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October 10, 2019

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 of Corporate Services & Board Secretary

Dear Ms. Blundon:

Re: The Board of Commissioners of Public Utilities Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnection System – 2019-2020 Winter Readiness Planning Report

Further to correspondence received from the Board of Commissioners of Public Utilities ("Board") on October 13, 2016, as well as correspondence from the Board dated August 28, 2019 requesting additional detail, please find enclosed one original and 12 copies of Newfoundland and Labrador Hydro's 2019-2020 Winter Readiness Planning Report.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

Shirley A. Walsh
Senior Legal Counsel, Regulatory
SAW/las

Encl.

cc: **Newfoundland Power**
Mr. Gerard M. Hayes

Consumer Advocate
Mr. Dennis M. Browne, Q.C, Browne Fitzgerald Morgan & Avis

Industrial Customer Group
Mr. Paul L. Coxworthy, Stewart McKelvey
Mr. Denis J. Fleming, Cox & Palmer

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Grand RiverKeeper® Labrador Inc.

Ms. Roberta Frampton Benfiel
Ms. Prunelle Thibault-Bédard
Mr. Philip Raphals, The Helios Centre

Teck Resources Limited

Mr. Shawn Kinsella



2019-2020 Winter Readiness Planning Report

October 10, 2019

A report to the Board of Commissioners of Public Utilities



Contents

1.0	Background and Introduction	1
2.0	Annual Work Plan and Winter Readiness Status	2
2.1	Thermal Generation	3
2.2	Gas Turbine Generation	6
2.3	Hydraulic Generation	8
2.4	Transmission and Terminal Stations	12
2.5	Network Services	15
3.0	Status of Winter Readiness for Capital Projects	16
4.0	Plant and Equipment Testing	17
4.1	Thermal Generation	17
4.2	Gas Turbine Generation	18
4.3	Hydraulic Generation	18
4.4	Transmission and Terminal Stations	19
4.4.1	Transmission	19
4.4.2	Terminal Stations	19
4.4.3	Transmission and Terminal Station Testing	19
4.5	Network Services	20
5.0	Generation Outage Schedule	20
6.0	Critical Spares	20
6.1	Overview	20
6.2	2019-2020 Winter Season	20
6.2.1	Thermal Generation	21
6.2.2	Gas Turbines	21
6.2.3	Hydraulic Generation	22
7.0	Near-Term Reliability and Resource Adequacy	23
7.1	Assumptions	24
7.1.1	Asset Performance	24
7.1.2	Labrador-Island Link Assumptions	25
7.1.3	Availability of Capacity Assistance Agreements	25
7.1.4	Availability of Maritime Link Imports	25

7.2	System Energy Capability	27
7.3	Load Forecast	28
7.4	Scenarios Considered and Results	29
7.4.1	Scenarios	30
7.4.2	Expected Unserved Energy and Loss of Load Hours Analysis	30
8.0	Risk and Risk Mitigation	33
8.1	Bay d’Espoir Penstocks.....	34
8.2	Cat Arm CD-8.....	34
8.3	Reservoir Levels	35
8.4	Gas Turbine Spare Engine	36
8.5	Muskrat Falls to Happy Valley Interconnection Project	36
9.0	Conclusion.....	36

List of Appendices

Appendix A: Status of Capital Projects Related to Winter Readiness

Appendix B: Status of Winter Readiness Testing of Plant and Equipment – Thermal Generation

Appendix C: Status of Winter Readiness Testing of Plant and Equipment – Hydraulic Generation

Appendix D: Master Generation Outage Schedule

Appendix E: Critical Spares Status Listing – Thermal Generation

Appendix F: Critical Spares Status Listing – Gas Turbine Generation

Appendix G: Critical Spares Status Listing – Hydraulic Generation

1.0 Background and Introduction

The Board of Commissioners of Public Utilities (“Board”), in correspondence dated October 13, 2016, directed Newfoundland and Labrador Hydro (“Hydro”) to provide an annual report detailing its winter readiness (“WR”) planning. This report, for the 2019-2020 winter season, addresses the following items as requested by the Board:

1. The status of Annual Work Plan (“AWP”) items, in the format previously provided to the Board, for Hydro’s generating plants and transmission and terminal stations, including the completion date, outstanding items to complete, and any risks to completion or as a result of failure to complete;
2. A description and schedule for all outstanding 2019 capital projects for Hydro’s generating plant and transmission and terminal stations, including progress on completion status to date and expected completion date;
3. The identification of all equipment and plant testing to be carried out in advance of the winter period (generation plant, emergency diesels, black start generators, fire systems, transmission system equipment), including progress on completion status to date;
4. The planned generation outage schedule for the period September to December 31, 2019, including an explanation for any planned outages extending beyond December 1, 2019;
5. An update of critical spares assessment and procurement;
6. The forecast loads and expected generation capacity and reserves (setting out the basis for calculation) for the upcoming winter, as of December 1, 2019, including capacity assistance agreements in place or planned; and,
7. An identification of any risks that could impact the WR of assets as of December 1, 2019 and associated contingency plans.

This report also includes additional details in Section 7 in response to correspondence received from the Board on August 28, 2019.

1 Except where otherwise noted, information presented in this report covers both the Island
2 Interconnected System and the Labrador Interconnected System for the period ending September 30,
3 2019.¹

4 **2.0 Annual Work Plan and Winter Readiness Status**

5 Hydro's AWP integrates all planned activities for the year (i.e., corrective maintenance ("CM"),
6 preventive maintenance ("PM"), and capital project support) that are critical to safe and reliable
7 production. Hydro regularly measures the progress of its AWP execution, in comparison with the plan,
8 and is able to track the AWP status down to the level of individual work plan items. The individual AWPs
9 for various assets are incorporated into an integrated AWP.

10

11 In previous reports, Network Services activities were included with Transmission and Rural Operations.
12 For 2019 reporting, AWP and WR activities for Network Services are shown separately. This approach
13 aligns with Hydro's operational organization and provides added visibility to this important function.

14

15 This report provides a consolidated summary of operation and maintenance progress, both for the
16 entire AWP (i.e., first chart in each set) and the WR tasks (i.e., second chart in each set), as of September
17 20, 2019, for each of the following areas of operations:

18 **1.** Holyrood Thermal Generating Station ("Holyrood TGS"):

19 **a.** Units 1, 2, and 3; and

20 **b.** Balance of Plant, including black start diesels.

21 **2.** Gas Turbines:

22 **a.** Holyrood;

23 **b.** Hardwoods;

24 **c.** Stephenville; and

25 **d.** Happy Valley.

26 **3.** Hydraulic Generation:

27 **a.** Bay d'Espoir;

28 **b.** Cat Arm;

¹ The data used to generate the status charts in Section 2.0 reflects a data cutoff date of September 20, 2019.

- 1 c. Hinds Lake;
- 2 d. Paradise River;
- 3 e. Upper Salmon; and
- 4 f. Granite Canal.

- 5 **4.** Transmission and Rural Operations for the Island Interconnected System and Labrador
- 6 Interconnected System:
- 7 a. Transmission; and
- 8 b. Terminal Stations.

- 9 **5.** Network Services.

10

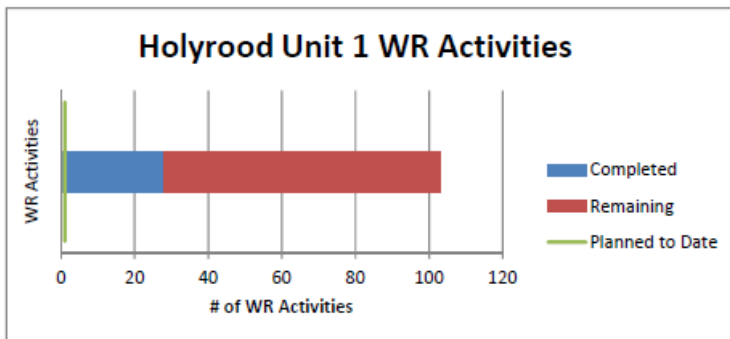
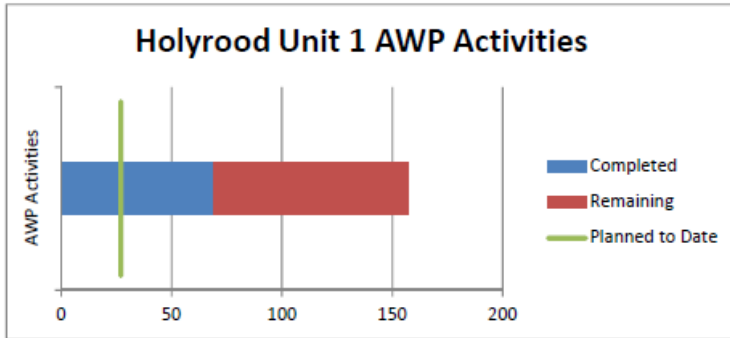
11 Each chart includes the completed and remaining AWP and WR tasks, as well as an indication of the
12 planned task completion target to date.

13

14 A text box adjacent to each chart set indicates Hydro’s forecasted completion status as of September 20,
15 2019 in relation to AWP WR activities (i.e., Green: On Target, Yellow: Caution – Recovery Required, Red:
16 Target Will Not be Fully Met). Relevant highlights are also provided.

17 **2.1 Thermal Generation**

18 The status of AWP and WR execution at the Holyrood TGS is summarized in the charts below. As noted,
19 all planned 2019 WR work is expected to be complete by December 1, 2019.



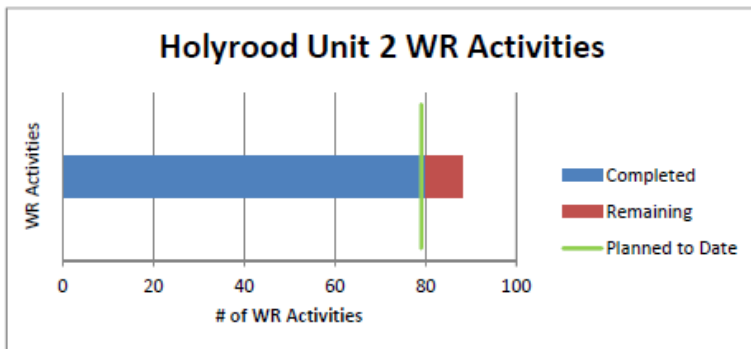
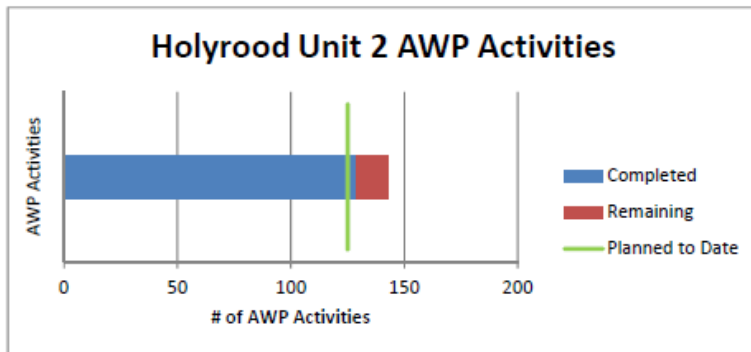
Holyrood Unit 1

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Unit 1 overall AWP completion status is 44% to date.
- Unit 1 planned WR completion status is 27% to date.
- Both AWP and WR activity completion are ahead of plan.
- Unit 1 Annual Maintenance Outage is in progress and is scheduled to be complete by October 28, 2019.
- All WR activities pertaining to Unit 1 are planned to be completed by December 1, 2019.



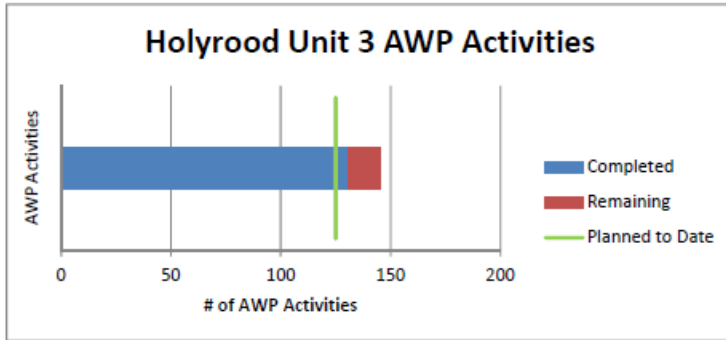
Holyrood Unit 2

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Unit 2 overall AWP completion status is 90% to date.
- Unit 2 planned WR completion status is 91% to date.
- Both AWP and WR activity completion are on plan.
- Unit 2 Annual Maintenance Outage was completed on September 6, 2019.
- All WR activities pertaining to Unit 2 are planned to be completed by December 1, 2019.



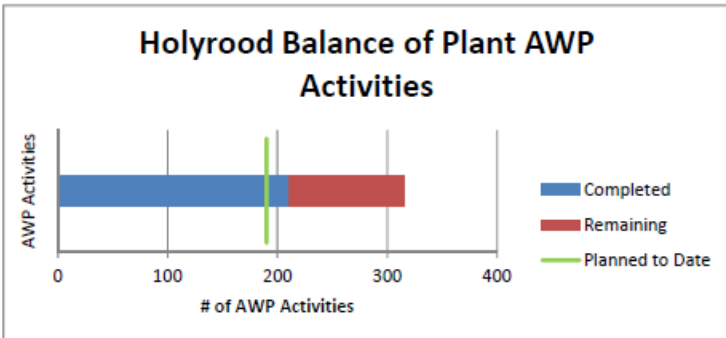
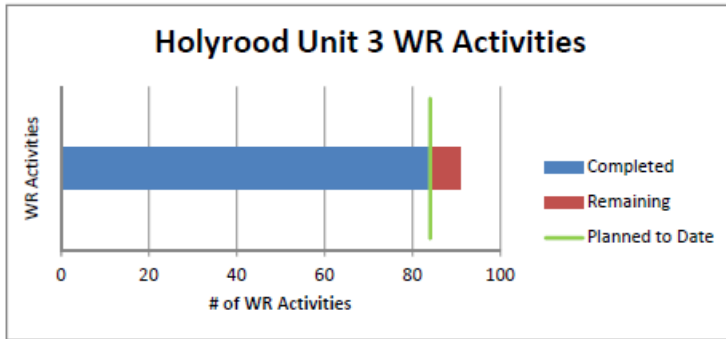
Holyrood Unit 3

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 92% to date.
- Both AWP and WR activity completion are on plan.
- Unit 3 Annual Maintenance Outage was completed on July 19, 2019.
- All WR activities pertaining to Unit 3 are planned to be completed by December 1, 2019.



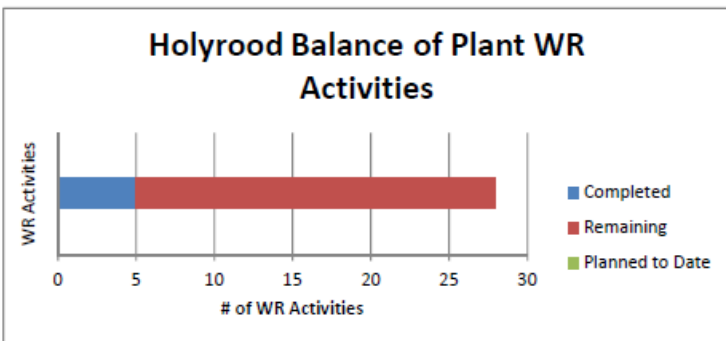
Holyrood Balance of Plant

Forecast Completion Status:

On Target

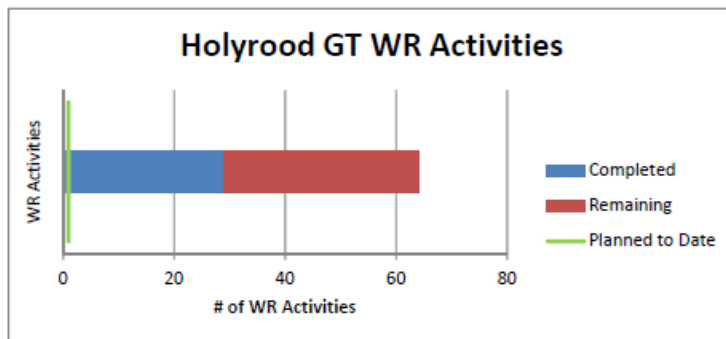
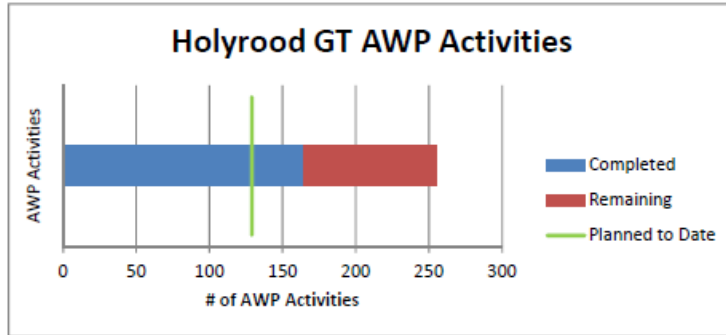
Comments and Schedule Notables:

- Balance of Plant AWP completion status is 67% to date.
- Balance of Plant WR completion status is 18% to date.
- Both AWP and WR activity completion are ahead of plan.
- While no WR activities were planned to be completed as of September 20, 2019, five are complete.
- All WR activities pertaining to Balance of Plant are planned to be completed by December 1, 2019.



1 **2.2 Gas Turbine Generation**

2 The current status of AWP and WR execution at the Holyrood, Hardwoods, Stephenville, and Happy
 3 Valley Gas Turbines is summarized in the following charts. Planned WR work for all gas turbines is on
 4 target for completion by December 1, 2019.



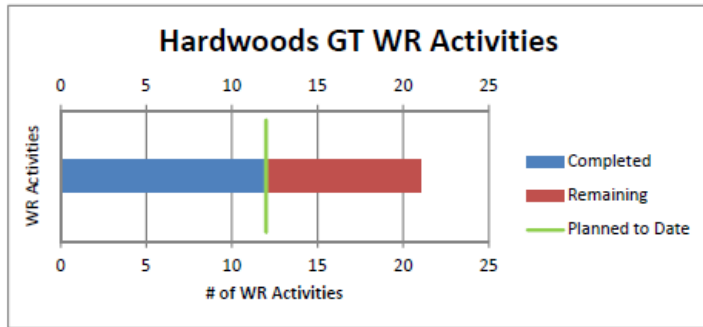
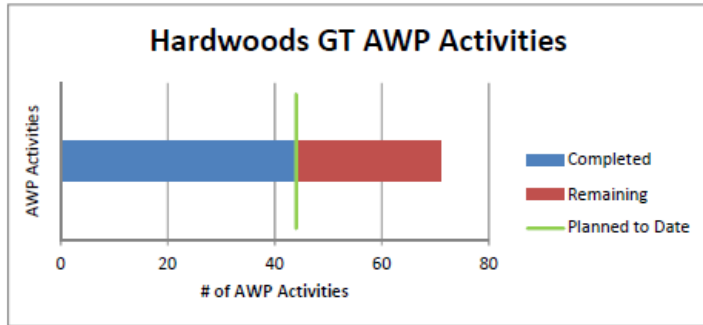
Holyrood Gas Turbine

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Holyrood Gas Turbine overall AWP completion status is 65% to date.
- Holyrood Gas Turbine planned WR completion status is 45% to date.
- Both AWP and WR activity completion are ahead of plan.
- All WR activities are planned to be completed by December 1, 2019.



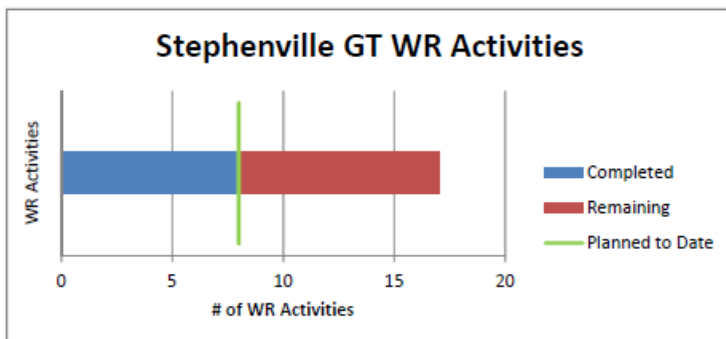
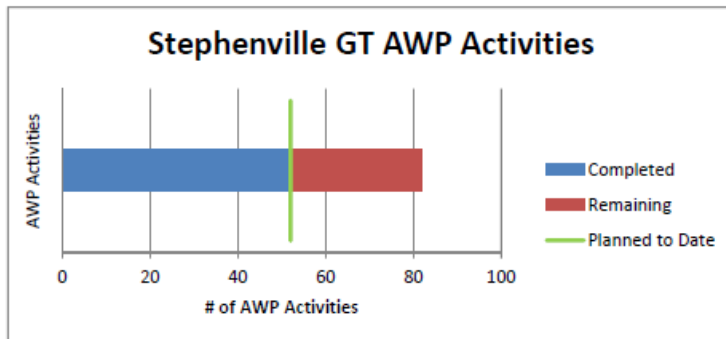
Hardwoods Gas Turbine

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Hardwoods Gas Turbine overall AWP completion status is 62% to date.
- Hardwoods Gas Turbine planned WR completion status is 57% to date.
- Both AWP and WR activity completion are on plan.
- All WR activities are planned to be completed by December 1, 2019.



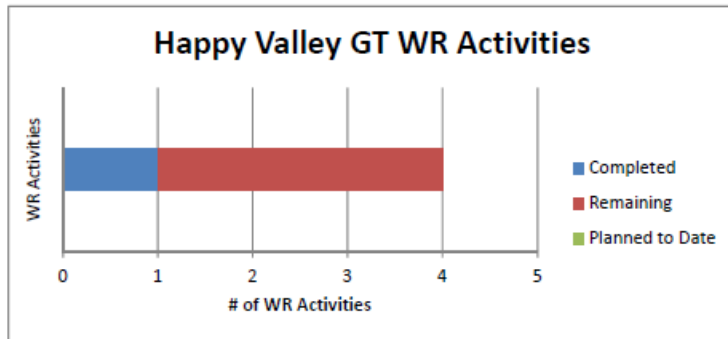
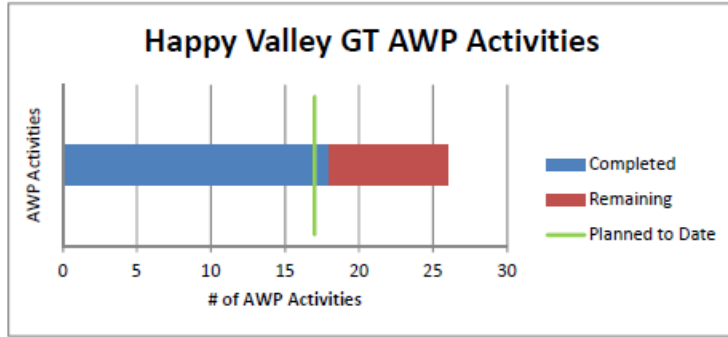
Stephenville Gas Turbine

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Stephenville Gas Turbine overall AWP completion status is 63% to date.
- Stephenville Gas Turbine planned WR completion status is 47% to date.
- Both AWP and WR activity completion are on plan.
- All WR activities are planned to be completed by December 1, 2019.



Happy Valley Gas Turbine

Forecast Completion Status:

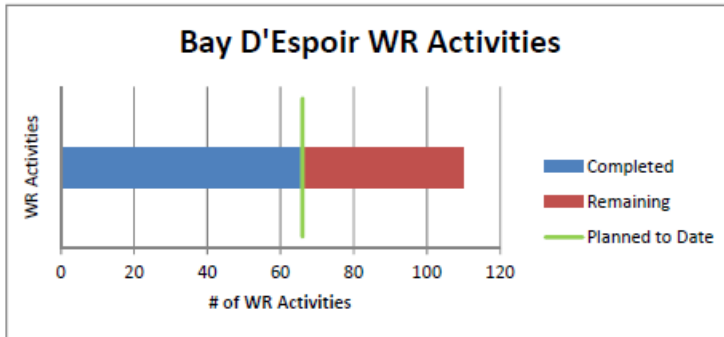
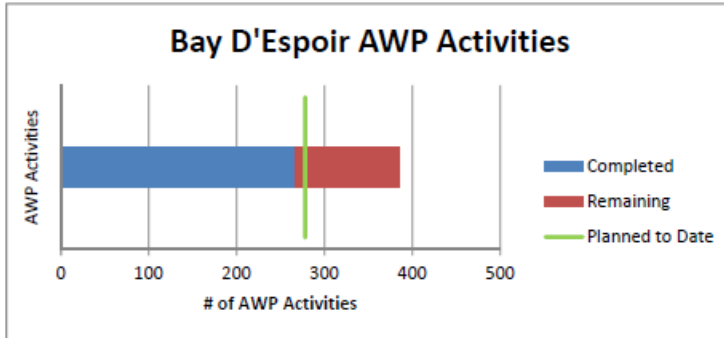
On Target

Comments and Schedule Notables:

- Happy Valley Gas Turbine overall AWP completion status is 69% to date.
- Happy Valley Gas Turbine planned WR completion status is 25% to date.
- Both AWP and WR activity completion are ahead of plan.
- While no WR activities were planned to be completed as of September 20, 2019, one is complete.
- All WR activities are planned to be completed by December 1, 2019.

1 **2.3 Hydraulic Generation**

2 The current status of AWP and WR execution at Bay d’Espoir and other hydraulic generation facilities is
 3 summarized in the charts below. As noted, Hydro expects that all planned WR activities will be
 4 completed by December 1, 2019.



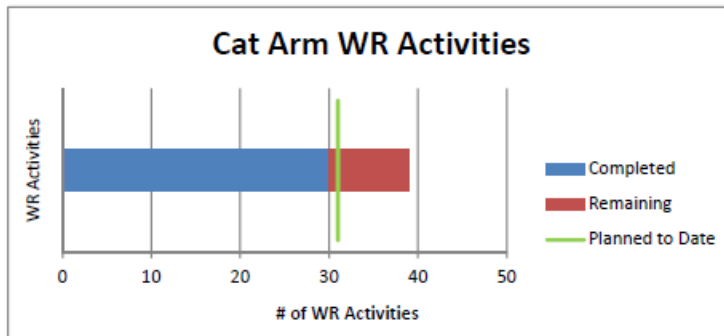
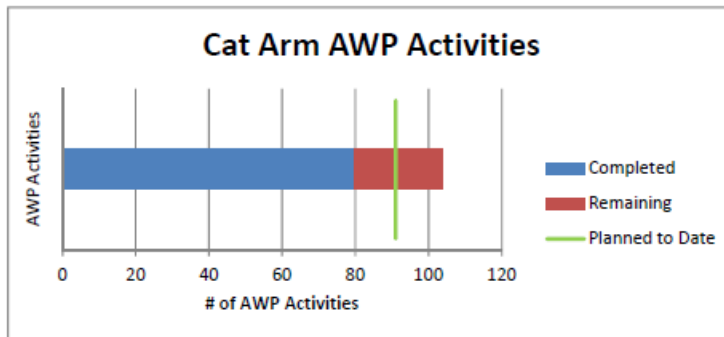
Bay d'Espoir Hydraulic Units

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Bay d'Espoir overall AWP completion status is 69% to date.
- Bay d'Espoir planned WR completion status is 60% to date.
- As of September 30, 2019, PM inspections are complete for units 3, 4, 5, 6 and 7. Unit 1 and 2 PM inspections are scheduled for completion by November 10 and October 29, respectively.
- All WR activities are planned to be completed by December 1, 2019.



