-S-T)	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Main Control Card	New no longer available, reman only	BOARD,GE DS200SDCCG4A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, LAN Comm Interface Card		BOARD,GE DS200SLCC G3A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,Thermocouple Terminal Board		TERMINAL BOARD,THERMOCOUPLE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,TERM.BD ©R-S-T TC		TERMINAL BOARD,MKV	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKVe, Analog I/O Terminal Board		TERMINAL BOARD,ANALOG I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKVe, Analog I/O Terminal Board		TERMINAL BOARD,ANALOG I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,TERM BD (R-S-T) EXT		TERMINAL BOARD,(R-S-T) EXT	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Common Analog Card	New no longer available, reman only	BOARD,GE DS200TCCAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DIG. I/O BD. CONF. C		BOARD,GE DS200TCDAH1B/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Emergency Overspeed Card	New no longer available, reman only, Has age sensitive components,	BOARD,GE DS200TCEAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, COMM. CIRCUITS FOR T	Has age sensitive components	BOARD,GE DS200TCEBG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	PDM, Switch & Fuse Card		BOARD,GE DS200TCPDG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DC INPUT PWR SUPPLY	New no longer available, reman only, Has age sensitive components,	BOARD,GE DS200TCPSG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Analog I/O Card		BOARD,GE DS200TCQAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, (RST) Extended Analog I/O Card	New no longer available, reman only	CARD,EXTENDED MKV (RST)	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, BOARD-(RST) OVERFLOW	New no longer available, reman only	BOARD,GE DS200TCQCG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Relay Output Card		BOARD,GE DS200TCRAG1A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Turbine Trip Card	New no longer available, reman only	BOARD,GE DS200TCTSG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MODULE,AC TO DC		MODULE,AC TO DC	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	(Commissioning Kit) Fuses, Resistors , Diodes, Relays		SPARE KIT,MKV	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Oil Pump	Pump		PUMP,DC LUBE OIL	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Motor	Motor		MOTOR,DC LUBE OIL PUMP	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switches	Switch		SWITCH,PRESS 0-150 PSI	In Stock
Turbine Generator System Stage 1	Hydraulic Fluid System	Fluid Pumps	Pump		PUMP,HYD FLUID POWER UNIT	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Shaft		SHAFT,IR 10 (TYPE 2 ERVH)	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Impeller		IMPELLER,IR 2RVH3DX1-813	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Sleeve		SLEEVE,I RAND 175B135NX1B-204	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Key		KEY,IMPELLER IR 11A9C37	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Motor	Motor		MOTOR,ELECT 20HP 575VAC	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switch 2	Switch		SWITCH,PRESS 0-150 PSI	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Actuator	Bushing		BUSHING,FISH 1E845714012	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Actuator	Diaphragm		DIAPHRAGM,FISH 2E859802202	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Actuator	Repair Kit		ACTUATOR KIT,FISH R667X000502	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Body	Packing		PACKING KIT,FISH RPACKX0011	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Body	Positioner		POSITIONER,FISH DVC6200	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Actuator	Diaphragm		DIAPHRAGM,FISH 2N130902202	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Actuator	Repair Kit		ACTUATOR KIT,FISH R667X000702	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Gasket		GASKET SET,FISH RGASKETX232	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Plug/Stem		PLUG/STEM,FISH 27A3965X052	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Cage		CAGE,FISH 20A3245X092	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Ring		RING,FISH 17A3991X022	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Seat Ring		RING,FISH 20A3260X152	In Stock
Units 1 & 2 Air & Flue Gas	Furnace Pressure TX (Trip)	Pressure Transmitter	Pressure Transmitter		TRANSMITTER,DP -8000-8000KPA	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER 21-1/2"	Non-Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER U1	Non-Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Bearing		BEARING,BALL 23034CCK/C3W33	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Seal		SEAL,HOWDEN 68-01-615	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Coupling		COUPLING,STEELFLEX 1-1/8 S-4	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Air Motor		AIR MOTOR,ING RAND	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Motor		MOTOR,HEATER 1/3HP (XL GEAR)	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Sleeve		SLEEVE,RELIANCE 411629-6A	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Coupling		COUPLING,BORE 3/4X5/8	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Roller assembly		ROLLER,ASSEMBLY	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Stud		STUD,DEW 0282336	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Cage		CAGE,FISH 2U224033272	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Plug/Stem		PLUG ASSY,FISH 1V6575X0052	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Ring		RING,FISH 1U222646172	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Bushing		BUSHING,FISH 1E682814012	In Stock
Units 1 & 2 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	2" Flanged Valve		VALVE,FISH ATOM STEAM	In Stock
Units 1 & 2 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Flanged Valve		VALVE,FISH F.O. TRIP	In Stock
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Repair Kit		PACKING KIT,FISH RPACKX00012	In Stock
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Diaphragm		DIAPHRAGM,FISH 2E670002202	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Pumps	Fuel Oil Pumps	PUMP,IMO C324		PUMP,IMO C324 (COMPLETE)	In Stock
Units 1 & 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	Seal		SEAL,MECHANICAL FUEL C324	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Gasket Set		GASKET SET,FISH RGASKETX312	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Packing		PACKING KIT,FISH RPACKX00012	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Ring		RING,FISH 1U222535072	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Plug/stem		PLUG/STEM,FISH 1U8350X0022	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Cage		CAGE,FISH 2U215033272	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Gasket		GASKET,FISH 10A4154X012	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Ring		RING,FISH 1U222835072	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Diaphragm		DIAPHRAGM,FISH 2N126902202	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Cage	Repair Parts Stocked Ref CN116597	CAGE,FISH 2U231833272	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets		GASKET,FUEL OIL HEATER	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Tube Bundles	Annual Inspection plus online Check. To be ordered as required.	HEATER,FUEL OIL STAGE 1	Non-Stock
Units 1 & 2 Fuel Oil System	Burners	Oil Valve	Oil, Steam & Scavange Valves - All Same		VALVE,BALL 3/4 C/W PNEU	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Cage		CAGE,FISH 42B3570X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Plug/stem		PLUG/STEM,FISH 36A5366X062	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 26A5285X012	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 26A5299X052	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 10A5411X022	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Pin		PIN,FISH 1V334035072	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET,FISH 18A2810X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET,FISH 26A5314X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 10A5410X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Packing		PACKING,FISH 1R290601012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Element Assembly (Volute)	Rebuildable Item If this is not in stock, it is out for rebuild.	ELEMENT ASSY,VOLUTE/ROTATING	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Bushing		BUSHING,BJ 216507LG	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shaft Driven Oil Pump		PUMP,BJ DWG C1F-238	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BJ 612987-EH	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BJ 634599-BG	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shoe		SHOE ASSY,BJ 631163-KD	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Cover		COVER,BJ 308952-SA	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	3000HP Motor, 4160Vac (two styles of motor for Stage I, one each stocked off-site)	Motor stored off site via service contract	SCIM, sin# 1026366788, frame MGP500B, 3000HP, 4160Vac, 60Hz	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Gasket		GASKET,FISH 12B7100X082	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Seal		SEAL,FISH 10A4215X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring		RING,FISH 10A4217X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring		RING,FISH 10A4219X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring		RING,FISH 22B9344X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Plug/Stem		PLUG/STEM,FISH 38A0014X062	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #1 - All HP Heaters	Level Transmitter		TRANSMITTER, DP 0-120" H20	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 - HP Heater # 4 & 6	Level Transmitter		TRANSMITTER, DP 0-120" H20	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 -HP Heater # 5	Level Transmitter		TRANSMITTER, DP 0-120" H20	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 - All HP Heaters	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 - Heater # 4 & 6	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 -HP Heater # 5	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2 - All HP Heaters	Conductivity Probe	Hi-Level Switch	PROBE,CONDUCTIVITY	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 1 & 2 - All HP Heaters	Relay		RELAY,PLUG-IN 12 PIN AC	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2	Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve Limit Switch	Oil Tight Limit Switch		SWITCH,LIMIT AB 802T-B	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve	Packing		PACKING,GRAFOIL 1IDX1-1/2OD	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Gasket		GASKET,HOP 30037592	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spindle		SPINDLE,HOP 44574-011	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT,HOP 35224-508	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stop		STOP,HOP 8 VALVE 24930W	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Belt		BELT ASSY,HOP 44511-001	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 4	8"- 150# Gasket Kit		GASKET,S&K 74S0397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 5	8"- 300# Gasket Kit		GASKET,S&K 74S0397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 6	8"- 600# Gasket Kit		GASKET,S&K 74S0397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter		TRANSMITTER,PRESS 5-800	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" x 1" Valve		VALVE,RELIEF 1/2"110# SE	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Recirculation Valve to DA	4" Valve		VALVE,GATE 4 CS BW 300#	In Stock
Combustion Air & Gas Instruments	Burner Management	Positioner	2.5" x 5 "Pneumatic PowerPositioner (Hagan) In Stock		VALVE ASSY,373218-001	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Coupling		COUPLING,METASTREAM	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Bearing	C. Thangasamy to contact Flowserve for bearing spec.	BEARING,JOURNAL MP 215878E	Non-Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		IMPELLER,MAT PLA 27881-P	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		IMPELLER,MAT PLA 27882-P	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		O-RING,M&P 775C	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		O-RING,MAT PLA 775D	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Cable	Cable		CABLE,BATTERY 1/0	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - speed probes		PROBE,SPEED PICKUP	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switch 1	Switch		SWITCH,PRESS 0-150 PSI	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Positioner		POSITIONER,FISH DVC6200	In Stock
Condenser Air Extraction System	Mechanical Vacuum Pumps	Motor	Motor		MOTOR,ELECT 50HP 575V	In Stock
Generator	Stator	PT Cubicle	Potential Transformer (PT)		TRANSFORMER,GE 765X	In Stock
Generator	Stator	Stand Off Insulators	Stand Off Insulator		BUSHING,HIGH VOLTAGE GE	In Stock
Turbine Generator System Stage 1	Governor	Governor	Truck V-Fast Cables		CABLE SET,FLUID POWER	In Stock
Generator	Stator	Stator and Brush Rigging Assembly	Brush		BRUSH,GENERATOR U1 & U2	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Inboard Bearing Liner		LINER,BEARING 6"	In stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Outboard Bearing Liner		SLEEVE,BEARING 6"	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Bearing Set	U1 West (Dodge)	BEARING SET,SLEEVE 6"	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	200A Power Cell		POWER CELL,SIEMENS 200A	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	1500HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 1026842643, frame MGP500C, 1500HP, 4160Vac, 60Hz	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Panel	400A DC Breaker		BREAKER,DC KD2400F 400A	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Panel	40A DC Breaker		BREAKER,DC HFD2040 40A	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-116	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-114-1	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-111-1	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-107-2	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-107-2	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-107-2	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-107-2A	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-112-2	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Rectifier		RECTIFIER,CIGENT 323-230	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger Cigentic	Charger	Individual replacement components stocked	CHARGER,BATTERY 250VDC	Non-Stock
Circulating Water and Screen Wash System	CW Discharge Valves	Valve	36 ' Butterfly Valve		VALVE,BUTTERFLY 36"	In Stock
Circulating Water and Screen Wash System	CW Discharge Valves	Actuator	CW Butterfly Valve Actuator		ACTUATOR ASSY,ROTORK	In Stock
Circulating Water and Screen Wash System	CW Pumps	Motor	Coils		COILS,STAGE 2 MOTOR	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE,NETWORK INTERFACE	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		RELAY,SD 8501XUDO	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE,PROCESSOR FOXBORO	In Stock
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Transmitter		FLOWMETER,PROMASS 83F40	In Stock
Combustion Air & Gas Instruments	Burner Management	Elevation Air Dampers	Positioner		POSITIONER,FISH DVC6200	In Stock
Condenser Air Extraction System	Vacuum Breakers		6" Flange Vacuum Breaker		VALVE,AIR & VACUUM 6 FLG	In Stock
Generator	Stator	Stator and Brush Rigging Assembly	Brush		BRUSH,GENERATOR U3	In Stock
Generator	Synchronous Condensor	Thrust Bearing	Bearing Pad		PAD,BEARING U3 SYNC COND	In Stock
Generator	Synchronous Condensor	Thrust Bearing	Seal Ring		RING,SEAL U3 SYNC COND	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Generator	Synchronous Condensor	Thrust Bearing	Thrust bearing		BEARING,THRUST U3 SYNC COND	In Stock
Generator	Synchronous Condensor	Thrust Bearing	Thrust bearing		BEARING,THRUST U3 SYNCH COND	In Stock
Generator	Synchronous Condensor	Thrust Bearing	Seal Ring		RING,SEAL U3 SYNCH COND	In Stock
Generator	Synchronous Condensor	Thrust Bearing	Thermocouple		THERMOCOUPLE,U3 SYNCH COND	In Stock
Generator	Seal Oil System	Seals	Bellows		BELLOWS,HITACHI	In Stock
Generator	Seal Oil System	Seals	Gaskets		GASKET,HITACHI	In Stock
Generator	Seal Oil System	Seals	Gaskets		GASKET,HITACHI	In Stock
Generator	Seal Oil System	Seals	Gaskets		GASKET,HITACHI	In Stock
Generator	Exciter	Exciter Control System	Converter		CONVERTER,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	ECT Panel		ECT PANEL,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Controller		CONTROLLER,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Computer		COMPUTER,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Firing Board		BOARD,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Message Module		MODULE,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Input Coupling		INPUT COUPLING UNIT,ABB	In Stock
Generator	Exciter	Exciter Control System	Power Supply		POWER SUPPLY,ABB	In Stock
Generator	Exciter	Exciter Control System	Crowbar		CROWBAR,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Murr		MURR,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Resistor		RESISTOR,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	I/O/ Board		BOARD,ABB COMBINED I/O	In Stock
Generator	Exciter	Exciter Control System	Field Breaker		BREAKER,FIELD ABB E2/E	In Stock
Generator	Stator	Stand Off Insulators	Insulator Bushing		BUSHING,HIGH VOLTAGE HIT	In Stock
Generator	Stator	PT Cubicle	Potential Transformer (PT)		TRANSFORMER,EATON VIZZ	In Stock
Generator	Stator	PT Cubicle	Fuse		FUSE,GE EJO-1-C588L405G1	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1-1/2" Valve		VALVE KIT,JAMES RKB5MT	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Light Oil / Air Supply Solenoid Valve		SOLENOID,ASCO 8342C1	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Purge Solenoid Valve		SOLENOID,ASCO 8262G232	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Pneumatic Actuator		ACTUATOR,PNEU R16C	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Ignition Transformer		XFMR,IGNITION 120V 60C	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Relay		BOX,IGNITOR C/W CABLES N-6	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Sunspot - Scanner		SCANNER,FOSSIL 9100-1000	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	Snap Action Switch		MICROSWITCH,16CX12-D01	In Stock
Ignitor Light Oil and Air Supply		Igniter Control Box	1/4" Light Oil Air Ball Valves		VALVE,BALL 1/4" U3 IGNITOR	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitter LP Heater #1		TRANSMITTER,LEVEL	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Relay		RELAY,OMRON MM4XP-DC125	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe		PROBE,CONDUCTIVITY	In Stock
L.P. Feedwater System	Deaerator System	Deaerator	Gauge Glasses		GAUGE,GLASS 3/4X48	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Switch		SWITCH ASSY,MAG 89-7401-052	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Solenoid		SOLENOID,ASCO 8320G184M0	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter		TRANSMITTER, DP 0-120" H20	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Repair Kit		VALVE KIT,BALL 8"	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Repair Kit		ACTUATOR KIT,WORCH C-38	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Valve		VALVE,FISH 8560-1052-36105	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Disc		DISC,FISH 75B1036X102	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Pin		PIN,FISH 75B1122X052	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Pin		PIN,FISH G13725K0022	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Ring		RING,FISH 75B0311X032	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Shaft		SHAFT,FISH 75B0014X012	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Spring		SPRING,FISH 75B0012X012	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Packing		PACKING,FISH 12A8951X022	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Bearing		BEARING,FISH 75B1076X012	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #2 LP Heater	20" Dia		GASKET,COVER HIT	On Order
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	24" Dia		GASKET,COVER HIT	On Order
L.P. Feedwater System	Deaerator System	NRV Valves (2)	14" Dia on DA		GASKET COVER HIT	In Stock
L.P. Feedwater System	Deaerator System	Safety Valves	Disc		DISC,VALVE SAFETY RELIEF	In Stock
L.P. Feedwater System	Polisher Bypass Valve		Parts to Repair		VALVE,FISH 8560-1052-36105	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Valve Kit		VALVE KIT,BALL 3	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator Kit		ACTUATOR KIT,WORCH D-38	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Valve Kit		VALVE KIT,BALL 2	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator Kit		ACTUATOR KIT,WORCH C-38	In Stock
Main Steam & Reheat Steam; Turbine Drains	Vacuum Unloading Device		Bellows		BELLOW ASSY,HIT L1000-1	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	400A DC Breaker		BREAKER,DC KD2400F 400A	In Stock
Powerhouse and Switchyard Single Line	258V DC System		40A DC Breaker		BREAKER,DC HFD2040 40A	In Stock
Turbine Generator System Stage 2	Governor	Governor	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Sleeve		SLEEVE,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Trunnion		TRUNNION,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Pin		SPLIT PIN,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Bearing	Parts common to AC Pump	BEARING,PLANE HIT ITEM 35	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Bearing	Parts common to AC Pump	BEARING,PLANE HIT ITEM 36	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Auto Start Pressure Switch		SWITCH,PRESS 10-300 TYPE ACW2	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEALRING,10P-067-551-17	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEALRING,10P-067-551-18	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-13	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-17	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-18	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Brush		BRUSH,HIT 10P 067-551-38	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Bearing		BEARING,PLANE HIT ITEM 35	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Bearing		BEARING,PLANE HIT ITEM 36	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Motor		MOTOR,AUX OIL YELLOW	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Seat		SEAT,10P-061-226-123	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,10P-061-226-207	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING,10P-061-226-208	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING,10P-061-226-209	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,HIT 10P-061-226/16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,HIT 10P-061-226/98	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Bushing		BUSHING,HIT T-9201	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228-125	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Crosshead		CROSSHEAD,HIT 10P0612283	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228/98	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228/16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,STL #16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,HIT 10P-038-197-16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,HIT 10P-038-197-71	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Bushing		BUSHING,10P-038-197/15	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Seal Ring		SEAL RING,10P-038-197/14	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Bushing		BUSHING,HIT 10P-038-197/18	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P0611582	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P0611586	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P06115814	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Rivet		RIVET,HIT 10P-061-158-63	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Stem		STEM,HIT 10P061158/7	In Stock
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Pin		PIN,HIT 10P06115872	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Pressure Transmitter - Unit 3		TRANSMITTER,PRESS 0-200	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	2" Valve	Bushing		BUSHING,FISH 1E845714012	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Actuator	Diaphragm		DIAPHRAGM,FISH 2E859602202	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Actuator	Actuator repair kit		ACTUATOR KIT,FISH R667X000502	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Body	Packing Kit		PACKING KIT,FISH RPACKX0011	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Positioner	Positioner		POSITIONER,FISH DVC6200	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Turbine Generator System Stage 2	Steam Seal Regulator	Auxiliary Steam Control Valve - actuator	Aux Steam Control Valve - Actuator - Unit 3		ACTUATOR KIT,FISH R470X000032	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Aux Steam Control Valve - Body - Unit 3		BODY,VALVE FISH 3N192029022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Dump Control Valve - Actuator - Repair Kit - Unit 3		ACTUATOR KIT,FISHER R667	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Ring		RING,FISH 17A3990X022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Ring		RING,FISH 1U508039102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Pin		PIN,FISH 1V326035072	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Cage		CAGE,FISH 2U505939102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Plug		PLUG,FISH 27A3953X012	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Series 8500 size 95 w/ 95" @ 100% width wheel	Thrust Plate		THRUST PLATE KIT,DODGE 132221	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Drive Motor	Formed Coils		COIL,WINDING U3 FD FAN	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Liner		LINER ASSY,DODGE 132423	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Collar		COLLAR,DODGE 132154	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Opposite side bearing		LINER ASSY,DODGE 132951	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	2 - Temperature probes installed in bearings		THERMOCOUPLE,TYPE T	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Falk Steelflex coupling		COUPLING,STEEFLFLEX GRID	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	2 - Independent bearing pedestals	Gasket		GASKET,DODGE 132170	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER,STOCKBRIDGE 0.866"	Non-Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER,STOCKBRIDGE 1.004"	Non-Stock
Unit 3 Air & Flue Gas	F.D. Fans	variable inlet vanes	Actuator Repair Kit		DRIVE KIT,BAILEY 532694C1	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	variable inlet vanes	Actuator repair kit		DRIVE KIT,BAILEY 256111A0	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Gearbox	Gearbox		GEARBOX,AIR HEATER U3	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor		AIR MOTOR,ING RAND	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER 22-1/2"	Non-Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,HOT END 22-1/2"	Non-Stock
Unit 3 Air & Flue Gas	O2 Analyzers		Probe - In Stock		PROBE,OXYGEN ANALYZER	In Stock
Unit 3 Air & Flue Gas	O2 Analyzers		Analyser		ANALYZER,ROSE 3000 OXY	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Gasket		GASKET SET,FISH RGASKETX362	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Packing		PACKING KIT,FISH RPACKX0002	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Actuator		ACTUATOR KIT,FISH R667X000502	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Regulator		REGULATOR KIT,FISH WR67AFRX011	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Bushing		BUSHING,FISH 1E845714012	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Diaphragm		DIAPHRAGM,FISH 2E859802202	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	Cage		CAGE,FISH 2U236033272	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Ring		RING,FISH 1U217305092	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Seat		SEAT,FISH 1U222046172	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Plug/Stem		PLUG/STEM,FISH 1V6571X0042	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Cage		CAGE,FISH 2U215333272	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Gasket		GASKET SET,FISH RGASKETX242	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Packing		PACKING KIT,FISH RPACKX00012	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Bushing		BUSHING,FISH 1E682814012	In Stock
Unit 3 Fuel Oil System		Combustion Control Valves	Diaphragm		DIAPHRAGM,FISH 2E669902202	In Stock
Unit 3 Fuel Oil System		Atomizing Steam Valve	Cage		CAGE,FISH 2U223733272	In Stock
Unit 3 Fuel Oil System		Atomizing Steam Valve	Ring		RING,FISH 1U222646172	In Stock
Unit 3 Fuel Oil System		Atomizing Steam Valve	Plug/Stem		PLUG ASSY,FISH 1V6575X0052	In Stock
Unit 3 Fuel Oil System		Atomizing Steam Valve	Packing		PACKING KIT,FISH RPACKX0002	In Stock
Unit 3 Fuel Oil System		Atomizing Steam Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit 3 Fuel Oil System		Atomizing Steam Valve	Diaphragm		DIAPHRAGM,FISH 2E670002202	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Packing		PACKING KIT,FISH RPACKX0002	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Bushing		BUSHING,FISH 1E682814012	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Retainer		RETAINER,FISH 1V710935072	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Disc		DISC,FISH 1V711006242	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Seat		SEAT,FISH 1V711135072	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Diaphragm		DIAPHRAGM,FISH 2E669902202	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	Cage		CAGE,FISH 2U227633272	In Stock
Unit 3 Fuel Oil System		Header Pressure Control Valve	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock
Unit 3 Fuel Oil System		Header Pressure Control Valve	Bushing		BUSHING,FISH 1E682814012	In Stock
Unit 3 Fuel Oil System		Header Pressure Control Valve	Diaphragm		DIAPHRAGM,FISH 2E669902202	In Stock
Unit 3 Fuel Oil System		Fuel Oil Pumps	Pump		PUMP,MAIN FUEL OIL KRAL	In Stock
Unit 3 Fuel Oil System		Main Fuel Oil Recirculation Valve	1" Welded Flange Valve w/ Actuator		VALVE ASSY,JAMES 1052 1"	In Stock
Unit 3 Fuel Oil System		Level Fuel Oil Recirculation Valves	3/4" Welded Valve w/ Actuator		VALVE ASSY,JAMES 1052 3/4"	In Stock
Unit 3 Fuel Oil System	Burners	Oil Valve	1/2"Ball Valve		VALVE KIT,JAMES RKB5MT	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Packing		PACKING KIT,FISH RPACKX00012	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Ring		RING,FISH 1U222546172	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Cage		CAGE,FISH 2U215033272	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Packing		PACKING KIT,FISH RPACKX00012	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Ring		RING,FISH 1U222546172	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Cage		CAGE,FISH 2U215033272	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Rotating Assembly		CASE ASSY,BWL (INNER)	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Shoe Assembly		SHOE ASSY,KI-00166-A-3740	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Throttle bushing  (2 req'd)		BUSHING,BWL 3106181	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Bearing		BEARING,HIT 9-60-1	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Bearing		BEARING,HIT 9-60-2	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Balance bushing		BUSHING,BWL 3106181	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Thrust bearing		BEARING ASSY,THRUST JHJ-5	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Gaskets		GASKET,BWL T-101204IG	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	2350HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 1026842642, frame MGP450D, 2350HP, 4160Vac, 60Hz	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve 1500lb - Welded		DIAPHRAGM,FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 10A5411X022 - Seal Ring		RING,FISH 10A5411X022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 13A5599X052 - O-Ring		O-RING,FISH 13A5599X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 26A52990X52 - Seat Ring Retainer		RING,FISH 26A5299X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 27A2798X042 - Seat Ring, O-Ring		RING,FISH 27A2798X042	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 42B3570X012 - Cage, Eq%		CAGE,FISH 42B3570X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 36A5366X062 - Plug/Stem Bal		PLUG/STEM,FISH 36A5366X062	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	2 - 26A5314X012 - Gasket		GASKET,FISH 26A5314X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1J872906332 - Upper Wiper		WIPER,FISH 1J872906332	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1J873435072 - Packing Box Ring		RING,FISH 1J873435072	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1R290601012 - Packing Set		PACKING,FISH 1R290601012	In Stock

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Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1H7441X0022 - Bushing Seal		SEAL,FISH 1H7441X0022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 2R6376X0082 - Diaphragm		DIAPHRAGM,FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - R667X000802 - Repair Kit		ACTUATOR KIT,FISHER R667	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	All HP Heaters	Conductivity Probe		PROBE,CONDUCTIVITY	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Module		PROBE,AQUARIAN	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Level Transmitter		TRANSMITTER, DP 0-120" H20	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Relay		RELAY,OMRON MM4XP-DC125	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Bushing		BUSHING,DEW 0800109	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Clip		CLIP,DEW 0540097	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING,DEW 0760093	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING,DEW 668215DEW	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Screw		SCREW,DEW 0440024	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spacer		SPACER,DEW 0660065	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spring		SPRING,DEW 6580312 (3/SET)	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stem		STEM,DEW 0040851	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0282351	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0280514	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Packing		PACKING,DEW 6442946	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT,DEW P71ER250	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #6 HP Heater	6" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #5 HP Heater	8" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #4 HP Heater	10" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280443	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280513	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Disc		DISC,DEW 051095	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING,DEW 0760072	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING,DEW 2004920	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0440024	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW #2003863	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW 2000006	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,KEYSTONE 903-735	In Stock
Unit 3 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Transmitter		TRANSMITTER,PRESS 5-800	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Cage		CAGE ASSY,FISH 22A3525X022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Packing		PACKING,FISH 1R290601012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Plug/Stem		PLUG/STEM,FISH 22A3527X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4155X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4154X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 10A4210X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 12A3529X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 11A3306X012	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" Dia		VALVE,RELIEF 1/2"110# SE	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Body		BODY,VALVE MASON 37-79264	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Ring		RING KIT,MASON 01148734399	On Order
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Gasket		GASKET,MASON 356154-152-825	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seal		SEAL,MASON 354810-034-779	In Stock

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Critical Spares  
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Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Retainer		RETAINER,MASON 358754-000-163	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seal		SEAL,MASON 358753-000-210	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Pin		PIN,MASON 971342-023-250	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Stem		STEM,MASON 358738-113-210	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Plug		PLUG,MASON 011509-398206	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seat		SEAT,MASON 358748-000-596	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Liner		LINER,MASON 359005-000-213	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Diaphragm		DIAPHRAGM,MASON 010275-040-77	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Stem		STEM,MASON 770354-027-152	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC E1 - breaker C4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC C12 - breaker C7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - breaker C14	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - breaker C15	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C3	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C8	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C9	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C10	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C11	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C12	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C13	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C16	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C17	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC - breaker C18	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C19	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)			SSB-3 Relay	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)			Feeder to transformer ATC - breaker SSB-3		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB12 (SSB1)			SSB-4 Relay	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)			SSB-4 Relay	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)			Feeder to Station Board - breaker SSB-2		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB12 (SSB1)			Feeder to Station Board - breaker SSB-4		BREAKER,EATON 4160V 2000A	In Stock

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Critical Spares  
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Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Boiler Area MCC BAB3 - breaker SDB-34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	GPB34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	AC34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	CWP34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	LDP34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WTP34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Diesel Bus DB34 - Breaker DB34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Diesel Bus - D2	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Diesel Bus - DBT	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)			breaker ST34 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			breaker ST34 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			breaker TB12 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			breaker TB12 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			breaker SAT34 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			breaker SAT34 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB34 (ST34)			Feeder to Station Board - breaker ST34 & relays		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB34 (ST34)			Feeder to Station Board - breaker TB12 & relays		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		Circuit Breaker TB3		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB34 (ST34)			breaker PSM3 & relay		BREAKER,EATON 4160V 1200A	In Stock
Station Board SB34 (ST34)			breaker TB12 relays		SYNCHROTECT,SYN5201	In Stock
Station Board SB34 (ST34)			breaker TB12 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			Circuit Breaker UB1-1	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay		SYNCHROTECT,SYN5201	In Stock
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			Circuit Breaker UB2-12	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay		SYNCHROTECT,SYN5201	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Feeder to Power Centre A - A1	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Feeder to Power Centre A - A9	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Feeder to transformer LT-A - breaker A3	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Feeder to MCC A1 - breaker A4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB1 (UB1-2)			UB1-4 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB1 (UB1-2)			UB1-9 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB1 (UB1-2)			UB1-11 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-2	In Stock
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-1	In Stock
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMS-1	In Stock
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMH-2	In Stock
Unit Board UB1 (UB1-2)			UB1-3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB1 (UB1-2)			UB1-3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB1 (UB1-2)			Feeder to Unit Board UB1 - breaker UB1-2		BREAKER,EATON 4160V 2000A	In Stock
Unit Board UB1 (UB1-2)			Feeder to transformer ATA - breaker UB1-3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-4		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-5		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-6		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-7		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-8		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-9		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-10		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			breaker UB1-11		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Feeder to Power Centre B - breaker B1	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Feeder to transformer LT-B breaker B4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Feeder to MCC B1 - breaker B5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	B2	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	B6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	B7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	B8	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Unit Board UB2 (UB2-1)			UB2-3 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-4 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-9 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-10 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-2	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-1	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMS-1	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMH-2	In Stock
Unit Board UB2 (UB2-1)			UB2-2 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB2 (UB2-1)			UB2-2 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB2 (UB2-1)			Feeder to Unit Board - breaker UB2-1 & relays	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock
Unit Board UB2 (UB2-1)			Feeder to Transformer ATB, breaker UB2-2		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-4		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-5		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-6		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-7		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-8		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-9		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-10		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Spares spare with CGE IAC51 and ICA53 devices	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Spares spare with CGE IAC51 and ICA53 devices	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Feeder to Aux Board - breaker UAB-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Feeder to transformer LDP-3 - breaker LDP-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Feeder to MCC BAB3 - breaker BAB-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	AOP3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	TAB3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	AC12	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Tie Breaker to Station Board - breaker ATB3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB3 (UT3)			Feeder to Unit Board - breaker UT3	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock
Unit Board UB3 (UT3)			Feeder to transformer UAT3 - breaker UAT3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFE3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFW3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDE3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDW3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CEN3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CES3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWE3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWW3		BREAKER,EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			UT3 relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB12 (SSB1)			SSB-3 Relay	Replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays		RELAY,PROTECTION SEL701	In Stock
Station Board SB12 (SSB1)			Feeder to Station Board - breaker SSB-1 & Relays		BREAKER,EATON 4160V 2000A	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay		SYNCHROTECT,SYN5201	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMA-2	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMA-1	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMS-1	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMH-2	In Stock
Station Board SB34 (ST34)			breaker PSM3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB1 (UB1-2)			UB1-5 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB1 (UB1-2)			UB1-6 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB1 (UB1-2)			UB1-7 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB1 (UB1-2)			UB1-8 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB1 (UB1-2)			UB1-10 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB2 (UB2-1)			UB2-5 relay		RELAY,PROTECTION SEL701	In Stock
Unit Board UB2 (UB2-1)			UB2-6 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB2 (UB2-1)			UB2-7 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB2 (UB2-1)			UB2-8 relay		RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			BFE3 relay	n/a	RELAY,PROTECTION SEL701	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



Critical Spares  
Thermal Generation

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit Board UB3 (UT3)			BFW3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			FDE3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			FDW3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			CEN3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			CES3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			CWE3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			CWW3 relay	n/a	RELAY,PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	n/a	RELAY,PROTECTION SEL701	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - breaker C1		BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC C1 - breaker C2	Purchasing re-build kit/critical spares kit for AK-2-25 frame breaker	BREAKER,EATON 600V	In Stock
Station Board SB34 (ST34)			Feeder to transformer SAT34 - breaker SAT34 & relays		BREAKER,EATON 4160V 1200A	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - breaker SAB34	Purchasing re-build kit/critical spares kit for 65H frame breaker	BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - breaker ATB12		BREAKER,SCHNEIDER 600V	In Stock
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WAM34		BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock

NOTE: Under the Inventory Status column "Non-Stock" includes both "NON-STOCK" parts and parts that are currently "OUT OF STOCK". See Notes column for details.



## **Appendix F**

Critical Spares Status Listing – Gas Turbine Generation





Critical Spares  
Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
Detector, Thermal	Turbine Exhaust Tunnel - Thermal Detector, Kidde-Fenwal:12-H27121-020-08	Provided under service contract	0	TBD	
Alarm, Trouble	Fire Control Panel Trouble Alarm to DCS, DET-TRONICS:U9500A	Provided Under Service Contract	0	TBD	
Alarm, Panel Discharge	Fire Control Panel Discharge - Alarm to DCS, Notifier: AFP-300	Provided Under Service Contract	0	TBD	
Module, ControlNet	Combination Generator Control Module with ControlNet communication	On Hand - under parts management agreement	1		
IFM, Analog, 16 channel	Fusible 16 Channel Analog IFM, 24V Blown Fuse Indicators, 5 Terminals per Input, Analog Interface Module	On Hand - under parts management agreement	1		
IFM, analog, 8 channel	Feed-Through 8 Channel Analog IFM, 3 Terminals per Input, Analog Interface Module	On Hand - under parts management agreement	1		
IFM, digital, 40 point	40-Point Isolated Fusible Digital IFM, 5 x 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, 4 Terminals per Input, Digital Interface Module	On Hand - under parts management agreement	1		
Module, relay expander	Relay Expander Module, 24V DC, 16 Relays with Fusing	On Hand - under parts management agreement	1		
10 Slot ControlLogix Chassis	10 Slot ControlLogix Chassis	On Hand - under parts management agreement	1		
4 Slot ControlLogix Chassis	4 Slot ControlLogix Chassis	On Hand - under parts management agreement	1		
Module, ControlNet interface	ControlNet Interface Module (100 connections)	On Hand - under parts management agreement	1		
Module, ControlNet redundant	ControlNet Redundant Interface Module (100 connections)	On Hand - under parts management agreement	1		
Module, ControlNet bridge	ControlNet Redundant Bridge Module (40-48 connections)	On Hand - under parts management agreement	1		
EtherNet 10-100M Interface Module (supports 128 TCP/IP connections)	EtherNet 10-100M Interface Module (supports 128 TCP/IP connections)	On Hand - under parts management agreement	1		
EtherNet 10-100M Interface Module (supports 64 TCP/IP connections)	EtherNet 10-100M Interface Module (supports 64 TCP/IP connections)	On Hand - under parts management agreement	1		
10-30 VDC Isolated Input 16 Pts (36 Pin)	10-30 VDC Isolated Input 16 Pts (36 Pin)	On Hand - under parts management agreement	1		
10-30 VDC Individually Isolated Input 16 Pts (36 Pin)	10-30 VDC Individually Isolated Input 16 Pts (36 Pin)	On Hand - under parts management agreement	1		
Analog Input - Current/Voltage 16 Pts (36 Pin)	Analog Input - Current/Voltage 16 Pts (36 Pin)	On Hand - under parts management agreement	1		
Controller, controlLogix 5570, 2MB	ControlLogix 5570 Controller with 2 MB Memory, USB Port, 4 Character Alpha/Numeric Display.	On Hand - under parts management agreement	1		
Controller, ControlLogix 5570, 4MB	ControlLogix 5570 Controller with 4 MB Memory, USB Port, 4 Character Alpha/Numeric Display.	On Hand - under parts management agreement	1		
10-31 VDC Output 32 Pts (36 Pin)	10-31 VDC Output 32 Pts (36 Pin)	On Hand - under parts management agreement	1		
10-31 VDC Output 32 Pts (36 Pin)	10-31 VDC Output 32 Pts (36 Pin)	On Hand - under parts management agreement	1		
Analog Output - Current/Voltage 8 Pts (20 Pin)	Analog Output - Current/Voltage 8 Pts (20 Pin)	On Hand - under parts management agreement	1		
Power supply, 85-265VAC, 10 AMP	ControlLogix, 85-265 VAC Power Supply (10 Amp @ 5V)	On Hand - under parts management agreement	1		
Power supply, 85-265VAC, 13 AMP	ControlLogix, 85-265 VAC Power Supply (13 Amp @ 5V)	On Hand - under parts management agreement	1		
Redundancy Module	Redundancy Module	On Hand - under parts management agreement	1		
ControlLogix Position and Time Services	ControlLogix Position and Time Services	On Hand - under parts management agreement	1		
Ethernet Switch, Stratix 5700	Stratix 5700 Switch, Managed, 16 Fast Ethernet Copper Ports, 2 Fast Ethernet Combo Ports, 2 Fast Ethernet Fiber SFP Slots, Lite Software, DLR	On Hand - under parts management agreement	1		
Module, ControlNet Repeater adapter	Networks and Communication Products, ControlNet Repeater Adapter Module	On Hand - under parts management agreement	1		
Module, long distance fiber ring repeater	Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - under parts management agreement	1		
Module, long distance fiber ring repeater	Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - under parts management agreement	1		
Networks and Communication Products, Right-angle T-tap	Networks and Communication Products, Right-angle T-tap	On Hand - under parts management agreement	1		
Networks and Communication Products, Right-angle Y-tap	Networks and Communication Products, Right-angle Y-tap	On Hand - under parts management agreement	1		
module, adapter, 1794 ControlNet flex I/O	1794 Flex, Flex Ex, Flex XT I/O System, ControlNet FLEX I/O Adapter Module	On Hand - under parts management agreement	1		
Module, Input, Flex XT I/O system, 16 inputs	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 16 Sink Inputs	On Hand - under parts management agreement	1		
Module, Input, Flex XT I/O system, 32 inputs	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 32 Sink Inputs	On Hand - under parts management agreement	1		
Module, analog input, flex xt I/O, 8 inputs	1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs	On Hand - under parts management agreement	1		
Module, analog input, flex xt I/O, 8 inputs	1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs	On Hand - under parts management agreement	1		
Module, analog, 16 bit, 4 point isolated	1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Module, 16 Bit, 4 Point Isolated	On Hand - under parts management agreement	1		
Module, input, 2 channel hi res freq	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 2-Channel High Resolution Frequency	On Hand - under parts management agreement	1		
Module, input, 8 point RTD	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 8 Point RTD	On Hand - under parts management agreement	1		
Module, input, non-isolated, thermocouple, RTD, mV	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Non-Isolated, Thermocouple / RTD / Mv	On Hand - under parts management agreement	1		
Module, input, thermocouple, 8 point	1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Thermocouple, 8 Point	On Hand - under parts management agreement	1		



## Critical Spares Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
Module, output, 24V DC, 32 outputs	1794 Flex, Flex Ex, Flex XT I/O System, Output Module, 24V DC, 16 Source Outputs	On Hand - under parts management agreement	1		
Module, output, 24V DC, 32 outputs, protected	1794 Flex, Flex Ex, Flex XT I/O System, Output Module, 24V DC, 32 Source (2 groups of 16 ) Outputs, Protected	On Hand - under parts management agreement	1		
module, analog output, 16bit, 4 point isolated	1794 Flex, Flex Ex, Flex XT I/O System, Analog Output Module, 16 Bit, 4 Point Isolated	On Hand - under parts management agreement	1		
Module, I/O	PF750-24V I/O Module-2AI,2AO,6DI,2RO	On Hand - under parts management agreement	1		
Adapter, comms, devicenet	PowerFlex Architecture Class DeviceNet Communication Adapter	On Hand - under parts management agreement	1		
Terminal, AC Input, DC terminals	PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type, 14 Amps, 10HP ND, 7.5HP HD, 480 VAC, 3 PH, Frame 2, Filtered, CM Jumper Removed, DB Transistor, Blank (No	On Hand - under parts management agreement	1		
Architecture, powerflex	PowerFlex Architecture Class Remote Enhanced HIM, IP66 (NEMA 4X/12) Indoor Use Only. Includes 1202-C30 cable.	On Hand - under parts management agreement	1		
Display, 15in TFT, keypad/touch	PanelView Plus Display Keypad/Touch, 15-inch TFT Display, Color, No Options	On Hand - under parts management agreement	1		
Display, touch screen, 12.1inch	PanelView Plus Display Touch Screen, 12.1-inch TFT Display, None, High Bright	On Hand - under parts management agreement	1		
Module, comms, panelview plus CE	ControlNet Scheduled and Unscheduled Communication Module for Marine Certified PanelView Plus 700-1500 and PanelView Plus CE	On Hand - under parts management agreement	1		
Module, logic, panelview plus 6	PanelView Plus 6 Logic Module, Windows CE 6.0, 80 MB Non Volatile storage for applications, DC Power Input, No Options	On Hand - under parts management agreement	1		
Relay, overload, 1.0-5.0A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 1.0-5.0A, NEMA 2	On Hand - under parts management agreement	1		
Relay, overload, 3-15A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 3-15A, NEMA 2	On Hand - under parts management agreement	1		
Relay, overload, 5-25A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 5-25A, NEMA 2	On Hand - under parts management agreement	1		
Relay, overload, 9-45A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 9-45A, NEMA 2	On Hand - under parts management agreement	1		
Relay, overload, 9-45A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 9-45A, NEMA 3	On Hand - under parts management agreement	1		
Relay, overload, 18-90A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 18-90A, NEMA 3	On Hand - under parts management agreement	1		
Relay, overload, 0.4-2.0A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 0.4-2.0A, NEMA 00	On Hand - under parts management agreement	1		
Relay, overload, 60-302A	592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 60-302A, NEMA 5	On Hand - under parts management agreement	1		
Module, ethernet server comms, DNP3	ProSoft Technology DNP 3.0 Ethernet Server Communication Module	On Hand - under parts management agreement	1		
Module, comm modbus master/slave	ProSoft Technology Modbus Master/Slave Enhanced Communication Module	On Hand - under parts management agreement	1		
Repair Kit, Solenoid	PURGE SOLENOID REPAIR KIT, SURESITE:3153515	In Stock	2	TBD	
Switch, Temperature	BARKESDALE HEATER CONTROL TEMPERATURE SWITCH, MODEL # T1X-S154-A, STAINLESS STEEL	In Stock	3	TBD	
Valve, Shutdown Purge	1", QS0065-4 DXP-L21GNEB JBHC8327G041-125VDC	In Stock	1	TBD	
Valve, Continuous Purge	3", QS0600-4 DXP-L21GNEB EFHC8321G1	In Stock	1	TBD	
Fuse, Low Voltage DC	REPLACEMENT FUSE (LOW VOLTAGE DC PIM), BENTLY NEVADA: 1720045	In Stock	1	TBD	
Module, DC Power Supply	HIGH VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:129486-01	In Stock	1	TBD	
Module, Power Supply	LOW VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:133292-01	In Stock	1	TBD	
Module, Power Input	LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA:133300-01	In Stock	1	TBD	
MANUAL, POWER SUPPLY MODULE	POWER SUPPLY MODULE, MANUAL, BENTLY NEVADA:129767-01	In Stock	1	TBD	
TRANSDUCER, 55A CURRENT	E-CELL 55A CURRENT TRANSDUCER, PHOENIX CONTACT:3062518	In Stock	2	TBD	
CONTACTOR, E-CELL 32A	E-CELL 32A CONTACTOR, GENERAL ELECTRIC:3060877	In Stock	2	TBD	
HEATER, 400W PANEL	PANEL HEATER 120V 60HZ 400W, PH40011	In Stock	1	N/A	
BELT, POLYBAND	BELT, 1320-BLT-B-EHX07-1250 3R 5VX1250, POLYBAND DODGE OR EQUAL	In Stock	6	N/A	
COUPLING, FISHER	COUPLING, FISHER:17A8307X012	In Stock	1	N/A	
IGNITER, SPARK PLUG	SOLAR SPARK PLUG IGNITER, CENTAUR:903316C1	In Stock	2	N/A	
BELT, V	INGERSOLL RAND 95100178	In Stock	6	N/A	
SHAFT, FISHER	SHAFT, FISHER:7000400800	In Stock	1	N/A	
PUMP, CONVERTER CHARGING	TORQUE CONVERTER CHARGING PUMP, KOENIG:X216228-J	In Stock	1	N/A	
REPAIR KIT, SSS CLUTCH MINOR	KOENIG:SL17998MNKT	In Stock	1	N/A	
VALVE, CHECK 3"	3MB60-6047-WR	In Stock	1	N/A	
VALVE, SS POPPET CHECK	SS POPPET CHECK VALVE, SWAGELOCK:SS-6C-1	In Stock	1	N/A	