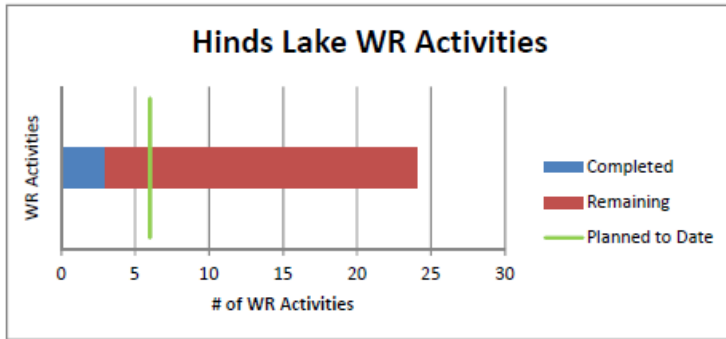
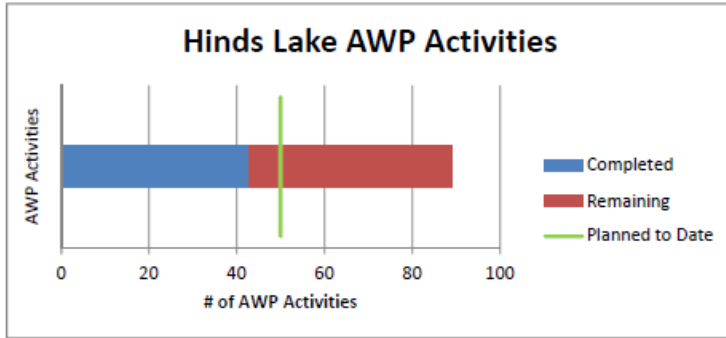
Cat Arm Hydraulic Units

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Cat Arm overall AWP completion status is 77% to date.
- Cat Arm planned WR completion status is 77% to date.
- Both annual unit outages are complete.
- All WR activities are planned to be completed by December 1, 2019.



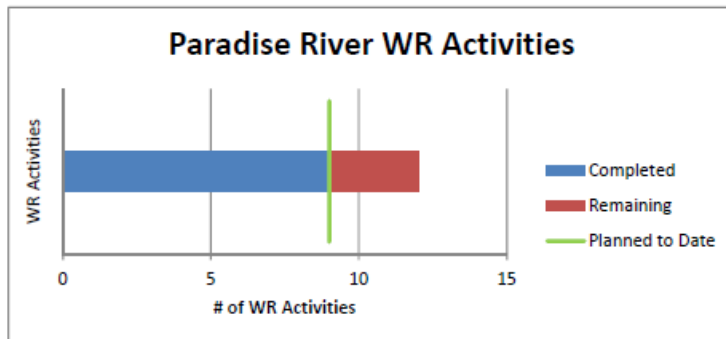
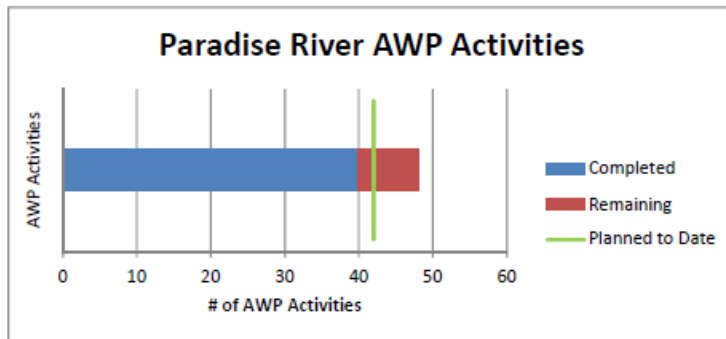
Hinds Lake Hydraulic Unit

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Hinds Lake overall AWP completion status is 48% to date.
- Hinds Lake planned WR completion status is 13% to date.
- Annual unit outage is ongoing and scheduled for completion on November 22, 2019. Capital and PM inspection work is progressing as planned.
- All WR activities are planned to be completed by December 1, 2019.



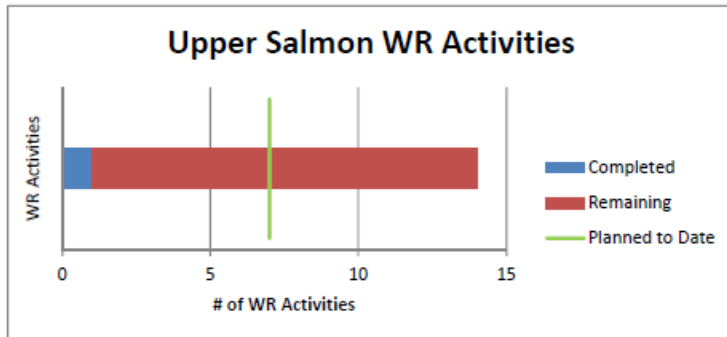
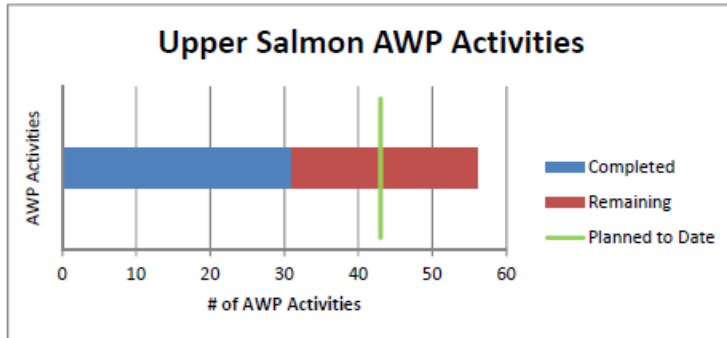
Paradise River Hydraulic Unit

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Paradise River overall AWP completion status is 83% to date.
- Paradise River planned WR completion status is 75% to date.
- Annual unit outage complete.
- All WR activities are planned to be completed by December 1, 2019.



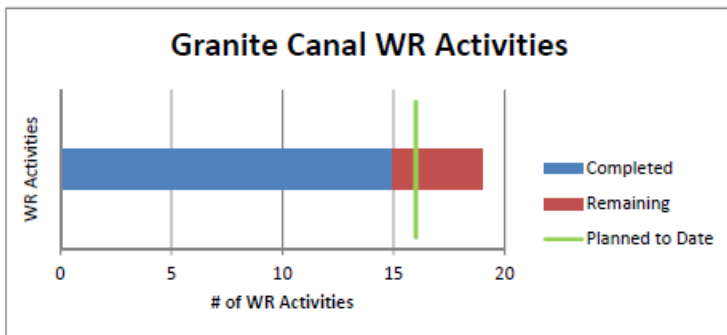
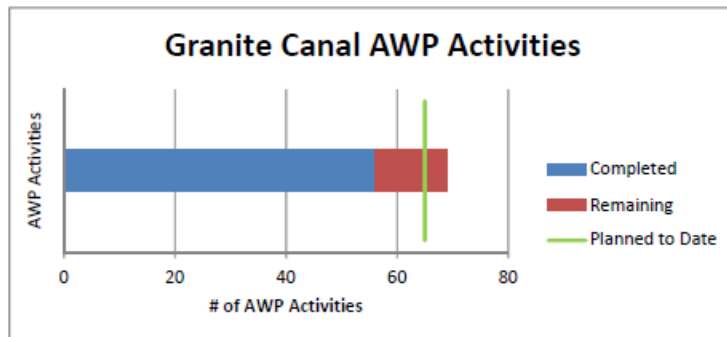
Upper Salmon Hydraulic Unit

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Upper Salmon overall AWP completion status is 55% to date.
- Upper Salmon planned WR completion status is 7% to date.
- AWP and WR status shows behind plan because the planned unit outage was moved from September to October.
- Annual unit outage scheduled for completion by October 17, 2019.
- All WR activities are planned to be completed by December 1, 2019.



Granite Canal Hydraulic Unit

Forecast Completion Status:

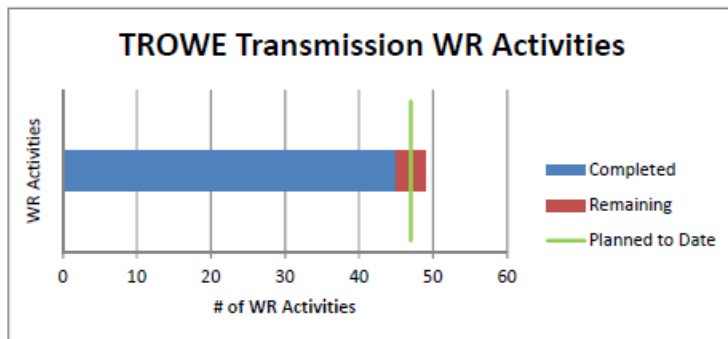
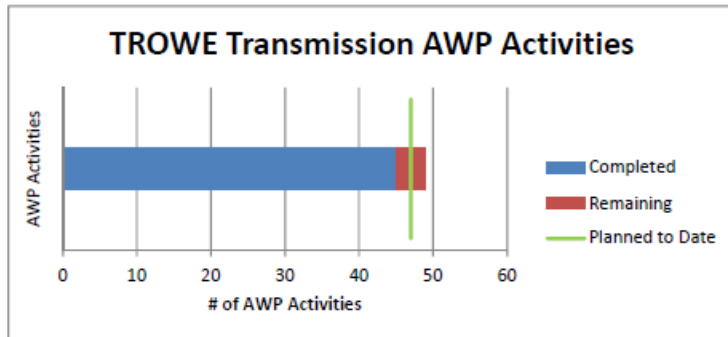
On Target

Comments and Schedule Notables:

- Granite Canal overall AWP completion status is 81% to date.
- Granite Canal planned WR completion status is 79% to date.
- Annual unit outage complete.
- All WR activities are planned to be completed by December 1, 2019.

1 **2.4 Transmission and Terminal Stations**

2 The current status of AWP and WR execution for both transmission line and terminal station facilities on
 3 both the Island Interconnected System and the Labrador Interconnected System are summarized in the
 4 charts below. As noted, Hydro expects that all planned WR activities will be completed by December 1,
 5 2019.



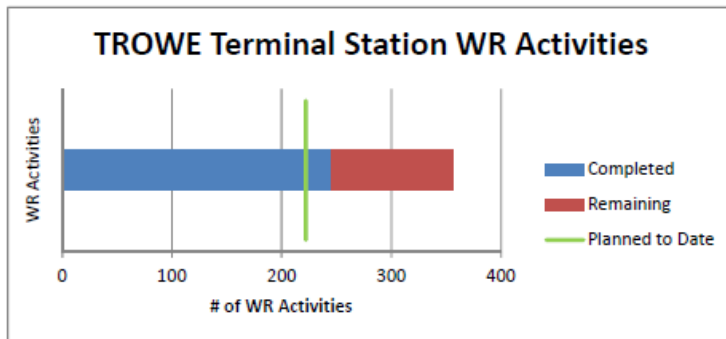
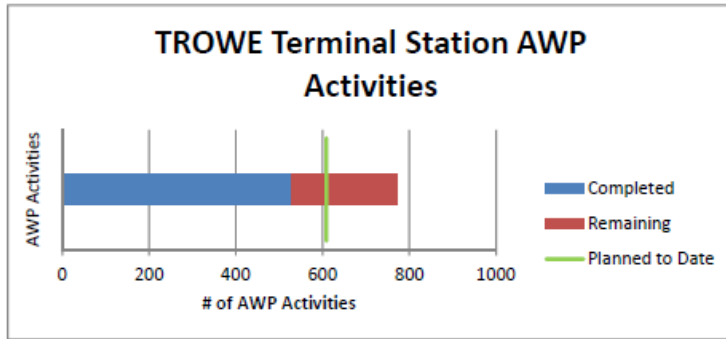
Transmission and Rural Operations West and East (“TROWE”) - Transmission

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- TROWE Transmission overall AWP completion status is 92% to date.
- TROWE Transmission WR completion status is 92% to date.
- All WR activities are planned to be completed by December 1, 2019.



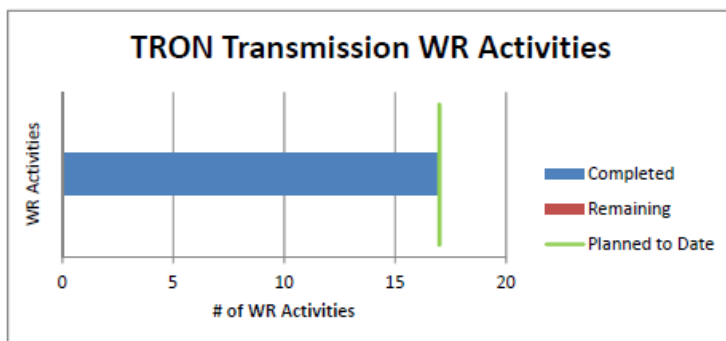
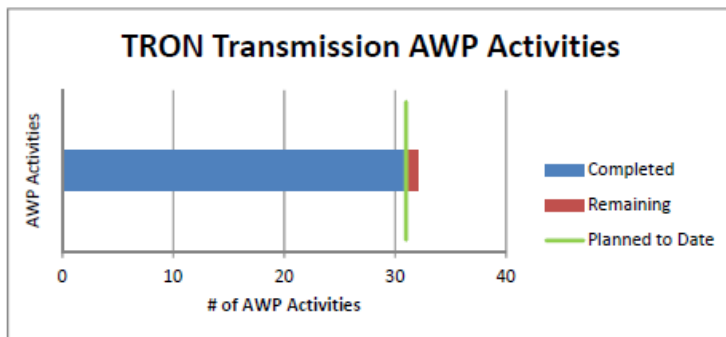
Transmission and Rural Operations West and East (“TROWE”) – Terminal Stations

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- TROWE Terminal Stations overall AWP completion status is 68% to date.
- TROWE Terminal Stations planned WR completion status is 69% to date.
- All WR activities are planned to be completed by December 1, 2019.



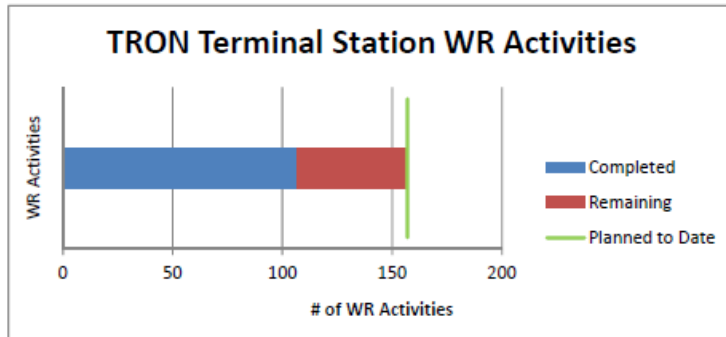
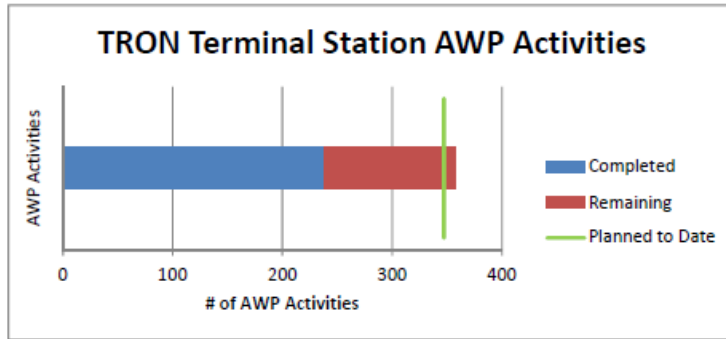
Transmission and Rural Operations Northern (“TRON”) – Transmission

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- TRON Transmission overall AWP completion status is 97% to date.
- TRON Transmission WR completion status is 100% to date.
- All WR activities are complete for 2019.



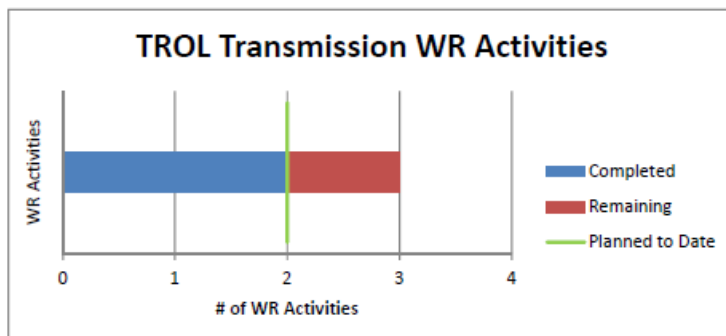
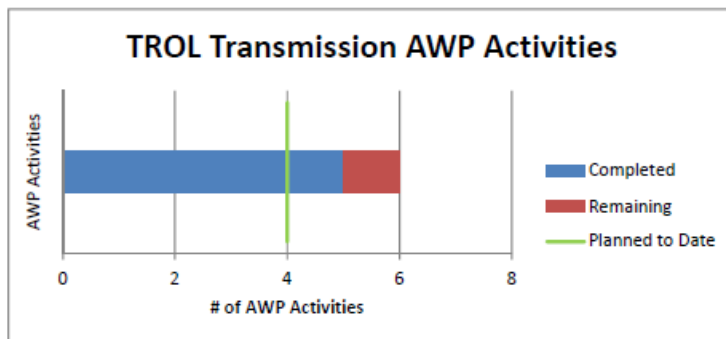
Transmission and Rural Operations Northern ("TRON") – Terminal Station

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- TRON Terminal Stations overall AWP completion status is 67% to date.
- TRON Terminal Stations WR completion status is 68% to date.
- An outage in October will result in the completion of the majority of remaining AWP/WR activities.
- All WR activities are planned to be completed by December 1, 2019.



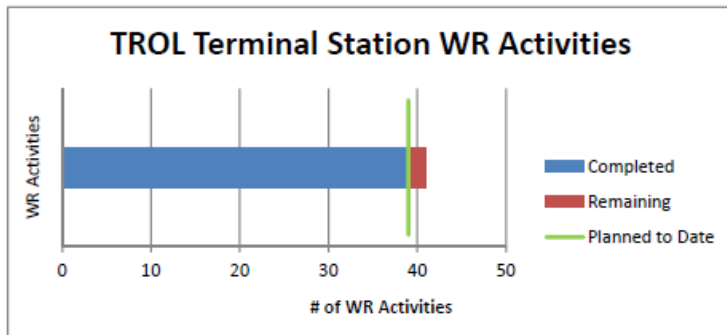
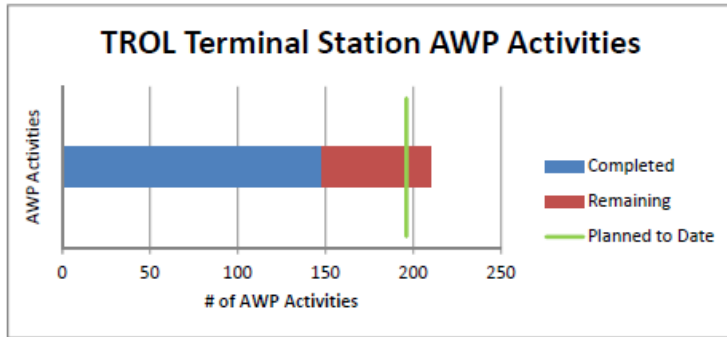
Transmission and Rural Operations Labrador ("TROL") – Transmission

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- TROL Transmission overall AWP completion status is 83% to date.
- TROL Transmission WR completion status is 67% to date.
- All WR activities planned to be completed by December 1, 2019.



**Transmission and Rural Operations
Labrador (“TROL”) – Terminal Stations**

Forecast Completion Status:

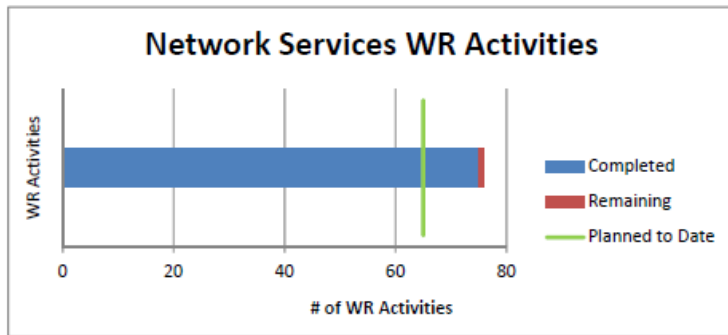
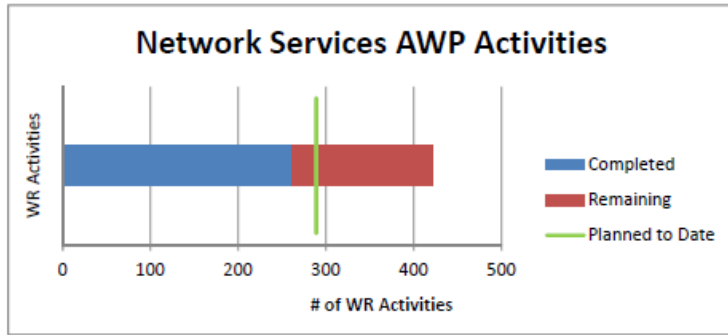
On Target

Comments and Schedule Notables:

- TROL Terminal Stations overall AWP completion status is 71% to date.
- TROL Terminal Stations WR completion status is 95% to date.
- All WR activities are planned to be completed by December 1, 2019.

1 **2.5 Network Services**

- 2 The current status of AWP and WR execution for Network Services is summarized in the charts below. As
- 3 noted, Hydro expects that all planned WR activities will be completed by December 1, 2019.



Network Services (“NWS”)

Forecast Completion Status:

On Target

Comments and Schedule Notables:

- Network Services overall AWP completion status is 62% to date.
- Network Services WR completion status is 99% to date.
- All WR activities are planned to be completed by December 1, 2019.

1 3.0 Status of Winter Readiness for Capital Projects

2 Appendix A of this report provides the status of 2019 planned capital projects that include scope related
 3 to 2019-2020 WR for the Island Interconnected System and the Labrador Interconnected System. Table
 4 1 summarizes the status of the WR scope of these projects by asset category.

Table 1: Status of Capital Projects with WR Scope

Asset Category	Complete as of September 30, 2019	Incomplete, Expected Completion by December 1, 2019	Incomplete, Expected Completion after December 1, 2019	Total
Hydraulic Generation	2	2	0	4
Thermal Generation	1	0	0	1
Gas Turbine Generation	0	4	0	4
Terminal Stations	3	4	0	7
Transmission	1	0	0	1
Total	7	10	0	17

5 As of September 30, 2019, the WR scope for seven of the 17 capital projects is complete. The WR scope
 6 for the remaining ten projects is partially complete, with full completion expected by December 1, 2019.

1 There are no significant risks to completing the remaining WR scope of work and Hydro continues to
2 closely monitor project status.

3 **4.0 Plant and Equipment Testing**

4 To ensure WR, Hydro follows a structured checklist for planning and documenting its testing and
5 inspection of plant and equipment in its thermal and hydroelectric generation facilities, as provided in
6 Appendix B and C, respectively.

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

13 **4.1 Thermal Generation**

14 WR testing of generating equipment in Thermal Generation is focused primarily around annual unit
15 maintenance outages. Following these annual outages, units are run up and synchronized and all
16 systems are verified before the unit's operating status is determined and preparedness is confirmed.
17 Unit load tests are performed at this time as well. It can take a period of time for system conditions to
18 allow for all required load testing. The WR testing protocol includes the testing of appropriate Balance of
19 Plant components, including the black start diesels, thus confirming their ability to black start the
20 Holyrood TGS.

21
22 The current status of equipment/plant testing for Thermal Generation is indicated in Appendix B of this
23 report. Consistent with the generation outage schedule shown in Appendix D, it is expected that all WR
24 testing will be completed by December 1, 2019. At the time of this update, Unit 1 had not returned to
25 generation as planned, and as such, testing is partially completed. Unit 2 was returned to service on
26 September 6, 2019 and returned to full capacity on September 10, 2019 after completion of safety valve
27 testing; the unit has been successfully tested to 165 MW. A full load test will be completed when system
28 conditions allow (i.e., system load is high enough). Unit 3 was returned to service on September 16,
29 2019 and returned to full capacity on September 30, 2019 after completion of safety valve testing; the
30 unit has been successfully tested to 140 MW. A full load test will be completed when system conditions
31 allow (i.e., system load is high enough).

1 An actual black start test of the black start systems was not completed. However, the function of all
2 associated breakers was tested and confirmed. Also the black start diesels are run up to speed and
3 synchronized on a weekly basis to confirm their availability.

4 **4.2 Gas Turbine Generation**

5 Examples of WR activities that are included in the AWP work scopes and maintenance plans for the
6 Holyrood, Hardwoods, Stephenville, and Happy Valley Gas Turbines include the following:

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

11

12 AWP charts, which include WR activities, are shown in Section 2.2 of this report. Black start testing has
13 been completed at the Happy Valley and Holyrood Gas Turbines. Black start testing of the Hardwoods
14 and Stephenville Gas Turbines require additional engineering as equipment replacement and system
15 modifications at these gas turbines, and the adjacent switch yards, require modification of the black
16 start test procedures. The remaining black start tests are planned for completion during the month of
17 November 2019. It is expected that all work related to WR testing will be completed by December 1,
18 2019.

19

20 Operational testing of all gas turbines has been carried out throughout the year as planned.

21 **4.3 Hydraulic Generation**

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

1 The majority of inspection and testing of the hydraulic generation facilities has been completed. All
2 outstanding inspection and testing is planned for completion by November 29, 2019. At this time, there
3 are no constraints that will impact the inspection or testing of the remaining facilities.

4 **4.4 Transmission and Terminal Stations**

5 **4.4.1 Transmission**

6 The summary of maintenance, refurbishment, and replacement criteria that Hydro uses for its
7 transmission lines was included in the “Transmission and Terminal Station Asset Management Execution
8 Report”, submitted to the Board on April 11, 2019. The report includes criteria for Wood Pole and Steel
9 Structure Line Management Programs, helicopter patrols, ground patrols, infrared inspections, wood
10 pole treatment, and right-of-way maintenance.