Critical Spares  
Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
VALVE, FUEL CHECK	FUEL LINE CHECK VALVE, PARKER:10A-CBG8L-10-PF-SS, VOGT:SW9871T,	In Stock	3	N/A	
VALVE, CHECK	CHECK VALVE, SUN HYDRAULICS:CXDA-XAN	In Stock	1	N/A	
VALVE, SOLENOID	SOLENOID VALVE, SUN HYDRAULICS:DLDA-MCN	In Stock	1	N/A	
VALVE, FUEL BYPASS	MANUFACTURER:FISHER, MODEL:1008 HANDWHEEL ACTUATOR W/LOCKING MECHANISM, SIZE 40, TRAVEL LENGHT:3/4", CAPABLE OF GIVING PRECISE MANUAL - THROTTLING CONTROL, TRAVEL INDICTATOR MOUNTED ON ACTUATOR - YOKE FOR VISUAL VALVE PLUG POSITION	In Stock	1	N/A	
REPAIR KIT, BYPASS VALVE	REPAIR KIT FOR FUEL START-UP BYPASS VALVE, MANUFACTURER:FISHER, MODEL:EZ, SIZE:1", TRIM:1/4" M-FORM, USED FOR THROTTLING ON-OFF CONTROL OF LIQUID OR GASES, SINGLE PORT, GLOBE-STYLE BODY FOR - QUICK CHANGE TRIM & POST GUIDED UNBALANCED VALVE PLUG	In Stock	3	N/A	
VALVE, PUMP DISCHARGE	PUMP DISCHARGE PRESSURE REGULATING VALVE, MOOG/FISHER:ET-657-DVC-6200, SERIAL # F000642304, TYPE:ET CAV 111, SIZE 1-1/2, PORT SIZE:1-5/16, RATING:CL600/1500 PSI CWP, PLUG:SST, STEM:SST, BODY:STL, SEAT:SST	In Stock	1	N/A	
VALVE, PRESSURE RELIEF	HYDRAULIC FLUID PRESS RELIEF VALVE, REXROTH:R900341066	In Stock	1	N/A	
VALVE, PRESSURE RELIEF	PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900420276	In Stock	1	N/A	
VALVE, PRESSURE RELIEF	VALVE MANIFOLD PRESSURE RELIEF VALVE, REXROTH:R900423723	In Stock	1	N/A	
VALVE, PRESSURE RELIEF	MAIN PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900424147	In Stock	1	N/A	
VALVE, PRESSURE CONTROL	PRESSURE CONTROL VALVE, SUN HYDRAULICS:RDBA-LAN	In Stock	1	N/A	
VALVE, SOLENOID	MECHANICAL PACKAGE LOUVER - SOLENOID VALVE, ASCO:WPKP8320A89MS	In Stock	1	N/A	
VALVE, SOLENOID	SOLENOID VALVE, TYCO: 52-287-10-024	In Stock	2	N/A	
VALVE, SOLENOID	AIR CONTROL SOLENOID VALVE, 24VDC MINI, INGERSOLL RAND 633658	In Stock	1	N/A	
VALVE, STOP	FISHER 3", 560iit-TH66 QS1600-4 DXP-L21GNEB	In Stock	1	N/A	
FILTER, WATER	CLARK RELIANCE 2500PW	In Stock	28	N/A	
ANALYZER, DEW POINT	INST AIR DEW POINT ANALYZER, MICHELL INSTRUMENTS:EA-XP-TX-EX1-C1-D1-E2-F1-G1-H1	In Stock	1	N/A	
RACK & PINION, PNEUMATIC	ACTUATOR, TYPE PNEUMATIC RACK & PINION, FLOWSERVE:20E39SWZ24D	In Stock	1	N/A	
VALVE, AIR INLET	ATOMIZING AIR RECEIVER INLET VALVE, WORCESTER:5166TT150	In Stock	1	N/A	
VALVE, AUTOMATIC DRAIN	MODEL AD-1 AUTOMATIC DRAIN VALVE, TYCO:52-793-2-004	In Stock	2	N/A	
VALVE, AUTO SHUT-OFF	MODEL ASV-1 AUTOMATIC - SHUT-OFF VALVE, TYCO:92-343-1-021	In Stock	2	N/A	
THERMOCOUPLE, TEMPERATURE	COMBUSTOR SHELL DISCHARGE - TEMPERATURE THERMOCOUPLE DUPLEX TYPE K	In Stock	2	N/A	
VALVE, AIR FILTER DRAIN	COOLING AIR FILTER BLEED DRAIN VALVE, 1", WORCHESTER:B4446 XG SW	In Stock	1	N/A	
COIL, OVERSPEED TRIP	ELECTRONIC OVERSPEED TRIP, 9501W38	In Stock	1	N/A	
COIL, MAGNETIC SPEED PICK-UP	TORQUE CONVERTER MAGNETIC SPEED PICK-UP COIL, KOENIG:9501W14	In Stock	1	N/A	
VALVE, NEEDLE	1 SERIES NEEDLE VALVE, SWAGELOCK:B-1VM4-S4/SS-1VM4-S4	In Stock	1	N/A	
VALVE, FEMALE NEEDLE	FEMALE NEEDLE VALVE, MCMASTER CARR:4644K33, 3/8"NPT	In Stock	2	N/A	
VALVE, 6Z-PR4-BNT-SS	PARKER VALVE, MODEL# 6Z-PR4-BNT-SS	In Stock	1	N/A	
VALVE, GLOBE	GLOBE VALVE, STEEL, VOGT:SW9871T, LUBE OIL FILTER TOWER #1 VENT VALVE	In Stock	2	N/A	
INDICTATOR, SIGHT	1-1/2", JACOBY:100-S(NF)	In Stock	1	N/A	
VALVE ASSY, PILOT	PILOT VALVE ASSEMBLY, CLIPPARD FV-SP W/MPA-3P, CLIPPARD:LWT3732	In Stock	1	N/A	
FLOAT, SURESITE	FLOAT, SURESITE:88111	In Stock	1	N/A	
VALVE, SUPPLY FILTER	HYD FLUID SUPPLY FILTER SELECTION VALVE, PALL:1319232	In Stock	1	N/A	
VALVE, THROTTLE	THROTTLE VALVE, NFBC-LCN	In Stock	1	N/A	
GASKET, FILTER HOUSING	GASKET,CLARK RELIANCE:A10137455, NFS# 10117455	In Stock	6	N/A	
O-RING, BUNA	HEAD TO BOWL O-RING BUNA, PALL:UK19672	In Stock	10	N/A	
O-RING, FISHER	O-RING, FISHER:T1205106562	In Stock	1	N/A	
BUSHING ASSY, FISHER POT	POT/BUSHING ASSEMBLY, FISHER:27B6208X012	In Stock	1	N/A	
FILL KIT, SF6	ABB BREAKER SF6 FILL KIT, (HECS 80S), S/N 1HC211015861	In Stock	1	N/A	
BELT, 1320-BLT-S-EHX19-90	BELT, ECODYNE:1320-BLT-S-EHX19-90	In Stock	6	N/A	



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Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
COUPLING, PUMP/MOTOR	JOHN CRANE:A045-3S78-1270, 1-1/2" - 2-3/8", ROUGH BORE	In Stock	1	N/A	
PUMP, GEAR	DANFOSS:BERENDEN FLUID POWER SNP 2/11	In Stock	1	N/A	
COUPLING, PUMP-MOTOR	COUPLING, REXNORD-OMEGA: REX ELASTOMER-ES-4(STANDARD ORANGE),PUMP-MOTOR	In Stock	1	N/A	
COUPLING, PUMP-MOTOR	COUPLING, REXNORD-OMEGA: ELASTOMER-ES-5 (STANDARD ORANGE) PUMP-MOTOR	In Stock	1	N/A	
REPAIR KIT, INJ. PUMP	CHEMICAL INJECTION PUMP REPAIR KIT, GRAINGER:K4PTC1	In Stock	1	N/A	
FILTER, FUEL CAT 1R0749	FOR USE ON STAGE I AND II, EMERGENCY DIESEL MANUAL PRIMING PUMPS, CATERPILLAR #1R-0749	In Stock	10	N/A	
ELEMENT, 0180MA0003BN	ELEMENT 0180MA0003BN (3µm), P/N 2059438, SPIN ON ELEMENT, MANUFACTURER:HYDAC	In Stock	1	N/A	
FILTER, LIQUID FUEL	CLARK RELIANCE 2200A3	In Stock	25	N/A	
FILTER, AIR (ELEMENT)	INGERSOLL RAND 32012957	In Stock	20	N/A	
ELEMENT, PRE-FILTER	PRE-FILTER ELEMENT 105 SCFM, INGERSOLL RAND 85565679	In Stock	6	N/A	
FILTER, AIR	GEN AIR FILTERS, COMPACT FILTER G4/F7 287 X 292 X 300, SIEMENS	In stock	16	N/A	
FILTER, AIR	GEN AIR FILTERS, COMPACT FILTER, G4/F7 592 X 292 X 300, SIEMENS	In Stock	64	N/A	
FILTER KIT, FUEL	LOW PRESSURE FUEL FILTER REPLACEMENT KIT, CENTAUR:912555C3	In Stock	1	N/A	
KIT, OIL FILTER & O-RING	LUBE OIL FILTER & O-RING KIT, CENTAUR:9161283C1	In Stock	6	N/A	
FILTER, 961131C1 FUEL	CENTAUR:912555C1 (ELEMENT & GASKET KIT)	In Stock	6	N/A	
FILTER, FUEL BOOST KIT	LOW PRESSURE, 912343C1	In Stock	1	N/A	
FILTER, IGV ACTUATOR	MOOG:B64567-1V	In Stock	6	N/A	
FILTER, TMP-95 FINAL	PNEUMAFIL:S52538B1, V-CELL STMPM16 STATIC BARRIER FILTER, 24"X24"X12", INJECTION MOLDED PLASTIC FRAME, 100% SYNTHETIC MEDIA, NEOPRENE SPONGE RUBBER GASKET - DOWN STEAM SIDE	In Stock	55	N/A	
PRE-FILTER, Z-100	PNEUMAFIL:S52709C1, PRE-FILTER PANEL, 24"X24"X4"73 (FT2) SYNTHETIC MEDIA, PLASTIC FRAME FOR HIGHER PERFORMANCE AND LOWER PRESSURE DROP	In Stock	130	N/A	
PRE-FILTER, PARKER AIR DRYER	PARKER AIR DRYER PRE-FILTER, PARKER FILTER CARTRIDGE# 6C10-050	In Stock	8	N/A	
AFTER-FILTER, AIR DRYER	AIR DRYER AFTER FILTER, PN 25-178-50C, PARKER FILTER CARTRIDGE # 10C10-050	In Stock	4	N/A	
FILTER, PRESSURE	PALL: ELEMENT HC9600FCP4H	In Stock	4	N/A	
ELEMENT, POST FILTER	POST FILTER ELEMENT 105 SCFM, INGERSOLL RAND 85565661	In Stock	6	N/A	
TRANSMITTER, PRESSURE	ROSEMOUNT:3051S2TG3A2A11A1AM5Q4	In Stock	1	N/A	
FILTER, LUBE OIL	LUBE OIL FILTER, CLARKE RELIANCE:A2200A4, NFS:2200A4	In Stock	20	N/A	
KIT, SOFT PARTS	SOFT PARTS KIT, CLARKE RELIANCE:A10400107, NFS:10400107	In Stock	1	N/A	
FILTER, FLOW CONTROL	FILTER AUTOMATIC FLOW CONTROL, 4"FNPT, MODEL:ST-400-25, 240GPM, PENTAIR:LWT 3949	In Stock	1	N/A	
FILTER, FLOW CONTROL	FILTER AUTOMATIC BACKWASH FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 245GPM, MODULAR PIPING SUPPLY INC: LWT5430	In Stock	1	N/A	
CARTRIDGE, DESICCANT	PNEUMATIC PRODUCTS:3153517	In Stock	1	N/A	
FILTER, OIL 275-2604	OIL FILTER, CAT:275-2604	In Stock	6	N/A	
FILTER, AIR 4P0710S	AIR FILTER, CAT: 4P0710	In Stock	2	N/A	
PRE-FILTER, AIR COOLING		In Stock	72	N/A	
PRE-FILTER, AIR COOLING		In Stock	32	N/A	
METER, FLOW	ROSEMOUNT:3051SFC1CS030N065-T33EA1A5Q4E6M5	In Stock	1	N/A	
TRANSMITTER, LIQUID FUEL TEMP	LIQUID FUEL TEMPERATURE TRANSMITTER, ROSEMOUNT 644HAK6M5Q4J6	In Stock	1	N/A	
SWITCH, PUMP SUPPLY PRESSURE	PUMP SUPPLY PRESSURE SWITCH, CCS 646GZEM1	In Stock	1	N/A	
TRANSMITTER, PUMP DISCHARGE	PUMP DISCHARGE PRESSURE TRANSMITTER, ROSEMOUNT 3051CG5A22A1AS5B4C6M5Q4	In Stock	1	N/A	
VALVE, ACTUATED THROTTLE	PNEUMATICALLY ACTUATED THROTTLE VALVE, FISHER ET-677-DVC-6200	In Stock	1	N/A	
SWITCH, PUMP DISCHARGE PRESS.	PUMP DISCHARGE PRESSURE SWITCH, CCS 646GZEM5	In Stock	1	N/A	
METER, FLOW	ROSEMOUNT:3051SFC1CS030NXT33DA1A5DQ4E6M5	In Stock	1	N/A	
CONTROLLER, STEP LIFO	8 STAGES, SCL4000-8	In Stock	1	N/A	
CONTROLLER, LIMIT (0-2502-F)	LIMIT CONTROLLER (0-2502-F), SA100LKA3-MN-4*NN-D1/Y	In Stock	1	N/A	
CONTROLLER,STEP LIFO (4 STAGE)	STEP CONTROLLER LIFO (4 STAGES), SCL4000-4	In Stock	1	N/A	



Critical Spares  
Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
DRYER, INSTRUMENT AIR	INSTRUMENT AIR DRYER DIFFERENTIAL PRESSURE, DIFFERENTIAL PRESSURE TRANSMITTER, ROSEMOUNT:3051S2CD3A2A11A1AL1L2L4M5Q4	In Stock	1	N/A	
SWITCH, PRESSURE	DIFFERENTIAL PRESSURE SWITCH,JOHNSON CONTROLS:JCI P 233 A-10-AAC	In Stock	1	N/A	
SWITCH, HEATER SUPPLY FLOW	FUEL OIL INLINE HEATER SUPPLY FLOW SWITCH, MAGNETROL TD2-7D01-0G0 C/W TEA-A110-004, THERMAL DISPERSION FLOW SWITCH	In Stock	1	N/A	
GAUGE, PRESSURE	FUEL UNLOADING PUMPS OUTLET PRESURE/GAUGE PRESSURE TRANSMITTER, ROSEMOUNT:3051S2TG3A2E11A1AB4K6M5Q4	In Stock	1	N/A	
TRANSMITTER, RADAR LEVEL	FUEL OIL TANK 1 LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64SPVDAM1C1S3	In Stock	1	N/A	
LEVEL SWITCH, DAY TANK	FUEL OIL TANK HIGH LEVEL SWITCH, ULTRASONIC GAP LEVEL SWITCH, MAGNETROL:961-2DA0-030 C/W 9A1-A43A-018	In Stock	1	N/A	
TRANSMITTER, HEATER DISCHARGE	FUEL OIL INLINE HEATER DISCHARGE TEMPERATURE TRANSMITTER, ROSEMOUNT:644HAK6J6M4	In Stock	1	N/A	
RTD, HEATER DISCHARGE TEMP.	FUEL OIL INLINE HEATER DISCHARGE TEMPERATURE RTD, ROSEMOUNT:68 SERIES/0068D21C30A020T26	In Stock	1	N/A	
LEVEL TRANSMITTER, LEVEL	FUEL OIL DAY TANK LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64PNACAM1C1	In Stock	1	N/A	
SWITCH, DISPLACER LEVEL	FUEL OIL TANK HIGH LEVEL SWITCH, DISPLACER LEVEL SWITCH, MAGNETROL MODEL # A15-1E2B-HM3, SERIAL # 744243-01-001	In Stock	1	N/A	
SWITCH ASSEMBLY, LIMIT	MICROSWITCH # LSA2B	In Stock	2	N/A	
CABLE,SOLAR, IGNITER	CENTAUR:919340C2	In Stock	1	N/A	
PICKUP, MAGNETIC	CENTAUR:P/N 190430-1	In Stock	1	N/A	
SWITCH, OVERSPEED	CENTAUR KIT P/N1071653-2600	In Stock	1	N/A	
TRANSMITTER, GUIDE POSITION	INLET GUIDE VANE POSITION TRANSMITTER, FISHER:4200 SERIES (4200)	In Stock	1	N/A	
VALVE, SOLENOID	RAC FILTER DRAIN SOLENOID VALVE, PARKER:H2223N	In Stock	1	N/A	
SWITCH, HIGH PRESSURE	LUBE OIL FILTER DELTA HIGH PRESS SWITCH, MIDWEST:120-AA-09-0-CZ	In Stock	1	N/A	
GAUGE, OIL TEMPERATURE	LUBE OIL COOLER OUTLET TEMP GAUGE, ASHCROFT:600B-01-CEXSG	In Stock	1	N/A	
SWITCH, PRESSURE	BEARING LUBE OIL HEADER PRESS#1 LOW, PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J402-146-1521	In Stock	1	N/A	
VALVE, PRESSURE CONTROL	BEARING LUBE OIL PRESSURE CONTROL VALVE, FISHER:ED-655	In Stock	1	N/A	
SWITCH, PRESSURE	EMERGENCY LUBE OIL PUMP DISCHARGE - PRESSURE SWITCH, UNITED ELECTRIC CONTROLS - J400-146-1521	In Stock	1	N/A	
INDICATOR, VACUUM PRESSURE	LUBE OIL RESERVOIR VACUUM - PRESSURE INDICATOR, ASHCROFT:45-11877SS-04B	In Stock	1	N/A	
SWITCH, TEMPERATURE	LUBE OIL RESERVOIR TEMPERATURE SWITCH, HONEYWELL:T775A2009	In Stock	1	N/A	
SWITCH, PRESSURE	MAIN LUBE OIL PUMP #1 - DISCHARGE PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J402-164-1521	In Stock	1	N/A	
SENSOR, #1 OVERSPEED TRIP	OVERSPEED TRIP SENSOR #1, ELECTRO CORP:3090A35	In Stock	2	N/A	
SWITCH, MANIFOLD PRESSURE	INLET AIR MANIFOLD PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J400K-455-1520	In Stock	1	N/A	
SWITCH, DIFFERENTIAL PRESS	DIFFERENTIAL PRESSURE SWITCH, PNEUMAFIL:552033-B1	In Stock	2	N/A	
SWITCH, DIFFERENTIAL PRESSURE	INTAKE AIR STATIC FILTER DIFFERENTIAL- PRESSURE SWITCH, SOR:107AL-K12-P1-F1A	In Stock	1	N/A	
TRANSMITTER, 31 TEMPERATURE	INLET SCROLL TEMPERATURE TRANSMITTER #1, YOKAGAWA:YTA320-EA2NN/FU1/D2/Z	In Stock	1	N/A	
RTD, #1 PRIMARY SIGNAL	INLET SCROLL RTD #1 PRIMARY SIGNAL, ROSEMOUNT:0078-N-25-N-00-A-060-T26-XA	In Stock	1	N/A	
SWITCH, PRESSURE	INSTRUMENT AIR SYSTEM PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: H122-184, MFG PN 0409-007	In stock	1	N/A	
SWITCH, LOW ALARM PRESSURE	INSTR.AIR COMPRESSOR RECEIVER - LOW PRESSURE ALARM SWITCH, UNITED ELECTRIC CONTROLS: H122-274	In Stock	1	N/A	
VALVE, SOLENOID	INST AIR SYSTEM ISOLATION SOLENOID VALVE, ASCO:HCL8316G66MB	In stock	1	N/A	
SWITCH, START STOP PRESSURE	INSTR.AIR COMPRESSOR START STOP, PRESSURE SWITCH, HUBBELL INDUSTRIAL CONTROL: 69HA109779U	In Stock	1	N/A	
INDICTATOR, LOW OIL LEVEL	INSTRUMENT AIR COMPRESSOR LOW - OIL LEVEL INDICTATOR, INGERSOLL RAND:22102388	In Stock	1	N/A	
SWITCH, OIL PUMP PRESSURE	GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE:B1T-H04	In Stock	2	N/A	
SWITCH, OIL FLOW	GENERATOR TURBINE END BEARING - JACKING OIL FLOW SWITCH, MEISTER:DKM/A-1/10	In stock	2	N/A	
VALVE, AIR BLEED	HYD FLUID AIR BLEED VALVE, HYDAC:AEV6/5 00230023	In Stock	1	N/A	
SWITCH, DISCH PRESSURE	HYD FLUID PUMP #1 DISCHARGE - PRESSURE SWITCH, REXROTH:HED 3 OAEX/63/12	In Stock	1	N/A	
TRANSMITTER, LEVEL	HYD FLUID RESERVOIR - LEVEL TRANSMITTER, GEMS:XT-800	In Stock	1	N/A	
INDICATOR, LEVEL	HYD FLUID RESERVOIR LEVEL INDICATOR, REXROTH:CS3615-244910	In Stock	1	N/A	
TRANSMITTER, PRESSURE	HYD FLUID HEADER SUPPLY - PRESSURE TRANSMITTER, ROSEMOUNT: 3051TG4A2A21AM5Q4	In Stock	1	N/A	
SWITCH, TEMPERATURE (OFF)	HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (OFF), UNITED ELECTRIC CONTROLS: C402-120-1070-M202 135/120F	In Stock	1	N/A	