11 **4.4.2 Terminal Stations**

12 The “Terminal Station Asset Management Overview” document includes the maintenance,
13 refurbishment, and replacement criteria used by Hydro for Terminal Station assets. Version 4 of this
14 document was included in the “Terminal Station Refurbishment and Modernization” project report in
15 Hydro’s 2020 Capital Budget Application.

16 **4.4.3 Transmission and Terminal Station Testing**

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

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

26

27 AWP charts, which include WR activities, are shown in section 2.4 of this report, and Hydro expects that
28 all WR activities will be completed by December 1, 2019.

4.5 Network Services

The AWP for Network Services is comprised of PMs and CMs, which inherently involve inspection and testing of various assets and systems. AWP charts, which include WR activities, are shown in Section 2.5 of this report, and it is expected that all WR activities will be completed by December 1, 2019.

5.0 Generation Outage Schedule

Hydro's 2019 Master Generation Outage Schedule for the period September 1 to December 31, 2019 is attached to this report as Appendix D. This schedule currently does not contemplate any planned generation outages for Hydro assets beyond November 30, 2019; Hydro expects that all generation assets will be fully available as of December 1, 2019.

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 TGS); 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. A second phase of spares analysis was completed in 2017 for Hydro's hydraulic generation facilities and 569 additional items were added to the critical spares list.

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 into 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 September 30, 2019, for the 2019-2020 winter season. This update includes a detailed listing of critical spares requirements for each area of generation operations and the in stock or on order status of each item.

6.2 2019-2020 Winter Season

Hydro's critical spares status leading into the 2019-2020 winter season is robust. For Thermal Generation (Appendix E), Gas Turbines (Appendix F), and Hydro Generation (Appendix G), a total of 2,515 critical spares have been identified by Hydro's three generation operations areas. Of this total,

1 2,348 items are in stock (93.3%), 24 items are on order (1.0%) and the remaining 143 items (5.7%) are in
 2 various stages of the procurement process (e.g., engineering specification preparation to determine
 3 proper replacement parts for items that can no longer be readily purchased or purchase orders drafted
 4 to enable item ordering).

5 **6.2.1 Thermal Generation**

6 As summarized in Table 2, there are eighteen critical spare stock items currently not in stock. All of these
 7 items are on order through Hydro’s Supply Chain Department. Some of these items were recently used
 8 during maintenance activity and require replenishment. Two items are expected to be on site by the end
 9 of October and updated delivery dates for the remaining items will be provided for the October Winter
 10 Readiness Planning Report as Supply Chain expedites these orders.

11
 12 The complete list of critical spares for Holyrood TGS is provided in Appendix E. Note that this list
 13 contains three Inventory Status descriptions; “In Stock”, “Non Stock”, and “On Order.” “In-Stock” means
 14 that the part is in inventory; “Non-Stock” means that the part is critical but it is not necessary to keep it
 15 in stock, for example because the part is readily available locally; and “On Order” means that the part is
 16 required to be in stock but is not. For the “Non Stock” parts, an explanation of the reason why it is “Non-
 17 Stock” is provided in the “Notes” column in the Appendix E table.

Table 2: Critical Spares – Thermal Generation

Total Identified Critical Spare Items	756
Number of Critical Spare Items In Stock	738
Number of Items On Order	18
Number of Items not yet On Order	0

18 **6.2.2 Gas Turbines**

19 Table 3 summarizes the status of spare parts for the Hardwoods, Stephenville and Holyrood Gas
 20 Turbines and Appendix F contains detailed list for each gas turbine.

Table 3: Critical Spares – Gas Turbine Generation

	Hardwoods/Stephenville	Holyrood	Total
Total Identified Spare Items	93	463	556
Number of Items In Stock	75	333	408 (73.4%)
Number of Items On Order	2	3	5 (0.9%)
Number of Items not yet On Order	16	127	143 (25.7%)

1 The spares list for the Hardwoods and Stephenville Gas Turbines is detailed in Appendix F and contains
2 the critical spares identified for these units. This list contains 93 critical and operational spare items.
3 Approximately 80% (75) of these spares are in stock. Of the remainder, two are on order, nine are in the
4 procurement process and seven require additional engineering prior to procurement.

5
6 The spares list for the Holyrood Gas Turbine is also detailed in Appendix F and includes both operational
7 and critical spares for this unit. This list contains 463 critical and operational spare items. Greater than
8 70% (333) of these spares are in stock, including all high priority items. Of the remainder, three are on
9 order, 40 are in the procurement process, 56 require additional engineering prior to procurement and
10 31 are newly identified and in the planning stage. Included in the 463 spare items listed above are fifty-
11 four additional spare parts that were identified as a result of capital upgrades completed at the
12 Holyrood Gas Turbine in 2019. The more critical of these are currently in the procurement process, while
13 the remaining require additional planning prior to procurement.

14
15 Of the five items on order, one is a capital spare which is expected to be on site by December 1, 2019.
16 Items that are not yet ordered require further engineering and original equipment manufacturer input
17 due to changes in the technical specifications or changes in part numbers related to these components.
18 These items are being ordered as the specification and part numbers for these parts are determined.
19 These items include lower priority critical spares as well as non-critical spare items and pose a very low
20 risk to operation if not on hand by December 1, 2019.

21
22 Hydro has utilized a number of its spare parts to address deficiencies found during the 2019
23 maintenance season. This has resulted in a reduction of the in-stock items. These items have been
24 identified and are currently on order or in the procurement process. Maintenance outages are currently
25 planned for the Hardwoods, Holyrood and Stephenville Gas Turbine sites in October and November
26 2019, which may result in the requirement to replenish additional spare components.

27 **6.2.3 Hydraulic Generation**

28 Table 4 provides an overview of the critical spares program for Hydro Generation and Appendix G
29 contains detailed spares lists for the various facilities.

Table 4: Critical Spares – Hydraulic Generation

Total Identified Critical Spare Items	1203
Number of Critical Spare Items In Stock	1202
Number of Items On Order	1
Number of Items not yet On Order	0

1 For 2019 the only item remaining to be delivered is the Hinds Lake Station Service Transformer. The
 2 Hinds Lake Station Service Transformer has been tested at the manufacturer’s facility with witness from
 3 NL Hydro present. Shipment of the transformer is scheduled and delivery is expected before October 31,
 4 2019.

5 **7.0 Near-Term Reliability and Resource Adequacy**

6 This section discusses the near-term reliability and resource adequacy of the Newfoundland and
 7 Labrador Interconnected System for the upcoming winter period. The reliability indices in this near-term
 8 report include both annual and monthly Loss of Load Hours (“LOLH”), Expected Unserved Energy
 9 (“EUE”), and Normalized EUE² for the period of October 1, 2019 to December 31, 2020. The analysis
 10 considers the different types of generating units (i.e., thermal, hydro, and wind) in Hydro’s fleet,
 11 contractual sales, transmission constraints, peak load, load forecast uncertainty, and capacity assistance
 12 programs. Similar to previous analyses, a range of projected availabilities was considered for the
 13 Holyrood TGS.

14 The analysis in this section of the report has been completed using Hydro’s reliability model.³ This is the
 15 same model that was used in the “Reliability and Resource Adequacy Study” (“RRA”), filed in November
 16 2018, and the “Near-Term Generation Adequacy Report,” filed in May 2019 (“May Report”), with
 17 updates to reflect current system assumptions. A detailed discussion of the modelling approach used
 18 can be found in Volumes I and II of the RRA. The items discussed in this section are focused on the
 19 changes from the May Report and incorporate requests made by the Board in its correspondence to
 20 Hydro dated August 28, 2019. Specifically, the Board requested that Hydro update the reliability metrics
 21 for Scenario 5 of the May Report to incorporate any changes that may have occurred since that time and
 22 should incorporate the following:

² Normalized EUE provides a measure relative to the size of the assessment area. It is defined as: [(Expected Unserved Energy)/(Net Energy for Load)] x 1,000,000 with the measure of per unit parts per million.

³ Additional information on operational reserve by week at time of peak is available in Appendix D.

- 1 • Labrador-Island Link (“LIL”) unavailability until June 1, 2020;
- 2 • Expected capacity assistance available;
- 3 • Expected available import power over the Maritime Link; and
- 4 • Holyrood thermal Derated Adjusted Forced Outage Rates (“DAFOR”) of 15%, 18%, and 20%.

5
6 Hydro intends to file a complete update of its assessment of near-term reliability and resource adequacy
7 through 2024 as part of its annual update of the RRA, to be filed with the Board on November 15, 2019.

8 **7.1 Assumptions**

9 **7.1.1 Asset Performance**

10 Hydro updates its assumptions for forced outage rates for all generation assets on an annual basis.⁴

11
12 For Hydro-owned generating units, reliability metrics are compiled and used on an annual basis. These
13 metrics were updated in early 2019 to include 2018 data and were used to support Hydro’s analysis in
14 the May Report. Consistent with the Board’s request to update reliability metrics, Hydro recalculated
15 the DAFOR for near-term analysis with data for 2019 year-to-date included. Inclusion of the year-to-date
16 data in the weighted three-year average results in a lower DAFOR for hydraulic units (2.5% vs the 2.8%
17 used in Hydro’s May Report). This would result in lower calculated values for Hydro’s reliability metrics
18 (LOLH, EUE, and normalized EUE). Given the conservative intent of Hydro’s near-term analysis, and that
19 inclusion of data for 2019 year to date does not represent a full calendar year, Hydro has continued to
20 use the reliability metrics for 2019 presented in the May Report in this analysis. Forced outage rates
21 used in this analysis are presented in Table 5.

Table 5: Forced Outage Rates - Hydro-owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR = 2.8%
Holyrood Thermal Units	DAFOR = 15%, 18%, 20%
Holyrood Gas Turbine	DAUFOP = 1.7%
Happy-Valley Gas Turbine	DAUFOP = 9.8%
Stephenville Gas Turbine	DAUFOP = 30%
Hardwoods Gas Turbine	DAUFOP = 30%
Diesels	DAUFOP = 6.2%

⁴ Forced outage rates are updated consistent with the Forced Outage Rates Methodology presented in Hydro’s RRA, filed with the Board on November 16, 2018.

1 For units not owned by Hydro, the forced outage rates used in Hydro’s modelling are determined using
 2 industry averages. Updated forced outage rates used for assets owned by a third party in this analysis
 3 are presented in Table 6.

Table 6: Forced Outage Rates - Third-party Owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR = 5.7%
Gas Turbines	DAUFOP = 13.6%
Corner Brook Cogen	DAUFOP = 15.8%

4 **7.1.2 Labrador-Island Link Assumptions**

5 In correspondence to the Board dated August 8, 2019, Hydro provided an update regarding the progress
 6 of the commissioning activities associated with the LIL. In this correspondence, Hydro indicated that the
 7 LIL would be undergoing dynamic commissioning from mid-October 2019 to mid-February 2020 and
 8 would be out of service for an additional period from mid-April to mid-May 2020. This would result in
 9 the LIL being unavailable for the majority of the winter period.

10
 11 Based on this update, in correspondence dated August 28, 2019, the Board requested that Hydro
 12 incorporate a LIL outage until June 1, 2020 into its base assumptions. Hydro has performed its analysis
 13 assuming that the LIL is unavailable until June 1, 2020 in all cases.

14 **7.1.3 Availability of Capacity Assistance Agreements**

15 Capacity assistance refers to curtailable loads and customer generation available to the utility under
 16 contract to provide capacity on an as needed basis. Hydro currently has a capacity assistance contract
 17 with Corner Brook Pulp and Paper for up to 105 MW, as approved by the Board in Board Order No. P.U.
 18 40(2018). In this analysis, Hydro modelled this capability at the 2018 tested value of 100.4 MW. Hydro is
 19 working to renew its capacity assistance agreement with Vale Newfoundland and Labrador Limited
 20 (“Vale”) for assistance to be provided from its on-site diesel generators. This would make an additional
 21 7.6 MW available to the Island Interconnected System for the coming winter operating season. Hydro
 22 anticipates this agreement will be in place prior to November 1, 2019. As such, both agreements have
 23 been included in Hydro’s modelling.

24 **7.1.4 Availability of Maritime Link Imports**

25 The Maritime Link is expected to be available to import energy during the 2019-2020 winter operating
 26 season. Hydro successfully imported energy over the Maritime Link through the 2018-2019 winter

1 operating season. To date, Hydro has been focused on purchasing energy to offset higher cost thermal
 2 energy on both a short term and longer term basis.

3
 4 While all of Hydro’s market purchases have been made on an economic basis, Hydro has been also been
 5 successful in making market purchases that have had system reliability benefits. As an example, Hydro
 6 experienced high customer demand during the period from February 19-26, 2019, with a system record
 7 peak of 1,784 MW on February 20, 2019. During that period, Hydro chose to seek imports on an
 8 economic basis, but also to increase system reliability. Energy was imported for 94% of hours during that
 9 week, with purchases fulfilled as requested in all but 4 hours; during two of those hours a deal was not
 10 achieved, during the other two hours a deal was achieved for a portion of the volume requested. Figure
 11 1 shows imported quantities over the Maritime Link during that time period. In Figure 1 it can be
 12 observed that Hydro was successful in importing in excess of 125 MW for prolonged periods of time,
 13 with a maximum import of 185 MW for four hours.

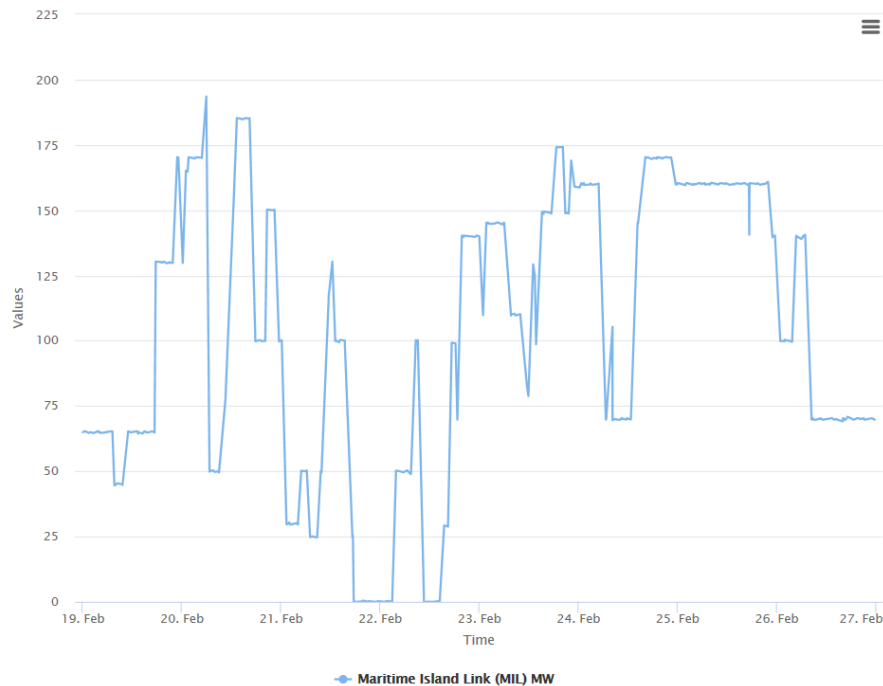


Figure 1: Imports over Maritime Link between February 19 and 26, 2019

14 Hydro can also purchase energy and capacity for economic reasons by doing short-term transactions or
 15 by making larger, longer term commitments. In March 2019, Nalcor Energy Marketing (“NEM”) entered
 16 into a contract on Hydro’s behalf for unit-firm capacity from a third party for 100 MW on-peak and 50
 17 MW off-peak. Based on the analysis of the data from March, the contracted amount was supplied in all

1 hours. NEM has also successfully entered into an agreement on Hydro's behalf for October 2019 for the
2 purchase of 24.5 GWh of energy, with a delivery profile of 50 MW per hour on-peak.

3
4 Based on Hydro's experience with securing market purchases to date, import scenarios are
5 contemplated as sensitivities to the expected case in this report; that is firm imports of 50 MW and 100
6 MW from December 2019 to March 2020 with an associated forced outage rate intended to serve as
7 proxy for anticipated potential interruptions to the import. Since the availability of these contracts
8 depends on the availability of capacity from a third-party to provide firm capacity, there is no guarantee
9 that these contracts would be available. The analysis demonstrates the effect on the system if the
10 capacity was available in the requested amounts.

11 **7.2 System Energy Capability**

12 In August 2019, Hydro revised its minimum storage limits for the remainder of the year in consideration
13 of continued delays in the availability of the LIL to deliver energy to the Island Interconnected System.
14 System energy analysis was conducted assuming no energy deliveries to the Island Interconnected
15 System via the LIL through winter 2019-2020. The results of this analysis indicated that Hydro needs to
16 produce and/or procure additional energy to help ensure its ability to reliably supply customers through
17 the winter in the event of the critical dry sequence. The change in storage limits was first communicated
18 to the Board in Hydro's Monthly Energy Supply Report for August 2019. An update on energy in storage
19 with respect to minimum storage limits was subsequently communicated in Hydro's Monthly Energy
20 Supply Report for September 2019, and will continue to be shared with the Board in Hydro's Monthly
21 Energy Supply Reports.

22
23 Following the revision of its minimum storage limits, Hydro engaged NEM to import energy on its behalf
24 when available and economic. To the end of September 2019, NEM had imported 20.6 GWh. In addition
25 to real-time and day ahead efforts, NEM has secured an import deal of 24.5 GWh for the month of
26 October. Further mitigation efforts include the early return to service and maximization of generation at
27 the Holyrood TGS Units this fall. Units 1, 2 and 3 at Holyrood TGS are required to generate during the fall
28 2019 and winter 2019-2020 to provide capacity and the balance of energy to meet Hydro's customer
29 and system reliability requirements. At this point, Hydro expects thermal production above minimum to
30 continue to be required through fall 2019 and foreseeably winter 2019-2020 at varying levels to support
31 current reservoir levels.

1 As of September 30, 2019, Hydro’s total system energy in storage was 1,281 GWh; 228 GWh below the
 2 revised minimum storage limit of 1,509 GWh for September 2019. Figure 2 plots the 2018 and 2019
 3 storage levels, minimum storage limits, maximum operating level storage, and 20-year average
 4 aggregate storage for comparison.

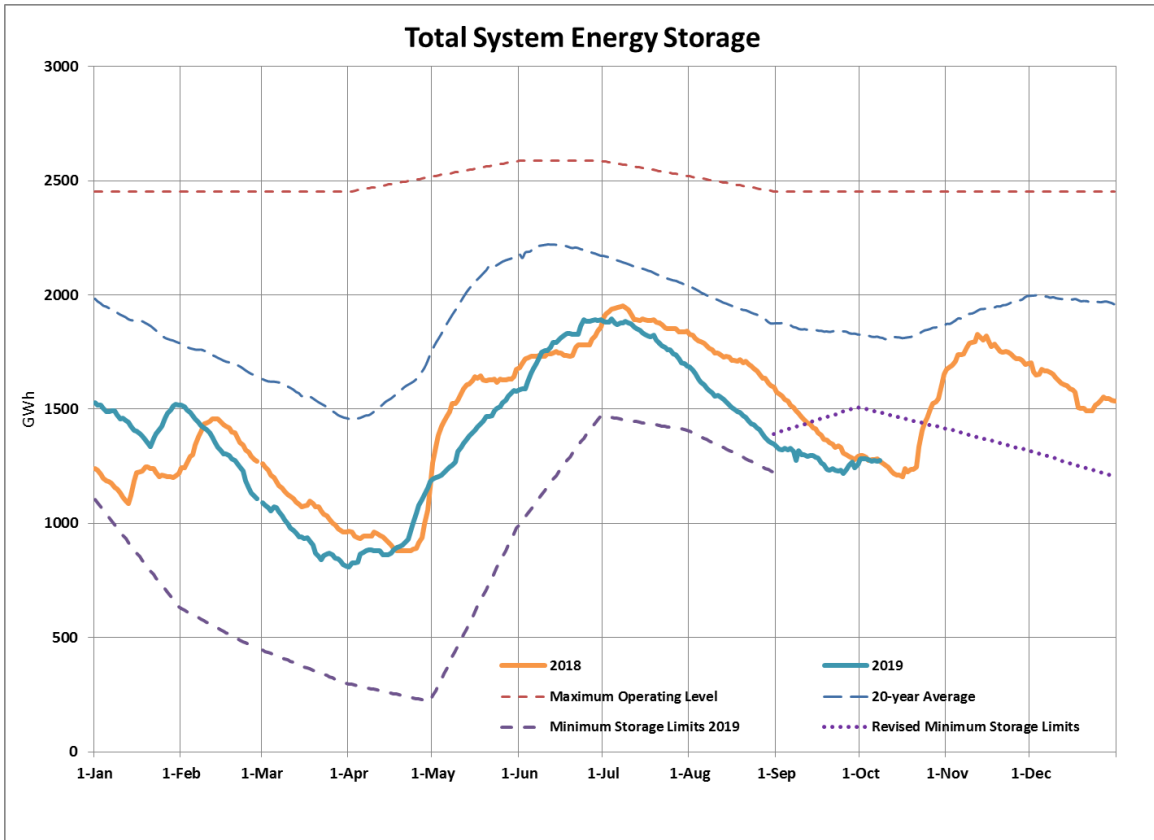


Figure 2: Total System Energy Storage for October 8, 2019

5 Storage in the reservoir systems is being monitored closely to minimize the risk posed to Hydro’s ability
 6 to reliably supply customers. Imports on the Maritime Link and thermal generation above minimum are
 7 expected to continue throughout the winter 2019-2020 operating season. Imports will be used to
 8 supplement generation from Holyrood TGS if energy in storage remains low, otherwise imports will be
 9 used to offset thermal generation to the extent that it is economically and technically feasible. At this
 10 point, Hydro does not foresee using production from standby generation to support reservoir levels.

11 7.3 Load Forecast

12 Customer load requirements have been assessed since the completion of the May Report. The Island
 13 Interconnected System utility and industrial load requirements, as well as the Labrador Interconnected

1 System utility requirements, remain unchanged for the 2019-2020 winter operating season. The overall
 2 Labrador Interconnected System forecast requirements have increased by 4% following consultation
 3 with Hydro’s Labrador Interconnected System Industrial customers. Details of Hydro’s current forecasts
 4 for the 2019-2020 winter operating season are provided in Tables 3 through 5.

5
 6 A complete update to Hydro’s five-year load forecast will be provided in Hydro’s November filing of the
 7 RRA.

Table 7: 2019-2020 Island Interconnected System Load Forecast

	<u>MW</u>
Utility Requirements	1,481
Industrial Customers	178
Island Interconnected System Customer Coincident Demand	1,659
Island Interconnected System Transmission Losses and Station Service Requirements	77
Total Island Interconnected System Requirements (P50)	1,736
P90 Demand Adjustment	60
Total Island Interconnected System Requirements (P90)	1,796

Table 8: 2019-2020 Labrador Interconnected System Load Forecast

	<u>MW</u>
Utility Requirements	149
Industrial Customers	301
Labrador Interconnected System Customer Coincident Demand	450
Labrador Interconnected System Transmission Losses and Station Service Requirements	47
Total Labrador Interconnected System Requirements	497

Table 9: 2019-2020 Newfoundland and Labrador Interconnected System (“NLIS”) Load Forecast

	<u>MW</u>
NLIS Customer Coincident Demand	2,075
NLIS Transmission Losses and Station Service Requirements	122
Total NLIS Requirements	2,197
IIS P90 Demand Adjustment	60
Total NLIS Requirements (P90)	2,257

8 **7.4 Scenarios Considered and Results**

9 The following subsections provide a description of the seven scenarios considered, and the anticipated
 10 system reliability in each case (i.e., LOLH, EUE, and normalized EUE results).

1 **7.4.1 Scenarios**

2 Seven scenarios were analyzed to assess system reliability under a range of potential system conditions.

3 **Scenario 1:** The expected scenario, which includes no availability of the LIL prior to June 1, 2020. This
4 scenario assumes a DAFOR of 15% for Holyrood TGS, and the continuation of the Vale and Corner Brook
5 Pulp and Paper Limited capacity assistance contracts.

6 **Scenario 2:** Varies from Scenario 1 by increasing the Holyrood TGS DAFOR to 18%.

7 **Scenario 3:** Varies from Scenario 1 by increasing the Holyrood TGS DAFOR to 20%.

8 **Scenario 4:** Varies from Scenario 1 by considering imports of 50 MW over the Maritime Link from
9 December 1, 2019 to March 31, 2020.

10 **Scenario 5:** Varies from Scenario 1 by considering imports of 100 MW over the Maritime Link from
11 December 1, 2019 to March 31, 2020.

12 **Scenario 6:** Varies from Scenario 4 by considering imports of 50 MW over the Maritime Link from
13 December 1, 2019 to March 31, 2020 with a Holyrood TGS DAFOR of 20%.

14 **Scenario 7:** Varies from Scenario 5 by considering imports of 100 MW over the Maritime Link from
15 December 1, 2019 to March 31, 2020 with a Holyrood TGS DAFOR of 20%.

16 **7.4.2 Expected Unserved Energy and Loss of Load Hours Analysis**

17 ***Annual Assessment Results***

18 Table 10 provides the annual LOLH, EUE and normalized EUE results. Note that the basis for comparison
19 of results is Hydro's existing LOLH criteria of not more than 2.8 hours per year. Hydro's intends to
20 migrate to its proposed criteria of 0.1 LOLE when the Muskrat Falls project has been fully commissioned
21 and thermal generation at Holyrood TGS, Hardwoods, and Stephenville have been retired.

22
23 The results for 2020 are similar to the results reported for 2019 in Hydro's November 2018 RRA filing.
24 This is consistent with expectations, given the similarity between the current assumptions and analysis
25 conducted at that time (i.e. LIL unavailable, modelled Holyrood TGS unavailability of 15%, 18%, and 20%,
26 continued capacity assistance). Slight changes in the LOLH and EUE values for 2020 in this report as
27 compared to those reported for 2019 in the 2018 RRA can be attributed to the changes in load forecast,
28 changes in forced outage rates, and updated loss equations.

1 The results indicate that the reliability of the system in the expected case, Scenario 1, is within Hydro's
2 current planning criteria. There is increased exposure through the 2019-2020 winter operating season as
3 Holyrood TGS unavailability increases beyond 15%, seen in the results of Scenarios 2 and 3. As seen in
4 Scenarios 4 through 7, the import of firm energy over the Maritime Link produces a significant
5 improvement in system reliability. Scenarios 4 and 5 demonstrate that firm imports could be used to
6 increase the reliability of the current system. Scenarios 6 and 7 demonstrate that imports can be used to
7 mitigate the increased risk of resource shortfalls to current planned reliability levels if Holyrood TGS or
8 other generating assets were to perform more poorly than expected. Hydro also modelled the import
9 scenarios as 50 MW and 100 MW on peak only, rather than all hours, and confirms that there is no
10 statistically significant variation between the results from a reliability perspective. This is consistent with
11 expectations, as in both cases, the imported quantities are available during the time of the daily peak
12 when additional capacity is required to improve the overall reliability of the system. Given current
13 energy in storage, it is likely that Hydro would prefer to purchase in all hours, rather than on peak only.
14 As such, results are presented for cases with imports in all hours.