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Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
SWITCH, TEMPERATURE (ON)	HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (ON), UNITED ELECTRIC CONTROLS: C402-120-1070-M202 135/120F	In Stock	1	N/A	
SWITCH, TEMPERATURE	HYD FLUID RESERVOIR HEATER - TEMPERATURE SWITCH, UNITED ELECTRIC CONTROLS: C402-120-1070-M202 73/86F	In Stock	1	N/A	
SWITCH, DIFF. PRESSURE	HYD FLUID SUPPLY FILTER - DIFFERENTIAL PRESSURE SWITCH, PALL:RC0113CZ097H	In Stock	1	N/A	
THERMOCOUPLE, RESERVOIR	HYD FLUID RESERVOIR THERMOCOUPLE, OMEGA:NB1-CASS-14U-12" DUAL	In Stock	1	N/A	
SWITCH, CHLORINE FLOW	CHLORINE INJECTION FLOW SWITCH, DWYER INSTRUMENTS:FS2	In Stock	1	N/A	
ACTUATOR, PNEUMATIC	DOUBLE ACTING PNEUMATIC ACTUATOR, KEYSTONE MORIN, TYCO:MRP 004	In Stock	1	N/A	
TRANSMITTER, PRESSURE	0-500 PRESSURE TRANSMITTER - RO SKID, AUTOMATION DIRECT: PTD25-20-0500H	In Stock	1	N/A	
TRANSMITTER, PRESSURE	PRESSURE TRANSMITTER, AUTOMATION DIRECT:PTD25-20-0100H, 0-100 PSI - VARIOUS SKIDS	In Stock	3	N/A	
INPUT CARD, PLC	ANALOG INPUT CARD FOR PLC, VARIOUS SKIDS, AUTOMATION DIRECT:F0-04AS1	In Stock	1	N/A	
VALVE, BALL	1.5", STAINLESS STEEL, MCMMASTER CARR: 45995K84	In Stock	1	N/A	
SWITCH, PRESSURE	PRESSURE SWITCH, BARKSDALE:X1T-4100-25	In Stock	1	N/A	
SWITCH, PRESSURE	PRESSURE SWITCH, DRUCKSCHALTER: D1 TM80 SS	In Stock	1	N/A	
MODULE, POWER SWITCH	LEVEL SWITCH MODULES, SURESITE: 87480	In Stock	1	N/A	
ACTUATOR, LOUVER	ELECTRICAL PACKAGE LOUVER ACTUATOR, ML4115B1008	In stock	1	N/A	
THERMOSTAT, VENTILATION	MECHANICAL PACKAGE - VENTILATION THERMOSTAT, T631C1012	In Stock	1	N/A	
KIT, STACK FITTINGS	E-CELL STACK FITTINGS KIT, GENERAL ELECTRIC:3019638	In Stock	1	N/A	
RELAY, SINGLE POLE	SINGLE POLE RELAYS - VARIOUS SKIDS, AUTOMATION DIRECT:781-1C-120A	In Stock	2	N/A	
SWITCH, DIFF PRESSURE	IGV ACT HYD FLUID FILTER- DIFF PRESS HIGH SWITCH, MOOG:G4444-2	In Stock	1	N/A	
MONITOR, MULTIFUNCTION	MULTIFUNCTION MONITOR - ORP OR CONDUCTIVITY, RYAN HERCO:5924-562	In Stock	1	N/A	Engineering required
POWER SUPPLY, 24VDC	24VDC POWER SUPPLY, AUTOMATION DIRECT:PSB24-060D	In stock	1	N/A	
SENSOR, ORP	ORP SENSOR, RYAN HERCO:5909-751, RAW WATER PUMP - VARIOUS SKIDS	In Stock	1	N/A	
SENSOR, CONDUCTIVITY	CONDUCTIVITY SENSOR - RO, RYAN HERCO:5926-200	In Stock	1	N/A	
MANIFOLD, PRESSURE TRANSMITTER	ROSEMOUNT 0305RC22B11	In Stock	1	N/A	
GAUGE, PRESSURE	ATOMIZING AIR HEADER PRESSURE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT:3051S2TG3A2A11A1AM5Q4	In Stock	1	N/A	
INDICATOR, BLUE MOISTURE	BLUE MOISTURE INDICATOR, INGERSOLL RAND 705001-SP	In Stock	1	N/A	
THERMOMETER, RESISTANCE	SIEMENS:WQ 0233 2XPT100, INSTALLATION LENGTH 250MM, HAN 8D	In Stock	1	N/A	
THERMOCOUPLE, SHELL	SIEMENS:MQ 0206-PVDF8 3XTC(K), INSTALLATION LENGTH 375MM, HAN 8D	In Stock	1	N/A	
FLOWMETER, TURBINE	FUEL OIL UNLOADING FLOW LIQUID TURBINE FLOWMETER, HOFFER FLOW CONTROLS: HO SERIES/6X6-75-1250-CB-1M/XE2-F1CS-EXP	In Stock	1	N/A	
INDICTATOR, DISCHG PRESS	HYDRUALIC FLUID PUMP #1 - DISCHARGE PRESSURE INDICTATOR, REXROTH:2-1/2/1500PUA31-10A-4 JIC	In Stock	1	N/A	
SWITCH, DIFF PRESSURE	HYDRUALIC FLUID CONDITIONING LOOP - FILTER DIFFERENTIAL PRESSURE SWITCH, PALL:RC0113CZ090H	In Stock	1	N/A	
FLOWMETER, MAGNETIC	RAW WATER FLOW MAGNETIC FLOWMETER, ROSEMOUNT:8705TSA060C1W0N0G1	In Stock	1	N/A	
TRANSMITTER, TANK LEVEL	RAW WATER STORAGE TANK LEVEL RADAR - LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64SPVCAM1C1S3	In Stock	1	N/A	
GAUGE, PRESSURE	RAW WATER PUMP 1 & 2, DISCHARGE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT:3051S2TG2A2A11A1AB4M5Q4	In Stock	1	N/A	
REGULATOR, SIGNAL PRESSURE	STAGE 2 TEMPERATURE CONTROL VALVE - AIR SIGNAL PRESSURE REGULATOR, FISHER:67CF-1663-38656	In Stock	1	N/A	
SOLENOID, BLEED VALVE	LP COMPRESSOR BLEED VALVE SOLENOID, ASCO:JKC8316G034V	In Stock	1	N/A	
THERMOCOUPLE, BLADE PATH	COMPRESSOR BLADE PATH THERMOCOUPLE, DUPLEX TYPE K	In Stock	8	N/A	
GAUGE, CONVERTER PRESSURE	STARTING PACKAGE TORQUE CONVERTER PRESSURE GAUGE, KOENIG:BAC-160-25	In Stock	2	N/A	
GAUGE, CAPSUHELIC	CAPSUHELIC GUAGE 0-6" W.C., PNEUMAFIL:551646-B1	In Stock	1	N/A	
INDICTATOR, PRESSURE	INTAKE AIR STATIC FINAL-FILTER - DIFFERENTIAL PRESSURE INDICTATOR, DWYER INSTRUMENTS:4006	In Stock	1	N/A	
INDICTATOR, PRESSURE	INTAKE AIR STATIC PRE-FILTER - DIFFERENTIAL PRESSURE INDICTATOR, DWYER INSTRUMENTS:4002	In Stock	1	N/A	
GAUGE, CAPSUHELIC	CAPSUHELIC GOUGE 0-2" W.C., PNEUMAFIL:S51646-B6	In Stock	1	N/A	
TRANSMITTER, PRESSURE	PRESSURE TRANSMITTER 0-300 PSI 4-20MA, ROSEMOUNT:3051TA3A2B21AES	In Stock	1	N/A	
REGULATOR, PRESSURE	PRESSURE REGULATOR - AIR SUPPLY FROM INST AIR COMPRESSOR, FISHER:FS64-29	In Stock	1	N/A	



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GAUGE, PRESSURE	INSTR. AIR COMPRESSOR PRESSURE GAUGE, AIR CENTERS OF FLORIDA:5ZP76	In Stock	1	N/A	
GAUGE, PRESSURE	PRESSURE GAUGE - FOR INSTR AIR COMPRESSOR, ASHCROFT:45-13772204b, RANGE:0-200 PSI	In Stock	1	N/A	
GAUGE, PRESS REGULATING	PRESSURE REGULATING GAUGE - AIR SUPPLY FROM INSTR AIR COMPRESSOR, FAIRCHILD:4066AT	In Stock	1	N/A	
GAUGE, PRESSURE	PRESSURE GAUGE 0-160PSI, LIQUID FILLED BACK MOUNT, STAINLESS STEEL, AUTOMATION DIRECT:G25-SL160-4LB	In Stock	1	N/A	
GAUGE, PRESSURE	PRESSURE GAUGE 0-100PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4LS	In Stock	1	N/A	
GAUGE, PRESSURE	PRESSURE GAUGE 0-100PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4CS	In Stock	1	N/A	
GAUGE, PRESSURE, 0-500PSI	PREESSURE GUAGE 0-500PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11142N-GF	In Stock	1	N/A	
GAUGE, PRESSURE 0-500PSI	PRESSURE GAUGE 0-500 PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11122N-GF	In Stock	1	N/A	
DIVIDER, FLOW	FLOW DIVIDER, JAHNS HYDRAULIK:MTO-2-5-G	In Stock	1	N/A	
TRANSMITTER, DEW POINT -100F	-40F AND -100F, INGERSOLL RAND P/N 23182603	In Stock	2	N/A	
MONITOR, GROUND VERIFICATION	TRUCK UPLOADING GROUND VERIFICATION MONITOR, 8030-120 GROUND VERIFICATION MONITOR, CIVACON	In Stock	1	N/A	
MOTOR, FLAP ACTUATOR	JOHNSON CONTROLS, JCI M9132-GGA-1	In Stock	1	N/A	
BRUSH, CARBON MOTOR	1 SET = 2 PIECES, ABB: GPFX052143P0098	In Stock	1	N/A	
VALVE, SOLENOID	GENERATOR JACKING OIL - SOLENOID VALVE, SUN HYDRAULICS:DLDA-MCN	In Stock	1	N/A	
MOTOR, 10 HP DC TURNING GEAR	KOENIG: DG6711A	In Stock	1	N/A	
MOTOR, BALDOR	BALDOR:VEM3770T NEMA	In Stock	1	N/A	
BRUSH SET, TURNING MOTOR GEAR	TURNING GEAR MOTOR BRUSH SET, 419904-51AC	In Stock	5	N/A	
COUPLING, PUMP/MOTOR	SIZE 1040T20, FLEXIBLE GRID TYPE, VERTICAL ORIENTATION, MANUFACTURER:FALK	In Stock	1	N/A	
RELAY, DPDT 120VAC	RCP8002 120AC	In Stock	1	N/A	
RELAY, TPDT 120VAC	RCP1103 120AC	In Stock	1	N/A	
CUT-OUT, AUTO	AUTO CUT-OUT, CHROMOLOX:168-053169-1 05	In Stock	3	N/A	
FUSE, AGC 1A 250V	AGC 1	In Stock	10	N/A	
FUSE, AGC 3A 250V		In Stock	10	N/A	
FUSE, POWER CLASS J 45A	A4J45	In Stock	10	N/A	
FUSE, PRIMARY 20A	ATQR20	In Stock	4	N/A	
FUSE, SECONDARY 8A	ATQR8	In Stock	4	N/A	
CONTACTOR, 50A 120VAC	42CF35AF	In Stock	2	N/A	
FUSE, PANEL HEATER 4.5A	PANEL HEATER FUSE 4.5A, ATQR4.5	In Stock	3	N/A	
FUSE, AC 25A	ATQR25	In Stock	4	N/A	
FUSE, SIEMENS PG	SIEMENS PG 840C208FO1	In Stock	2	N/A	
FUSE, 15.0A	BUSSMAN:LP-CC-15.0	In Stock	10	N/A	
FUSE, 5.0A	BUSSMAN:LP-CC-5.0	In Stock	20	N/A	
FUSE, 1.0A	BUSSMAN:LP-CC-1	In Stock	10	N/A	
FUSE, 2.0A 300 VDC	BUSSMAN:LP-CC-2	In Stock	10	N/A	
FUSE, 3.0A	BUSSMAN:LP-CC-3.0	In Stock	20	N/A	
FUSE, 12A	FUSE 12A, SIEMENS:S00232012	In Stock	10	N/A	
FUSE, 2AMP	FUSE 2 AMP, GMC-2-A, BUSSMAN:GMC-2-A	In Stock	10	N/A	
FUSE, 3AMP GMC-R	FUSE 3AMP, BUSSMAN:GMC-3-R	In Stock	10	N/A	
FUSE, 3A E-CELL	E-CELL FUSE 3A, BUSSMAN:3060756	In Stock	2	N/A	
FUSE, 25A E-CELL	E-CELL FUSE 25A, BUSSMANN:1154697	In Stock	2	N/A	
FUSE, 2A E-CELL	E-CELL FUSE 2A, BUSSMANN:3060755	In Stock	2	N/A	
FUSE, 6A GMC-6A	6AMP, GMC-6A, BUSSMANN:LWT7345	In Stock	10	N/A	
FUSE, 1.25A GMC-1.25A	FUSE 1.25 AMP, GMC-1.25-A, BUSSMANN:LWT9119	In Stock	10	N/A	



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FUSE, 8A E-CELL	E-CELL FUSE 8A, MERSEN ELECTRIC POWER:3060752	In Stock	4	N/A	
FUSE, AC PIM	REPLACEMENT FUSE FOR AC PIMS, BENTLY NEVADA:1720025	In Stock	3	N/A	
CONTACT, 1NC BLK	CONTACT BLK 1NC, SIEMENS:52BAK	In Stock	1	N/A	
PILOT LIGHT ASSEMBLY, AMBER	PILOT LIGHT ASSEMBLY AMBER 120VAC, A13200-05	In Stock	6	N/A	
MODULE, TMR I/O	I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS)(4 X PROX/ACCEL)	In Stock	1	N/A	
MODULE, TMR I/O	PROX/SEISMIC TMR I/O WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:126632-01	In Stock	1	N/A	
MODULE, PROX/VELOM I/O	PROX/VELOM I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:140471-01	In Stock	1	N/A	
MODULE, PROX/VELOM I/O	PROX/VELOM I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:140482-01	In Stock	1	N/A	
MODULE, SHAFT ABSOLUTE	SHAFT ABSOLUTE I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:138708-01	In Stock	1	N/A	
MODULE, PROX/SEISMIC	PROX/SEISMIC I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:128240-01	In Stock	1	N/A	
MODULE, I/O	I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS) (4 X VELOMITER), BENTLY NEVADA:135489-03	In Stock	1	N/A	
MODULE, ABSOLUTE SHAFT	SHAFT ABSOLUTE I/O MODULE WITH - EXTERNAL TERMINATIONS, BENTLY NEVADA:138700-01	In Stock	1	N/A	
MODULE, PROX/SEISMIC	PROX/SEISMIC I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:128229-01	In Stock	1	N/A	
MODULE, I/O	I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS), (2 X PROX/ACCEL + 2 X VELOMITER), BENTLY NEVADA:135489-02	In Stock	1	N/A	
MODULE, I/O	DISCRETE INTERNAL BARRIERS I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:136703-01	In Stock	1	N/A	
MODULE, PROX/SEISMIC	3500/42M PROXIMITOR/SEISMIC MONITOR, BENTLY NEVADA:140734-02	In Stock	1	N/A	
MODULE, DISCRETE I/O	DISCRETE I/O MODULE WITH - EXTERNAL TERMINATIONS, BENTLY NEVADA:133434-01	In Stock	1	N/A	
MODULE, SIGNAL OUTPUT	3500 BUFFERED SIGNAL OUTPUT MODULE, BENTLY NEVADA:147364-01	In Stock	1	N/A	
MODULE, DISCRETE I/O	DISCRETE I/O MODULE WITH - INTERNAL TERMINATIONS, BENTLY NEVADA:133422-01	In Stock	2	N/A	
LAMP, 115VAC PILOT	115VAC PILOT LAMP - VARIOUS SKIDS, RADWELL INTERNATIONAL:D5N130	In Stock	6	N/A	
MODULE, 3500/50	3500/50 MODULE, BENTLY NEVADA:133388-02	In Stock	1	N/A	
BULB, TEMP A DRY	WEATHER STATION DRY BULB TEMP A, VAISALA: HMT3301A0B101CGAB200B01CABAA1	In Stock	1	N/A	
R-DIODE	SIEMENS PG:840C411F04	In Stock	12	N/A	
F-DIODE	SIEMENS PG:840C411F03	In Stock	12	N/A	
CAPACITOR ASSEMBLY,RC	SIEMENS PG:153C684	In Stock	1	N/A	
OIL, LUBE	TURBOFLOXL32, MANUFACTURER: PETRO CANADA	In Stock	2	N/A	
DESICCANT, 4-8 GRADE D	INGERSOLL RAND 50# BAG	In Stock	2	N/A	
DETECTOR, THERMAL	ELECTRICAL PACKAGE THERMAL DETECTOR, KIDDE-FENWAL:27121-160	In Stock	2	N/A	
DETECTOR, THERMAL	MECHANICAL PACKAGE THERMAL DETECTOR, KIDDE-FENWAL:27121-225	In Stock	1	N/A	
DETECTOR, SMOKE	SMOKE DETECTOR, NOTIFIER:FSI-851	In Stock	2	N/A	
DETECTOR, THERMAL	TURBINE ENCLOSURE THERMAL DETECTOR, KIDDE-FENWAL:27121-325	In Stock	4	N/A	
VALVE, SOLENOID	E-CELL SOLENOID VALVE, EMERSON:3022390	In Stock	1	TBD	
VALVE, TEMP CONTROL	STAGE #3 DISC CAVITY TEMPERATURE - CONTROL VALVE, 3", FISHER:A41-1032425AS	In Stock	1	TBD	
VALVE, PRESS REGULATING	LO BEARING PRESSURE REGULATING VALVE, FISHER:44 ACTUATOR 4 BODY 655ED	In Stock	1	TBD	
VALVE, INLET SHUFFLE	INLET SHUTTLE VALVE, SURESITE:4010031	In Stock	1	TBD	
TRANSMITTER, GROUND FAULT	SIEMENS PG:153C691G02	In Stock	1	TBD	
THERMOCOUPLE, LUBE OIL TEMP	BEARING LUBE OIL SUPPLY TEMPERATURE - THERMOCOUPLE, PYCO:02-3174 W/16-0049 (TYPE K)	In Stock	1	TBD	
PICK UP, GENERATOR SPEED	TURBINE GENERATOR SPEED PICK UP, BRAUN:ASS08T165C0.5	In Stock	2	TBD	
SWITCH, OIL PUMP PRESSURE	GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE:B1T-H32	In Stock	2	TBD	
INDICATOR, LOOP PRESSURE	HYD FLUID CONDITIONING LOOP - PRESSURE INDICATOR, 2-1/2", REXROTH:/400PUA31-10A-4 JIC	In Stock	1	TBD	
SWITCH, FLUID LOW LEVEL	HYD FLUID RESERVOIR LOW LEVEL SWITCH, REXROTH:500PUA31-05 2 SW	In Stock	2	TBD	
SPEED CONTROL, NUMATICS	SPEED CONTROL, BRONZE, NUMATICS A1MN, EMERSON:LWT21254	In Stock	1	TBD	
PREAMPLIFIER, ORP	ORP PREAMPLIFIER, RYAN HERCO:5905-273	In Stock	1	TBD	

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Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
THERMOCOUPLE ASSEMBLY, TYPE J	THERMOCOUPLE ASSEMBLY TYPE J, C11637-07-001	In Stock	0	TBD	
THERMOCOUPLE, TYPE K	K316G316-0-60-120-1ASP	In Stock	0	TBD	
THERMOCOUPLE, EXHAUST	TURBINE EXHAUST END BEARING - THERMOCOUPLE, DUPLEX TYPE K	In Stock	10	TBD	
THERMOCOUPLE, DISC CAVITY	DISC CAVITY THERMOCOUPLE, PYCO:DUPLEX TYPE K	In Stock	6	TBD	
CONTACT, BRUSH	TWO LAYER CONTACT BRUSH, SIEMENS:EMT 513-005, 20X8X32 EG5U/AG20	In Stock	20	TBD	
BELT, RADIATOR FAN	RADIATOR FAN BELT GROUP 1, CAT:7W5228	On Order	0	Dec-18	
SENSOR, TEMPERATURE	JCI TS-9103-8324	On Order	0	Dec-18	
VALVE, COMPRESSOR SOLENOID	HP COMPRESSOR BLEED VALVE SOLENOID, ASCO:JKC8316G74V	On Order	0	Dec-18	
TRANSMITTER, PRESSURE	INLET FILTER HOUSE BAROMETRIC - PRESSURE TRANSMITTER, SIEMENS: 7MF4233-1FA10-1AC1-Z+B21+Y01+Y15	On Order	0	Dec-18	
VALVE, COMPRESSOR BLEED	LP COMPRESSOR BLEED VALVE, 18", METSO AUTOMATION:815W 11 22HB XZC VA	In Stock	1	N/A	
VALVE, COMPRESSOR BLEED	HP COMPRESSOR BLEED VALVE, 14", FISHER:A31A-1031/33082 SR80	On Order	1	Nov-18	
THERMOSTAT KIT, WR-90	WR-90 THERMOSTAT KIT, CHROMOLOX:WR-90 KIT	In procurement process	0	TBD	
HEATER, 12KW OPEN COIL	12KW OPEN COIL HEATER, CHROMOLOX:OCE-12120-210-480V	In procurement process	0	TBD	
HEATER, 3PH COMFORT	5KW/3PH/480V COMFORT HEATER, CHROMOLOX:HD3D-500 (PCN#520153)	In procurement process	0	TBD	
ELEMENT, CHROMOLOX	ELEMENT, CHROMOLOX:118-305471-112	In procurement process	0	TBD	
HEATER, CHROMOLOX	HEATER, CHROMOLOX:1281537	In procurement process	0	TBD	
CABLE, TITAN IGNITER	TITAN IGNITER CABLE, CENTAUR:115352-1	In procurement process	0	TBD	
DAMPER, VACUUM CONTROL	LUBE OIL RESERVOIR - VACUUM CONTROL DAMPER, INTEGRAL WITH BLOWER HOUSING, 4"	In procurement process	0	TBD	
VALVE, 150# CHECK	150# CHECK VALVE, MODEL 210, 6"	In procurement process	0	TBD	
VALVE, CHECK	CHECK VALVE, MODEL 210, 4"	In procurement process	0	TBD	
VALVE, PVC CHECK	PVC Y-PATTERN CHECK VALVE, 3", UNITED STATES PLASTIC CORP:5132-030	In procurement process	0	TBD	
VALVE, AIR RELIEF	INST AIR HEADER RELIEF VALVE, PARKER:6M-6M-RL4A-VTSSMNKD	In procurement process	0	TBD	
VALVE, PRESSURE RELIEF	POLISHING LOOP PRESSURE RELIEF VALVE, REXROTH:RR00347261	In procurement process	0	TBD	
VALVE, 1" SW BALL	1" SW BALL VALVE, WORCESTER:K466TSW	In procurement process	0	TBD	
VALVE, 2" NPT BALL	FEMALE 316 SS FULL PORT BALL VALVE, 2"NPT, MCM:46495K86	In procurement process	0	TBD	
VALVE, 3/8" THD BALL	3/8" THD BALL VALVE, APOLLO:76-102-01	In procurement process	0	TBD	
VALVE, 2" PVC BALL	TRUE UNION BALL VALVES, 2", PVC, INDELCO:2TUBV	In procurement process	0	TBD	
VALVE, BUTTERFLY	BUTTERFLY VALVE, GEAR OPERATED, VELAN TOURQUESEAL: L16-1CP02-ACAA C/W MODEL M15	In procurement process	0	TBD	
VALVE, TEMP CONTROL	STAGE #2 DISC CAVITY TEMPERATURE - CONTROL VALVE, 4", FISHER:A41-1032425SR	In procurement process	0	TBD	
GASKET, FLANGE	ROTOR COOLING AIR FILTER COVER - FLANGE GASKET, NATIONAL FILTRATION SYSTEMS:10300002	In procurement process	0	TBD	
GASKET, CENTAUR	GASKET, CENTAUR:946933C1	In procurement process	0	TBD	
SEAL, MECHANICAL	MECHANICAL SEAL, EAGLE:ABPN Q1Q1VMG	In procurement process	0	TBD	
AIR FILTER, SOLAR FINAL	CENTAUR:AAF 515-564-002	In procurement process	0	TBD	
PRE-FILTER, SOLAR	CENTAUR AMERKLEEN M-80 FILTER	In procurement process	0	TBD	
FILTER, TITAN LUBE OIL	CENTAUR:38062	In procurement process	0	TBD	
FILTER, TITAN FUEL	CENTAUR:11246882	In procurement process	0	TBD	
FILTER, HIGH PRESSURE FUEL	CENTAUR:1125423	In procurement process	0	TBD	
FILTER, LUBE OIL	TURBOHYDRAULIC START LUBE OIL FILTER, CENTAUR FAUCET: 038062 10M	In procurement process	0	TBD	
MICROSWITCH ASSY, FILTER	MICROSWITCH ASSEMBLY- FILTER SKIDS & SOFTENER, PENTAIR:LWT3215	In procurement process	0	TBD	
SWITCH, VALVE OPEN LIMIT	HP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/4SPDT	In procurement process	0	TBD	
SWITCH, VALVE OPEN LIMIT	LP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/6SPDT	In procurement process	0	TBD	
TOWER, LUBE OIL FILTER	LUBE OIL FILTER TOWER #1 PRESS, MARSH:J4652	In procurement process	0	TBD	
PICK UP, TORQUE CONVERTER SP	TORQUE CONVERTER SPEED PICK UP, ELECTRO CORP:725833	In procurement process	0	TBD	

Critical Spares  
Holyrood Gas Turbine

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
SWITCH, INSULATOR #58-PA	MICRO SWITCH INSULATOR #58-PA, PENTAIR:LWT7696	In procurement process	0	TBD	
SWITCH, STAGER 48-03	STAGER (110V) SERIES 48-03 - W/HOMING SWITCH, OSMONICS: 48-03	In procurement process	0	TBD	
VALVE, ACTUATOR	ACTUATOR, VALWORX:561055A, ELECT FOR RO INLET VALVE & RINSE VALVE -RO SKID	In procurement process	0	TBD	
SENSOR, VIBRATION	GENERATOR TURBINE END VIBRATION X, BENTLY NEVADA: 3300 SERIES	In procurement process	0	TBD	
SENSOR, VIBRATION	TURBINE EXHAUST END VIBRATION X - RELATIVE SENSOR, BENTLY NEVADA: 3500 SERIES	In procurement process	0	TBD	
SWITCH, TEMPERATURE	ELECTRICAL PACKAGE TEMPERATURE SWITCH, SERIES 54	In procurement process	0	TBD	
SENSOR, INLINE FLOW	E-CELL INLINE FLOW SENSOR, BURKERT: 3059466	In procurement process	0	TBD	
SWITCH, E-CELL PRESSURE	E-CELL PRESSURE SWITCH, AUTOMATION DIRECT:3039305	In procurement process	0	TBD	
SENSOR, E-CELL FLOW	E-CELL FLOW SENSOR 8020 SHORT, BURKERT:3033067	In procurement process	0	TBD	
ANALYZER, CONDUCTIVITY	E-CELL CONDUCTIVITY ANALYZER, BURKERT:3059495	In procurement process	0	TBD	
METER, 30-199.9 MV	E-CELL 30-199.9 MV METER, GENERAL ELECTRIC: 3038073	In procurement process	0	TBD	
TRANSMITTER, PRESSURE	E-CELL PRESSURE TRANSMITTER, BURKERT:3059497	In procurement process	0	TBD	
TRANSMITTER, PRESSURE	COMBUSTOR SHELL PRESS TRANSMITTER, SIEMENS:7MF4233-1HA10-1AC1-Z+B21+Y01+Y15	In procurement process	0	TBD	
RTD, AIR TEMPERATURE	GENERATOR EXCITER END COLD AIR TEMPERATURE RTD, 100 OHM PLATINUM, TMG GERABERG	In procurement process	0	TBD	
GAUGE, DIAL PRESSURE	DIAL PRESSURE GAUGE, ECODYNE:2172-1067	In procurement process	0	TBD	
VALVE, CONTROL	STAGE 3 TEMPERATURE CONTROL VALVE - I/P W/POSITIONER, FISHER:DVC5030	In procurement process	0	TBD	
VALVE, CONTROL	STAGE 2 TEMPERATURE CONTROL VALVE - I/P W/POSITIONER, VRC:VE700GT1	In procurement process	0	TBD	
TRANSMITTER, OIL PRESSURE	BEARING OIL PRESSURE TRANSMITTER, SIEMENS: 7MF4033-1CA10-1AC7-Z+B21+A02+Y01+Y21+Y15+Y16	In procurement process	0	TBD	
INDICATOR, OIL LEVEL	LUBE OIL RESERVOIR LEVEL INDICATOR, GEMS:806601	In procurement process	0	TBD	
THERMOCOUPLE, TEMPERATURE	STARTING PACKAGE MOTOR STATOR - TEMPERATURE THERMOCOUPLE, S102629PD-120T305Z96	In procurement process	0	TBD	
THERMOCOUPLE, TEMPERATURE	STARTING PACKAGE MOTOR FORWARD - BEARING TEMPERATURE T/C , S16820PD-300Z96	In procurement process	0	TBD	
GAUGE, PRESSURE	DIFFERENTIAL PRESSURE GAUGE - COMPRESSOR INSTR AIR COALESCING FILTER, HEADLINE FILTERS:DPP-975	In procurement process	0	TBD	
THERMOSTAT, AC#1	ELECTRICAL PACKAGE AC#1 THERMOSTAT, HH01AD045	In procurement process	0	TBD	
ACTUATOR, AUMA	ACTUATOR, AUMA, MODEL:SA10.2-216/GS200.3/GZ200.3	In procurement process	0	TBD	
SWITCH, AUXILIARY	AUX SWITCH, SIEMENS:A01JLD64	In procurement process	0	TBD	
OIL, COMPRESSOR	ALL SEASON SELECT OIL, INGERSOLL RAND 38436721	In procurement process	0	TBD	
ACTUATOR, DEMAND CONTROL	INLET GUIDE VALVE HYD DEMAND CONTROL - ACTUATOR, MOOG:85-616C101	In procurement process	0	TBD	

Recommended Component	Stock Status	Expected Delivery
High Energy Ignition Unit, Gas Generator, Prime Mover Systems	In Stock	N/A
Fire Fuel Shutoff Valve (LF-8), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Bearing (494047), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Bearing (494056), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Vibration Transducer, Gas Generator, Prime Mover Systems	In Stock	N/A
Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Fuel Filter, Gas Generator, Prime Mover Systems	In Stock	N/A
Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems	In Stock	N/A
Filter (494064), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Proximity Switch, Clutch, Prime Mover Systems	In Stock	N/A
Altair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	N/A
Valve (181536), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Primary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	N/A
Primary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	N/A
Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	N/A
Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	N/A
Ring that the Primary Pawl and spring are installed	In Stock	N/A
Primary Pawl Spring, Clutch, Prime Mover Systems	In Stock	N/A
Primary Pawl, Clutch, Prime Mover Systems	In Stock	N/A
Secondary Pawl, Clutch, Prime Mover Systems	In Stock	N/A

Recommended Component	Stock Status	Expected Delivery
Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	In Stock	N/A
NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Starter Control Valve (CA-17), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
3-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	N/A
Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	N/A
Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Prefilter, Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Supplemental Fuel Filter (F-LF-5), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	N/A
Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Unloading Filter, Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	N/A
Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	N/A
P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Common Drain Clutch A Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A

Recommended Component	Stock Status	Expected Delivery
Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	N/A
Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	N/A
Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, SVL GT	In Stock	N/A
Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Oil Drain Alternator Clutch Bearing 1 Thermocouple (TC-LO-4), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Alternator Clutch Bearing 2 Thermocouple (TC-LO-5), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Alternator Clutch Bearing 3 Thermocouple (TC-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Alternator Clutch Bearing 4 Thermocouple (TC-LO-7), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Alternator Clutch Bearing 5 Thermocouple (TC-LO-8), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Alternator Clutch Bearing 6 Thermocouple (TC-LO-9), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Exciter Bearing 7 Thermocouple (TC-LO-10), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	N/A
Oil Supply Thermocouple (TC-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In Stock	N/A
Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	N/A
Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	N/A
NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	N/A
Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Combustion Chamber, Gas Generator, Prime Mover Systems	In Stock	N/A

Recommended Component	Stock Status	Expected Delivery
Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	N/A
Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems	In Stock	N/A
Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	N/A
Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	N/A
Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	N/A
Bearing (181413 or 181332), Power Turbine Model CT2, Prime Mover Systems	In Stock	N/A
Fuel Pump Servo Valve (SV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Low Trip Pressure Switch (PS-LO-7), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Start Permissive Pressure Switch (PS-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Pressure Switch, Permissive Start - Low Pressure Alarm (PS-LF-2), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Pressure Switch, Trip - Low Fuel Pressure (PS-LF-3), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Low Oil Pressure Switch (PS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Filter Differential Pressure Switch (PSD-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Filter Upstream Pressure Switch (PS-GGLO-3), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Pre-filter Differential Pressure Switch (PSD-LF-2), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	N/A
AC Pump Discharge Fuel Pressure Switch (PS-LF-4), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	N/A
DC Pump Start Pressure Switch (PS-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
DC Pump Start Pressure Switch (PS-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
DC Pump Start Pressure Switch (PS-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	In Stock	N/A
Low Oil Pressure Switch (PS-GGLO-2), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Pressure Switch (PS-HO-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Inertial Filter Element, Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	N/A
Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Oil to Clutch B Pressure Transducer (PT-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	N/A
Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A

Recommended Component	Stock Status	Expected Delivery
Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	In Stock	N/A
Oil Pump - Complete, Gas Generator, Prime Mover Systems	In Stock	N/A
Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems	In Stock	N/A
Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems	In Stock	N/A
Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems	In Stock	N/A
HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	N/A
LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	N/A
Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	N/A
Level Switch (LS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	N/A
Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	N/A
Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	N/A
Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	N/A
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	N/A
Proximity Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT	In stock	N/A