Table 10: Annual LOLH, EUE, and Normalized EUE Results

Reliability Metric		
LOLH (hours)	Oct – Dec 2019 ⁵	Jan – May 2020
S1: Expected Case; LIL outage to June 1, 2020, no imports, Holyrood TGS DAFOR = 15%	0.65	2.33
S2: Expected Case, Holyrood TGS DAFOR = 18%	1.00	3.55
S3: Expected Case, Holyrood TGS DAFOR = 20%	1.24	4.55
S4: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 50 MW	0.36	1.15
S5: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 100 MW	0.22	0.51
S6: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 50 MW on peak	0.70	2.30
S7: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 100 MW on peak	0.46	1.13
EUE (MWh)	Oct – Dec 2019	Jan – May 2020
S1: Expected Case; LIL outage to June 1, 2020, no imports, Holyrood TGS DAFOR = 15%	34	121
S2: Expected Case, Holyrood TGS DAFOR = 18%	55	189
S3: Expected Case, Holyrood TGS DAFOR = 20%	71	244
S4: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 50 MW	18	54
S5: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 100 MW	9	21
S6: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 50 MW on peak	37	112
S7: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 100 MW on peak	22	52
Normalized EUE (ppm) ⁶	2019	2020
S1: Expected Case; LIL outage to June 1, 2020, no imports, Holyrood TGS DAFOR = 15%	3.2	11.0
S2: Expected Case, Holyrood TGS DAFOR = 18%	5.1	17.2
S3: Expected Case, Holyrood TGS DAFOR = 20%	6.5	22.2
S4: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 50 MW	1.7	5.0
S5: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 100 MW	0.9	2.0
S6: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 50 MW on peak	3.4	10.2
S7: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 100 MW on peak	2.0	4.7

1 Monthly Assessment Results

- 2 Table 11 provides monthly analyses of LOLH and EUE, by year. Examination of the 2019 results indicates
- 3 low exposure to lost load and unserved energy through November, with exposure increasing in
- 4 December. Examining results for 2019 and 2020, it can be seen that exposure is highest for the period

⁵ 2019 results from October 1, 2019 to December 31, 2019 only.

⁶ Normalized EUE is calculated on a full calendar year basis.

- 1 from December through February. Exposure is seen to reduce in March, following which there is
- 2 negligible exposure to resource shortfalls for the remainder of the period.

Table 11: Monthly LOLH and EUE for 2019-2020

LOLH (hours)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
S1: Expected Case; LIL outage to June 1, 2020, no imports, Holyrood TGS DAFOR = 15%	0.01	0.07	0.57	1.15	0.69	0.48	0.00	0.01
S2: Expected Case, Holyrood TGS DAFOR = 18%	0.01	0.11	0.88	1.74	1.07	0.72	0.01	0.01
S3: Expected Case, Holyrood TGS DAFOR = 20%	0.02	0.14	1.08	2.18	1.40	0.94	0.01	0.02
S4: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 50 MW	0.01	0.06	0.29	0.57	0.33	0.24	0.00	0.01
S5: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 100 MW	0.01	0.06	0.13	0.25	0.14	0.11	0.00	0.01
S6: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 50 MW on peak	0.02	0.13	0.55	1.12	0.68	0.47	0.01	0.02
S7: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 100 MW on peak	0.02	0.15	0.29	0.54	0.33	0.24	0.01	0.01
EUE (MWh)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
S1: Expected Case; LIL outage to June 1, 2020, no imports, Holyrood TGS DAFOR = 15%	0	2	32	60	36	25	0	0
S2: Expected Case, Holyrood TGS DAFOR = 18%	1	4	50	94	56	39	0	0
S3: Expected Case, Holyrood TGS DAFOR = 20%	1	6	64	118	74	51	0	1
S4: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 50 MW	0	2	16	27	15	12	0	0
S5: Expected Case, Holyrood TGS DAFOR = 15%, Imports of 100 MW	0	2	7	10	6	5	0	0
S6: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 50 MW on peak	1	5	31	56	32	23	0	1
S7: Expected Case, Holyrood TGS DAFOR = 20%, Imports of 100 MW on peak	1	6	15	25	15	11	0	1

3 **8.0 Risk and Risk Mitigation**

- 4 Hydro’s readiness planning for the 2019-2020 winter season is on target and positions the company to
- 5 be ready in terms of generation and transmission availability by December 1, 2019. Potential risks and
- 6 associated mitigation are described in the following sections, with updates provided in subsequent
- 7 reporting.

1 **8.1 Bay d’Espoir Penstocks**

2 In 2018, Hydro conducted condition assessments of Bay d'Espoir Penstocks 1, 2, and 3, which included
3 the completion of three reports prepared by a third party consultant. These reports have been
4 completed, reviewed, and the final report was filed with the Board in July 2019. On September 22, 2019,
5 since the time of filing, Hydro experienced a failure of Penstock 1 which resulted in a forced outage to
6 Bay d'Espoir Hydraulic Generating Units 1 and 2.

7
8 In response to previous penstock failures, as part of ongoing effort to monitor the performance of the
9 Penstocks and Ensure reliability in the short-term, Hydro implemented an annual internal inspection
10 program for Penstocks 1-3 in Bay d'Espoir. The 2019 annual inspections of Penstocks 2 and 3 were
11 completed in the spring and summer months, prior to the Penstock 1 leak, and did not identify any
12 major defects or areas of concern. The inspection of Penstock 1 had been scheduled for October 2019.
13 Following the most recent failure this inspection was advanced and completed while Penstock 1 was
14 undergoing repairs. The results of the 2019 inspection revealed no major defects or areas of concern
15 outside of the ruptured zone. Although the inspection did not reveal any immediate concerns Hydro
16 recognizes that the penstock is nearing the end of life and the recent leak in Penstock 1 leaves some
17 uncertainty with respect to reliability. To mitigate potential impacts should another penstock leak occur,
18 Hydro has taken proactive measures to ensure reduced downtime. These actions include having an
19 inventory of long lead time materials available (e.g., rolled steel plate), insuring availability of welding
20 resources, and engagement of an additional engineering consultant to ensure that any long term plans
21 presently in place remain viable.

22 **8.2 Cat Arm CD-8**

23 Hydro is executing an un-planned refurbishment scope of work for the upstream slope of the CD-8 dam.
24 The work is being completed under Hydro’s Hydraulic In-Services Failures 2019 capital project.

25
26 The CD-8 dam is located in the main reservoir near the tunnel that conveys water to the forebay
27 reservoir. Erosion damage to the protective riprap⁷ layer in sections of the CD-8 dam was observed
28 during annual inspection; the refurbishment is required to restore the dam to original design. Hydro has
29 tendered and awarded the construction contract, and site work is expected to begin on October 15,
30 2019 with an anticipated completion date of November 22, 2019. There is risk to the schedule

⁷ Riprap is placed rock that provides a protective layer on the face of the embankment dam structure.

1 associated with the difficulty of accessing the work site via barge with current low reservoir water levels.
2 There is also risk of weather conditions slowing the construction progress. Hydro is working with the
3 contractor to mitigate these risks and complete the work as early as possible.

4 **8.3 Reservoir Levels**

5 Hydro continually monitors energy levels in its reservoirs, the inflows in comparison to historic dry
6 periods, and results from Vista DSS modelling to ensure it is able to reliably supply its customers. The
7 analysis focuses on ensuring there is sufficient energy available for customers, using a mix of hydraulic,
8 thermal, and purchased energy. During the 2018-2019 winter operating season, Hydro utilized the
9 Maritime Link and Holyrood TGS off-minimum generation to support water levels in the reservoirs.
10 Generation above minimum at Holyrood TGS is otherwise required throughout the course of a typical
11 winter to meet operating reserve requirements. The ability to use the Maritime Link, when economic to
12 offset Holyrood TGS production, is beneficial to customers.

13

14 In August 2019 Hydro revised its minimum storage limits for the remainder of the year in consideration
15 of continued delays in the availability of the LIL to deliver energy to the Island Interconnected System.
16 System energy analysis was conducted assuming no energy deliveries to the Island Interconnected
17 System from the LIL throughout the winter of 2019-2020. The results of this analysis indicated that
18 Hydro needs to produce and/or procure additional energy to ensure its ability to reliably supply
19 customers through the winter in the event of the critical dry sequence.⁸

20

21 Given that energy in storage is below the revised minimum storage targets, Hydro is currently using a
22 mix of both:

- 23 a. An early return to service and maximization of generation at the Holyrood TGS; and
- 24 b. Energy imports over the Maritime Link when available and economic to support water levels.

25

26 These activities have helped to slow the decline of total system energy and will continue until system
27 energy levels improve and Hydro has determined they are no longer required.

28

29 It should be noted that stand-by units have not been used for water management purposes and Hydro
30 does not currently foresee using production from standby generation to support reservoir levels.

⁸ Hydro's long-term critical dry sequence is defined as January 1959 to March 1962 (39 months).

8.4 Gas Turbine Spare Engine

Since 2016, Hydro has instituted a practice of having a spare engine or engines available to replace the engines at Hardwoods and Stephenville should an in-service failure occur, particularly during the winter operating season. Hydro has continued this practice in 2019 with a plan to carry one spare for the 2019-2020 winter operating season.

On November 22, 2018, a planned borescope inspection of Hardwoods End B, engine s/n 202204, revealed a broken High Pressure (“HP”) turbine blade which required the engine to be removed from service and returned to the repair shop. The detailed inspection of engine s/n 202204 determined that the complete set of HP turbine blades required replacement. This scope of repair was unanticipated and required a supplemental capital budget application which is currently under review by the Board. Hydro anticipates that the spare engine will be returned prior to December 1, 2019; however, a delay in the repair schedule could result in a later delivery. If delivery of the spare engine is delayed beyond December 1, 2019, Hydro would still have the option to remove an engine from Stephenville for use to restore Hardwoods to full capacity. With a spare engine expected to return prior to December 1, 2019, the risk is limited.

8.5 Muskrat Falls to Happy Valley Interconnection Project

The focus of the 2019 work is to complete the interconnection and establish power flow between Muskrat Falls Terminal Station 2 (“MFTS2”) and the Happy Valley Terminal Station, which generally includes completion of the Muskrat Falls Terminal Station, construction of a new 6 km segment of 138kV wood pole transmission line, and completion of line protection upgrades required in the Happy Valley Terminal Station.

Except for the final tie-ins, the transmission line work has been completed. There have been some delays to the mobilization of the electrical and civil contractor at the MFTS2 site. Steps are currently being taken to mitigate some of the delays by pre-casting many of the foundations and adjusting work plans to parallel as many activities as practical. Progress is being closely monitored to evaluate if the mitigation steps taken will be sufficient to maintain the December 2019 date.

9.0 Conclusion

The results of Hydro's review of the year-to-date completion status of its AWP for the Island Interconnect System and Labrador Interconnected System assets indicate that its WR milestone will be

- 1 achieved by December 1, 2019. Hydro will continue to track all required WR activities, manage identified
- 2 risks, and keep the Board informed of current risks and any additional risks that may arise that may
- 3 impact the WR date. Hydro is confident in its ability to reliably serve customers in the 2019-2020 winter
- 4 season.

Appendix A

Status of Capital Projects Related to Winter Readiness



**Status of Winter Readiness Scope in 2019 Capital Projects
 on the Island and Labrador Interconnected Systems**

Asset Category	Project Title	Expected Completion of 2019 Winter Readiness Scope (September 30 Update)
Hydraulic Generation	Granite Canal: Overhaul Turbine/Generator	Complete
Hydraulic Generation	Bay d'Espoir: Refurbish Turbine, Unit 7	Complete
Hydraulic Generation	Bay d'Espoir: Overhaul Unit 1	16-Nov-2019
Hydraulic Generation	Hinds Lake: Refurbish Generator Rotor	22-Nov-2019
Thermal Generation	Holyrood: Replace Battery Banks and Chargers	Complete
Gas Turbine Generation	Hardwoods: Upgrade Human Machine Interface and Automatic Voltage Regulator	26-Oct-2019
Gas Turbine Generation	Hardwoods Gas Turbine Equipment Refurbishment and Replacement	26-Oct-2019
Gas Turbine Generation	Hardwoods: Replace Main Fuel Valves	09-Nov-2019
Gas Turbine Generation	Stephenville: Overhaul Gas Generator	10-Nov-2019
Terminal Stations	Various Locations: Replace Surge Arresters	Complete
Terminal Stations	Various Locations: Replace Instrument Transformers	Complete
Terminal Stations	Holyrood: Replace 66 kV Station Service Feed	Complete
Terminal Stations	Various Locations: Upgrade Power Transformers (2019-2020)	18-Oct-2019
Terminal Stations	Wabush: Additions for Load	31-Oct-2019
Terminal Stations	Various Locations: Replace Battery Banks and Chargers	01-Nov-2019
Terminal Stations	Various Locations: Upgrade Power Transformers (2018-2019)	12-Nov-2019
Transmission	Various Transmission Lines: Perform Wood Pole Line Management	Complete



Appendix B

Status of Winter Readiness Testing of Plant and Equipment – Thermal Generation



**Holyrood Thermal Generating Station
Winter Readiness Testing**

30-Sep-19

Plant: Holyrood Operations

Status of Test			
Unit 1	Unit 2	Unit 3	Balance of Plant

Following Annual Outages, Unit is Run Up, Synchronized and all Systems Verified Before Operating Status Determined, as per Energy Control Centre ("ECC"), Prior to Coming Winter Operating Season to Ensure Preparedness A Unit Load Test is Performed at this Time	S/U	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

Safety:

Boiler Service Pressure Test Performed as Required by Regulator	S/U	✓	✓	N/A
Safety Valves Testing as Required (Post Start-Up)	S/U	✓	✓	N/A
Boiler Operational Off-Line High/Low Drum Level Trip Tests	S/U	✓	✓	N/A
H2 Emergency Venting Valving	✓	✓	✓	N/A
Breaker and Disconnect Operation Verified by Operations Department and Whitbourne Crew	S/U	✓	✓	N/A

Service Air and Instrument Air Systems:

All Stationary Air Compressors Available	N/A	N/A	N/A	✓
All Portable Air Compressors Available	N/A	N/A	N/A	✓
Air Compressor Operational Checks Performed (eg Oil Levels, Cooling Water, etc.)	N/A	N/A	N/A	✓
Air Compressor STBY/Sequencing Capability	N/A	N/A	N/A	✓

Raw and Makeup Water System:

Quarry Brook Dam Integrity	N/A	N/A	N/A	✓
Raw Water Sump Water Supply Control Valve Operational	N/A	N/A	N/A	✓
Raw Water Pumps Operational	N/A	N/A	N/A	✓

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

✓ - Test completed

N/A - Not Applicable

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
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 and Readily Available Supply of Hoses for the Portable Diesel Pump from Quarry Brook Dam to Plant	N/A	N/A	N/A	✓

Raw and Makeup Water System and Water Treatment Plant:

Instrumentation and Controls Operational	N/A	N/A	N/A	✓
Analytical Rack Sample Cooler Filters Cleaned/Replaced as Required	N/A	N/A	N/A	✓
Analytical Rack Sample Coolers Cooling Water in Service	N/A	N/A	N/A	✓
Two (2) Sample Cooling Water Pumps Availability	N/A	N/A	N/A	✓

Clarifier:

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

Sand Filters:

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

Deminerlization System:

Cation and Anion Trains (A, B and 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 and Caustic Soda Transfer Pumps, Valves, Lines, etc.	N/A	N/A	N/A	✓
Sulphuric Acid and 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	✓

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

✓ - Test completed

N/A - Not Applicable

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Brine Injection Pumping Sets, Pumps, Valves, Lines, Agitators, etc.	N/A	N/A	N/A	✓

Reserve Feedwater System ("RFW"):

RFW Transfer Pump Oil Normal Operating Level	✓	✓	✓	N/A
RFW Transfer Pumps Operational	✓	✓	✓	N/A

Circulating Water ("CW") and Screen Wash System:

Vacuum Seal Pits Operational	✓	✓	✓	N/A
All CW Travelling Screens Operational	S/U	✓	✓	N/A
CW Pump Motorized Discharge Valves 'Manual' and 'Auto', 'Cracked' Position Operation Verified	S/U	✓	✓	N/A
CW Pump Motors Oil Normal Operating Level	✓	✓	✓	N/A
CW Pumps Operational	S/U	✓	✓	N/A
CW Pump Discharge Vacuum Breakers Operational	S/U	✓	✓	N/A
CW Travelling Screens Wash Pumps Operational	S/U	✓	✓	N/A
Condenser Flushed	S/U	✓	✓	N/A
Condenser Backwashed	S/U	✓	✓	N/A
General Service ("GS") Coolers Backwashed, Cleaned, etc.	S/U	✓	✓	N/A
Turbine / Generator ("TG") Coolers Backwashed, Cleaned, etc.	✓	✓	✓	N/A
Vacuum Pump Coolers Backwashed, Cleaned, etc.	✓	✓	✓	N/A

Boiler:

Pre-Outage Valve Survey Conducted of Boiler Drains	✓	✓	✓	N/A
Service Pressure Test on Boiler for Tube Leaks	S/U	✓	✓	N/A

Condenser Air Extraction System:

Vacuum Pumps Available and Tested for STBY 'Auto-Start'	S/U	✓	✓	N/A
Vacuum Pump Seal Water Tank Water Level Controller Operational	S/U	✓	✓	N/A
Vacuum Pump Seal Water Pump Operational	S/U	✓	✓	N/A

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			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Condenser Vacuum Breakers Operational	✓	✓	✓	N/A

High Pressure ("HP") Feedwater System:

Boiler Feed Pumps:

Boiler Feed Pumps Available	S/U	✓	✓	N/A
Boiler Feed Pump Oil Tank Normal Operating Level and Checked for Moisture Content	✓	✓	✓	N/A
Boiler Feed Pump Auxiliary Oil Pumps Available	S/U	✓	✓	N/A
Boiler Feed Pump Suction Valves and Limit Switches	✓	✓	✓	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	✓	✓	✓	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	S/U	✓	N/A	N/A
Boiler Feed Pump Gland Seal Water Transfer Pumps Operational (Units 1 and 2)	S/U	✓	N/A	N/A
Boiler Feed Pump Gland Seal Water Drains Tank Level Control Valve Operational (Unit 3)	N/A	N/A	✓	N/A
Boiler Feed Pump Gland Seal Water Transfer Pumps Operational (Unit 3)	N/A	N/A	✓	N/A
Boiler Feed Pump Recirculation Control Valves Operational	S/U	✓	✓	N/A
Boiler Feed Pump Motorized Discharge Pilot and Main Valves Operational	S/U	✓	✓	N/A
Low Load Feedwater Isolator and Control Valves Operational	S/U	✓	✓	N/A
Main Feedwater Isolator and Control Valves Operational	S/U	✓	✓	N/A
High Pressure Heater Motorized Valves (Inlet, Outlet and Bypass) Checked for Proper Operation, Sequencing, etc.	S/U	✓	✓	N/A

Miscellaneous:

Economizer 'Manual' Operated Valve Operational	✓	✓	✓	N/A
Economizer Motorized Recirculation Valve Operational (Unit 3)	N/A	N/A	✓	N/A
Boiler Drum Level Instrumentation Operational Work on West Xmitter	S/U	✓	✓	N/A
HP Heater Bled Steam Check Valves Operational	S/U	✓	✓	N/A
Start-Up Desuperheater Steam and Water Valving Operation/Position Verified	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

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Main Steam and Reheat Steam Desuperheater Spray Water Isolators and Control Valves Operational	S/U	✓	✓	N/A
Auxiliary Steam Desuperheater Spray Water Control Valve Operational (U3)	N/A	N/A	✓	N/A

Low Pressure ("LP") Feedwater System:

Condenser:

Condenser Hotwell Make-Up / Surplus Control Valves Operation Verified	S/U	✓	✓	N/A
Condenser Hotwell Make-Up Motorized Isolating Valve Operation Verified	S/U	✓	✓	N/A
Condenser Dye Test for leaks, as Required	✓	✓	✓	N/A

Ammonia and Control System:

Adequate Supply in Place	N/A	N/A	N/A	✓
Pumps Operational	N/A	N/A	N/A	✓
Control Instrumentation Operational	N/A	N/A	N/A	✓

Condensate Extraction Pumps:

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

Condensate Polishers:

Resin integrity Verified	S/U	✓	✓	N/A
Two (2) Polishers Rinsed and Available	S/U	✓	✓	N/A
Valve Operation (Normal and Regenerating, etc.)	S/U	✓	✓	N/A
Regeneration System Skids Available (Valving, Pumps, Blowers, Tanks, etc.)	S/U	✓	✓	N/A
Condensate Polisher Bypass Control Valve Operational	S/U	✓	✓	N/A

Low Pressure Heaters:

Low Load Recirculation Control Valve Operation	S/U	✓	✓	N/A
--	-----	---	---	-----

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			
Unit 1	Unit 2	Unit 3	Balance of Plant

Deaerator:

Deaerator Normal Operating Level	S/U	✓	✓	N/A
Deaerator Steam Coil Operational	S/U	✓	✓	N/A
Deaerator Pegging Steam Operational	S/U	✓	✓	N/A
Deaerator Low Level Trip Test	S/U	✓	✓	N/A

Miscellaneous:

Condenser Flash Tank Control Valve Operation / position	S/U	✓	✓	N/A
Turbine Low Pressure Exhaust Hood Spray Motorized Valve Operation	✓	✓	✓	N/A
Start-Up Desuperheater Steam and Water valving Operational (Units 1 and 2)	✓	✓	N/A	N/A
LP Heater Bled Steam Check Valves Operational	S/U	✓	✓	N/A

Bled Steam and Heater Drains System:

LP and HP Instrumentation and Control Operational	S/U	✓	✓	N/A
LP and HP Heater Level Control Operational	S/U	✓	✓	N/A
LP Heater Condensate Drains Pumps Operational	S/U	✓	✓	N/A
#4 High Pressure ("HP") Heater Condensate Drains Pump Operational	S/U	✓	✓	N/A

Air and Flue Gas System:

Instrumentation and Control Operational	S/U	✓	✓	N/A
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Forced Draft ("FD") Fans and Air Dampers:

Two (2) FD Fans Available	✓	✓	✓	N/A
Bearing Oil Normal Operating Level	✓	✓	✓	N/A
Cooling Water on to Fans	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

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

✓ - Test completed

N/A - Not Applicable

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
All Burner Auxiliary Air Dampers/Positioners Operation (Units 1 and 2)	S/U	✓	N/A	N/A
All Elevation Air Flow Dampers/ Positioners Operation (Unit 3) Middle Center	N/A	N/A	✓	N/A

Rotary Air Heaters:

Rotary Air Heaters Operational	S/U	✓	✓	N/A
Rotary Air Heaters Bearing Oil (Top and Bottom) Normal Operating Level	✓	✓	✓	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 and 2))	S/U	✓	✓	N/A
Rotary Air Heaters Sootblowers Operational	S/U	✓	✓	N/A

Boiler Sootblowing System:

Sootblower Control Panel Operational	S/U	✓	✓	N/A
Sootblowers Steam Supply Control Valve Operational	S/U	✓	✓	N/A
Sootblowers Overhauled during Annual Outage Verify Operation (eg Rotation, Travel Advancing/Retracting from Furnace, Leaks, etc.) First Time Unit is Placed on Line	✓	✓	✓	N/A

Light Fuel Oil System:

Hydro Pad Operational (Accumulator)	✓	✓	✓	N/A
Light Oil Pumps Available	S/U	✓	✓	N/A
Pumps, Valves (including Control and Trip), Lines, Strainers, Pressure (Locally and UCB)	S/U	✓	✓	N/A
Check Light Oil Supply and Return Lines to / from Plant Respectively	N/A	N/A	N/A	✓
Suction Strainers Cleaned with Covers Secured	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

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Igniters Cleaned, Securely in Place with Associated Lines Securely Fastened	S/U	✓	✓	N/A
Igniters all Checked for Operation During Unit Start-Up (eg Ignitor Control Box, Valve Operation, Lighting, etc.)	S/U	✓	✓	N/A

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

Adequate Heavy Oil Storage	N/A	N/A	N/A	✓
Heavy Oil Piping from Dock to Tankfarm, Tankfarm to Plant Day Tank and Day Tank to Heavy Oil Sets	N/A	N/A	N/A	✓
Adequate Light Oil Storage	N/A	N/A	N/A	✓
Light Oil Piping from Road Tanker Transfer Pump to Tanks and from Tanks to Light Oil Sets in Plant	N/A	N/A	N/A	✓
All Storage Tanks Suction Heaters Available when Required	N/A	N/A	N/A	✓
All Storage Tanks Platform 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 Platform Heaters Available	N/A	N/A	N/A	✓
Auxiliary Steam for Heat Tracing Available	N/A	N/A	N/A	✓
Electrical Heat Tracing for Fuel Oil Lines Available	N/A	N/A	N/A	✓
Day Tank Supply Line Trip Valve Tested	N/A	N/A	N/A	✓
Day Tank Available to Receive Oil	N/A	N/A	N/A	✓
Day Tank Steam Coil Available	N/A	N/A	N/A	✓

Fuel (Heavy) Oil System:

Fuel Oil Heating Sets:	S/U	✓	✓	N/A
Fuel Oil Heaters Available	✓	✓	✓	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 and extras) with Covers Secured	S/U	✓	✓	N/A
Fuel Oil Accumulator 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

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Fuel Oil Pumps Available	S/U	✓	✓	N/A
Pumps 'Auto-Start' Check Off-Line	S/U	✓	✓	N/A
Header Pressure Control Valve Operational	S/U	✓	✓	N/A
Fuel Oil Meter Operational	S/U	✓	✓	N/A

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

Fuel Oil Supply Control Valve Operational	S/U	✓	✓	N/A
Fuel Oil Trip Valve Operational	S/U	✓	✓	N/A
Fuel Oil Long Recirculation Valve Operational (Units 1 and 2)	S/U	✓	N/A	N/A
Fuel Oil Short Recirculation Valve Operational (Units 1 and 2)	S/U	✓	N/A	N/A
Elevation Fuel Oil Trip Valves Operational (Unit 3)	N/A	N/A	✓	N/A
Elevation Fuel Oil Minimum Supply Control Valves Operational (Unit 3)	N/A	N/A	✓	N/A
Elevation Fuel Oil Supply Control Valves Operational (Unit 3)	N/A	N/A	✓	N/A
Main Fuel Oil Recirculation Valve Operational (Unit 3)	N/A	N/A	✓	N/A
Elevation Recirculation Valves Operational (Unit 3)	N/A	N/A	✓	N/A

Burners:

All Burners Cleaned, Securely in Place with Associated Lines Securely Fastened	S/U	✓	✓	N/A
All Burners Checked for Operation During Unit Start-Up (eg Advancing/Retracting, Valve Operation, Lighting, etc.)	S/U	✓	✓	N/A
All Burner Tilts Checked for Operation (Units 1 and 2)	S/U	✓	N/A	N/A

Fuel Additive System:

Adequate Supply Available	S/U	✓	✓	N/A
Pumps Available	S/U	✓	✓	N/A
Tanks, Agitators, etc. Available	S/U	✓	✓	N/A

General Service ("GS") System:

GS Heat Exchangers Backwashed, Cleaned, etc.	S/U	✓	✓	N/A
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S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable

30-Sep-19

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Stage I GS Plate Cooler Strainers Cleaned	S/U	✓	✓	N/A
Stage I GS 'Auto-Clean' Strainer Operational	S/U	✓	✓	N/A
Stage I GS Duplex Strainers Cleaned	S/U	✓	✓	N/A
GS Pump Suction Strainers Cleaned	S/U	✓	✓	N/A
GS Pump Oil Normal Operating Level	S/U	✓	✓	N/A
GS Pumps Available and Tested for STBY 'Auto-Start'	S/U	✓	✓	N/A

Turbine / Generator ("TG") Auxiliary Cooling System:

TG Head Tank Normal Operating Level	S/U	✓	✓	N/A
Turbine Lube Oil Coolers Operational	S/U	✓	✓	N/A
TG Heat Exchangers Backwashed, Cleaned, etc.	✓	✓	✓	N/A
TG Pump Oil Normal Operating Level	✓	✓	✓	N/A
TG Pumps Available and Tested for STBY 'Auto-Start'	S/U	✓	✓	N/A

Turbine Generator ("TG") System:

Hydraulic System Units 1 and 2:

Hydraulic System Accumulators Operational	✓	✓	N/A	N/A
Hydraulic System Storage Tank Normal Operating Level and Checked for Moisture Content	S/U	✓	N/A	N/A
Hydraulic System Storage Tank Air Purging of Moisture in Place	S/U	✓	N/A	N/A
Hydraulic Set Primary, Secondary Filter Indications Ok	S/U	✓	N/A	N/A
Two (2) Hydraulic Fluid Pumps Availability	S/U	✓	N/A	N/A
Hydraulic Pump Auto Start Testing	S/U	✓	N/A	N/A
Two (2) Hydraulic Fluid Pump Coolers Availability	S/U	✓	N/A	N/A

Valves:

Pre-Outage Valve Survey Conducted of Boiler Drains	✓	✓	✓	N/A
Turbine Main Stop Valve Testing (Units 1 and 2)	S/U	✓	N/A	N/A
Turbine Two (2) Main Stop Valves Testing (Unit 3)	N/A	N/A	✓	N/A

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

✓ - Test completed

N/A - Not Applicable

30-Sep-19

	Status of Test		
	Unit 1	Unit 2	Unit 3
Turbine 'Left-Hand' and 'Right Hand' Reheat Stop and Intercept Control Valve Testing Verified	S/U	✓	✓
Turbine Six (6) Main Control Valve Operation (Units 1 and 2)	S/U	✓	N/A
Turbine Four (4) Main Control Valve Operation (Unit 3)	N/A	N/A	✓
Turbine Blowdown Valve Operation		✓	✓

Lubricating System:

Lube Oil Tank Normal Operating Level and Checked for Moisture Content	✓	✓	✓
Portable Centrifuge Operational	N/A	N/A	N/A
Lube Oil Tank Vapor Extractor Operation	S/U	✓	✓
Bowser Oil Conditioner Vapor Extractor Operation (Units 1 and 2)	S/U	✓	N/A
Two (2) AC Lube Oil Pumps Available and Tested for STBY 'Auto-Start' (Units 1 and 2)	S/U	✓	N/A
DC Pump Testing and Starting from UCB (Units 1 and 2)	S/U	✓	N/A
Verify Discharge Pressure of EACH AC Lube Oil Pumps (Locally and UCB) (Units 1 and 2)	S/U	✓	N/A
Verify Discharge Pressure of DC Lube Oil Pump (Locally and UCB) (Units 1 and 2)	S/U	✓	N/A
Jacking Oil Pump Testing and Starting from UCB (Unit 3)	N/A	N/A	✓
Verify Discharge Pressure of Jacking Oil Pump (Locally and UCB)	N/A	N/A	✓
Auxiliary Oil Pump ("AOP") Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	✓
Verify Discharge Pressure of AOP Pump (Locally and UCB) (Unit 3)	N/A	N/A	✓
AC Pump Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	✓
Verify Discharge Pressure of AC Flushing Oil Pump (Locally and UCB) (Unit 3)	N/A	N/A	✓
DC Pump Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	✓
Verify Discharge Pressure of DC Flushing Oil Pump (Locally and UCB) (Unit 3)	N/A	N/A	✓

Barring / Turning Gear:

Turning Gear Operation Verified	S/U	✓	✓
Perform Trip Test of Turning Gear	S/U	✓	✓

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			
Unit 1	Unit 2	Unit 3	Balance of Plant

Miscellaneous:	Unit 1	Unit 2	Unit 3	Balance of Plant
Steam Seal Regulator Operational	S/U	✓	✓	N/A
Operational On-Line / Off-Line Overspeed Trip Tests	S/U	✓	✓	N/A

Hydrogen ("H2") and Carbon Dioxide ("CO2") System:

H2 Generation and Storage System:

System in Operation	N/A	N/A	N/A	N/A
Electrolyzer/H2 Generator Operational	N/A	N/A	N/A	N/A
Chiller Operational	N/A	N/A	N/A	N/A
DI Water Purifier Operational	N/A	N/A	N/A	N/A

H2 and CO2 Bulk Packs:

Adequate H2 Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	✓
CO2 Adequate Bulk Packs on Hand	N/A	N/A	N/A	✓

Generator:

Generator Exciter Operation Checked Off and On Line	S/U	✓	✓	N/A
Seal Oil System Tested with 'Air' on Generator in Preparation for Leak Testing	S/U	✓	✓	N/A
Seal Oil Regulator Operational	S/U	✓	✓	N/A
AC Seal Oil Pumps Available and Tested for STBY 'Auto-Start' (Units 1 and 2)	S/U	✓	N/A	N/A
AC Seal Oil Pump Available (Unit 3)	N/A	N/A	✓	N/A
DC Seal Oil Pump Available and Tested for STBY 'Auto-Start'	S/U	✓	✓	N/A
Seal Oil Vacuum Pumps Available	S/U	✓	✓	N/A
Vacuum Tank Level Control Operational	S/U	✓	✓	N/A
H2 System in Operation and/or Adequate Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	✓
CO2 Adequate Bulk Packs on Hand	N/A	N/A	N/A	✓
Leak Testing Performed prior to 'Gassing Up' Generator	S/U	✓	✓	N/A
Purity, Dew Point, etc. Instrumentation Operation Verified	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



**Holyrood Thermal Generating Station
Winter Readiness Testing**

30-Sep-19

Powerhouse and Switchyard Single Line:

Plant 129V System:

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
129 V Battery Banks Checked Stage I and II	N/A	N/A	N/A	✓
129V Battery Chargers Checked Stage I and II	N/A	N/A	N/A	✓

Plant 258V System:

258V Battery Banks Checked Stage I and II	N/A	N/A	N/A	✓
258V Battery Chargers Checked Stage I and II	N/A	N/A	N/A	✓

Plant Uninterrupted Power Supplies ("UPS"):

Number's 1, 2, 3 and 4 'UPS' Power Supplies including Batteries, Cooling Fans, etc., Checked	N/A	N/A	N/A	✓
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Emergency Diesel Generators:

Stage I and II Emergency Diesel Generators Tested for Emergency Stop	N/A	N/A	N/A	✓
Stage I and II 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	N/A	✓
Diesel Bus Tie Breaker ("DBT") Operation Verified	N/A	N/A	N/A	✓

Fire Protection System:

All Fire Protection Zones in Service	N/A	N/A	N/A	✓
Fire Control/Alarm Panel Status	N/A	N/A	N/A	✓
Fire Alarm Beacons Operational	N/A	N/A	N/A	✓
Diesel Fire Pump Checked for 'Manual' and 'Auto' Start, etc.	N/A	N/A	N/A	✓
Diesel Fire Pump Controller, Charger and Battery check	N/A	N/A	N/A	✓
Electric Fire Pump Checked for 'Manual' and 'Auto' Start, etc.	N/A	N/A	N/A	✓
Electric Fire Pump Controller Check	N/A	N/A	N/A	✓
Public Address System Status	N/A	N/A	N/A	✓

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

✓ - Test completed

N/A - Not Applicable



**Holyrood Thermal Generating Station
Winter Readiness Testing**

30-Sep-19

Status of Test			
Unit 1	Unit 2	Unit 3	Balance of Plant

Holyrood Main Powerhouse:

Back-Up ECC and Guardhouse Propane Generator	N/A	N/A	N/A	✓
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Plant Air Conditioning System:

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

Plant Heating Steam:

All Systems Operational for when Required	N/A	N/A	N/A	✓
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S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



Appendix C

Status of Winter Readiness Testing of Plant and Equipment – Hydraulic Generation

		Status of Test									
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	BoP PH 1	BoP PH 2			
16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
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.											
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season. Station Service Transfers Alternate Sources											
Spherical Valves											
16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
Service Air, Instrument Air Systems Compressors											
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
TG Cooling Water Systems											
16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
Turbine Generator Governor System											
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Generator											
16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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								
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	BoP PH 1	BoP PH 2
Generator Exciter Available	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A

Lubricating System										
Portable Centrifuge operational	16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	✓
Portable Oil Pump (Jacking)	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
Oil Level System Generator Metering Available	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
Oil Level System Turbine Metering Available	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
AC High Pressure Jacking Oil Pump Available Automatic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Switchyard/Terminal Station										
Breakers and Disconnects Operational	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
Breaker and Disconnect Operation Verified by Ops. Dept. and TRO Bishops Falls	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A

Intake										
Water Elevation	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
Trashrack System	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A
Gate Operation	16-Nov	3-Nov	✓	✓	✓	✓	✓	N/A	N/A	N/A

Surge Tank										
Heating System	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30-Nov	N/A
Alarm Systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30-Nov	N/A

Spillway										
Water Elevation	16-Nov	3-Nov	✓	✓	✓	✓	✓	✓	✓	N/A
Gate Heating /Ice Away Unit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30-Nov	N/A
Gate Operation	N/A	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	31-Oct	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V Battery Chargers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V battery Banks Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

Plant 48 V System										
48V Battery Banks Checked	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Plant Uninterrupted Power Supplies ("UPS")									

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								
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	BoP PH 1	BoP PH 2
UPS Power Supplies (Inverter NWS)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Emergency Diesel Generators

Emergency Diesel Generators Tested for Emergency Stop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	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	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
Alternate AC Sources Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Station Services Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
Transfer Alternate Source	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

Plant Air Conditioning System

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

Plant Heating Steam

All Systems Operational for When Required	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
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S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.

✓ - Test completed

N/A - Not Applicable



Hydraulic Generating Stations (Remote Units)

	Status of Test										
	Cat Arm			Hinds Lake		Upper Salmon		Granite Canal		Paradise River	
	Unit 1	Unit 2	BoP PH	Unit 1	BoP	Unit 1	BoP	Unit 1	BoP	Unit 1	BoP
Following Annual Outages, Unit is Run Up, Synchronized and all Systems Verified Before Operating Status Determined, as per Energy Control Centre ("ECC"), Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at this Time.	✓	✓	N/A	17-Nov	✓	18-Oct	N/A	✓	N/A	✓	N/A
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season. Station Service Transfers Alternate Sources.	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Spherical Valves											
Turbine Main Stop Valve Testing	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbine Main Stop Valve Operational	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service Air, Instrument Air Systems Compressors											
All Stationary Air Compressors Available.	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.)	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Air Compressor STBY/Sequencing Capability/Lead Lag/Standby	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
HP Compressors Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	N/A	N/A	N/A	N/A
LP Compressor Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Instrumentation Control and Alarms Operational	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
TG Cooling Water Systems											
Cooling Water Pumps Available	✓	✓	✓	17-Nov	✓	N/A	N/A	N/A	N/A	N/A	N/A
Emergency Cooling Water Available Penstock Supply	✓	✓	✓	17-Nov	✓	N/A	N/A	✓	✓	✓	✓
Cooling Water System Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
TG Pumps Available and Tested for Auto/Manual Start	✓	✓	✓	17-Nov	✓	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Seal System Available	N/A	N/A	N/A	17-Nov	✓	18-Oct	N/A	✓	✓	✓	✓
CW Pump Motorized Discharge Valves 'Manual' and 'Auto', 'Cracked' Position Operation Verified	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Rotary (Water) Strainer	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Turbine Generator Governor System											
Hydraulic System Accumulators Operational	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Governor System Testing	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Governor System Available	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A		N/A	✓	N/A
Hydraulic Pump(s) Available	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Hydraulic Pump Gov Auto Start Testing	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	15-Nov	N/A	✓	N/A
Generator											
Generator Exciter Operation checked Off- and On-Line	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Lubricating System											
Portable Centrifuge Operational	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Portable Oil Pump (Jacking)	✓	✓	✓	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Oil Level System Generator Metering	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Oil Level System Turbine Metering	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	N/A	N/A
AC High Pressure Jacking Oil Pump Available Automatic	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	N/A	N/A
Miscellaneous											
Breaker and Disconnect Operation Verified by Ops. Dept. and TRO Crew	✓	✓	✓	17-Nov	✓	18-Oct	✓	✓	✓	✓	✓
Control Structure											
Water Elevation	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
Gate Operation	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
Intake											
Water Elevation	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Trashrack System	✓	✓	N/A	17-Nov	N/A	18-Oct	N/A	✓	N/A	✓	N/A
Gate Operation	✓	✓	N/A	17-Nov	N/A	18-Oct	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	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
129 V Battery Chargers	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
129 V battery Banks Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Plant 48 V System											
48V Battery Banks Checked	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓

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			Hinds Lake		Upper Salmon		Granite Canal		Paradise River	
	Unit 1	Unit 2	BoP PH	Unit 1	BoP	Unit 1	BoP	Unit 1	BoP	Unit 1	BoP
Emergency Diesel Generators											
Emergency Diesel Generators Tested for Emergency Stop	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Emergency Diesel Generators Tested for Manual and Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Alternate AC Sources Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Station Services Available	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Transfer Alternate Source	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Plant Air Conditioning System											
Control Rooms	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓
Communications Rooms	N/A	N/A	✓	N/A	✓	N/A	18-Oct	✓	✓	✓	✓
Plant Heating Steam											
All Systems Operational for When Required	✓	✓	✓	17-Nov	✓	18-Oct	18-Oct	✓	✓	✓	✓

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

2019 Planned Generation Outage Schedule *

Unit	Month Week Starting MW	September			October			November			December			Scheduled Annual Maintenance Outages				
		15	22	29	6	13	20	27	3	10	17	24	1		8	15	22	29
Holyrood - G1	170	[Dark Blue Bar]			[Dark Blue Bar]			[Dark Blue Bar]			[Dark Blue Bar]			July 29 - October 28				
Holyrood - G2	170	[Dark Blue Bar]			[Dark Blue Bar]			[Dark Blue Bar]			[Dark Blue Bar]			June 17 - September 1				
Holyrood - G3 ¹	150	[Light Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	April 01 - July 19, July 29 - September 16				
Bay d'Espoir - G1 ²	76.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	October 27 - November 16				
Bay d'Espoir - G2 ²	76.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	October 13 - November 2				
Bay d'Espoir - G3 ³	76.5	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	May 2 - May 17				
Bay d'Espoir - G4	76.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	May 05 - May 24				
Bay d'Espoir - G5	76.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	March 22 - April 18				
Bay d'Espoir - G6	76.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	March 17 - April 07				
Bay d'Espoir - G7	154.4	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	May 26 - September 23				
Upper Salmon	84	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	October 4 - October 17				
Granite Canal	40	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	June 16 - July 12				
Hinds Lake	75	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	August 18 - November 22				
Cat Arm 1	67	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	July 31 - August 06				
Cat Arm 2	67	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	August 04 - August 17				
Paradise River	8	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	May 26 - June 6				
Hardwoods Gas Turbine	50	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	April 22 - April 27, September 29 - October 26, November 3 - November 9				
Stephenville Gas Turbine ⁴	50	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	May 28 - June 14, October 27 - November 2				
Holyrood CT	123.5	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	April 09 - April 14, November 10 - November 30				
Star Lake	18	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	July 15 - July 26				
Exploits	63	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]	[Light Blue Bar]					
CoGen	8	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]					
NLH Diesels ⁵	24.7	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]					
Newfoundland Power	119.3	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]					
CBPP 60 Hz	99.1	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]					
Available Island Capacity	2,000	1,403	1,554	1,420	1,577	1,513	1,597	1,546	1,799	1,702	1,802	1,877	2,008	2,008	2,008	2,008	2,008	
Forecasted Gross Island Peak Load		968	1,000	1,000	1,039	1,079	1,119	1,179	1,250	1,313	1,376	1,453	1,796	1,796	1,796	1,796	1,796	1,796
Total Island Reserve ^{6,7}		435	554	420	537	434	478	367	655	496	534	532	324	324	324	324	324	324
Largest Island Operating Unit		170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
Island N-1 Reserve		265	384	250	367	264	308	197	485	326	364	362	154	154	154	154	154	154
Happy Valley Gas Turbine	25	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]	[Dark Blue Bar]

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

Notes:
¹ Holyrood Unit 3 previously available at 140 MW pending the completion of the safety valves testing. The unit returned to full capacity on October 1, 2019 after completion of the safety valves testing.
² Bay d'Espoir Units 1 and 2 are unavailable as of September 22, 2019 due to a penstock leak. Expected to return to full capacity on October 4, 2019.
³ Bay d'Espoir Unit 3 derated to 70 MW. Cause currently under investigation.
⁴ Stephenville Gas Turbine derated to 25 MW due to the removal of End B engine for an overhaul. The Gas Turbine expected to be available at full capacity (50 MW) on November 3, 2019 following the installation of the overhauled.
⁵ 24.7 MW include Hawke's Bay (5 MW), St. Anthony (9.7 MW), and Holyrood Diesels (10 MW).
⁶ November's and December's Total Reserves reflect the planned agreements for CBPP Capacity Assistance (net 92 MW) and System Voltage Reduction (up to 20 MW).
⁷ December's Total Reserves reflect the planned agreements for CBPP Capacity Assistance (net 92 MW), System Voltage Reduction (up to 20 MW), and Vale Diesels (7.6 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		
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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 and Fuel Oil Piping	Valves	Day Tank Trip Valve	8" Butterfly Valve and Actuator		VALVE, BTFY 8" 150#	In Stock
Fuel Oil Delivery System Aux. Steam and Fuel Oil Piping		Day Tank Trip Valve	Actuator		ACTUATOR, BETTIS CB520	In Stock
Fuel Oil Delivery System Aux. Steam and Fuel Oil Piping		Fuel Line Block Valve	16" Gate Valve		VALVE, GATE 16" NEWCO	In Stock
Fuel Oil Delivery System Aux. Steam and Fuel Oil Piping		Day Tank Fill Line Control valve	6" Control Valve		VALVE, CONTROL 6" FISHER	In Stock
Fuel Oil Delivery System Aux. Steam and 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 129 V	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2205C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2206C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3205C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3206C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2203C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2207C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2202C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2208C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3203C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3207C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3202C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3208C		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4003B		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4004A		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4005B		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4006B		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4007B		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4008B		VALVE, ITT	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.

Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Raw and Makeup Water System and Water Treatment Plant	Demeralization System	Instrumentation/Controls	Mixed Bed Valve - KV4009B		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Demeralization System	Instrumentation/Controls	Mixed Bed Valve - KV4010A		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Demeralization System	Instrumentation/Controls	Mixed Bed Valve - KV4011A		VALVE, ITT	In Stock
Raw and Makeup Water System and Water Treatment Plant	Demeralization 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 and Water Treatment Plant	Demeralization 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 and Water Treatment Plant	Clarifier	Agitator	Frequency Drive		CONTROLLER, SPEED CLARIFIER	In Stock
Raw and Makeup Water System and Water Treatment Plant	Clarifier	Agitator	Recirculator - Double Induction Speed Reducer - In Stock		RECIRCULATOR, STERLING 9A6108	In Stock
Raw and Makeup Water System and 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 and Fuel Oil Piping		Dock Quick Closing Valves	18 " Butterfly Valve		VALVE, BTFY 18" 150#	In Stock
Fuel Oil Delivery System Aux. Steam and 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
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 and Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE, NETWORK INTERFACE	In Stock
Combustion Air and Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		RELAY, AB TYPE P	In Stock
Combustion Air and Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE, PROCESSOR FOXBORO	In Stock
Combustion Air and Gas Instruments	Burner Management	Flame Scanners	24Vdc Scanner Power Supply		POWER SUPPLY, WEIDMULLER	In Stock
Combustion Air and Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter		TRANSMITTER, DP 1 KPA TO 1 KPA	In Stock
Combustion Air and Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 1	One spare F.O. Flow TX for both units	FLOWMETER, ROSE	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

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.

Asset				Critical Spare		
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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 F3/5E	In Stock
Generator	Exciter	Controls	Transformer	On Site	N/A	In Stock
Generator	Stator	PT Cubicle	Primary Contact for Generator P. T.		CONTACT ASSY, PT	On Order
Generator	Seal Oil System	Regulator	1.5" Regulating Valve		SEAL OIL REG KIT, RK	In Stock
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	Ignitor Control Box	Ignition Transformer		XFMR, FOSSIL 5870-542F	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Sunspot		BASE, AMPLIFIER & TERMINAL	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Ignitor 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 85300 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	L.P. Heater Controls (Water Induction Protection)	Level Control	Level Switch		SWITCH, LEVEL MOBREY	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Level Control	Level Transmitter		TRANSMITTER, LEVEL	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Level Control	Relay		RELAY, PLUG-IN 12 PIN AC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Level Control	Bulk Chemical		AMMONIUM HYDROXIDE, 20% TOTE	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	12"-150# Gasket Kit		GASKET, S&K 74S0397V0010	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	O-Rings		O-RING, S&K 75S0144V0090	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	Packing		PACKING, S&K 24"	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	Packing		PACKING, S&K 16"	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	Packing		PACKING, S&K 12"	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves	Seal washers		SEAL, S&K 75G0181V0020	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	NRV Valves - #1&2 LP Heaters	Gasket		GASKET, S&K 67S0064V0010	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	O-Rings		O-RING, S&K 75S0144V0100	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	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	L.P. Heaters	NRV Valves	Valve	Non-Stock is OK since there are full rebuild items identified and stocked	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	Governor	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.	On Order
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

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Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Intercept Control Valve Servos (scream)		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, 50OHM, 5%, 40 WATT		RESISTOR, 500HM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	DIODE MOD, 1200V, 45A, SKKD46/12		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 POWER		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
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, METALLIZED 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		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	MKV, Analog I/O Terminal Board		TERMINAL BOARD, ANALOG I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, 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		BOARD, GE DS200TCCAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Common Analog Card		BOARD, GE DS200TCCAG1B	In Stock

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Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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, remain 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, remain only, Has age sensitive components,	BOARD, GE DS200TCP5G1A	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, remain only	CARD, EXTENDED MKV (RST)	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, BOARD-(RST) OVERFLOW	New no longer available, remain 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, remain only	BOARD, GE DS200TCTSG1A	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MODULE, AC TO DC	DS2020DACAG1 has been superseded by DS2020DACAG2	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	
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 and 2 Air and Flue Gas	Furnace Pressure TX (Trip)	Pressure Transmitter	Pressure Transmitter		TRANSMITTER, DP -8000-8000KPA	In Stock	
Units 1 and 2 Air and 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 and 2 Air and Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET, AIR HEATER U1	Non-Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Bearing		BEARING, BALL 23034CCK/C3W33	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Seal		SEAL, HOWDEN 68-01-615	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Drive System	Coupling		COUPLING, STEELFLEX 1-1/8 S-4	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Drive System	Air Motor		AIR MOTOR, ING RAND	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Drive System	Motor		MOTOR, HEATER 1/3HP (XL GEAR)	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Soot Blowers	Sleeve		SLEEVE, RELIANCE 411629-6A	In Stock	
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Soot Blowers	Coupling		COUPLING, BORE 3/4X5/8	In Stock	

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Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Units 1 and 2 Air and Flue Gas	Rotary Air Heaters	Soot Blowers	Roller assembly		ROLLER, ASSEMBLY	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Gasket		GASKET SET, FISH RGASKETX182	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Stud		STUD, DEW 0282336	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Repair Kit		ACTUATOR KIT, FISH R667X000402	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Cage		CAGE, FISH 2U224033272	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Plug/Stem		PLUG ASSY, FISH 1V6575X0052	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Ring		RING, FISH 1U222646172	In Stock
Units 1 and 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Bushing		BUSHING, FISH 1E682814012	In Stock
Units 1 and 2 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	2" Flanged Valve		VALVE, FISH ATOM STEAM	In Stock
Units 1 and 2 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Flanged Valve		VALVE, FISH F.O. TRIP	In Stock
Fuel Oil System	Header Pressure Control Valve	Valves	Repair Kit, Packing	Used for Units 1, 2 and/or 3	PACKING KIT, FISH RPACCKX00012	On Order
Units 1 and 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Diaphragm		DIAPHRAGM, FISH 2E670002202	In Stock
Units 1 and 2 Fuel Oil System	Fuel Oil Pumps	Fuel Oil Pumps	PUMP, IMO C324		PUMP, IMO C324 (COMPLETE)	In Stock
Units 1 and 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	Seal		SEAL, MECHANICAL FUEL C324	In Stock
Units 1 and 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Gasket Set		GASKET SET, FISH RGASKETX312	In Stock
Units 1 and 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Ring		RING, FISH 1U222535072	In Stock
Units 1 and 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Plug/stem		PLUG/STEM, FISH 1U8350X0022	In Stock
Units 1 and 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Cage		CAGE, FISH 2U215033272	In Stock
Units 1 and 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Gasket		GASKET, FISH 10A4154X012	In Stock
Units 1 and 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Ring		RING, FISH 1U222835072	In Stock
Units 1 and 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Diaphragm		DIAPHRAGM, FISH 2N126902202	In Stock
Units 1 and 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Cage	Repair Parts Stocked Ref CN116597	CAGE, FISH 2U231833272	In Stock
Units 1 and 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets		GASKET, FUEL OIL HEATER	In Stock
Units 1 and 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 and 2 Fuel Oil System	Burners	Oil Valve	Oil, Steam & Scavenge Valves - All Same		VALVE, BALL 3/4 C/W PNEU	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Cage		CAGE, FISH 42B3570X012	In Stock
Units 1 and 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 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING, FISH 26A5285X012	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING, FISH 26A5299X052	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING, FISH 10A5411X022	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Pin		PIN, FISH 1V334035072	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET, FISH 18A2810X012	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET, FISH 26A5314X012	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING, FISH 10A5410X012	In Stock
Units 1 and 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Packing		PACKING, FISH 1R290601012	In Stock
Units 1 and 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 and 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Bushing		BUSHING, BJ 216507LG	In Stock
Units 1 and 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 and 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING, BJ 612987-EH	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.

Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING, BJ 634599-BG	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shoe		SHOE ASSY, BJ 631163-KD	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Cover		COVER, BJ 308952-SA	In Stock
Units 1 and 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 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Gasket		GASKET, FISH 12B7100X082	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Seal	Repair Parts stocked Ref CN12054568	SEAL, FISH 10A4215X012	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref CN12054568	RING, FISH 10A4217X012	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref CN12054568	RING, FISH 10A4219X012	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring		RING, FISH 22B9344X012	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Plug/Stem		PLUG/STEM, FISH 38A0014X062	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #1 - All HP Heaters	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 - HP Heater # 4 & 6	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 -HP Heater # 5	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 and 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 and 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 and 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 and 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 and 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 and 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2	Solenoid		SOLENOID, ASCO 8500 125 VDC	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Suction Valve Limit Switch	Oil Tight Limit Switch		SWITCH, LIMIT AB 802T-B	In Stock
Units 1 and 2 H.P. Feedwater System	Boiler Feed	Suction Valve	Packing		PACKING, GRAFOIL 1IDX1-1/20D	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Gasket		GASKET, HOP 30037592	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spindle		SPINDLE, HOP 44574-011	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT, HOP 35224-508	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stop		STOP, HOP 8 VALVE 24930W	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Belt		BELT ASSY, HOP 44511-001	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 4	8"- 150# Gasket Kit		GASKET, S&K 74S0397V0010	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 5	8"- 300# Gasket Kit		GASKET, S&K 74S0397V0010	In Stock
Units 1 and 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 6	8"- 600# Gasket Kit		GASKET, S&K 74S0397V0010	In Stock
Units 1 and 2 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter		TRANSMITTER, PRESS 5-800	In Stock
Units 1 and 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 and 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 and Gas Instruments	Burner Management	Positioner	2.5" x 5 "Pneumatic PowerPositioner (Hagan) In Stock		VALVE ASSY, 373218-001	In Stock
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

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Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	Pressure Switch 1	Mark 5 System - speed probes		PROBE, SPEED PICKUP	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	Switch	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 and 2 Air and Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Inboard Bearing Liner		LINER, BEARING 6"	In Stock	
Units 1 and 2 Air and Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Outboard Bearing Liner		SLEEVE, BEARING 6"	On Order	
Units 1 and 2 Air and Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Bearing Set	U1 West (Dodge)	BEARING SET, SLEEVE 6"	In Stock	
Units 1 and 2 Air and Flue Gas	F.D. Fans	Unit 1& 2 - Fans	200A Power Cell		POWER CELL, SIEMENS 200A	On Order	
Units 1 and 2 Air and 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 and Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE, NETWORK INTERFACE	In Stock	
Combustion Air and Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		RELAY, SD 8501XUDO	In Stock	
Combustion Air and Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE, PROCESSOR FOXBORO	In Stock	
Combustion Air and Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Transmitter		FLOWMETER, PROMASS 83F40	In Stock	
Combustion Air and Gas Instruments	Burner Management	Elevation Air Dampers	Positioner		POSITIONER, FISH DVC6200	In Stock	
Condenser Air Extraction System	Vacuum Breakers	Stator and Brush Rigging Assembly	6" Flange Vacuum Breaker		VALVE, AIR & VACUUM 6 FLG	On Order	
Generator	Synchronous Condenser	Thrust Bearing	Brush		BRUSH, GENERATOR U3	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Bearing Pad		PAD, BEARING U3 SYNC COND	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Seal Ring		RING, SEAL U3 SYNC COND	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Thrust bearing		BEARING, THRUST U3 SYNC COND	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Thrust bearing		BEARING, THRUST U3 SYNC COND	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Seal Ring		RING, SEAL U3 SYNC COND	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Thermocouple		THERMOCOUPLE, U3 SYNC 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	

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Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	On Order
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	On Order
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
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	In Stock

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Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description		
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	24" Dia		GASKET, COVER HIT	In Stock	
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	Valves	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 and 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	Governor	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	
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	DC Lube (Flushing) Oil Pump	Bearing		BEARING, PLANE HIT ITEM 35	In Stock	
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Bearing		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	

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.

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	On Order
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING, 10P-061-226-208	On Order
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING, 10P-061-226-209	On Order
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	On Order
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	On Order
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	Steam Seal Regulator	Pressure Transmitter - Unit 3		TRANSMITTER, PRESS 0-200	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	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
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	Steam Seal Regulator	Aux Steam Control Valve - Body - Unit 3		BODY, VALVE FISH 3N192029022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	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	Steam Seal Regulator	Ring		RING, FISH 17A3990X022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	Ring		RING, FISH 1U508039102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	Pin		PIN, FISH 1V326035072	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	Cage		CAGE, FISH 2U505939102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	Plug		PLUG, FISH 27A3953X012	In Stock
Unit 3 Air and 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 and Flue Gas	F.D. Fans	Drive Motor	Formed Coils		COIL, WINDING U3 FD FAN	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Fan Assembly	Liner		LINER ASSY, DODGE 132423	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Fan Assembly	Collar		COLLAR, DODGE 132154	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Fan Assembly	Opposite side bearing		LINER ASSY, DODGE 132951	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Fan Assembly	2 - Temperature probes installed in bearings		THERMOCOUPLE, TYPE T	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Fan Assembly	Falk Steelflex coupling		COUPLING, STEELFLEX GRID	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	2 - Independent bearing pedestals	Gasket		GASKET, DODGE 132170	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	Outlet damper	Damper		DAMPER, STOCKBRIDGE 0.866"	Non-Stock
				To be ordered & stocked as required		

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.

Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Unit 3 Air and Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER, STOCKBRIDGE 1.004"	Non-Stock
Unit 3 Air and Flue Gas	F.D. Fans	variable inlet vanes	Actuator Repair Kit		DRIVE KIT, BAILEY 532694C1	In Stock
Unit 3 Air and Flue Gas	F.D. Fans	variable inlet vanes	Actuator repair kit		DRIVE KIT, BAILEY 256111A0	On Order
Unit 3 Air and Flue Gas	Rotary Air Heaters	Gearbox	Gearbox		GEARBOX, AIR HEATER U3	In Stock
Unit 3 Air and Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor		AIR MOTOR, ING RAND	In Stock
Unit 3 Air and 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 and 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 and Flue Gas	O2 Analyzers		Probe - In Stock		PROBE, OXYGEN ANALYZER	In Stock
Unit 3 Air and 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	On Order
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	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
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		Oil Valve	1/2" Ball Valve		VALVE KIT, JAMES RK85MT	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	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	Plug/Stem		PLUG/STEM, FISH 1U2161X0082	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Ring		RING, FISH 1U222546172	In Stock

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Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	Balance bushing		BEARING, HIT 9-60-2	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Thrust bearing		BUSHING, BWL 3106181	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Gaskets		BEARING ASSY, THRUST JHJ-5	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	2350HP Motor, 4160Vac	Motor stored off site via service contract	GASKET, BWL T-101204JG	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve 1500lb - Welded		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	1 - 10A5411X022 - Seal Ring		DIAPHRAGM, FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 13A5599X052 - O-Ring		RING, FISH 10A5411X022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 26A52990X52 - Seat Ring Retainer		O-RING, FISH 13A5599X052	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 26A5299X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 42B3570X012 - Cage, Eq%		RING, FISH 27A2798X042	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 36A5366X062 - Plug/Stem Bal		CAGE, FISH 42B3570X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	2 - 26A5314X012 - Gasket		PLUG/STEM, FISH 36A5366X062	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1J872906332 - Upper Wiper		GASKET, FISH 26A5314X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1J873435072 - Packing Box Ring		WIPER, FISH 1J872906332	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1R290601012 - Packing Set		RING, FISH 1J873435072	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1H7441X0022 - Bushing Seal		PACKING, FISH 1R290601012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 2R6376X0082 - Diaphragm		SEAL, FISH 1H7441X0022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - R667X000802 - Repair Kit		DIAPHRAGM, FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	All HP Heaters	Conductivity Probe		ACTUATOR KIT, FISHER R667	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Aquarian Alarm Module		PROBE, CONDUCTIVITY	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Level Transmitter		PROBE, AQUARIAN	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Relay		TRANSMITTER, DP 0-120" H2O	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Solenoid		RELAY, OMRON MM4XP-DC125	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Bushing		SOLENOID, ASCO 8300 125 VDC	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Clip		BUSHING, DEW 0800109	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		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

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Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	On Order	
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	On Order	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seal		SEAL, MASON 354810-034-779	In Stock	
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 011509398-206-0000	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 011509395-213-0000	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.	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.	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.	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.	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.	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.	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.	In Stock	

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Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	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)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to transformer ATC - breaker SSB-3	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	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	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock
Station Board SB12 (SSB1)			Feeder to Station Board - breaker SSB-4	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock
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

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Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock
Station Board SB34 (ST34)			Feeder to Station Board - breaker TB12 & relays	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		Circuit Breaker TB3	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock

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Asset			Critical Spare				Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Station Board SB34 (ST34)			breaker PSM3 & relay	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Station Board SB34 (ST34)			breaker TB12 relays	Shares spare with MAVS devices - replaced by ABB SYN5201-0271	SYNCHROTRACT, 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 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	Shares spare with MAVS devices - replaced by ABB SYN5201-0271	SYNCHROTRACT, 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	Shares spare with MAVS devices - replaced by ABB SYN5201-0271	SYNCHROTRACT, SYN5201	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	
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	

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Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock	
Unit Board UB1 (UB1-2)			Feeder to transformer ATA - breaker UB1-3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-4	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-5	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-6	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-7	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-8	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-9	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			breaker UB1-10	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	

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Asset				Critical Spare		
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Unit Board UB1 (UB1-2)			breaker UB1-11	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	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
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	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock

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Asset			Critical Spare				Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Unit Board UB2 (UB2-1)			UB2-3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-4	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-5	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-6	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-7	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-8	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-9	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB2 (UB2-1)			UB2-10	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	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 UAB3	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 BAB3	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.

Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CEN3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CES3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	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.

Asset			Critical Spare			
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	Replaced by SEL701	RELAY, PROTECTION SEL701	In Stock
Station Board SB12 (SSB1)			Feeder to Station Board - breaker SSB-1 & Relays	Direct replacement breaker 5HK-VR-250-2000A	BREAKER, EATON 4160V 2000A	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB SYN5201-0271	SYNCHROCONTACT, 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	Replaced by SEL701	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	Replaced by SEL701	RELAY, PROTECTION SEL701	In Stock
Unit Board UB3 (UT3)			BFE3 relay	n/a	RELAY, PROTECTION SEL701	In Stock
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	Purchasing re-build kit/critical spares kit for AK-1-50 frame breaker	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	Direct replacement breaker 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	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.

Asset			Critical Spare				Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	Purchasing re-build kit/critical spares kit for 50H-2 frame breaker	BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WAM34	Purchasing re-build kit/critical spares kit for 50H-3 frame breaker	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

Recommended Component	Stock Status as of September 2019	Risk Score	Expected Delivery	Comments
High Energy Ignition Unit, Gas Generator, Prime Mover Systems	In Stock	High	N/A	
Bearing (494047), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Bearing (494056), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Vibration Transducer, Gas Generator, Prime Mover Systems	In stock	Medium	N/A	
Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Fuel Filter, Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Filter (494064), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Proximity Switch, Clutch, Prime Mover Systems	In Stock	Medium	N/A	
Altair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	High	N/A	
Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems	In stock	High	N/A	
Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Valve (181536), Power Turbine Model CT2, Prime Mover Systems	In Stock	Low	N/A	
Primary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	High	N/A	
Primary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	High	N/A	
Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	High	N/A	
Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	High	N/A	
Ring that the Primary Pawl and spring are installed	In Stock	Medium	N/A	
Primary Pawl Spring, Clutch, Prime Mover Systems	In Stock	High	N/A	
Primary Pawl, Clutch, Prime Mover Systems	In Stock	High	N/A	
Secondary Pawl, Clutch, Prime Mover Systems	In Stock	Medium	N/A	
Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	In Stock	Medium	N/A	
Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems	In Stock	High	N/A	
Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	

Recommended Component	Stock Status as of September 2019	Risk Score	Expected Delivery	Comments
Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems	In Stock	High	N/A	
Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	High	N/A	
Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Prefilter, Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	Medium	N/A	
Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Unloading Filter, Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	Medium	N/A	
Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	Medium	N/A	
Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, HWD GT	In Stock	N/A	N/A	
P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems	In Stock	High	N/A	
Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, SVL GT	In Stock	Medium	N/A	
Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, SVL GT	In Stock	Medium	N/A	
Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	Medium	N/A	
Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems	In Stock	Medium	N/A	
Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Medium	N/A	
Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Medium	N/A	
NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems	in stock	High	N/A	

Recommended Component	Stock Status as of September 2019	Risk Score	Expected Delivery	Comments
Combustion Chamber, Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	High	N/A	
Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	High	N/A	
Pressure Switch, Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	Medium	N/A	
Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	In Stock	High	N/A	
Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Oil Pump - Complete, Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	Medium	N/A	
Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	Medium	N/A	
Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	Medium	N/A	
Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Medium	N/A	
Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Medium	N/A	
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N/A	
Proximity Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT	In Stock	Low	N/A	



Critical Spares Status
Hardwoods and Stephenville - Gas Turbines

Recommended Component	Stock Status as of September 2019	Expected Delivery	Comments
Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	On order	Late Oct 2019	
Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	On Order	Early Dec 2019	



Critical Spares Status
Hardwoods and Stephenville - Gas Turbines

Recommended Component	Stock Status as of September 2019	Expected Delivery	Comments
Fire Fuel Shutoff Valve (LF-8), Liquid Fuel System, Auxiliary Systems	In Procurement Process	TBD	
NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Procurement Process	Late Oct 2019	
NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Procurement Process	Late Oct 2019	
Starter Control Valve (CA-17), Gas Generator Air Starter System, Auxiliary Systems	In Procurement Process	Mid-Jan 2020	
Fuel Pump Servo Valve (SV-LF-1), Liquid Fuel System, Auxiliary Systems	In Procurement Process	TBD	
Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Procurement Process	Late Oct 2019	
Pressure Switch, Liquid Fuel System, Auxiliary Systems, HWDGT	In Procurement Process	Late Oct 2019	
Pressure Switch, Gas Generator Lube Oil System, Auxiliary System, HWDGT	In Procurement Process	Late Oct 2019	
Level Switch (LS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Procurement Process	TBD	



Critical Spares Status
Hardwoods and Stephenville - Gas Turbine

Recommended Component	Stock Status As of September 2019	Expected Delivery	Comments
Three-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems	Engineering Required	TBD	Existing Spare Being Installed During Next Maintenance Outage
Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	Engineering Required	TBD	
Oil Drain Alternator Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, SVL GT	Engineering Required	TBD	
Oil Drain Clutch Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, SVL GT	Engineering Required	TBD	
Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD GT	Engineering Required	TBD	
Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems	Engineering Required	TBD	
Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems	Engineering Required	TBD	New Switch Installed in 2019



**Critical Spares Status
 Hardwoods and Stephenville - Gas Turbine**

Recommended Component	Stock Status as of September 2019	Expected Delivery	Comments
Double-Acting Pneumatic Cylinder, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	Not In Stock	N/A	Not Required - Does not Limit Operation
Pneumatic Cylinder, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT	Not In Stock	N/A	Not required - Does not Limit Operation
Battery, 125 VDC Battery Bank, D.C. Electrical System, Power Generation Systems, HWD GT	Not In Stock	N/A	Not Required - Limited Shelf Life of Spare
Battery, 250 VDC Battery Bank, D.C. Electrical System, Power Generation Systems, SVL GT	Not In Stock	N/A	Not Required - Limited Shelf Life of Spare
Oil to Glycol Heat Exchanger (CLR-LO-1), MLO/Glycol Cooling System, Auxiliary Systems	Not In Stock	N/A	Recently Inspected - In Good Condition
Actuator - Hydraulic & DC Motor (A-LF-1), Liquid Fuel System, Auxiliary Systems	Not In Stock	N/A	New System Installed
Forwarding DC Emergency Pump No 2, Liquid Fuel System, Auxiliary Systems, SVL GT	Not In Stock	N/A	Not Required due to Redundancy
Expansion Tank Low Level Alarm (LL-GA-1), Alternator Cooling System, Auxiliary Systems, SVL GT	Not In Stock	N/A	New System Installed
Hydraulic Actuator Supply Filter (F-HO-1), Liquid Fuel System, Auxiliary Systems	Not In Stock	N/A	New System Installed
Supplemental Fuel AC Pump (P&MLF-5), Liquid Fuel System, Auxiliary Systems	In Stock	N/A	Not Required - Fuel System Redesign
Supplemental Fuel Filter (F-LF-5), Liquid Fuel System, Auxiliary Systems	Not In Stock	N/A	System Removed
Bearing (181413 or 181332), Power Turbine Model CT2, Prime Mover Systems	Not In Stock	N/A	OEM Supplied Within Two Weeks
Inertial Filter Element, Filter Box - Curtiss Wright, Prime Mover Systems	Not In Stock	N/A	Not a Wear Component