## **Appendix G**

### Critical Spares Status Listing – Hydraulic Generation



Critical Spare Component	Stock Status	Comments
BDE - INTAKE STRUCTURE NO. 1 - TRANSMITTER,PRESS 0-6MH20	In Stock	
BDE - PENSTOCK NO. 1 - TRANSMITTER,PRESS 0-375	In Stock	
BDE - PENSTOCK NO. 2 - TRANSMITTER,PRESS 0-375	In Stock	
BDE - PENSTOCK NO. 3 - TRANSMITTER,PRESS 0-375	In Stock	
BDE - PENSTOCK NO. 4 - TRANSMITTER,PRESS 0-375	In Stock	
BDE - TURBINE - Turbine Carbon Seal (Units 1 to 4)	In Stock	
BDE - TURBINE - Turbine Carbon Seal (Units 5 & 6)	In Stock	
BDE - WICKET GATES AND LINKAGES - Shear Pins	In Stock	
BDE - WICKET GATES AND LINKAGES - PACKING, V TYPE 2-EASY	In Stock	
BDE - WICKET GATES AND LINKAGES - PIN,ECCENTRIC	In Stock	
BDE - WICKET GATES AND LINKAGES - RING,PISTON SERVO MOTOR 18"OD	In Stock	
BDE - ISOLATED PHASE BUS - XFMR,CT 13.8 kV	In Stock	
BDE - ISOLATED PHASE BUS - XFMR,CT 1000:	In Stock	
BDE - ISOLATED PHASE BUS - XFMR,PT 14400 kV	In Stock	
BDE - ISOLATED PHASE BUS - XFMR,CT 30332313	In Stock	
BDE - ISOLATED PHASE BUS - XFMR,CT 800:5	In Stock	
BDE - ISOLATED PHASE BUS - CT 50/51	In Stock	
BDE - GATE HOIST - BAY D'ESPOIR - ST - Remote I/O Adapter	In Stock	
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER HEAD COVER P003	In Stock	
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER WICKET	In Stock	
BDE - RUNNER - UNIT 1 - BOLT,SHAFT TO RUNNER	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,ANALOG QUANTUM	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,CPU MODICON	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE IN	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE OUT	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,ETHERNET QUANTUM	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,GPS QUANTUM	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,HOT STANDBY	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,INTERFACE PLC	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,RACK FILLER	In Stock	
BDE - PLC,Model Quantum- Modicon - MODULE,RELAY OUT	In Stock	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY, 125-24 Vdc	In Stock	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125 Vdc	In Stock	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125 Vdc 8 A	In Stock	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,24 Vdc	In Stock	
BDE - PLC,Model Quantum- Modicon - REMOTE I/O HEAD,MODICON	In Stock	
BDE - PLC,Model Quantum- Modicon - ADAPTER,REMOTE I/O	In Stock	
BDE - PLC,Model Quantum- Modicon - BACKPLANE,10 SLOT MODICON	In Stock	
BDE - STATION SERVICE - BDE PH1 - ACB	In Stock	
BDE - STATION SERVICE - BDE PH1 - Trip Unit - Breaker control device	In Stock	
BDE - ROTOR SHAFT - Rotating Ring	In Stock	
BDE - STATOR ASSEMBLY - BAR,COPPER 1/2"X2"X10'	In Stock	
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock	
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock	
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock	
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock	
BDE - SPILLWAY #1-SALMON RIVE - Lift gearboxes/nuts	In Stock	
BDE - INTAKE GATE - BACKPLANE,6 SLOT MODICON	In Stock	
BDE - DISCONNECT SWITCH 29-1 - Complete Unit	In Stock	
BDE - Generator SLIPRING/BRUSH RIGGING - Carbon Brushes	In Stock	
BDE - Generator SLIPRING/BRUSH RIGGING - Brush Holders	In Stock	
BDE - Generator SLIPRING/BRUSH RIGGING - Slip Ring	In Stock	
BDE - TURBINE GUIDE BEARING - Bearing	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE200130R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205011R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205012R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205014R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300661R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300686R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300690R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300698R0001	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300766R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305043R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305069R0001	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE30598R1	In Stock	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE401481RD001	In Stock	
BDE - EXCITATION CONTROLS - COIL,ABB HIER464920P1	In Stock	
BDE - EXCITATION CONTROLS - MAINBOARD,ABB HIER465176R22	In Stock	
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock	
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock	
BDE - EXCITATION CONTROLS - RESISTOR,FIELD DISCHARGE	In Stock	
BDE - EXCITATION CONTROLS - SHUNT,ABB UXAB269330R909	In Stock	
BDE - EXCITATION CONTROLS - VARISTOR,ABB 3ACD5245A003	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - BREAKER,ABB HIER466757P2331 (entire unit)	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - SHUNT,ABB UXAB269350R909	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239260R002	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239299R0003	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB269399R032	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - ARC-CHUTE,ABB UXAB269399R012	In Stock	
BDE - GENERATOR - CREEP DETECTOR Assembly,129 Vdc	In Stock	
BDE - GENERATOR - PLATES,BRAKE (24 PER SET)	In Stock	
BDE - GENERATOR - SWITCH,WOODWARD 8935-139	In Stock	
BDE - Exciter POWER ELECTRONICS - Pulse Transformers	In Stock	
BDE - Exciter POWER ELECTRONICS - BRIDGE,ABB S00772	In Stock	
BDE - Exciter POWER ELECTRONICS - FUSE,ABB 6,6URD32TTF0800	In Stock	
BDE - Exciter POWER ELECTRONICS - FAN Assembly,ABB 500773	In Stock	
BDE - Exciter POWER ELECTRONICS - THYRISTOR,ABB 5STP27F1200	In Stock	
BDE - RECTIFYING TRANSFORMER - Full Unit	In Stock	
BDE - SURFACE AIR COOLERS - SAC Unit	In Stock	
BDE - SURFACE AIR COOLERS - Tubes	In Stock	
BDE - THRUST/GUIDE BEARING COOLERS - Cooler	In Stock	
BDE - ROTOR POLES - Pole	In Stock	
BDE - STATOR WINDINGS - UNIT 1 - CONNECTOR,STATOR CU	In Stock	
BDE - STATOR WINDINGS - UNIT 1 to 4 - Coils	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Springs	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Oil	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - TRANSMITTER,DIFF	In Stock	
BDE - GOVERNOR - BEARING,DASHPOT LINK	In Stock	
BDE - GOVERNOR - BRACKET,WOODWARD 11002-57	In Stock	
BDE - GOVERNOR - BRACKET,WOODWARD 91588	In Stock	
BDE - GOVERNOR - BUSHING,PILOT VALVE	In Stock	
BDE - GOVERNOR - BUSHING,SNAP ACTION	In Stock	
BDE - GOVERNOR - BUSHING,WW 11002-65	In Stock	
BDE - GOVERNOR - BUSHING, DASHPOT - SMALL	In Stock	
BDE - GOVERNOR - BUSHING, DASHPOT - LARGE	In Stock	
BDE - GOVERNOR - CABLE,AIRCRAFT 1/4 187083	In Stock	
BDE - GOVERNOR - CLIP,WW 11002-16	In Stock	
BDE - GOVERNOR - COIL,DASHPOT	In Stock	
BDE - GOVERNOR - COIL,PARTIAL SHUTDOWN RESET	In Stock	
BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID	In Stock	
BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID 65SD	In Stock	
BDE - GOVERNOR - COIL,WW 202132	In Stock	
BDE - GOVERNOR - CONTACT,CONTACTOR-TYPE DG-	In Stock	
BDE - GOVERNOR - DASHPOT,WW 161314	In Stock	
BDE - GOVERNOR - DIODE,WW 202891	In Stock	
BDE - GOVERNOR - DISC,RELIEF VALVE	In Stock	
BDE - GOVERNOR - DISC,UNLOADER	In Stock	
BDE - GOVERNOR - GASKET KIT,WOODWARD 8926-137	In Stock	
BDE - GOVERNOR - GASKET,WOODWARD 1327-816	In Stock	
BDE - GOVERNOR - GASKET,WOODWARD 206317	In Stock	
BDE - GOVERNOR - LEVER,CONNECTING LOWER	In Stock	
BDE - GOVERNOR - LEVER,LOWER FLOATING	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - GOVERNOR - LEVER,UPPER FLOATING	In Stock	
BDE - GOVERNOR - LINK,WOODWARD 070346	In Stock	
BDE - GOVERNOR - LOCKWASHER,BEARING	In Stock	
BDE - GOVERNOR - MOTOR ASSEMBLY,C/W SHAFT & GEAR	In Stock	
BDE - GOVERNOR - MOTOR ASSEMBLY,GATE LIMIT	In Stock	
BDE - GOVERNOR - MOTOR,GOVERNOR SPEED 28 V	In Stock	
BDE - GOVERNOR - MOTOR,SYNCHRONIZING	In Stock	
BDE - GOVERNOR - MOTOR, VIBRATING OIL	In Stock	
BDE - GOVERNOR - FILTER,HYD 932633Q	In Stock	
BDE - GOVERNOR - PIN,BALLARM	In Stock	
BDE - GOVERNOR - PIN,DASHPOT	In Stock	
BDE - GOVERNOR - PIN,LOWER DRIVE	In Stock	
BDE - GOVERNOR - PIN,PIVOT	In Stock	
BDE - GOVERNOR - PIN,WOODWARD 11002-71	In Stock	
BDE - GOVERNOR - PIN,WOODWARD 11002-75	In Stock	
BDE - GOVERNOR - PLUNGER,SNAP ACTION	In Stock	
BDE - GOVERNOR - POTENTIOMETER,1250OH 0.24 A	In Stock	
BDE - GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock	
BDE - GOVERNOR - RETAINER,SWITCH	In Stock	
BDE - GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock	
BDE - GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock	
BDE - GOVERNOR - SOLENOID,125 Vdc	In Stock	
BDE - GOVERNOR - SOLENOID,125 Vdc 211E	In Stock	
BDE - GOVERNOR - SPRING,PILOT VALVE LINK	In Stock	
BDE - GOVERNOR - SPRING,RELIEF	In Stock	
BDE - GOVERNOR - SPRING,UNLOADER	In Stock	
BDE - GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock	
BDE - GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING,SPEED SIGNAL	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN,DOWEL - SPEED SWITCH	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PLATE,MOUNTING - MERCURY	In Stock	
BDE - GOVERNOR SPEED GENERATOR - RING,ROTOR	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN,ROCKER ARM	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 1800125	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 111006	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING,PMG P/N Z995205	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN,BALLARM	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE UPPER D	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE LOWER D	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BALLARM,SPEED SWITCH	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN,TAPERED	In Stock	
BDE - GOVERNOR SPEED GENERATOR - SPRING,SPEED SWITCH	In Stock	
BDE - GOVERNOR SPEED GENERATOR - STATOR,P.M.G.	In Stock	
BDE - GUIDE BEARING SEGMENTS - bearing segments,	In Stock	
BDE - THRUST BEARING SEGMENTS - bearing segments,	In Stock	
BDE - UNIT 7 GOVERNOR - FILTER,HYD 932633Q	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,BALLARM	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,DASHPOT	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,LOWER DRIVE	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,PIVOT	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,ROCKER ARM	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-71	In Stock	
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-75	In Stock	
BDE - UNIT 7 GOVERNOR - PLUNGER,SNAP ACTION	In Stock	
BDE - UNIT 7 GOVERNOR - POTENTIOMETER,1250OH 0.24 A	In Stock	
BDE - UNIT 7 GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock	
BDE - UNIT 7 GOVERNOR - RETAINER,SWITCH	In Stock	
BDE - UNIT 7 GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock	
BDE - UNIT 7 GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock	
BDE - UNIT 7 GOVERNOR - SENSOR,LOAD GOVERNOR	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - UNIT 7 GOVERNOR - SOLENOID,125 Vdc	In Stock	
BDE - UNIT 7 GOVERNOR - SOLENOID,125 Vdc 211E	In Stock	
BDE - UNIT 7 GOVERNOR - SPRING,PILOT VALVE LINK	In Stock	
BDE - UNIT 7 GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock	
BDE - UNIT 7 GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock	
BDE - UNIT 7 GOVERNOR - STATOR,PERMANENT MAGNET	In Stock	
BDE - UNIT 7 GOVERNOR - SPRING,SPEED SWITCH	In Stock	
BDE - UNIT 7 TURBINE - Carbon Seal	In Stock	
BDE - UNIT 7 TURBINE - wicket gate	In Stock	
BDE - UNIT 7 TURBINE - turbine bearing	In Stock	
BDE - Unit 7 DRAFT TUBE-TURBINE - Water Level Probe	In Stock	
BDE - Unit 7 HEADCOVER ASSEMBLY - BOTTOM RING P001 bushing	In Stock	
BDE - Unit 7 HEADCOVER ASSEMBLY - BUSHING,LOWER HEAD COVER P001	In Stock	
BDE - Unit 7 HEADCOVER ASSEMBLY - PACKING,V-TYPE 3/8 EASY	In Stock	
BDE - Unit 7 OPERATING RING - Linkage	In Stock	
BDE - Unit 7 OPERATING RING - BUSHING,LINK PIN	In Stock	
BDE - Unit 7 OPERATING RING - CAP,SHEARPIN	In Stock	
BDE - Unit 7 OPERATING RING - PIN,ECCENTRIC P005	In Stock	
BDE - Unit 7 OPERATING RING - PIN,LINK P006	In Stock	
BDE - Unit 7 OPERATING RING - PIN,ROD SHEARPIN	In Stock	
BDE - Unit 7 OPERATING RING - PIN,UPPER DRIVE	In Stock	
BDE - Unit 7 OPERATING RING - LEVER,WICKET GATE	In Stock	
BDE - Unit 7 ROTOR ASSEMBLY - POLE	In Stock	
BDE - Unit 7 RUNNER - TURBINE - CARBON SEAL	In Stock	
BDE - Unit 7 SERVOMOTOR # 1 - Piston Ring	In Stock	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,SERVOMOTOR	In Stock	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V TYPE 2-EASY	In Stock	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V-TYPE 9"X8"ID	In Stock	
BDE - UNIT 7 EXCITER - BOARD,DIGITAL I/O	In Stock	
BDE - UNIT 7 EXCITER - BOARD,I/O ANALOG	In Stock	
BDE - UNIT 7 EXCITER - BOARD,MEASURING ABB	In Stock	
BDE - UNIT 7 EXCITER - BOARD,POWER SYSTEM STABI	In Stock	
BDE - UNIT 7 EXCITER - CAPACITOR,20 MF +-10% 150 V	In Stock	
BDE - UNIT 7 EXCITER - COMPONENT, INTEG CCT	In Stock	
BDE - UNIT 7 EXCITER - INTEG CCT	In Stock	
BDE - UNIT 7 EXCITER - CONTACT,ISOLATING	In Stock	
BDE - UNIT 7 EXCITER - MODULE,ABB DCS500B200361	In Stock	
BDE - UNIT 7 EXCITER - PANEL,CONTROL	In Stock	
BDE - UNIT 7 EXCITER - POWER SUPPLY,ABB 3BHE013940R00	In Stock	
BDE - UNIT 7 EXCITER - RELAY,GROUND VOLTAGE	In Stock	
BDE - Unit 7 Generator Field Breaker - Main Moving Contacts	In Stock	
BDE - Unit 7 Generator Field Breaker - Main Fixed Contacts	In Stock	
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT CLOSING	In Stock	
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT OPENING	In Stock	
BDE - Unit 7 Generator Field Breaker - Charging Motor	In Stock	
BDE - Unit 7 Generator Field Breaker - BREAKER,ABB EZNE1600MS4-B1	In Stock	
BDE - Unit 7 Generator Field Breaker - ARC CHUTE,ABB UXAB289199215	In Stock	
BDE - Unit 7 Generator Field Breaker - MOTOR,CHARGING	In Stock	
BDE - Unit 7 Generator Field Breaker - CONTACT,ABB UXAB239Z60R0	In Stock	
BDE - Unit 7 Control Board - BOARD,CONTROL	In Stock	
BDE - UNIT 7 HYDRAULIC GENERATOR - coolers	In Stock	
BDE - Unit 7 PMG - BEARING,SPEED SIGNAL	In Stock	
BDE - Unit 7 PMG - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	
BDE - Unit 7 PMG - PIN,DOWEL - SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - PLATE,MOUNTING - MERCURY	In Stock	
BDE - Unit 7 PMG - RING,ROTOR	In Stock	
BDE - Unit 7 PMG - PIN,ROCKER ARM	In Stock	
BDE - Unit 7 PMG - BEARING,WW 1800125	In Stock	
BDE - Unit 7 PMG - BEARING,WW 111006	In Stock	
BDE - Unit 7 PMG - BEARING,PMG P/N Z995205	In Stock	
BDE - Unit 7 PMG - PIN,BALLARM	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - Unit 7 PMG - BUSHING,URETHANE UPPER D	In Stock	
BDE - Unit 7 PMG - BUSHING,URETHANE LOWER D	In Stock	
BDE - Unit 7 PMG - BALLARM,SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - PIN,TAPERED	In Stock	
BDE - Unit 7 PMG - SPRING,SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - STATOR,P.M.G.	In Stock	
BDE - Unit 7 VIBRATION MONITORING - PICK-UP,NON-CONTACT	In Stock	
BDE - Unit 7 VIBRATION MONITORING - PICK-UP,SPEED SENSING	In Stock	
BDE - Unit 7 VIBRATION MONITORING - POWER SUPPLY,IRD PCB 29128	In Stock	
BDE - Unit 7 GENERATOR COOLING WATER SYSTEM - TRANSMITTER,DIFF	In Stock	
BDE - Unit 7 WICKET GATES - GATE, WICKET	In Stock	
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Collector rings	In Stock	
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Brushes	In Stock	
BDE - Unit 7 SURFACE AIR COOLERS - Tubes	In Stock	
BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers	In Stock	
BDE - Unit 7 NEUTRAL GROUND TRANSFORMER - transformer	In Stock	
BDE - Unit 7 ROTOR - Pole	In Stock	
BDE - Unit 7 STATOR WINDINGS - Stator Bars	In Stock	
BDE - Unit 7 STATOR WINDINGS - Wedges	In Stock	
BDE - Unit 7 TURBINE GUIDE BEARING - bearing	In Stock	
BDE - Unit 7 GENERATOR GUIDE BEARING - segments	In Stock	
BDE - Unit 7 THRUST BEARING - Thrust Pads	In Stock	
BDE - Unit 7 THRUST BEARING - Rotating Ring	In Stock	
BDE - PANEL STATION SERVICE - PH #2 - ACB	In Stock	
CAT - ACCUMULATOR TANK - COIL AUTO AIR CHARGING SOLND	In Stock	
CAT - Governor Control System - CABLE DEFLECTOR FDBK AMP	In Stock	
CAT - Governor Control System - CABLE FEEDBACK 20'	In Stock	
CAT - Governor Control System - CABLE FEEDBACK 200'	In Stock	
CAT - Governor Control System - CABLE FEEDBACK 50'	In Stock	
CAT - Governor Control System - CABLE,NEEDLE FDBK AMP,	In Stock	
CAT - Governor Control System - CABLE PROPORTIONAL VLV	In Stock	
CAT - Governor Control System - CABLE90 DEG.5' ZVPU,	In Stock	
CAT - Governor Control System - Power Supply	In Stock	
CAT - Governor Control System - Power Supply 24 V	In Stock	
CAT - Governor - JOINT,UNIVERSAL SSG #1787058	In Stock	
CAT - NEEDLE VALVE ASS (6) - Tip	In Stock	
CAT - NEEDLE VALVE ASS (6) - Shuttle Valve	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	
CAT - NEEDLE VALVE ASS (6) - Casing guide U/S	In Stock	
CAT - NEEDLE VALVE ASS (6) - Casing guide D/S	In Stock	
CAT - NEEDLE VALVE ASS (6) - Needle seat	In Stock	
CAT - NEEDLE VALVE ASS (6) - BUSHING NOZZLE 374527007/P001	In Stock	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT,	In Stock	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT 20,	In Stock	
CAT - NEEDLE VALVE ASS (6) - CHAIN,DBS FCS-A1-15	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONTROL DEVICE,NEEDLE	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	
CAT - NEEDLE VALVE ASS (6) - Amplifier/proportional	In Stock	
CAT - NEEDLE VALVE ASS (6) - seal piston ring	In Stock	
CAT - NEEDLE VALVE ASS (6) - Seal	In Stock	
CAT - Electronic Governor - BUSHING CABLE PROP VLV,	In Stock	
CAT - Electronic Governor - CONNECTOR,MLDT ROD BALL	In Stock	
CAT - Electronic Governor - CONVERTER,SERIAL/ETHERNET	In Stock	
CAT - Electronic Governor - HOLDER,CIRCUIT BREAKER	In Stock	
CAT - Electronic Governor - INTERFACE,ETHERNET VERSA	In Stock	
CAT - Electronic Governor - MODULE,GE AMPLIFIER	In Stock	
CAT - Electronic Governor - MODULE,GE PT INTERFACE	In Stock	
CAT - Electronic Governor - MODULE,PLUG-IN DIODE	In Stock	
CAT - Electronic Governor - MODULE,VERSAMAX 16 PT	In Stock	
CAT - Electronic Governor - MODULE,VERSAMAX 32 PT	In Stock	
CAT - Electronic Governor - MODULE,VERSAMAX 4 AO	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - Electronic Governor - PC,ATLAS VX WORKS	In Stock	
CAT - Electronic Governor - VERSAMAX power supply	In Stock	
CAT - Electronic Governor - PROBE,SPEED ZVPU	In Stock	
CAT - Electronic Governor - RELAY,14 PIN PLUG 24 Vdc	In Stock	
CAT - Electronic Governor - LVDT deflector	In Stock	
CAT - Electronic Governor - Pos.Xducer	In Stock	
CAT - Electronic Governor - POs.Xducer	In Stock	
CAT - Electronic Governor - Deflector proportional	In Stock	
CAT - Electronic Governor - Rod vdeflector	In Stock	
CAT - Electronic Governor - PC, Atlas 2	In Stock	
CAT - Electronic Governor - Guide Ball Slide	In Stock	
CAT - Governor Hydraulics - ELEMENT,FILTER SM 10	In Stock	
CAT - Governor Hydraulics - ELEMENT,FILTER SM 25	In Stock	
CAT - Governor Hydraulics - DEFLECTOR,SERVOMOTOR	In Stock	
CAT - Governor Hydraulics - PLUG,C/V 010168-390-163	In Stock	
CAT - Governor Hydraulics - PLUG,C/V 021002-281-208	In Stock	
CAT - Governor Hydraulics - PLUG,ESCHER WYSS	In Stock	
CAT - Governor Hydraulics - Deflector valve	In Stock	
CAT - Governor Hydraulics - Piston seal 725X8 X3/8	In Stock	
CAT - Governor Hydraulics - Piston seal 9X8X1/2	In Stock	
CAT - Governor Hydraulics - Seal	In Stock	
CAT - Governor Hydraulics - Pressure Switch	In Stock	
CAT - Governor Hydraulics - OIL,TURBINE 46 (205 L)	In Stock	
CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door	In Stock	
CAT - ROTOR - GENERATOR - Pole	In Stock	
CAT - Turbine - Runner	In Stock	
CAT - GENERATOR - MODULE,TYP 1CD 108 M 2-02 vibro-meter	In Stock	
CAT - GENERATOR - OVERCURRENT relay	In Stock	
CAT - GENERATOR - RELAY,TIME DELAY .6 - 1.0	In Stock	
CAT - GENERATOR - rotating ring	In Stock	
CAT - GENERATOR - INSLTR,SLIP RING	In Stock	
CAT - GENERATOR - Brake ring	In Stock	
CAT - GENERATOR - Brake valve	In Stock	
CAT - GENERATOR - Brake Solenoid	In Stock	
CAT - Isolated Phase Bus - PT fuse	In Stock	
CAT - STATION SERVICE SYSTEM - COIL,CLOSING 129 Vdc	In Stock	
CAT - STATION SERVICE SYSTEM - Arc Chute	In Stock	
CAT - STATION SERVICE SYSTEM - Trip Coil	In Stock	
CAT - STATION SERVICE SYSTEM - Main Drawout Contact	In Stock	
CAT - STATION SERVICE SYSTEM - Contact Moving Arc	In Stock	
CAT - STATION SERVICE SYSTEM - Contact Stationary Arc	In Stock	
CAT - STATION SERVICE SYSTEM - Undervoltage Coil	In Stock	
CAT - STATION SERVICE SYSTEM - Contact 1600 A	In Stock	
CAT - STATION SERVICE SYSTEM - CT 400-800	In Stock	
CAT - STATION SERVICE SYSTEM - CT 800-1600	In Stock	
CAT - SURFACE AIR COOLERS - Surface Air Cooler	In Stock	
CAT - Generator Bearing - Cooler	In Stock	
CAT - Stator Assembly - BAR STATOR BOTTOM,	In Stock	
CAT - Stator Assembly - BAR STATOR TOP,	In Stock	
CAT - Stator Assembly - CAP STATOR WINDING END,	In Stock	
CAT - Stator Assembly - JUMPER,STATOR ASM 105	In Stock	
CAT - Stator Assembly - JUMPER,STATOR ASM 107	In Stock	
CAT - Stator Assembly - JUMPER,STATOR ASM 108	In Stock	
CAT - Stator Assembly - JUMPER,STATOR ASM 109	In Stock	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	
CAT - Stator Assembly - Wedge	In Stock	
CAT - Stator Assembly - Wedge	In Stock	
CAT - Stator Assembly - Connector	In Stock	
CAT - Stator Assembly - Slider	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - Stator Assembly - Slider	In Stock	
CAT - Stator Assembly - Slider	In Stock	
CAT - Exciter # 1 - COIL,SHUNT CLOSING	In Stock	
CAT - Exciter # 1 - COIL,SHUNT OPENING	In Stock	
CAT - Exciter # 1 - CONTACT,ISOLATING	In Stock	
CAT - Exciter # 1 - MODULE,THYRISTOR BRIDGE	In Stock	
CAT - Exciter # 1 - SUPPLY,110-220 V	In Stock	
CAT - Exciter # 1 - Breaker	In Stock	
CAT - Exciter # 1 - Arc Chute	In Stock	
CAT - Exciter # 1 - Control Board	In Stock	
CAT - Exciter # 1 - I/O ANALOG BOARD CONTROL,	In Stock	
CAT - Exciter # 1 - DIGITAL I/O BOARD,	In Stock	
CAT - Exciter # 1 - PANEL,CONTROL	In Stock	
CAT - Exciter # 1 - BOARD POWER SYSTEM STABI,	In Stock	
CAT - Exciter # 1 - BOARD MEASURING,	In Stock	
CAT - Exciter # 1 - MOTOR,CHARGING	In Stock	
CAT - EXCITER NO. 2 - CONTROL BOARD,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB HIER319619R2,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB KX9170A V1,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN 2010B-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UNC001D-E,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UNS0026A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0016A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0025A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0026A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0027A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0031A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN004A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0079A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0083A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0089A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0091A-P,CARD ABB UN0093A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0503A-P,	In Stock	
CAT - EXCITER NO. 2 - Unitrol Card	In Stock	
CAT - EXCITER NO. 2 - Thyristor	In Stock	
CAT - EXCITER NO. 2 - Transformer	In Stock	
CAT - EXCITER NO. 2 - Field Voltage Transducer	In Stock	
CAT - EXCITER NO. 2 - Shunt Voltage Transducer	In Stock	
CAT - EXCITER NO. 2 - Analog Input Transducer	In Stock	
CAT - EXCITER NO. 2 - Fuse 600Amp	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0510C-9,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0516A,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0900B-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN0901B-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN1001C-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN1004A-P,	In Stock	
CAT - EXCITER NO. 2 - COIL,SHUNT CLOSING	In Stock	
CAT - EXCITER NO. 2 - COIL,125 VOLT 60HZ	In Stock	
CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB UN1024C-P,	In Stock	
CAT - EXCITER NO. 2 - CARD ABB 1WX 174-2,	In Stock	
CAT - EXCITER NO. 2 - CARD BBC UN0077AP,	In Stock	
CAT - EXCITER NO. 2 - CARD,BBC UN2001F-P	In Stock	
CAT - BREAKERS BY BROWN BOVERI, 600 V - spare field breaker in used spare exciter	In Stock	
CAT - Slip ring/brush Rigging Assembly - Ring, Collector Assembly	In Stock	
CAT - Slip ring/brush Rigging Assembly - Brushes	In Stock	
CAT - Slip ring/brush Rigging Assembly - Brush Holder	In Stock	
CAT - Slip ring/brush Rigging Assembly - Insulator	In Stock	
CAT - Governor Pumps - Pump	In Stock	
CAT - Governor Pumps - INSERT,CURVED JAW SPIDER	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - Rotor Poles - Entire Pole	In Stock	
CAT - Stator Windings - JUMPER,STATOR ASM 105	In Stock	
CAT - Stator Windings - JUMPER,STATOR ASM 107	In Stock	
CAT - Stator Windings - JUMPER,STATOR ASM 108	In Stock	
CAT - Stator Windings - JUMPER,STATOR ASM 109	In Stock	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	
CAT - THRUST BEARING - thrust pads	In Stock	
CAT - Turbine Guide Bearing - Bearing	In Stock	
CAT - Guide Bearing Segments - Bearing	In Stock	
CAT - Thrust Bearing Segments - Segments	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLND. ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 65SD ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634,motor	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640,MOTOR	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT,ROD,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - filter	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM,	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - Air admission solenoid	In Stock	
HLK - GOVERNOR SPEED GENERATOR - GEAR,WOODWARD 1447-640	In Stock	
HLK - GOVERNOR SPEED GENERATOR - gear drive	In Stock	
HLK - MECHANICAL GOVERNOR CONTROLS - Motor limit	In Stock	
HLK - MECHANICAL GOVERNOR CONTROLS - Motor speeder	In Stock	
HLK - MECHANICAL GOVERNOR CONTROLS - Unloader timing valve	In Stock	
HLK - OPERATING RING - Bearing pads	In Stock	
HLK - SERVOMOTOR #1 - servomotor repair kit	In Stock	
HLK - SERVOMOTOR ASSEMBLY - shear pins	In Stock	
HLK - Rotor Assembly - HLK Generator - Rotor pole	In Stock	