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	N/A	
ALARM, TROUBLE	FIRE CONTROL PANEL TROUBLE ALARM TO DCS, DET-TRONICS: U9500A	Provided Under Service Contract	0	N/A	
ALARM, PANEL DISCHARGE	FIRE CONTROL PANEL DISCHARGE -ALARM TO DCS, NOTIFIER: AFP-300	Provided Under Service Contract	0	N/A	
BELT, RADIATOR FAN	RADIATOR FAN BELT GROUP 1, CAT: 7W5228	Engineering Required	0	TBD	
SENSOR, TEMPERATURE	JCI TS-9103-8324	Engineering Required	0	TBD	
VALVE, COMPRESSOR SOLENOID	HP COMPRESSOR BLEED VALVE SOLENOID, ASCO: JKC8316G74V	Engineering Required	0	TBD	
TRANSMITTER, PRESSURE	INLET FILTER HOUSE BAROMETRIC - PRESSURE TRANSMITTER, SIEMENS: 7MF4233-1FA10-1AC1-Z+B21+Y01+Y15	Engineering Required	0	TBD	
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	In Stock	1	N/A	
Module, ControlNet	Combination Generator Control Module with ControlNet communication	On Hand - under parts management agreement	1	N/A	
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	N/A	
IFM, Analog, 8 Channel	Feed-Through 8 Channel Analog IFM, 3 Terminals per Input, Analog Interface Module	On Hand - under parts management agreement	1	N/A	
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	N/A	
Module, relay expander	Relay Expander Module, 24V DC, 16 Relays with Fusing	On Hand - under parts management agreement	1	N/A	
10 Slot ControlLogix Chassis	10 Slot ControlLogix Chassis	On Hand - under parts management agreement	1	N/A	
4 Slot ControlLogix Chassis	4 Slot ControlLogix Chassis	On Hand - under parts management agreement	1	N/A	
Module, ControlNet interface	ControlNet Interface Module (100 connections)	On Hand - under parts management agreement	1	N/A	
Module, ControlNet redundant	ControlNet Redundant Interface Module (100 connections)	On Hand - under parts management agreement	1	N/A	
Module, ControlNet bridge	ControlNet Redundant Bridge Module (40-48 connections)	On Hand - under parts management agreement	1	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
Analog Input - Current/Voltage 16 Pts (36 Pin)	Analog Input - Current/Voltage 16 Pts (36 Pin)	On Hand - under parts management agreement	1	N/A	
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	N/A	
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	N/A	
10-31 VDC Output 32 Pts (36 Pin)	10-31 VDC Output 32 Pts (36 Pin)	On Hand - under parts management agreement	1	N/A	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
10-31 VDC Output 32 Pts (36 Pin)	10-31 VDC Output 32 Pts (36 Pin)	On Hand - under parts management agreement	1	N/A	
Analog Output - Current/Voltage 8 Pts (20 Pin)	Analog Output - Current/Voltage 8 Pts (20 Pin)	On Hand - under parts management agreement	1	N/A	
Power supply, 85-265VAC, 10 AMP	ControlLogix, 85-265 VAC Power Supply (10 Amp @ 5V)	On Hand - under parts management agreement	1	N/A	
Power supply, 85-265VAC, 13 AMP	ControlLogix, 85-265 VAC Power Supply (13 Amp @ 5V)	On Hand - under parts management agreement	1	N/A	
Redundancy Module	Redundancy Module	On Hand - under parts management agreement	1	N/A	
ControlLogix Position and Time Services	ControlLogix Position and Time Services	On Hand - under parts management agreement	1	N/A	
Ethernet Switch, Stratix 5700	Stratix 5700 Switch, Managed, 16 Fast Ethernet Copper Ports, 2 Fast Ethernet Fiber SFP Slots, Lite Software, DLR	On Hand - under parts management agreement	1	N/A	
Module, ControlNet Repeater adapter	Networks and Communication Products, ControlNet Repeater Adapter Module	On Hand - under parts management agreement	1	N/A	
Module, long distance fiber ring repeater	Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - under parts management agreement	1	N/A	
Module, long distance fiber ring repeater	Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - under parts management agreement	1	N/A	
Networks and Communication Products, Right-angle T-tap	Networks and Communication Products, Right-angle T-tap	On Hand - under parts management agreement	1	N/A	
Networks and Communication Products, Right-angle Y-tap	Networks and Communication Products, Right-angle Y-tap	On Hand - under parts management agreement	1	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
Module, I/O	PF750-24V I/O Module-2AI, 2AO, 6DI, 2RO	On Hand - under parts management agreement	1	N/A	
Adapter, comms, devicenet	PowerFlex Architecture Class DeviceNet Communication Adapter	On Hand - under parts management agreement	1	N/A	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
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	N/A	
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	N/A	
Display, 15in TFT, keypad/touch	PanelView Plus Display Keypad/Touch, 15-inch TFT Display, Color, No Options	On Hand - under parts management agreement	1	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
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	N/A	
Module, ethernet server comms, DNP3	ProSoft Technology DNP 3.0 Ethernet Server Communication Module	On Hand - under parts management agreement	1	N/A	
Module, comm modbus master/slave	ProSoft Technology Modbus Master/Slave Enhanced Communication Module	On Hand - under parts management agreement	1	N/A	
REPAIR KIT, SOLENOID	PURGE SOLENOID REPAIR KIT, SURESITE: 3153515	In Stock	2	N/A	
SWITCH, TEMPERATURE	BARKSDALE HEATER CONTROL TEMPERATURE SWITCH, MODEL # T1X-S154-A, STAINLESS STEEL	In Stock	1	N/A	
VALVE, SHUTDOWN PURGE	1", QS0065-4 DXP-L21GNEB JBHC8327G041-125VDC	In Stock	1	N/A	
VALVE, CONTINUOUS PURGE	3", QS0600-4 DXP-L21GNEB EFHC8321G1	In Stock	1	N/A	
FUSE, LOW VOLTAGE DC	REPLACEMENT FUSE (LOW VOLTAGE DC PIM), BENTLY NEVADA: 1720045	In Stock	1	N/A	
MODULE, DC POWER SUPPLY	HIGH VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA: 129486-01	In Stock	1	N/A	
MODULE, POWER SUPPLY	LOW VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA: 133292-01	In Stock	1	N/A	
MODULE, POWER INPUT	LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA: 133300-01	In Stock	1	N/A	
MANUAL, POWER SUPPLY MODULE	POWER SUPPLY MODULE, MANUAL, BENTLY NEVADA: 129767-01	In Stock	1	N/A	
TRANSUDCER, 55A CURRENT	E-CELL 55A CURRENT TRANSDUCER, PHOENIX CONTACT: 3062518	In Stock	2	N/A	
CONTACTOR, E-CELL 32A	E-CELL 32A CONTACTOR, GENERAL ELECTRIC: 3060877	In Stock	2	N/A	
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	1	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: SL17998MINK	In Stock	1	N/A	
VALVE, CHECK 3"	3MB60-6047-WR	In Stock	1	N/A	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
VALVE, SS POPPET CHECK	SS POPPET CHECK VALVE, SWAGELOCK: SS-6C-1	In Stock	1	N/A	
VALVE, FUEL CHECK	FUEL LINE CHECK VALVE, PARKER: 10A-CBG8L-10-PF-SS, VOGT: SW9871T,	In Stock	16	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	2	N/A	
VALVE, FUEL BYPASS	MANUFACTURER: FISHER, MODEL: 1008 HANDWHEEL ACTUATOR W/LOCKING MECHANISM, SIZE 40, TRAVEL LENGTH: 3/4", CAPABLE OF GIVING PRECISE MANUAL - THROTTLING CONTROL, TRAVEL INDICATOR 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 # F00642304, TYPE: ET CAV 11.1, 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	On Order	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", 560hit-TH66 Q51600-4 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: 20E395WZ24D	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	
INDICATOR, SIGHT	1-1/2", JACOBY: 100-S(NF)	In Stock	1	N/A	
VALVE ASSY, PILOT	PILOT VALVE ASSEMBLY, CLIPPARD FV-SP W/M/PA-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	
COUPLING, PUMP/MOTOR	JOHN CRANE: A045-3578-1270, 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	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
FILTER, LIQUID FUEL	CLARK RELIANCE 2200A3	In Stock	24	N/A	
FILTER, AIR (ELEMENT)	INGERSOLL RAND 32012957	In Stock	14	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, 96131C1 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	5	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	83	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	19	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 Procurement Process	0	TBD	
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	71	N/A	
PRE-FILTER, AIR COOLING		In Stock	31	N/A	
METER, FLOW	ROSEMOUNT: 3051SFC1C030N065-T33EA1A5Q4E6M5	In Procurement Process	0	TBD	
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: 3051SFC1C030NXT33DA1A5DQ4E6M5	In Procurement Process	0	TBD	
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	
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 PRESSURE/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	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
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: 6008-01-CEXSG	In Stock	2	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: 45-118775S-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 Procurement Process	0	TBD	
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: HCL8316666MB	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	
INDICATOR, LOW OIL LEVEL	INSTRUMENT AIR COMPRESSOR LOW - OIL LEVEL INDICATOR, 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: 3051TG4A2A1AM5Q4	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	
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: FO-04A51	In Stock	1	N/A	
VALVE, BALL	1.5", STAINLESS STEEL, MCMASTER 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 Procurement Process	0	TBD	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
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	
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: 5402AH1E645PVCAM1C1S3	In Stock	1	N/A	
GAUGE, PRESSURE	RAW WATER PUMP I & Z, DISCHARGE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT: 3051S2TG2A2A11A1AB4M5O4	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, CAPSULHELIC	CAPSULHELIC GAUGE 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, CAPSULHELIC	CAPSULHELIC GOUGE 0-2" W.C., PNEUMAFIL: 551646-B6	In Stock	1	N/A	
TRANSMITTER, PRESSURE	PRESSURE TRANSMITTER 0-300 PSI 4-20MA, ROSEMOUNT: 3051TA3A2B21AE5	In Stock	1	N/A	
REGULATOR, PRESSURE	PRESSURE REGULATOR - AIR SUPPLY FROM INST AIR COMPRESSOR, FISHER: FS64-29	In Stock	1	N/A	
GAUGE, PRESSURE	INSTR. AIR COMPRESSOR PRESSURE GAUGE, AIR CENTERS OF FLORIDA: 5ZPT76	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	PRESSURE GAUGE 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 UNLOADING GROUND VERIFICATION MONITOR, 8030-120 GROUND VERIFICATION MONITOR, CIVACON	In Stock	1	N/A	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
MOTOR, FLAP ACTUATOR	JOHNSON CONTROLS, JCI M9132-GGA-1	In Stock	1	N/A	
BRUSH, CARBON MOTOR	1 SET = 2 PIECES, ABB: GPF052143P0098	In Stock	2	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	4	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	11	N/A	
FUSE, 3.0A	BUSSMAN: LP-CC-3.0	In Stock	20	N/A	
FUSE, 12A	FUSE 12A, SIEMENS: S00232012	In Procurement Process	0	TBD	
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	10	N/A	
FUSE, 25A E-CELL	E-CELL FUSE 25A, BUSSMAN: 1154697	In Stock	2	N/A	
FUSE, 2A E-CELL	E-CELL FUSE 2A, BUSSMAN: 3060755	In Stock	2	N/A	
FUSE, 6A GMC-6A	6AMP, GMC-6A, BUSSMAN: LWT7345	In Stock	10	N/A	
FUSE, 1.25A GMC-1.25A	FUSE 1.25 AMP, GMC-1.25-A, BUSSMAN: LWT9119	In Stock	10	N/A	
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 VELOMETER), 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 VELOMETER), 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	1	N/A	
LAMP, 115VAC PILOT	115VAC PILOT LAMP - VARIOUS SKIDS, RADWELL INTERNATIONAL: DSN130	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	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
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	
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 Procurement Process	0	TBD	
DETECTOR, THERMAL	TURBINE ENCLOSURE THERMAL DETECTOR, KIDDE-FENWAL: 27121-325	In Stock	4	N/A	
VALVE, SOLENOID	E-CELL SOLENOID VALVE, EMERSON: 3022390	In Procurement Process	0	TBD	
VALVE, TEMP CONTROL	STAGE #3 DISC CAVITY TEMPERATURE - CONTROL VALVE, 3", FISHER: A41-1032425AS	In Stock	1	N/A	
VALVE, PRESS REGULATING	LO BEARING PRESSURE REGULATING VALVE, FISHER: 44 ACTUATOR 4 BODY 655ED	In Stock	1	N/A	
VALVE, INLET SHUFFLE	INLET SHUTTLE VALVE, SURESITE: 4010031	On Order	1	N/A	
TRANSMITTER, GROUND FAULT	SIEMENS PG: 153C691G02	In Stock	1	N/A	
THERMOCOUPLE, LUBE OIL TEMP	BEARING LUBE OIL SUPPLY TEMPERATURE - THERMOCOUPLE, PYCO: 02-3174 W/16-0049 (TYPE K)	In Stock	1	N/A	
PICK UP, GENERATOR SPEED	TURBINE GENERATOR SPEED PICK UP, BRAUN: A508T165C0.5	In Stock	2	N/A	
SWITCH, OIL PUMP PRESSURE	GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE: B1T-H32	In Stock	2	N/A	
INDICATOR, LOOP PRESSURE	HYD FLUID CONDITIONING LOOP - PRESSURE INDICATOR, 2-1/2", REXROTH: /400PUA31-10A-4 JIC	In Stock	1	N/A	
SWITCH, FLUID LOW LEVEL	HYD FLUID RESERVOIR LOW LEVEL SWITCH, REXROTH: 500PUA31-05 2 SW	In Stock	2	N/A	
SPEED CONTROL, NUMATICS	SPEED CONTROL, BRONZE, NUMATICS A1MN, EMERSON: LWT21254	In Stock	1	N/A	
PREAMPLIFIER, ORP	ORP PREAMPLIFIER, RYAN HERCO: 5905-273	In Procurement Process	0	N/A	
THERMOCOUPLE ASSEMBLY, TYPE J	THERMOCOUPLE ASSEMBLY TYPE J, C11637-07-001	In Procurement Process	0	N/A	
THERMOCOUPLE, TYPE K	K316G316-0-60-120-1ASP	In Stock	1	N/A	
THERMOCOUPLE, EXHAUST	TURBINE EXHAUST END BEARING - THERMOCOUPLE, DUPLEX TYPE K	In Stock	10	N/A	
THERMOCOUPLE, DISC CAVITY	DISC CAVITY THERMOCOUPLE, PYCO: DUPLEX TYPE K	In Stock	6	N/A	
CONTACT, BRUSH	TWO LAYER CONTACT BRUSH, SIEMENS: EMT 513-005, 20X8X32 EG5U/AG20	On Order	20	N/A	
THERMOSTAT KIT, WR-90	WR-90 THERMOSTAT KIT, CHROMOLOX: WR-90 KIT	Engineering Required	0	TBD	
HEATER, 12KW OPEN COIL	12KW OPEN COIL HEATER, CHROMOLOX: OCE-12120-210-480V	Engineering Required	0	TBD	
HEATER, 3PH COMFORT	5KW/3PH/480V COMFORT HEATER, CHROMOLOX: HD3D-500 (PCN#520153)	Engineering Required	0	TBD	
ELEMENT, CHROMOLOX	ELEMENT, CHROMOLOX: 118-305471-112	Engineering Required	0	TBD	
HEATER, CHROMOLOX	HEATER, CHROMOLOX: 1281537	Engineering Required	0	TBD	
CABLE, TITAN IGNITER	TITAN IGNITER CABLE, CENTAUR: 115352-1	Engineering Required	0	TBD	
DAMPER, VACUUM CONTROL	LUBE OIL RESERVOIR - VACUUM CONTROL DAMPER, INTEGRAL WITH BLOWER HOUSING, 4"	Engineering Required	0	TBD	
VALVE, 150# CHECK	150# CHECK VALVE, MODEL 210, 6"	Engineering Required	0	TBD	
VALVE, CHECK	CHECK VALVE, MODEL 210, 4"	Engineering Required	0	TBD	
VALVE, PVC CHECK	PVC Y-PATTERN CHECK VALVE, 3", UNITED STATES PLASTIC CORP: 5132-030	Engineering Required	0	TBD	
VALVE, AIR RELIEF	INST AIR HEADER RELIEF VALVE, PARKER: 6M-6M-RL4A-VTSSMINKD	Engineering Required	0	TBD	
VALVE, PRESSURE RELIEF	POLISHING LOOP PRESSURE RELIEF VALVE, REXROTH: RR00347261	Engineering Required	0	TBD	
VALVE, 1" SW BALL	1" SW BALL VALVE, WORCESTER: K466T5W	Engineering Required	0	TBD	
VALVE, 2" NPT BALL	FEMALE 316 SS FULL PORT BALL VALVE, 2"NPT, MCM: 46495K86	Engineering Required	0	TBD	
VALVE, 3/8" THD BALL	3/8" THD BALL VALVE, APOLLO: 76-102-01	Engineering Required	0	TBD	
VALVE, 2" PVC BALL	TRUE UNION BALL VALVES, 2", PVC, INDELCO: 2TUBV	Engineering Required	0	TBD	
VALVE, BUTTERFLY	BUTTERFLY VALVE, GEAR OPERATED, VELAN TOURQUESEAL: L16-1CP02-ACAA C/W MODEL M15	Engineering Required	0	TBD	
VALVE, TEMP CONTROL	STAGE #2 DISC CAVITY TEMPERATURE - CONTROL VALVE, 4", FISHER: A41-1032425SR	Engineering Required	0	TBD	
GASKET, FLANGE	ROTOR COOLING AIR FILTER COVER - FLANGE GASKET, NATIONAL FILTRATION SYSTEMS: 10300002	Engineering Required	0	TBD	
GASKET, CENTAUR	GASKET, CENTAUR: 946933C1	Engineering Required	0	TBD	
SEAL, MECHANICAL	MECHANICAL SEAL, EAGLE: ABPN Q1Q1VMG	Engineering Required	0	TBD	
AIR FILTER, SOLAR FINAL	CENTAUR: AAF 515-564-002	Engineering Required	0	TBD	
PRE-FILTER, SOLAR	CENTAUR AMERKLEEN M-80 FILTER	Engineering Required	0	TBD	
FILTER, TITAN LUBE OIL	CENTAUR: 38062	Engineering Required	0	TBD	
FILTER, TITAN FUEL	CENTAUR: 11246882	Engineering Required	0	TBD	
FILTER, HIGH PRESSURE FUEL	CENTAUR: 1125423	Engineering Required	0	TBD	
FILTER, LUBE OIL	TURBOHYDRAULIC START LUBE OIL FILTER, CENTAUR FAUCET: 038062 10M	Engineering Required	0	TBD	
MICROSWITCH ASSY, FILTER	MICROSWITCH ASSEMBLY- FILTER SKIDS & SOFTENER, PENTAIR: LWT3215	Engineering Required	0	TBD	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
SWITCH, VALVE OPEN LIMIT	HP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK: 2007XBY/4SPDT	Engineering Required	0	TBD	
SWITCH, VALVE OPEN LIMIT	LP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK: 2007XBY/6SPDT	Engineering Required	0	TBD	
TOWER, LUBE OIL FILTER	LUBE OIL FILTER TOWER #1 PRESS, MARSH: J4652	Engineering Required	0	TBD	
PICK UP, TORQUE CONVERTER SP	TORQUE CONVERTER SPEED PICK UP, ELECTRO CORP: 725833	Engineering Required	0	TBD	
SWITCH, INSULATOR #58-PA	MICRO SWITCH INSULATOR #58-PA, PENTAIR: LWT7696	Engineering Required	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	Engineering Required	0	TBD	
SENSOR, VIBRATION	TURBINE EXHAUST END VIBRATION X - RELATIVE SENSOR, BENTLY NEVADA: 3500 SERIES	Engineering Required	0	TBD	
SWITCH, TEMPERATURE	ELECTRICAL PACKAGE TEMPERATURE SWITCH, SERIES 54	Engineering Required	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	Engineering Required	0	TBD	
SENSOR, E-CELL FLOW	E-CELL FLOW SENSOR 8020 SHORT, BURKERT: 3033067	Engineering Required	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	Engineering Required	0	TBD	
RTD, AIR TEMPERATURE	GENERATOR EXCITER END COLD AIR TEMPERATURE RTD, 100 OHM PLATINUM, TMG GERBERG	Engineering Required	0	TBD	
GAUGE, DIAL PRESSURE	DIAL PRESSURE GAUGE, ECODYNE: 2172-1067	Engineering Required	0	TBD	
VALVE, CONTROL	STAGE 3 TEMPERATURE CONTROL VALVE - /P W/POSITIONER, FISHER: DVC5030	Engineering Required	0	TBD	
VALVE, CONTROL	STAGE 2 TEMPERATURE CONTROL VALVE - /P W/POSITIONER, VRC: VE700GT1	Engineering Required	0	TBD	
TRANSMITTER, OIL PRESSURE	BEARING OIL PRESSURE TRANSMITTER, SIEMENS: 7MF4033-1CA10-1AC7-Z+B21+A02+Y01+Y21+Y15+Y16	Engineering Required	0	TBD	
INDICATOR, OIL LEVEL	LUBE OIL RESERVOIR LEVEL INDICATOR, GEMS: 8066601	Engineering Required	0	TBD	
THERMOCOUPLE, TEMPERATURE	STARTING PACKAGE MOTOR STATOR - TEMPERATURE THERMOCOUPLE, S102629PD-120T305296	Engineering Required	0	TBD	
THERMOCOUPLE, TEMPERATURE	STARTING PACKAGE MOTOR FORWARD - BEARING TEMPERATURE T/C, S16820PD-300Z96	Engineering Required	0	TBD	
GAUGE, PRESSURE	DIFFERENTIAL PRESSURE GAUGE - COMPRESSOR INSTR AIR COALESCING FILTER, HEADLINE FILTERS: DPP-975	Engineering Required	0	TBD	
THERMOSTAT, AC#1	ELECTRICAL PACKAGE AC#1 THERMOSTAT, HH01AD045	Engineering Required	0	TBD	
ACTUATOR, AUMA	ACTUATOR, AUMA, MODEL: SA10.2-216/GS200.3/GZ200.3	Engineering Required	0	TBD	
SWITCH, AUXILIARY	AUX SWITCH, SIEMENS: A011LD64	Engineering Required	0	TBD	
OIL, COMPRESSOR	ALL SEASON SELECT OIL, INGERSOLL RAND 38436721	Engineering Required	0	TBD	
ACTUATOR, DEMAND CONTROL	INLET GUIDE VALVE HYD DEMAND CONTROL - ACTUATOR, MOOG: 85-616C101	Engineering Required	0	TBD	
KIT, E-CELL CLAMP SET	KIT, E-CELL CLAMP SET: 3033064	Newly Identified	0	TBD	
PLC-AB	PLC-AB, ANLG, 4-20, MA, 4IN, 1762-IF4: 1227751	In Procurement Process	0	TBD	
VALVE, PP CHECK	VALVE-CHK, PP, 2.50/DN65, WF, CL: 3060070	Newly Identified	0	TBD	
HEAT EXCHANGER	HEAT EXCH, CC601F-115WL, NOREN, 115VAC: 3060441	Newly Identified	0	TBD	
SENSOR, CONDUCTIVITY	SENSOR-COND, PVDF, 0.01CEL, BUR, 8220: 3059495	In Procurement Process	0	TBD	
VALVE, DIAPHRAM	VALVE-DIAPH, PVC, 1.50, MAN, SOC, TU, GF, EPDM: 3059522	Newly Identified	0	TBD	
VALVE, DIAPHRAM	VALVE-DIAPH, PVC, 0.50, MAN, SOC, TU, GF, EPDM: 1257965	Newly Identified	0	TBD	
SWITCH, ETHERNET, 5-PORT	SWITCH-ETHERNET, 5-PORT, RJ45, DIN RAIL, PC: 3029118	Newly Identified	0	TBD	
FUSE, 1P TYPE CC, AB	TERMINAL-FUSE, 1P TYPE CC, AB: 1235396	Newly Identified	0	TBD	
FUSE, LED, 10-75VAC/VDC	TERMINAL-FUSE, LED, 10-75VAC/VDC, 1492-H5: 1152328	Newly Identified	0	TBD	
FUSE-DELAY, 600V, CLASS CC, 6A	FUSE-DELAY, 600V, CLASS CC, 6A, BUS: 3054531	Newly Identified	0	TBD	
FUSE-BLOCK, 600V, 100A	FUSE-BLOCK, 600V, 100A, MODULAR, BUS: 3020468	Newly Identified	0	TBD	
FUSE-FAST, 700V, 80A	FUSE-FAST, 700V, 80A, BUS: 3010595	Newly Identified	0	TBD	
FUSE-DELAY, 600V, CLASS CC, 3.5A	FUSE-DELAY, 600V, CLASS CC, 3.5A, LP-CC, BUS: 3126308	Newly Identified	0	TBD	
FUSE-DELAY, 600V, CLASS CC, 2A	FUSE-DELAY, 600V, CLASS CC, 2A, BUS: 3060753	Newly Identified	0	TBD	
FUSE-DELAY, 600V, CLASS CC, 4A	FUSE-DELAY, 600V, CLASS CC, 4A, LP-CC-4, BUS: 3060754	Newly Identified	0	TBD	
FUSE-FAST, 250V, CERAMIC, 1A	FUSE-FAST, 250V, CERAMIC, 1A, BUS: 3055154	Newly Identified	0	TBD	
FUSE-DELAY, 600V, CLASS CC, 1A	FUSE-DELAY, 600V, CLASS CC, 1A, BUS: 3029658	Newly Identified	0	TBD	
FUSE-BLOCK, 690V, MIDGET, MERSEN	FUSE-BLOCK, 690V, MIDGET, MERSEN, USM1: 3146420	Newly Identified	0	TBD	
GASKET-FLG, FULL, EPDM, 2.50X0.12, 150	GASKET-FLG, FULL, EPDM, 2.50X0.12, 150: 3020305	Newly Identified	0	TBD	
GASKET, EPDM, MAXI, D-FLOW	GASKET, EPDM, MAXI, D-FLOW: 3041776	Newly Identified	0	TBD	
GASKET, EPDM, C-FLOW	GASKET, EPDM, C-FLOW: 3041773	Newly Identified	0	TBD	
VALVE, NEEDLE	VALVE-NEEDLE, PVC, 0.25, THD, CL, HW: 1258167	Newly Identified	0	TBD	

Description	Recommended Component	Stock Status	Quantity on Hand	Expected Delivery	Comments
PLC-GE	PLC-GE, QP+, 7" COLOR, 24VDC, IC755CSW07CDA: 3134672	In Procurement Process	0	TBD	
PLC-AB	PLC-AB, DIGITAL, 24VDC, 8 IN, 1762-IQ8: 1224240	In Procurement Process	0	TBD	
PLC-AB	PLC-AB, 20DI/12DO/4AI/4AO, 1766-L32BXBA: 3060729	In Procurement Process	0	TBD	
XFMR-CONTROL	XFMR-CNTRL, 230/575, 115-50/60, 500VA, SQ-D: 3060802	In Procurement Process	0	TBD	
POWER SUPPLY, 24VDC	POWER-SUP, PHOENIX, TRIO, 24VDC, 5A: 3037802	In Procurement Process	0	TBD	
VALVE, PRESSURE REGULATING	VALVE-REG, PR, PVC, 1.00, TU, 582, GF: 3144847	Newly Identified	0	TBD	
SWITCH, PUSH BUTTON	SWITCH-P-B, IEC, 1NC, MAN, BLK, 800FP: 3007466	In Procurement Process	0	TBD	
SWITCH, PUSH PULL	SWITCH-PUSH PULL, 24VDC, IEC, MUSHRM, IL, RED: 3006380	In Procurement Process	0	TBD	
RELAY, 3PDT, 24VDC, 10A	RELAY, 3PDT, 24VDC, 10A, 700-HA33Z24: 1152099	In Procurement Process	0	TBD	
RELAY, SPDT, 24VDC, 10A	RELAY, SPDT, 24VDC, 10A, FINDER, 40.31: 3040656	In Procurement Process	0	TBD	
VALVE, RELIEF	VALVE-RELIEF, 316, 1/4"x1/4"MINPT, 1/3-PSI: 3142692	Newly Identified	0	TBD	
KIT, SOLENOID VALVE	KIT-VALVE, SOL, 4W, STACK, 2, 24VDC, NUMATICS: 3135876	Newly Identified	0	TBD	
E-CELL EDI STACKS	E-CELL EDI STACKS	In Procurement Process	0	TBD	
SEAL, MECHANICAL	SEAL MECHANICAL FOR FORWARDING PUMPS: 98511844	Newly Identified	0	TBD	
SEAL, MECHANICAL	SEAL MECHANICAL FOR RO PUMP: 9644664	Newly Identified	0	TBD	
SEAL, O-RING	SEAL ORING QUAD E8 VESSELS - RO SKID: 6100442MK	Newly Identified	0	TBD	
SEAL, O-RING	SEAL O-RING PWT - RO SKID: SG02051195	Newly Identified	0	TBD	
FLOW SENSOR, TURBINE	FLOW SENSOR TURBINE W/ CABLE - VARIOUS SKIDS: CW237	In Procurement Process	0	TBD	
PUMP, CHEMICAL INJECTION	BLUEWHITE CHEMICAL INJECTION PUMP: A1N00F-4T	Newly Identified	0	TBD	
SOFT STARTER	SOFT STARTER FOR RO: TLQATS2222D4756U	Newly Identified	0	TBD	
PLC, PREPROGRAMMED- RO SKID	PREPROGRAMMED PLC - REVERSE OSMOSIS SKID: DO-06DR-RO	In Procurement Process	0	TBD	
VALVE, CHECK 2", PVC, Y-PATTERN	2"PVC Y-PATTERN CHECK VALVE: 5132-020	Newly Identified	0	TBD	
SWITCH, 3-POSITION, 22MM	3-POSITION SWITCH 22MM: GCX3320-22	In Procurement Process	0	TBD	
SWITCH, 2-POSITION, 22MM	2-POSITION SWITCH 22MM: GCX3300	In Procurement Process	0	TBD	
COLOR TOUCHSCREEN INTERFACE, 6"	PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE - PERMEATE PUMP SKID: WSEA9-PEI	In Procurement Process	0	TBD	
PLC, PREPROGRAMMED - PERMATE SKID	PREPROGRAMMED PLC - PERMEATE PUMP SKID: DO-06DR-D-PERM	In Procurement Process	0	TBD	
PLC, PREPROGRAMMED - RAW WATER SKID	PREPROGRAMMED PLC - RAW WATER PUMP SKID: DO-06DR-RW	In Procurement Process	0	TBD	
COLOR TOUCHSCREEN INTERFACE, 6"	PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE - RAW WATER PUMP SKID: WSEA9-R	In Procurement Process	0	TBD	
COLOR TOUCHSCREEN INTERFACE, 8"	PREPROGRAMMED 8" COLOR TOUCHSCREEN OPERATOR INTERFACE - REVERSE OSMOSIS SKID: WSEA9-8F	In Procurement Process	0	TBD	
COLOR TOUCHSCREEN INTERFACE, 10"	PREPROGRAMMED 10" COLOR TOUCHSCREEN OPERATOR INTERFACE - REVERSE OSMOSIS SKID: WSEA9-1	In Procurement Process	0	TBD	
CONDUCTIVITY MODULE	CONDUCTIVITY MODULE FOR MULTIFUNCTION MONITOR - RO: 5908.494	In Procurement Process	0	TBD	

Appendix G

Critical Spares Status Listing – Hydraulic Generation

Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments
BDE - ACCUMULATOR TANK Level Switch	In Stock	
BDE - ACCUMULATOR TANK Pressure Switch	In Stock	
BDE - ADAPTER, REMOTE I/O	In Stock	
BDE - ADAPTER, REMOTE I/O	In Stock	
BDE - ADAPTER, REMOTE I/O	In Stock	
BDE - ADAPTER, REMOTE I/O	In Stock	
BDE - ADAPTER, REMOTE I/O	In Stock	
BDE - BACKPLANE, 10 SLOT MODICON	In Stock	
BDE - BACKPLANE, 10 SLOT MODICON	In Stock	
BDE - BACKPLANE, 10 SLOT MODICON	In Stock	
BDE - BACKPLANE, 10 SLOT MODICON	In Stock	
BDE - BDE - PUMP, OIL IMO A3DB-275	In Stock	
BDE - BEARing KIT, IR 32127474	In Stock	
BDE - BEARing KIT, IR 32127474	In Stock	
BDE - BELT, V IR 95100160	In Stock	
BDE - BELT, V IR 95100160	In Stock	
BDE - BELT, V IR 95100558	In Stock	
BDE - BELT, V IR 95100558	In Stock	
BDE - BOARD ASSY, IRD 24144	In Stock	
BDE - BOARD ASSY, IRD 24144	In Stock	
BDE - CABLE, SERIES 925 RESOLVER	In Stock	
BDE - CABLE, SERIES 925 RESOLVER	In Stock	
BDE - CARD, IRD 31649	In Stock	
BDE - CARD, IRD 31649	In Stock	
BDE - CARD, PRINTED CIRCUIT	In Stock	
BDE - CARD, PRINTED CIRCUIT	In Stock	
BDE - COIL, AB CC236	In Stock	
BDE - COIL, AB CC236	In Stock	
BDE - COIL, SULL 250018-971	In Stock	
BDE - CONTACT, CONTACTOR-TYPE DG-1	In Stock	
BDE - CONTACT, CONTACTOR-TYPE DG-1	In Stock	
BDE - CREEP DETECTOR ASSY, 129 VCD	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - CREEP DETECTOR ASSY, 129 VCD	In Stock	
BDE - DISCONNECT SWITCH 29-1 - Complete Unit	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	
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 - Field Flashing Resistor	In Stock	
BDE - EXCITATION CONTROLS - Field Flashing Resistor	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 - Exciter POWER ELECTRONICS - BRIDGE, ABB S00772	In Stock	
BDE - Exciter POWER ELECTRONICS - FAN ASSY, ABB 500773	In Stock	
BDE - Exciter POWER ELECTRONICS - FUSE, ABB 6, 6URD32TTF0800	In Stock	
BDE - Exciter POWER ELECTRONICS - Pulse Transformers	In Stock	
BDE - Exciter POWER ELECTRONICS - THYRISTOR, ABB 5STP27F1200	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - ARC-CHUTE, ABB UXAB269399R012	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - BREAKER, ABB HIER466757P2331 (Entire Unit)	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT, ABB UXAB239299R0003	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT, ABB UXAB239Z60R002	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT, ABB UXAB269399R032	In Stock	
BDE - FIELD BREAKER QO2 - PANEL EE - SHUNT, ABB UXAB269350R909	In Stock	
BDE - FILTER, AIR (ELEMENT ONLY)	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - FILTER, COOLANT (ELEMENT ONLY)	In Stock	
BDE - GAS, INERGEN (350F3)	In Stock	
BDE - GAS, INERGEN (425F3)	In Stock	
BDE - GASKET KIT, IR X1453T47	In Stock	
BDE - GASKET SET, IR 30423339	In Stock	
BDE - GASKET SET, IR 30423339	In Stock	
BDE - GASKET, FLEXMASTER 250007-559	In Stock	
BDE - GASKET, SULL 040517	In Stock	
BDE - GATE HOIST - BAY D'ESPOIR - ST - Remote I/O Adapter	In Stock	
BDE - GENERATOR - CREEP DETECTOR ASSY, 129 VCD	In Stock	
BDE - GENERATOR - PLATES, BRAKE (24 PER SET)	In Stock	
BDE - GENERATOR - SWITCH, WOODWARD 8935-139	In Stock	
BDE - Generator SLIPRing/BRUSH RIGGING - Brush Holders	In Stock	
BDE - Generator SLIPRing/BRUSH RIGGING - Carbon Brushes	In Stock	
BDE - Generator SLIPRing/BRUSH RIGGING - Slip Ring	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, DASHPOT - LARGE	In Stock	
BDE - GOVERNOR - BUSHING, DASHPOT - SMALL	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 - 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 - FILTER, HYD 932633Q	In Stock	