HLK - TURBINE - Carbon seal,	In Stock	
HLK - TURBINE - BEARING SEGMENT TURBINE,	In Stock	
HLK - TURBINE - PLATE BEARING,	In Stock	
HLK - TURBINE - SEAL TURBINE,	In Stock	
HLK - TURBINE - Wicket gate lever	In Stock	
HLK - TURBINE - Friction hub	In Stock	
HLK - TURBINE - Friction hub	In Stock	
HLK - TURBINE - Packing box	In Stock	
HLK - TURBINE - link thin	In Stock	
HLK - TURBINE - link thick	In Stock	
HLK - TURBINE - wicket gate seal	In Stock	
HLK - TURBINE - Dowel	In Stock	
HLK - TURBINE - Link pin	In Stock	
HLK - TURBINE - Eccentric pin	In Stock	
HLK - WICKET GATES - wicket gate	In Stock	
HLK - GENERATOR - brake shoes	In Stock	
HLK - GENERATOR - SOLENOID,GENERATOR AIR VALVE,	In Stock	
HLK - GENERATOR - Generator air valve	In Stock	
HLK - HEADCOVER ASSEMBLY - SEAL TURBINE,	In Stock	
HLK - HEADCOVER ASSEMBLY - SEALWICKET GATE,	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 MM,	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - LOWER,	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - UPPER,	In Stock	
HLK - HEADCOVER ASSEMBLY - Bushing upper	In Stock	
HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure drum	In Stock	
HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON)	In Stock	
HLK - Thrust/Guide Bearing Coolers - Hi pressure lift pump	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - ISOLATED PHASE BUS - PT fuse	In Stock	
HLK - STATOR ASSEMBLY - Stator connection caps	In Stock	
HLK - STATOR ASSEMBLY - Stator bars	In Stock	
HLK - EXCITATION - Bridge (entire module)	In Stock	
HLK - Slip ring /Brush Rigging - Carbon brush	In Stock	
HLK - Slip ring /Brush Rigging - Brush holder	In Stock	
HLK - Rotor - Pole	In Stock	
HLK - STATOR WINDINGS - UNIT 1 - robel bars	In Stock	
HLK - TURBINE GUIDE BEARING - BEARING, Segment TURBINE	In Stock	
HLK - GUIDE BEARING SEGMENTS (SET) - BEARING,SEGMENT	In Stock	
HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER,PRESS 0-375	In Stock	
HLK - THRUST BEARING SEGMENTS (SET) - Thrust Bearing Segments	In Stock	
HLK - UPPER GUIDE BEARING SEGMENTS - Upper Guide Bearing Segments	In Stock	
HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER,TEMPERATURE	In Stock	
HLK - GOVERNOR SPEED GENERATOR - Speed switch bracket	In Stock	
GCL - Governor Control System - Pressure Switch	In Stock	
GCL - Governor Control System - POWER SUPPLY,18-32 Vdc	In Stock	
GCL - Governor Control System - TRANSMITTER,PRESS 0-2000	In Stock	
GCL - Governor Control System - TRANSMITTER,TEMP 4-20 MA	In Stock	
GCL - Governor Hydraulic System - Filter, Element NS-7	In Stock	
GCL - Governor Hydraulic System - Joint, Shaft Parker	In Stock	
GCL - Governor Hydraulic System - Pump, Vane Vick	In Stock	
GCL - Governor Hydraulic System - Seal, Polypak "U" Cup	In Stock	
GCL - Governor Hydraulic System - Valve, Relief	In Stock	
GCL - Governor Hydraulic System - Valve, Check 1 6000 psi	In Stock	
GCL - Governor Hydraulic System - Valve, Proportional	In Stock	
GCL - Operating Ring - Washer, Ring Seal	In Stock	
GCL - Operating Ring - BUSHING,GE 226043126X015	In Stock	
GCL - Servomotor - Rod, Seal H254-918	In Stock	
GCL - Servomotor - Rod, Seal H092-730	In Stock	
GCL - Servomotor Assembly - Ring, Piston GE	In Stock	
GCL - Speed Signal Generator - Pickup, Zero Velocity	In Stock	
GCL - Turbine Assembly - Packing Ring, Segment	In Stock	
GCL - Turbine Assembly - Pad, Stop GE	In Stock	
GCL - Turbine Assembly - Seal, Inflatable	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure GE	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure -5TO55	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG	In Stock	
GCL - Turbine Assembly - Transmitter, Diff Pressure	In Stock	
GCL - Turbine Assembly - Ring, Rotating GE	In Stock	
GCL - Turbine Assembly - Ring, Sealing C/W Spring	In Stock	
GCL - Turbine Assembly - Ring, Wear	In Stock	
GCL - Turbine Assembly - Valve, Check Wafer 12"D	In Stock	
GCL - Wicket Gates - Bushing, GE 226043126X015	In Stock	
GCL - Wicket Gates - Gate, Wicket GE	In Stock	
GCL - Wicket Gates - Level, Gate GE	In Stock	
GCL - Wicket Gates - Lever, Shear GE	In Stock	
GCL - Wicket Gates - Liner, Gate Operating	In Stock	
GCL - Wicket Gates - Link, GE	In Stock	
GCL - Wicket Gates - Pin, Eccentric	In Stock	
GCL - Wicket Gates - Pin, Shear GE	In Stock	
GCL - Wicket Gates - Pin, Taper GE	In Stock	
GCL - Wicket Gates - Plate, Retaining GE	In Stock	
GCL - Wicket Gates - Plate, Top GE	In Stock	
GCL - Wicket Gates - Shim, Laminum	In Stock	
GCL - Wicket Gates - Sleeve, BRS 210mm	In Stock	
GCL - Wicket Gates - Spacer	In Stock	
GCL - Generator - Top Stator Bars (36)	In Stock	
GCL - Generator - Bottom Stator Bars (18)	In Stock	
GCL - Generator - Guide Bearing, GE	In Stock	
GCL - Generator - Converter, RTD Temperature	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Generator - Converter, RTD Universal	In Stock	
GCL - Generator - Creep Detector ASSEMBLY, 129 V	In Stock	
GCL - Generator - Device, Surge Suppression	In Stock	
GCL - Generator - Fuse, TEMP Limiter	In Stock	
GCL - Generator - Fuse, Voltage XFMR	In Stock	
GCL - Generator - Jumper, Pole ASM #1	In Stock	
GCL - Generator - Jumper Pole ASM #2	In Stock	
GCL - Generator - Jumper Pole ASM #3	In Stock	
GCL - Generator - Jumper Pole ASM #4	In Stock	
GCL - Generator - Level, Indicator Magnetic	In Stock	
GCL - Generator - Oil, Turbine 46 (205 L)	In Stock	
GCL - Generator - Packing, V-Type GE	In Stock	
GCL - Generator - Pin, Taper 25 mm x 90 mm	In Stock	
GCL - Generator - Plate, Brake GE	In Stock	
GCL - Generator - Plate, Locating Pivoted	In Stock	
GCL - Generator - Pole, Wound GE	In Stock	
GCL - Generator - Probe, 741 GE	In Stock	
GCL - Generator - RTD, 12.5" -50-550 DEG	In Stock	
GCL - Generator - RTD, 17" -50-550 DEG C	In Stock	
GCL - Transmitter, PFM	In Stock	
GCL - Transmitter, Temp 4-20 MA	In Stock	
GCL - Switch, Press 200 PSI 15 A	In Stock	
GCL - Switch, 20-160 ABB 104-324-46	In Stock	
GCL - Thermometer, ADJ 0-55	In Stock	
GCL - Transducer, Balluff Track	In Stock	
GCL - Shim, GE 007	In Stock	
GCL - Shim, GE 008	In Stock	
GCL - Shoe, brake GE 6201B6815L005	In Stock	
GCL - Spring, GE	In Stock	
GCL - Valve, Purge GE	In Stock	
GCL - Washer, Brake Plate	In Stock	
GCL - Washer, GE 105000100	In Stock	
GCL - Ring Assembly, Collector	In Stock	
GCL - Stick, Joint Horz	In Stock	
GCL - Stick, Joint Vert	In Stock	
GCL - Switch, Press Actuated	In Stock	
GCL - Switch, Press Gran 20 W	In Stock	
GCL - Seal, Top Guide Bearing	In Stock	
GCL - Runner - Seal, 770 mm x 730 mm x 25 mm	In Stock	
GCL - Surface Air Coolers - Cooler, Surface Air	In Stock	
GCL - Thrust/Guide Bearing Coolers - Coil, Cooling GE	In Stock	
BDE - RECTIFYING TRANSFORMER - Insulating Fluid	In Stock	
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock	
BDE - EXCITATION CONTROLS - Field Flashing Resistor	In Stock	
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	In Stock	
CAT - ACCUMULATOR TANK - Air Admission Valve	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - Solenoid valve	In Stock	
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock	
BDE - EXCITATION CONTROLS - Field Flashing Resistor	In Stock	
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	In Stock	
BDE - TURBINE GUIDE BEARING - oil cooler	In Stock	
HLK - CIRCUIT BREAKER - Primary disconnect	In Stock	Item #68001594
HLK - CIRCUIT BREAKER - Charging motor	In Stock	Item #58608396
HLK - CIRCUIT BREAKER - Motor brush kit	In Stock	Item #65300060
HLK - CIRCUIT BREAKER - Spring release coil	In Stock	Item #68001592
HLK - CIRCUIT BREAKER - Shunt trip coil	In Stock	Item #68001591
HLK - CIRCUIT BREAKER - Anti-pump relay	In Stock	Item #60101058
CAT - Governor Hydraulics - Cooler	In Stock	
CAT - BRAKING JET ASSEMBLY - Control Valve	In Stock	Item #58800486
HLK - EXCITER FIELD BREAKER - Entire unit	In Stock	Item #68001626
BDE - BDE - PUMP,OIL IMO A3DB-275	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - CONTACT,CONTACTOR-TYPE DG-1	In Stock	
BDE - PUMP,OIL IMO A3DB-275	In Stock	
BDE - CONTACT,CONTACTOR-TYPE DG-1	In Stock	
BDE - SHAFT,SERVOMOTOR 4140	In Stock	
BDE - PACKING,V TYPE 2-EASY	In Stock	
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock	
BDE - SHAFT,SERVOMOTOR 4140	In Stock	
BDE - PACKING,V TYPE 2-EASY	In Stock	
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock	
BDE - SHAFT,SERVOMOTOR 4140	In Stock	
BDE - PACKING,V TYPE 2-EASY	In Stock	
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock	
BDE - SHAFT,SERVOMOTOR 4140	In Stock	
BDE - PACKING,V TYPE 2-EASY	In Stock	
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock	
BDE - BOARD ASSEMBLY,IRD 24144	In Stock	
BDE - CARD,IRD 31649	In Stock	
BDE - CARD,PRINTED CIRCUIT	In Stock	
BDE - CREEP DETECTOR ASSEMBLY,129 Vdc	In Stock	
BDE - MONITOR,15" TOUCHSCREEN	In Stock	
BDE - MOTOR,SYNCHRONIZING	In Stock	
BDE - PEN ARM MOVEMENT ASSEMBLY,RECORDR	In Stock	
BDE - PICK-UP,MAGNETIC 5430-929	In Stock	
BDE - PICK-UP,NON-CONTACT	In Stock	
BDE - PICK-UP,SPEED SENSING	In Stock	
BDE - POTENTIOMETER,SPEED	In Stock	
BDE - POTENTIOMETER,1K OH .244 A	In Stock	
BDE - POTENTIOMETER,1250OH 0.24 A	In Stock	
BDE - POTENTIOMETER,1250OH 0.24 A	In Stock	
BDE - POTENTIOMETER,25W 50 OHMS	In Stock	
BDE - POWER SUPPLY, 125-24 Vdc	In Stock	
BDE - POWER SUPPLY,IRD PCB 29128	In Stock	
BDE - POWER SUPPLY,125VDC 8 A	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - POWER SUPPLY,300 W	In Stock	
BDE - POWER SUPPLY,48 Vdc 240 W	In Stock	
BDE - PROBE SYSTEM,CAPACITANCE	In Stock	
BDE - PROBE,CAPACITANCE	In Stock	
BDE - PROCESSOR,MICRO-CENTRAL	In Stock	
BDE - PROCESSOR,PLC	In Stock	
BDE - PROCESSOR,PROG C/W 1772-MJ	In Stock	
BDE - RELAY,ADJUSTABLE AC V SENSOR	In Stock	
BDE - METER, TEMP DIGITAL	In Stock	
BDE - BOARD ASSEMBLY,IRD 24144	In Stock	
BDE - CARD,IRD 31649	In Stock	
BDE - CARD,PRINTED CIRCUIT	In Stock	
BDE - CREEP DETECTOR ASSEMBLY,129 Vdc	In Stock	
BDE - MONITOR,15" TOUCHSCREEN	In Stock	
BDE - MOTOR,SYNCHRONIZING	In Stock	
BDE - PEN ARM MOVEMENT ASSEMBLY,RECORDR	In Stock	
BDE - PICK-UP,MAGNETIC 5430-929	In Stock	
BDE - PICK-UP,NON-CONTACT	In Stock	
BDE - PICK-UP,SPEED SENSING	In Stock	
BDE - POTENTIOMETER,SPEED	In Stock	
BDE - POTENTIOMETER,1K OH .244 A	In Stock	
BDE - POTENTIOMETER,1250 OH 0.24 A	In Stock	
BDE - POTENTIOMETER,1250 OH 0.24 A	In Stock	
BDE - POTENTIOMETER,25 W 50 OHMS	In Stock	
BDE - POWER SUPPLY, 125-24 Vdc	In Stock	
BDE - POWER SUPPLY,IRD PCB 29128	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - POWER SUPPLY,125 Vdc 8 A	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - POWER SUPPLY,300 W	In Stock	
BDE - POWER SUPPLY,48 Vdc 240 W	In Stock	
BDE - PROBE SYSTEM,CAPACITANCE	In Stock	
BDE - PROBE,CAPACITANCE	In Stock	
BDE - PROCESSOR,MICRO-CENTRAL	In Stock	
BDE - PROCESSOR,PLC	In Stock	
BDE - PROCESSOR,PROG C/W 1772-MJ	In Stock	
BDE - RELAY,ADJUSTABLE AC V SENSOR	In Stock	
BDE - METER, TEMP DIGITAL	In Stock	
BDE - RELAY,UNDERVOLTAGE 125 Vac	In Stock	
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock	
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock	
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock	
BDE - RELAY,OVERCURRENT 1600 A 3 POLE	In Stock	
BDE - RELAY,GROUND VOLTAGE	In Stock	
BDE - RELAY,LEVEL CONTROL #1001	In Stock	
BDE - SENSOR,CABLE REEL LINEAR	In Stock	
BDE - CABLE,SERIES 925 RESOLVER	In Stock	
BDE - MODULE,INTERFACE PLC	In Stock	
BDE - VALVE,CONT.1/2 4-WAY SS	In Stock	
BDE - VALVE,CONT.1/2"4-WAY SS	In Stock	
BDE - VALVE,CONTROL 1" SS	In Stock	
BDE - VALVE,CONTROL 2" SS	In Stock	
BDE - VALVE,CONTROL 2" SS	In Stock	
BDE - seal movable	In Stock	
BDE - seal stationary	In Stock	
BDE - VALVE,CONT.1/2 4-WAY SS	In Stock	
BDE - VALVE,CONT.1/2"4-WAY SS	In Stock	
BDE - VALVE,CONTROL 1" SS	In Stock	
BDE - VALVE,CONTROL 2" SS	In Stock	
BDE - VALVE,CONTROL 2" SS	In Stock	
BDE - stationary ring	In Stock	
BDE - seal stationary	In Stock	
BDE - piston U/S	In Stock	
BDE - piston D/S	In Stock	
BDE - PROTRACTOR,ANSUL 423958	In Stock	
BDE - VALVE,1" THERMAL TRIP	In Stock	
BDE - GAS,INERGEN (350F3)	In Stock	
BDE - GAS,INERGEN (425F3)	In Stock	
BDE - BEARING KIT,IR 32127474	In Stock	
BDE - BELT,V IR 95100160	In Stock	
BDE - BELT,V IR 95100558	In Stock	
BDE - COIL,AB CC236	In Stock	
BDE - GASKET SET,IR 30423339	In Stock	
BDE - MOTOR,ELECT 15HP 575 V	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30215222	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30215438	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30292460	In Stock	
BDE - BEARING KIT,IR 32127474	In Stock	
BDE - BELT,V IR 95100160	In Stock	
BDE - BELT,V IR 95100558	In Stock	
BDE - COIL,AB CC236	In Stock	
BDE - GASKET SET,IR 30423339	In Stock	
BDE - MOTOR,ELECT 15 HP 575 V	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30215222	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30215438	In Stock	
BDE - PISTON/PIN ASSEMBLY,IR 30292460	In Stock	
BDE - RING SET,IR 32194144	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - MODULE,ANALOG QUANTUM	In Stock	
BDE - MODULE,CPU MODICON	In Stock	
BDE - MODULE,DISCRETE IN	In Stock	
BDE - MODULE,DISCRETE OUT	In Stock	
BDE - MODULE,ETHERNET QUANTUM	In Stock	
BDE - MODULE,GPS QUANTUM	In Stock	
BDE - MODULE,HOT STANDBY	In Stock	
BDE - MODULE,INTERFACE PLC	In Stock	
BDE - MODULE,RACK FILLER	In Stock	
BDE - MODULE,RELAY OUT	In Stock	
BDE - POWER SUPPLY, 125-24 V dc	In Stock	
BDE - POWER SUPPLY,125 Vdc	In Stock	
BDE - POWER SUPPLY,125 Vdc 8 A	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - REMOTE I/O HEAD,MODICON	In Stock	
BDE - ADAPTER,REMOTE I/O	In Stock	
BDE - BACKPLANE,10 SLOT MODICON	In Stock	
BDE - CABLE,SERIES 925 RESOLVER	In Stock	
BDE - MODULE,ANALOG QUANTUM	In Stock	
BDE - MODULE,CPU MODICON	In Stock	
BDE - MODULE,DISCRETE IN	In Stock	
BDE - MODULE,DISCRETE OUT	In Stock	
BDE - MODULE,ETHERNET QUANTUM	In Stock	
BDE - MODULE,GPS QUANTUM	In Stock	
BDE - MODULE,HOT STANDBY	In Stock	
BDE - MODULE,INTERFACE PLC	In Stock	
BDE - MODULE,RACK FILLER	In Stock	
BDE - MODULE,RELAY OUT	In Stock	
BDE - POWER SUPPLY, 125-24 Vdc	In Stock	
BDE - POWER SUPPLY,125 Vdc	In Stock	
BDE - POWER SUPPLY,125 Vdc 8 A	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - REMOTE I/O HEAD,MODICON	In Stock	
BDE - ADAPTER,REMOTE I/O	In Stock	
BDE - BACKPLANE,10 SLOT MODICON	In Stock	
BDE - FILTER,AIR (ELEMENT ONLY)	In Stock	
BDE - PISTON,PIN ASSEMBLY PE#32054504	In Stock	
BDE - PISTON,PIN ASSEMBLY PE#32054538	In Stock	
BDE - COIL,SULL 250018-971	In Stock	
BDE - FILTER,COOLANT (ELEMENT ONLY)	In Stock	
BDE - GASKET KIT,IR X1453T47	In Stock	
BDE - GASKET,FLEXMASTER 250007-559	In Stock	
BDE - GASKET,SULL 040517	In Stock	
BDE - REGULATOR KIT,SULL 250019-453	In Stock	
BDE - MODULE,ANALOG QUANTUM	In Stock	
BDE - MODULE,CPU MODICON	In Stock	
BDE - MODULE,DISCRETE IN	In Stock	
BDE - MODULE,DISCRETE OUT	In Stock	
BDE - MODULE,ETHERNET QUANTUM	In Stock	
BDE - MODULE,GPS QUANTUM	In Stock	
BDE - MODULE,HOT STANDBY	In Stock	
BDE - MODULE,INTERFACE PLC	In Stock	
BDE - MODULE,RACK FILLER	In Stock	
BDE - MODULE,RELAY OUT	In Stock	
BDE - POWER SUPPLY, 125-24 Vdc	In Stock	
BDE - POWER SUPPLY,125 Vdc	In Stock	
BDE - POWER SUPPLY,125 Vdc 8 A	In Stock	
BDE - POWER SUPPLY,24 Vdc	In Stock	
BDE - REMOTE I/O HEAD,MODICON	In Stock	
BDE - ADAPTER,REMOTE I/O	In Stock	
BDE - BACKPLANE,10 SLOT MODICON	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - MODULE,ANALOG QUANTUM	In Stock	
BDE - MODULE,CPU MODICON	In Stock	
BDE - MODULE,DISCRETE IN	In Stock	
BDE - MODULE,DISCRETE OUT	In Stock	
BDE - MODULE,ETHERNET QUANTUM	In Stock	
BDE - MODULE,GPS QUANTUM	In Stock	
BDE - MODULE,HOT STANDBY	In Stock	
BDE - MODULE,INTERFACE PLC	In Stock	
BDE - MODULE,RACK FILLER	In Stock	
BDE - MODULE,RELAY OUT	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY,125 VDC	In Stock	
BDE - POWER SUPPLY,125VDC 8A	In Stock	
BDE - POWER SUPPLY,24 VDC	In Stock	
BDE - REMOTE I/O HEAD,MODICON	In Stock	
BDE - ADAPTER,REMOTE I/O	In Stock	
BDE - BACKPLANE,10 SLOT MODICON	In Stock	
CAT - ARC-CHUTE STATION SERVICE, 3 PHASE, 600 V	In Stock	
CAT - ARC-CHUTE ABB #15DA045697R1	In Stock	
CAT - BOARD, CONTROL	In Stock	
CAT - BOARD, DIGITAL I/O	In Stock	
CAT - BOARD, I/O ANALOG	In Stock	
CAT - BOARD, MEASURING ABB	In Stock	
CAT - BOARD, POWER SYSTEM STABI	In Stock	
CAT - BREAKER, EXCITER ABB	In Stock	
CAT - COIL, SHUNT CLOSING	In Stock	
CAT - COIL, SHUNT OPENING	In Stock	
CAT - CONTACT,I SOLATING	In Stock	
CAT - MODULE, THYRISTOR BRIDGE	In Stock	
CAT - MOTOR, CHARGING	In Stock	
CAT - PANEL, CONTROL	In Stock	
CAT - POWER SUPPLY, 110-220 VOLT	In Stock	
CAT - RELAY, ASEA RXSF1, RK271 0	In Stock	
CAT - MODULE, THYRISTOR BRIDGE	In Stock	
CAT - RECTIFIER, BRIDGE 250JB6L-8338	In Stock	
CAT - RECTIFIER, BRIDGE 35MB60A-8419	In Stock	
CAT - RECTIFIER, BRIDGE 35MB60A-8421	In Stock	
CAT - THYRISTOR, ABB CS411-20	In Stock	
CAT - CONTROLLER,PLC DL05	In Stock	
CAT - ELEMENT,AFTER FILTER	In Stock	
CAT - ELEMENT,AIR FILTER	In Stock	
CAT - ELEMENT,PRE FILTER	In Stock	
CAT - TEXT DISPLAY,AIR DRYER	In Stock	
CAT - OIL,TURBINE 46 (205L)	In Stock	
CAT - BEARING, GUIDE	In Stock	
CAT - O-RING, NOZZLE M868 X 4	In Stock	
CAT - Rotating Ring	In Stock	
CAT - Thrust Pads	In Stock	
CAT - Rotating Ring	In Stock	
CAT - Rotating Ring	In Stock	
CAT - COIL, CONTACTOR 130 V 84D418	In Stock	
CAT - CONTACT, NORMAL LONG 700C	In Stock	
CAT - CONTACT, NORMAL SHORT 700	In Stock	
CAT - CONTACT, OVERLAP LONG 700	In Stock	
CAT - CONTACT, OVERLAP SHORT 70	In Stock	
CAT - SEAL, SPHERICAL VALVE	In Stock	
CAT - SEAL, SPHERICAL VALVE	In Stock	
CAT - SEAL, SPHERICAL VALVE	In Stock	
CAT - OPERATOR,WORM GEAR 8"	In Stock	
CAT - SWITCH,DIFFERENTIAL PRES	In Stock	
CAT - BEARING,BOWL - INTERMEDIATE	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - BEARING,BOWL - TOP	In Stock	
CAT - BEARING,BRIER HYD33A66	In Stock	
CAT - BEARING,LINESHAFT	In Stock	
CAT - BEARING,STUFFING BOX	In Stock	
CAT - BEARING,SUCTION CASE	In Stock	
CAT - COLLAR,SAND	In Stock	
CAT - FLOAT - 2315	In Stock	
CAT - BELT, V IR 95100558	In Stock	
CAT - GASKET SET, IR 30423339	In Stock	
CAT - PISTON/PIN ASSEMBLY, IR 30215222	In Stock	
CAT - PISTON/PIN ASSEMBLY, IR 30215438	In Stock	
CAT - PISTON/PIN ASSEMBLY, IR 30292460	In Stock	
CAT - RING SET, IR 32194144	In Stock	
CAT - RING SET, IR 32194276	In Stock	
CAT - RING SET, IR 37138146	In Stock	
CAT - RING/GASKET KIT, IR 32133969	In Stock	
CAT - SEAL, OIL IR 32204562	In Stock	
CAT - VALVE ASSEMBLY 35 GA	In Stock	
CAT - VALVE ASSEMBLY 55 GA	In Stock	
CAT - VALVE/GASKET KIT, IR 32133951	In Stock	
CAT - BEARING KIT,IR 32127516	In Stock	
CAT - FILTER,AIR INTAKE - 101T	In Stock	
CAT - FILTER,ELEMENT 10 MICRON	In Stock	
CAT - Cartridge, Oil Separator	In Stock	
CAT - Filter, Oil	In Stock	
CAT - Oil, Cooling Compressor	In Stock	
CAT - Filter, Mat	In Stock	
CAT - Element, Air Filter	In Stock	
GCL - THRISTOR, 5STP18F1800 V11	In Stock	
GCL - XFMR, CT 15 kV	In Stock	
GCL - Pump, Vane Vick	In Stock	
GCL - RELAY,OVERLOAD	In Stock	
GCL - TRANSMITTER,WATER LEVEL	In Stock	
GCL - Ring Assembly, Collector	In Stock	
GCL - Brush, Carb Metric	In Stock	
GCL - Holder, Brush Metric	In Stock	
GCL - Control Board, SDCS-CON-2	In Stock	
GCL - Measuring Board ABB	In Stock	
GCL - Breaker, Volt Autom	In Stock	
GCL - Bushing, HV ABB TO25W0412AT	In Stock	
GCL - Card, Digital I/O ABB	In Stock	
GCL - Card, Analog I/O	In Stock	
GCL - Card, EXT I/O ABB	In Stock	
GCL - Card Measuring SDCS-Pin51	In Stock	
GCL - Contactor, AE LINE 125VDC	In Stock	
GCL - Device, Surge Suppression	In Stock	
GCL - Fan, Cooling 27" ABB	In Stock	
GCL - Fuse,1250A 690V 170M6166	In Stock	
GCL - Module, Serial processor	In Stock	
GCL - Panel, Service UNS 0874A-P	In Stock	
GCL - Power Supply, SDCS-POWL	In Stock	
GCL - Power Supply, UNS0868A-P	In Stock	
GCL - Pole, Wound GE	In Stock	
GCL - Jumper, Pole ASM #1	In Stock	
GCL - Jumper, Pole ASM #2	In Stock	
GCL - Jumper, Pole ASM #3	In Stock	
GCL - Jumper, Pole ASM #4	In Stock	
GCL - Key, Pole Driven	In Stock	
GCL - Key, Pole Stationary	In Stock	
GCL - Bar, Stator Bottom	In Stock	
GCL - Bar, Stator Top	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Bearing, Thrust	In Stock	
GCL - Bearing, Pivoted Guide	In Stock	
GCL - Spring Assembly, Thrust	In Stock	
GCL - Spring, GE	In Stock	
GCL - Oil, Turbine 46 (205L)	In Stock	
GCL - Ring, Rotating GE	In Stock	
GCL - Locating Plate, Pivoted	In Stock	
GCL - Breaker, Volt Automatic	In Stock	
GCL - Bearing, Pivoted Guide GE	In Stock	
GCL - Bearing, Thrust	In Stock	
GCL - Bearing, Guide GE	In Stock	
GCL - Nut, Hex M30X3.5-6H	In Stock	
GCL - PIN,TAPER 25MM X 90MM	In Stock	
GCL - SCREW,CAP M30X3.5-6GX130MM	In Stock	
GCL - VALVE,PURGE GE	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - VALVE,INLET MAIN KIT	In Stock	
GCL - TRANSMITTER, FRAZIL ICE	In Stock	
GCL - Bushing, Bottom Shaft	In Stock	
GCL - Bushing, Packing Gland	In Stock	
GCL - ETH Card	In Stock	
GCL - RTD, 12.5" -50-550 Deg	In Stock	
GCL - RTD, 17" -50-550 Deg C	In Stock	
GCL - Probe, 741 GE	In Stock	
GCL - RTD, 12.5" -50-550 Deg	In Stock	
GCL - RTD, 17" -50-550 Deg C	In Stock	
GCL - Inflatable Seal	In Stock	
GCL - Sleeve, Shaft	In Stock	
GCL - Ring, Sealing C/W Spring	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - VALVE,INLET MAIN KIT	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - VALVE,INLET MAIN KIT	In Stock	
GCL - RELAY,ANTI-PUMP	In Stock	
GCL - RELAY,AUX 48VDC	In Stock	
GCL - RELAY,BREAKER FAIL	In Stock	
GCL - RELAY,BUSHHOLZ 250V 2AMP	In Stock	
GCL - RELAY,CONTROL 120V 60HZ	In Stock	
GCL - RELAY,CONTROL 120V 60HZ	In Stock	
GCL - RELAY,CONTROL 120V 60HZ	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - RELAY,CONTROL 125VDC	In Stock	
GCL - RELAY,CONTROL 24VDC	In Stock	
GCL - RELAY,FAST TRIPPING 125V	In Stock	
GCL - RELAY,INTERPOSING	In Stock	
GCL - RELAY,LOCKOUT 125V	In Stock	
GCL - RELAY,LOCKOUT 125V	In Stock	
GCL - RELAY,OVERCURRENT	In Stock	
GCL - RELAY,OVERLOAD CH C306DN3B	In Stock	
GCL - RELAY,PLUG-IN 14 PIN	In Stock	
GCL - RELAY,PLUG-IN 14 PIN DC	In Stock	
GCL - RELAY,PUSHBUTTON 110V	In Stock	
GCL - RELAY,PUSHBUTTON 125V	In Stock	
GCL - RELAY,RESIDUAL	In Stock	
GCL - RELAY,THERMISTOR 110V	In Stock	
GCL - RELAY,TIME TYPE SGDM-1	In Stock	
GCL - RELAY,TIME 24-230V AC/DC	In Stock	
GCL - RELAY,TRIP CIRCUIT	In Stock	
GCL - RELAY,VOLTAGE UNBALANCE	In Stock	
GCL - RELAY,11 PIN 24V	In Stock	
GCL - RELAY,110-125V	In Stock	
GCL - RELAY,110-125V ABB	In Stock	
GCL - RELAY,110-125VDC	In Stock	
GCL - RELAY,120V 10A DPDT	In Stock	
GCL - RELAY,14 PIN 110/120 VAC	In Stock	
GCL - RELAY,8 PIN 110/120VAC(S)	In Stock	
GCL - RELAY,8 PIN 120V AC/DC	In Stock	
GCL - SOCKET,RELAY 14 PIN 5A	In Stock	
GCL - SOCKET,RELAY 8 PIN 7A	In Stock	
GCL - RELAY,8 PIN DPDT	In Stock	
GCL - Relay, Overload 3.7-12A	In Stock	
GCL - Relay, Overload 1.6-5.0A	In Stock	
GCL - Relay, Overload 0.32-1.0A	In Stock	
GCL - Module, Control Relay	In Stock	
GCL - Relay, Overload	In Stock	
GCL - Relay, Low Voltage	In Stock	
GCL - Gas, Inergen (350F3)	In Stock	
GCL - Gas, inergen (425F3)	In Stock	
GCL - Bell, Fire Alarm 10"	In Stock	
GCL - Detector, Heat 281B-PL	In Stock	
GCL - Detector, heat 135F	In Stock	
GCL - Detector, Smoke EC30DU-3	In Stock	
GCL - Base, Smoke Detector	In Stock	
HLK - BOARD,FIRING ES	In Stock	
HLK - PANEL,CONTROL SCP/CCP	In Stock	
HLK - POWER DISTRIBUTOR, ASSEMBLY	In Stock	
HLK - POWER SUPPLY,CP-C-24/10.	In Stock	
HLK - BRIDGE,THYRISTOR EG	In Stock	
HLK - BEARING KIT,	In Stock	
HLK - GASKET KIT, COMPAIR 79452	In Stock	
HLK - SEAT/SEAL KIT, VALVE 1-1/	In Stock	
HLK - GASKET KIT, COMPAIR 45244	In Stock	
HLK - INSERT, COMPAIR 38275	In Stock	
HLK - RING SET, COMPAIR 45237	In Stock	
HLK - RING SET ASSEMBLY, COMPAIR 48	In Stock	
HLK - SEAL, COMPAIR 13254	In Stock	
HLK - VALVE & SPRING SET,45245	In Stock	
HLK - VALVE ASSEMBLY, COMPAIR 47936	In Stock	
HLK - VALVE ASSEMBLY, COMPAIR 50681	In Stock	
HLK - VALVE ASSEMBLY, COMPAIR 48141	In Stock	
HLK - VALVE ASSEMBLY, COMPAIR 47935	In Stock	
HLK - BREAKER,100 AMP 600 VOLT	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - BREAKER,150A 600V	In Stock	
HLK - BREAKER,225A 600V 3P	In Stock	
HLK - BREAKER,600 VOLT 3 PHASE	In Stock	
HLK - CONTACT,AUX GE	In Stock	
HLK - CONTACTOR,FURNAS	In Stock	
HLK - XFMR,PT 600 VOLT 3 PHASE	In Stock	
HLK - MODULE,ANALOG QUANTUM	In Stock	
HLK - MODULE,CPU MODICON	In Stock	
HLK - MODULE,DISCRETE IN	In Stock	
HLK - MODULE,DISCRETE OUT	In Stock	
HLK - MODULE,ETHERNET QUANTUM	In Stock	
HLK - MODULE,GPS QUANTUM	In Stock	
HLK - MODULE,HOT STANDBY	In Stock	
HLK - MODULE,INTERFACE PLC	In Stock	
HLK - MODULE,RACK FILLER	In Stock	
HLK - MODULE,RELAY OUT	In Stock	
HLK - POWER SUPPLY, 125-24 VDC	In Stock	
HLK - POWER SUPPLY,125 VDC	In Stock	
HLK - POWER SUPPLY,125VDC 8A	In Stock	
HLK - POWER SUPPLY,24 VDC	In Stock	
HLK - REMOTE I/O HEAD,MODICON	In Stock	
HLK - ADAPTER,REMOTE I/O	In Stock	
HLK - BACKPLANE,10 SLOT MODICON	In Stock	
HLK - Amp meter	In Stock	
HLK - Card battery charger	In Stock	
HLK - Card battery charger	In Stock	
HLK - Card battery charger	In Stock	
HLK - Card battery charger	In Stock	
HLK - Card gate pulse	In Stock	
HLK - Creep detector	In Stock	
HLK - VOLTAGE ADJUSTER	In Stock	
HLK - RELAY,CONTROL AB 500F-A0D92	In Stock	
HLK - RELAY,CONTROL 120V 60HZ	In Stock	
HLK - RELAY,CONTROL 48V	In Stock	
HLK - AUTO AIR CHARGING SOLND.	In Stock	
HLK - METER,FLOW BARTON	In Stock	
HLK - PANEL,VOLTAGE ADJUSTER	In Stock	
HLK - SOLENOID,GENERATOR AIR VALVE	In Stock	
HLK - SWITCH,LIMIT AB 802T-ATP	In Stock	
HLK - SWITCH,LIMIT AB 802T-DTP	In Stock	
HLK - SWITCH,MERCOID TYPE C-4	In Stock	
HLK - SWITCH,PRESS OIL ALARM	In Stock	
HLK - VALVE,SOL 4-WAY SKINNER	In Stock	
HLK - COIL,AUTO AIR CHARGING SOLND.	In Stock	
HLK - PLATE,TERMINAL 3 POLE	In Stock	
HLK - PLATE,TERMINAL 6 POLE	In Stock	
HLK - IMPELLER,DEWATERING PUMP	In Stock	
HLK - RING SET,WORTH P04643-10	In Stock	
HLK - RING/GASKET KIT,IR 32133944	In Stock	
HLK - THRUST PIN ASSEMBLY,IR 32218406	In Stock	
HLK - VALVE ASSEMBLY 55 GA	In Stock	
HLK - VALVE/GASKET KIT,IR 32133936	In Stock	
USL - VARISTOR,EXCITER	In Stock	
USL - BRIDGE,THYRISTOR EG	In Stock	
USL - CROWBAR,ES	In Stock	
USL - POWER DISTRIBUTOR, ASSEMBLY	In Stock	
USL - TRANSMITTER,PRESS 0-2.5MH20	In Stock	
USL - BEARING, BOWL - Unwatering	In Stock	
USL - BEARING, BOWL - Drainage	In Stock	
USL - BEARING,PACKING CONTAINER	In Stock	
USL - BUSHING,IMPELLER TAPERLOCK	In Stock	

Critical Spare Component	Stock Status	Comments
USL - BUSHING,IMPELLER TAPERLOCK	In Stock	
USL - BEARING,BIG END COMP #E02128	In Stock	
USL - BEARING,COMPAIR E05519	In Stock	
USL - BELT,V 3V950	In Stock	
USL - BUSHING,SMALL END COM#LE02130	In Stock	
USL - GASKET,COMPAIR E05516	In Stock	
USL - GASKET,COMPAIR J201671	In Stock	
USL - BEARING,MAIN D/E	In Stock	
USL - BEARING,MAIN O/E	In Stock	
USL - BELT,DRIVE COMPAIR 3VX850	In Stock	
USL - JOINT KIT,COMPAIR 98504/1172	In Stock	
USL - JOINT,COMPAIR C202284	In Stock	
USL - JOINT,COMPAIR C202285	In Stock	
USL - JOINT,COMPAIR C202285-100	In Stock	
USL - JOINT,COMPAIR C202286	In Stock	
USL - JOINT,COMPAIR C202287	In Stock	
USL - RING KIT,COMPAIR 98477/1131	In Stock	
USL - RING,PISTON 1ST STAGE	In Stock	
USL - SWITCH,OIL LEVEL	In Stock	
USL - VALVE,REED 1ST STAGE	In Stock	
USL - VALVE,REED 2ND STAGE	In Stock	
USL - BEARING,BIG END COMP #E02128	In Stock	
USL - BEARING,COMPAIR E05519	In Stock	
USL - BELT,V 3V950	In Stock	
USL - BUSHING,SMALL END COM#LE02130	In Stock	
USL - GASKET,COMPAIR E05516	In Stock	
USL - GASKET,COMPAIR J201671	In Stock	
USL - BEARING,MAIN D/E	In Stock	
USL - BEARING,MAIN O/E	In Stock	
USL - BELT,DRIVE COMPAIR 3VX850	In Stock	
USL - JOINT KIT,COMPAIR 98504/1172	In Stock	
USL - JOINT,COMPAIR C202284	In Stock	
USL - JOINT,COMPAIR C202285	In Stock	
USL - JOINT,COMPAIR C202285-100	In Stock	
USL - JOINT,COMPAIR C202286	In Stock	
USL - JOINT,COMPAIR C202287	In Stock	
USL - RING KIT,COMPAIR 98477/1131	In Stock	
USL - RING,PISTON 1ST STAGE	In Stock	
USL - SWITCH,OIL LEVEL	In Stock	
USL - VALVE,REED 1ST STAGE	In Stock	
USL - VALVE,REED 2ND STAGE	In Stock	
USL - COIL,SULL 250018-971	In Stock	
USL - FILTER,COOLANT (ELEMENT ONLY)	In Stock	
USL - GASKET KIT,IR X1453T47	In Stock	
USL - GASKET,FLEXMASTER 250007-559	In Stock	
USL - GASKET,SULL 040517	In Stock	
USL - REGULATOR KIT,SULL 250019-453	In Stock	
USL - BUSHING,SIDE ROLLER	In Stock	
USL - BUSHING,WHEEL	In Stock	
USL - HEATER,GAIN 3.2 KW 575 V	In Stock	
USL - HEATER,SHEAVE BLOCK 1366 W	In Stock	
USL - HEATER,GATE (DUCT BLOWE	In Stock	
USL - SEAL,FLAT 22' LENGTH	In Stock	
USL - SEAL,J C/W 2 CORNERS	In Stock	
USL - SEAL,J C/W 4 CORNERS	In Stock	
USL - SEAL,J 22' LENGTH	In Stock	
PRV - MOTOR,GOVERNOR PUMP	In Stock	
PRV - PUMP,PH PVP1630-R212	In Stock	
PRV - TACHOMETER,TAK PAK 3	In Stock	
PRV - DIODE,GE 4001A1158JA	In Stock	
PRV - DIODE,GE 4001A1158JB	In Stock	

Critical Spare Component	Stock Status	Comments
PRV - DIODE,GE 6RT44UV698-8841	In Stock	
PRV - COIL,GE 22-115-045-01	In Stock	
PRV - CONTACTOR,FIELD FLASHING	In Stock	
PRV - BLOCK POWERTRAC,115VAC/1	In Stock	
PRV - Bearing, Lower Guide	In Stock	
PRV - Bearing, Upper Thrust	In Stock	
PRV - Bearing, Upper Guide	In Stock	
PRV - Pad, Guide Bearing	In Stock	
PRV - METER,FLOW OMEGA FL-6318B	In Stock	
PRV - METER,FLOW WATER 1000#	In Stock	
PRV - MAGNETROL,D-B10-1GBA-ABM	In Stock	
EBBE - GEAR,HANDWHEEL	In Stock	
EBBE - GEAR,HELICAL SET	In Stock	
EBBE - GEAR,WORM 16:1 RATIO	In Stock	
EBBE - LINK,DECLUTCH	In Stock	
EBBE - PIN,FORK PIVOT	In Stock	
BDE - ACCUMULATOR TANK Level switch	In Stock	
PRV - PLC Power Supply	In Stock	
PRV - PLC CPU Module	In Stock	
GCL - Synchronizer	In Stock	
HLK - Thrust/Guide Bearing Coolers	In Stock	
BDE -7 Slip Ring	In Stock	
BDE - ACCUMULATOR TANK Pressure switch	In Stock	
HLK - Accumulator tank Solenoid Valve	In Stock	
BDE - Unit 7 RECTIFYING TRANSFORMER	In Stock	
HLK - RECTIFYING TRANSFORMER	In Stock	
CAT- Turbine Bearing Cooler	In Stock	
USL- Rotor Rim Drive Keys	In Stock	
HLK - PMG Speed Switch Bracket	In Stock	
CAT- minimal pressure Valve	In Stock	
HLK - Slip ring	In Stock	
BDE - NEUTRAL GROUND TRANSFORMER	In Stock	
GCL - MLDT	In Stock	
HLK- Turbine Bearing Cooler	Not in Stock	On order - Expected delivery December 15, 2018
HLK - UPPER GUIDE BEARING COOLER	Not in Stock	On order - Expected delivery December 15, 2018
HLK - SURFACE AIR COOLERS	Not in Stock	On order - Expected delivery December 15, 2018
HLK - GENERATOR CIRCUIT BREAKER	Not in Stock	Capital Spares on order - delivery Q1 2019
CAT - EXCITATION TRF	Not in Stock	Capital Spares on order - delivery Q1 2019
HLK - STN SERVICE TRANSFORMER (SST-1)	Not in Stock	Capital Spares on order - delivery Q1 2019