Critical Spare Component	Stock Status	Comments
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	
BDE - GOVERNOR - LEVER, UPPER FLOATING	In Stock	
BDE - GOVERNOR - LINK, WOODWARD 070346	In Stock	
BDE - GOVERNOR - LOCKWASHER, BEARING	In Stock	
BDE - GOVERNOR - MOTOR ASSY, C/W SHAFT & GEAR	In Stock	
BDE - GOVERNOR - MOTOR ASSY, GATE LIMIT	In Stock	
BDE - GOVERNOR - MOTOR, VIBRATING OIL	In Stock	
BDE - GOVERNOR - MOTOR, GOVERNOR SPEED 28 VOLT	In Stock	
BDE - GOVERNOR - MOTOR, SYNCHRONIZING	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 0.24A	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 V DC	In Stock	
BDE - GOVERNOR - SOLENOID, 125VDC 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 - BALLARM, SPEED SWITCH	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING, PMG P/N Z995205	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING, SPEED SIGNAL	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BEARING, WW 111006	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - GOVERNOR SPEED GENERATOR - BEARING, WW 1800125	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING, URETHANE LOWER D	In Stock	
BDE - GOVERNOR SPEED GENERATOR - BUSHING, URETHANE UPPER D	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN, BALLARM	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN, DOWEL - SPEED SWITCH	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN, ROCKER ARM	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PIN, TAPERED	In Stock	
BDE - GOVERNOR SPEED GENERATOR - PLATE, MOUNTING - MERCURY	In Stock	
BDE - GOVERNOR SPEED GENERATOR - Ring, ROTOR	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 - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING, UPPER HEAD COVER P003	In Stock	
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING, UPPER WICKET	In Stock	
BDE - Heat Sink Exciter	In Stock	
BDE - INTAKE GATE - BACKPLANE, 6 SLOT MODICON	In Stock	
BDE - INTAKE STRUCTURE NO. 1 - TRANSMITTER, PRESS 0-6MH20	In Stock	
BDE - ISOLATED PHASE BUS - CT 50/51	In Stock	
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock	
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock	
BDE - ISOLATED PHASE BUS - XFMR, CT 1000:	In Stock	
BDE - ISOLATED PHASE BUS - XFMR, CT 13.8KV	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 - XFMR, PT 14400KV	In Stock	
BDE - METER, TEMP DIGITAL	In Stock	
BDE - METER, TEMP DIGITAL	In Stock	
BDE - MODULE, ANALOG QUANTUM	In Stock	
BDE - MODULE, ANALOG QUANTUM	In Stock	
BDE - MODULE, ANALOG QUANTUM	In Stock	
BDE - MODULE, ANALOG QUANTUM	In Stock	
BDE - MODULE, CPU MODICON	In Stock	
BDE - MODULE, CPU MODICON	In Stock	
BDE - MODULE, CPU MODICON	In Stock	
BDE - MODULE, CPU MODICON	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - MODULE, DISCRETE IN	In Stock	
BDE - MODULE, DISCRETE IN	In Stock	
BDE - MODULE, DISCRETE IN	In Stock	
BDE - MODULE, DISCRETE IN	In Stock	
BDE - MODULE, DISCRETE OUT	In Stock	
BDE - MODULE, DISCRETE OUT	In Stock	
BDE - MODULE, DISCRETE OUT	In Stock	
BDE - MODULE, DISCRETE OUT	In Stock	
BDE - MODULE, ETHERNET QUANTUM	In Stock	
BDE - MODULE, ETHERNET QUANTUM	In Stock	
BDE - MODULE, ETHERNET QUANTUM	In Stock	
BDE - MODULE, ETHERNET QUANTUM	In Stock	
BDE - MODULE, GPS QUANTUM	In Stock	
BDE - MODULE, GPS QUANTUM	In Stock	
BDE - MODULE, GPS QUANTUM	In Stock	
BDE - MODULE, GPS QUANTUM	In Stock	
BDE - MODULE, HOT STANDBY	In Stock	
BDE - MODULE, HOT STANDBY	In Stock	
BDE - MODULE, HOT STANDBY	In Stock	
BDE - MODULE, HOT STANDBY	In Stock	
BDE - MODULE, INTERFACE PLC	In Stock	
BDE - MODULE, INTERFACE PLC	In Stock	
BDE - MODULE, INTERFACE PLC	In Stock	
BDE - MODULE, INTERFACE PLC	In Stock	
BDE - MODULE, RACK FILLER	In Stock	
BDE - MODULE, RACK FILLER	In Stock	
BDE - MODULE, RACK FILLER	In Stock	
BDE - MODULE, RACK FILLER	In Stock	
BDE - MODULE, RELAY OUT	In Stock	
BDE - MODULE, RELAY OUT	In Stock	
BDE - MODULE, RELAY OUT	In Stock	
BDE - MODULE, RELAY OUT	In Stock	
BDE - MONITOR, 15" TOUCHSCREEN	In Stock	
BDE - MONITOR, 15" TOUCHSCREEN	In Stock	
BDE - MOTOR, ELECT 15HP 575V	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - MOTOR, ELECT 15HP 575V	In Stock	
BDE - MOTOR, SYNCHRONIZING	In Stock	
BDE - MOTOR, SYNCHRONIZING	In Stock	
BDE - NEUTRAL GROUND TRANSFORMER	In Stock	
BDE - PACKING, V TYPE 2-EASY	In Stock	
BDE - PACKING, V TYPE 2-EASY	In Stock	
BDE - PACKING, V TYPE 2-EASY	In Stock	
BDE - PACKING, V TYPE 2-EASY	In Stock	
BDE - PANEL STATION SERVICE - PH #2 - ACB	In Stock	
BDE - PEN ARM MOVEMENT ASSY, RECORDR	In Stock	
BDE - PEN ARM MOVEMENT ASSY, RECORDR	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 - PICK-UP, MAGNETIC 5430-929	In Stock	
BDE - PICK-UP, MAGNETIC 5430-929	In Stock	
BDE - PICK-UP, NON-CONTACT	In Stock	
BDE - PICK-UP, NON-CONTACT	In Stock	
BDE - PICK-UP, SPEED SENSING	In Stock	
BDE - PICK-UP, SPEED SENSING	In Stock	
BDE - piston D/S	In Stock	
BDE - piston U/S	In Stock	
BDE - PISTON, PIN ASSY PE#32054504	In Stock	
BDE - PISTON, PIN ASSY PE#32054538	In Stock	
BDE - PISTON/PIN ASSY, IR 30215222	In Stock	
BDE - PISTON/PIN ASSY, IR 30215222	In Stock	
BDE - PISTON/PIN ASSY, IR 30215438	In Stock	
BDE - PISTON/PIN ASSY, IR 30215438	In Stock	
BDE - PISTON/PIN ASSY, IR 30292460	In Stock	
BDE - PISTON/PIN ASSY, IR 30292460	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 - Quantum- Modicon - MODULE, ANALOG QUANTUM	In Stock	
BDE - Quantum- Modicon - MODULE, CPU MODICON	In Stock	
BDE - Quantum- Modicon - MODULE, DISCRETE IN	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - Quantum- Modicon - MODULE, DISCRETE OUT	In Stock	
BDE - Quantum- Modicon - MODULE, ETHERNET QUANTUM	In Stock	
BDE - Quantum- Modicon - MODULE, GPS QUANTUM	In Stock	
BDE - Quantum- Modicon - MODULE, HOT STANDBY	In Stock	
BDE - Quantum- Modicon - MODULE, INTERFACE PLC	In Stock	
BDE - Quantum- Modicon - MODULE, RACK FILLER	In Stock	
BDE - Quantum- Modicon - MODULE, RELAY OUT	In Stock	
BDE - Quantum- Modicon - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - Quantum- Modicon - POWER SUPPLY, 125 VDC	In Stock	
BDE - Quantum- Modicon - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - Quantum- Modicon - POWER SUPPLY, 24 VDC	In Stock	
BDE - Quantum- Modicon - REMOTE I/O HEAD, MODICON	In Stock	
BDE - POTENTIOMETER, 1250OH 0.24A	In Stock	
BDE - POTENTIOMETER, 1250OH 0.24A	In Stock	
BDE - POTENTIOMETER, 1250OH 0.24A	In Stock	
BDE - POTENTIOMETER, 1250OH 0.24A	In Stock	
BDE - POTENTIOMETER, 1K OH .244 A	In Stock	
BDE - POTENTIOMETER, 1K OH .244 A	In Stock	
BDE - POTENTIOMETER, 25W 50 OHMS	In Stock	
BDE - POTENTIOMETER, 25W 50 OHMS	In Stock	
BDE - POTENTIOMETER, SPEED	In Stock	
BDE - POTENTIOMETER, SPEED	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125-24 VDC	In Stock	
BDE - POWER SUPPLY, 125 VDC	In Stock	
BDE - POWER SUPPLY, 125 VDC	In Stock	
BDE - POWER SUPPLY, 125 VDC	In Stock	
BDE - POWER SUPPLY, 125 VDC	In Stock	
BDE - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - POWER SUPPLY, 125VDC 8A	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - POWER SUPPLY, 125VDC 8A	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 24 VDC	In Stock	
BDE - POWER SUPPLY, 300W	In Stock	
BDE - POWER SUPPLY, 300W	In Stock	
BDE - POWER SUPPLY, 48VDC 240W	In Stock	
BDE - POWER SUPPLY, 48VDC 240W	In Stock	
BDE - POWER SUPPLY, IRD PCB 29128	In Stock	
BDE - POWER SUPPLY, IRD PCB 29128	In Stock	
BDE - PROBE SYSTEM, CAPACITANCE	In Stock	
BDE - PROBE SYSTEM, CAPACITANCE	In Stock	
BDE - PROBE, CAPACITANCE	In Stock	
BDE - PROBE, CAPACITANCE	In Stock	
BDE - PROBE, CAPACITANCE	In Stock	
BDE - PROCESSOR, MICRO-CENTRAL	In Stock	
BDE - PROCESSOR, MICRO-CENTRAL	In Stock	
BDE - PROCESSOR, PLC	In Stock	
BDE - PROCESSOR, PLC	In Stock	
BDE - PROCESSOR, PROG C/W 1772-MJ	In Stock	
BDE - PROCESSOR, PROG C/W 1772-MJ	In Stock	
BDE - PROTRACTOR, ANSUL 423958	In Stock	
BDE - PUMP, OIL IMO A3DB-275	In Stock	
BDE - RECTIFYING TRANSFORMER - Full Unit	In Stock	
BDE - RECTIFYING TRANSFORMER - Insulating Fluid	In Stock	
BDE - REGULATOR KIT, SULL 250019-453	In Stock	
BDE - RELAY, ADJUSTABLE AC V SENSOR	In Stock	
BDE - RELAY, ADJUSTABLE AC V SENSOR	In Stock	
BDE - RELAY, GROUND VOLTAGE	In Stock	
BDE - RELAY, INSTANTANEOUS CURRENT	In Stock	
BDE - RELAY, INSTANTANEOUS CURRENT	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - RELAY, INSTANTANEOUS CURRENT	In Stock	
BDE - RELAY, LEVEL CONTROL #1001	In Stock	
BDE - RELAY, OVERCURRENT 1600A 3POLE	In Stock	
BDE - RELAY, UNDERVOLTAGE 125VAC	In Stock	
BDE - REMOTE I/O HEAD, MODICON	In Stock	
BDE - REMOTE I/O HEAD, MODICON	In Stock	
BDE - REMOTE I/O HEAD, MODICON	In Stock	
BDE - REMOTE I/O HEAD, MODICON	In Stock	
BDE - Ring SET, IR 32194144	In Stock	
BDE - Ring, PISTON SERVO MOTOR 18"OD	In Stock	
BDE - Ring, PISTON SERVO MOTOR 18"OD	In Stock	
BDE - Ring, PISTON SERVO MOTOR 18"OD	In Stock	
BDE - Ring, PISTON SERVO MOTOR 18"OD	In Stock	
BDE - ROTOR POLES - Pole	In Stock	
BDE - ROTOR SHAFT - Rotating Ring	In Stock	
BDE - RUNNER - UNIT 1 - BOLT, SHAFT TO RUNNER	In Stock	
BDE - Seal Movable	In Stock	
BDE - Seal Stationary	In Stock	
BDE - Seal Stationary	In Stock	
BDE - SENSOR, CABLE REEL LINEAR	In Stock	
BDE - SHAFT, SERVOMOTOR 4140	In Stock	
BDE - SHAFT, SERVOMOTOR 4140	In Stock	
BDE - SHAFT, SERVOMOTOR 4140	In Stock	
BDE - SHAFT, SERVOMOTOR 4140	In Stock	
BDE - SHAFT, SERVOMOTOR 4140	In Stock	
BDE - SPILLWAY #1-SALMON RIVE - Lift Gearboxes/Nuts	In Stock	
BDE - STATION SERVICE - BDE PH1 - ACB	In Stock	
BDE - STATION SERVICE - BDE PH1 - Trip Unit - Breker Control Device	In Stock	
BDE - Stationary 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 - STATOR WINDINGS - UNIT 1 - CONNECTOR, STATOR CU	In Stock	
BDE - STATOR WINDINGS - UNIT 1 to 4 - Coils	In Stock	
BDE - SURFACE AIR COOLERS - SAC Unit	In Stock	

Critical Spare Component	Stock Status	Comments
BDE - SURFACE AIR COOLERS - Tubes	In Stock	
BDE - THRUST BEARING SEGMENTS - Bearing Segments	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Oil	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Springs	In Stock	
BDE - THRUST/GUIDE BEARING ASSEMBLY - TRANSMITTER, DIFF	In Stock	
BDE - THRUST/GUIDE BEARING COOLERS - Cooler	In Stock	
BDE - TURBINE - Turbine Carbon Seal (Units 1 to 4)	In Stock	
BDE - TURBINE - Turbine Carbon Seal (Units 5 & 6)	In Stock	
BDE - TURBINE GUIDE BEARING - Bearing	In Stock	
BDE - TURBINE GUIDE BEARING - Oil Cooler	In Stock	
BDE - Unit 7 Control Board - BOARD, CONTROL	In Stock	
BDE - Unit 7 DRAFT TUBE-TURBINE - Water Level Probe	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 - CONTACT, ISOLATING	In Stock	
BDE - UNIT 7 EXCITER - INTEG CCT	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 COOLING WATER SYSTEM - TRANSMITTER, DIFF	In Stock	
BDE - Unit 7 Generator Field Breaker - ARC CHUTE, ABB UXAB289199215	In Stock	
BDE - Unit 7 Generator Field Breaker - BREAKER, ABB EZNE1600MS4-B1	In Stock	
BDE - Unit 7 Generator Field Breaker - Charging Motor	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 - CONTACT, ABB UXAB239Z60R0	In Stock	
BDE - Unit 7 Generator Field Breaker - Main Fixed Contacts	In Stock	
BDE - Unit 7 Generator Field Breaker - Main Moving Contacts	In Stock	
BDE - Unit 7 Generator Field Breaker - MOTOR, CHARGING	In Stock	
BDE - Unit 7 GENERATOR GUIDE BEARING - Segments	In Stock	
BDE - UNIT 7 GOVERNOR - FILTER, HYD 932633Q	In Stock	

Critical Spare Component	Stock Status	Comments
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, 12500H 0.24A	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	
BDE - UNIT 7 GOVERNOR - SOLENOID, 125 V DC	In Stock	
BDE - UNIT 7 GOVERNOR - SOLENOID, 125VDC 211E	In Stock	
BDE - UNIT 7 GOVERNOR - SPRING, PILOT VALVE LINK	In Stock	
BDE - UNIT 7 GOVERNOR - SPRING, SPEED SWITCH	In Stock	
BDE - UNIT 7 GOVERNOR - STATOR, BALL HEAD MOTOR	In Stock	
BDE - UNIT 7 GOVERNOR - STATOR, PERMANENT MAGNET	In Stock	
BDE - UNIT 7 GOVERNOR - SWITCH, PRESS OIL ALARM	In Stock	
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	In Stock	
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	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 HYDRAULIC GENERATOR - Coolers	In Stock	
BDE - Unit 7 NEUTRAL GROUND TRANSFORMER - Transformer	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 - LEVER, WICKET GATE	In Stock	
BDE - Unit 7 OPERATING Ring - Linkage	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	

Critical Spare Component	Stock Status	Comments
BDE - Unit 7 PMG - BALLARM, SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - BEARING, PMG P/N Z995205	In Stock	
BDE - Unit 7 PMG - BEARING, SPEED SIGNAL	In Stock	
BDE - Unit 7 PMG - BEARING, WW 111006	In Stock	
BDE - Unit 7 PMG - BEARING, WW 1800125	In Stock	
BDE - Unit 7 PMG - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	
BDE - Unit 7 PMG - BUSHING, URETHANE LOWER D	In Stock	
BDE - Unit 7 PMG - BUSHING, URETHANE UPPER D	In Stock	
BDE - Unit 7 PMG - PIN, BALLARM	In Stock	
BDE - Unit 7 PMG - PIN, DOWEL - SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - PIN, ROCKER ARM	In Stock	
BDE - Unit 7 PMG - PIN, TAPERED	In Stock	
BDE - Unit 7 PMG - PLATE, MOUNTING - MERCURY	In Stock	
BDE - Unit 7 PMG - Ring, ROTOR	In Stock	
BDE - Unit 7 PMG - SPRING, SPEED SWITCH	In Stock	
BDE - Unit 7 PMG - STATOR, P.M.G.	In Stock	
BDE - Unit 7 RECTIFYING TRANSFORMER	In Stock	
BDE - Unit 7 ROTOR - Pole	In Stock	
BDE - Unit 7 ROTOR ASSEMBLY - POLE	In Stock	
BDE - Unit 7 RUNNER - TURBINE - CARBON Seal	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 SERVOMOTOR # 1 - Piston Ring	In Stock	
BDE - Unit 7 SLIPRing/BRUSH RIGGING - Brushes	In Stock	
BDE - Unit 7 SLIPRing/BRUSH RIGGING - Collector Rings	In Stock	
BDE - Unit 7 STATOR WINDINGS - Stator Bars	In Stock	
BDE - Unit 7 STATOR WINDINGS - Wedges	In Stock	
BDE - Unit 7 SURFACE AIR COOLERS - Tubes	In Stock	
BDE - Unit 7 THRUST BEARING - Rotating Ring	In Stock	
BDE - Unit 7 THRUST BEARING - Thrust Pads	In Stock	
BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers	In Stock	
BDE - UNIT 7 TURBINE - Carbon Seal	In Stock	
BDE - UNIT 7 TURBINE - Turbine bearing	In Stock	
BDE - UNIT 7 TURBINE - Wicket Gate	In Stock	
BDE - Unit 7 TURBINE GUIDE BEARING - Bearing	In Stock	

Critical Spare Component	Stock Status	Comments
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 WICKET GATES - GATE, WICKET	In Stock	
BDE - VALVE, 1" THERMAL TRIP	In Stock	
BDE - VALVE, CONT.1/2 4-WAY SS	In Stock	
BDE - VALVE, CONT.1/2 4-WAY SS	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 1" SS	In Stock	
BDE - VALVE, CONTROL 2" SS	In Stock	
BDE - VALVE, CONTROL 2" SS	In Stock	
BDE - VALVE, CONTROL 2" SS	In Stock	
BDE - VALVE, CONTROL 2" SS	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 - WICKET GATES AND LINKAGES - Shear Pins	In Stock	
BDE - 7 Slip Ring	In Stock	
CAT - ACCUMULATOR TANK - Air Admission Valve	In Stock	
CAT - ACCUMULATOR TANK - COIL AUTO AIR CHARGING SOLND	In Stock	
CAT - ARC-CHUTE ABB #15DA045697R1	In Stock	
CAT - ARC-CHUTE STATION SERVICE, 3 PHASE, 600V	In Stock	
CAT - BEARING KIT, IR 32127516	In Stock	
CAT - BEARING, GUIDE	In Stock	
CAT - BEARING, BOWL - INTERMEDIATE	In Stock	
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 - BELT, V IR 95100558	In Stock	
CAT - BOARD, CONTROL	In Stock	
CAT - BOARD, DIGITAL I/O	In Stock	
CAT - BOARD, I/O ANALOG	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - BOARD, MEASURING ABB	In Stock	
CAT - BOARD, POWER SYSTEM STABI	In Stock	
CAT - BRAKING JET ASSEMBLY - Control Valve	In Stock	
CAT - BREAKER, EXCITER ABB	In Stock	
CAT - BREAKERS BY BROWN BOVERI, 600V - Spare Field Breaker in Used Spare Exciter	In Stock	
CAT - Cartridge, Oil Separator	In Stock	
CAT - COIL, CONTACTOR 130 V 84D418	In Stock	
CAT - COIL, SHUNT CLOSING	In Stock	
CAT - COIL, SHUNT OPENING	In Stock	
CAT - COLLAR, SAND	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 - CONTACT, I SOLATING	In Stock	
CAT - CONTROLLER, PLC DL05	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 - Deflector Proportional	In Stock	
CAT - Electronic Governor - Guide Ball Slide	In Stock	
CAT - Electronic Governor - HOLDER, CIRCUIT BREAKER	In Stock	
CAT - Electronic Governor - INTERFACE, ETHERNET VERSA	In Stock	
CAT - Electronic Governor - LVDT Deflector	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	
CAT - Electronic Governor - PC, Atlas 2	In Stock	
CAT - Electronic Governor - PC, ATLAS VX WORKS	In Stock	
CAT - Electronic Governor - Pos.Xducer	In Stock	
CAT - Electronic Governor - POS.Xducer	In Stock	
CAT - Electronic Governor - PROBE, SPEED ZVPU	In Stock	
CAT - Electronic Governor - RELAY, 14 PIN PLUG 24VDC	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - Electronic Governor - Rod Vdeflector	In Stock	
CAT - Electronic Governor - VERSAMAX Power Supply	In Stock	
CAT - Element, Air Filter	In Stock	
CAT - ELEMENT, AFTER FILTER	In Stock	
CAT - ELEMENT, AIR FILTER	In Stock	
CAT - ELEMENT, PRE FILTER	In Stock	
CAT - EXCITATION TRF	In Stock	
CAT - Exciter # 1 - BOARD POWER SYSTEM STABI,	In Stock	
CAT - Exciter # 1 - DIGITAL I/O BOARD,	In Stock	
CAT - Exciter # 1 - Arc Chute	In Stock	
CAT - Exciter # 1 - BOARD MEASURING	In Stock	
CAT - Exciter # 1 - Breaker	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 - Control Board	In Stock	
CAT - Exciter # 1 - I/O ANALOG BOARD CONTROL,	In Stock	
CAT - Exciter # 1 - MODULE, THYRISTOR BRIDGE	In Stock	
CAT - Exciter # 1 - MOTOR, CHARGING	In Stock	
CAT - Exciter # 1 - PANEL, CONTROL	In Stock	
CAT - Exciter # 1 - SUPPLY, 110-220 VOLT	In Stock	
CAT - EXCITER NO. 2 - Analog Input Transducer	In Stock	
CAT - EXCITER NO. 2 - CARD ABB 1WX 174-2,	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 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	

Critical Spare Component	Stock Status	Comments
CAT - EXCITER NO. 2 - CARD ABB UN0503A-P,	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 - CARD ABB UN1024C-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 BBC UN0077AP,	In Stock	
CAT - EXCITER NO. 2 - CARD, BBC UN2001F-P	In Stock	
CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P,	In Stock	
CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P,	In Stock	
CAT - EXCITER NO. 2 - COIL, 125 VOLT 60HZ	In Stock	
CAT - EXCITER NO. 2 - COIL, SHUNT CLOSING	In Stock	
CAT - EXCITER NO. 2 - CONTROL BOARD,	In Stock	
CAT - EXCITER NO. 2 - Field Voltage Transducer	In Stock	
CAT - EXCITER NO. 2 - Fuse 600Amp	In Stock	
CAT - EXCITER NO. 2 - Shunt Volltage Transducer	In Stock	
CAT - EXCITER NO. 2 - Thyristor	In Stock	
CAT - EXCITER NO. 2 - Transformer	In Stock	
CAT - EXCITER NO. 2 - Unitrol Card	In Stock	
CAT - Filter, Mat	In Stock	
CAT - Filter, Oil	In Stock	
CAT - FILTER, AIR INTAKE - 101T	In Stock	
CAT - FILTER, ELEMENT 10 MICRON	In Stock	
CAT - FLOAT - 2315	In Stock	
CAT - GASKET SET, IR 30423339	In Stock	
CAT - GENERATOR - Brake Ring	In Stock	Item #68001594
CAT - GENERATOR - Brake Solenoid	In Stock	Item #58608396
CAT - GENERATOR - Brake valve	In Stock	Item #65300060
CAT - GENERATOR - INSLTR, SLIP Ring	In Stock	Item #68001592
CAT - GENERATOR - MODULE, TYP 1CD 108 M 2-02 vibro-meter	In Stock	Item #68001591
CAT - GENERATOR - OVERCURRENT Relay	In Stock	Item #60101058
CAT - GENERATOR - RELAY, TIME DELAY .6 - 1.0	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - GENERATOR - Rotating Ring	In Stock	Item #58800486
CAT - Generator BearRing - Cooler	In Stock	Item #68001626
CAT - Governor - JOINT, UNIVERSAL SSG #1787058	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 PROPORTIONAL VLV	In Stock	
CAT - Governor Control System - CABLE, NEEDLE FDBK AMP,	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 24V	In Stock	
CAT - Governor Hydraulics - Cooler	In Stock	
CAT - Governor Hydraulics - Deflector Valve	In Stock	
CAT - Governor Hydraulics - DEFLECTOR, SERVOMOTOR	In Stock	
CAT - Governor Hydraulics - ELEMENT, FILTER SM 10	In Stock	
CAT - Governor Hydraulics - ELEMENT, FILTER SM 25	In Stock	
CAT - Governor Hydraulics - OIL, TURBINE 46 (205L)	In Stock	
CAT - Governor Hydraulics - Piston Seal 725X8 X3/8	In Stock	
CAT - Governor Hydraulics - Piston Seal 9X8X1/2	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 - Pressure Switch	In Stock	
CAT - Governor Hydraulics - Seal	In Stock	
CAT - Governor Pumps - INSERT, CURVED JAW SPIDER	In Stock	
CAT - Governor Pumps - Pump	In Stock	
CAT - Guide BearRing Segments - Bearing	In Stock	
CAT - Isolated Phase Bus - PT Fuse	In Stock	
CAT - MODULE, THYRISTOR BRIDGE	In Stock	
CAT - MODULE, THYRISTOR BRIDGE	In Stock	
CAT - MOTOR, CHARGING	In Stock	
CAT - NEEDLE VALVE ASS (6) - Amplifier/Proportional	In Stock	
CAT - NEEDLE VALVE ASS (6) - BUSHING NOZZLE 374527007/P001	In Stock	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT 20,	In Stock	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT,	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - NEEDLE VALVE ASS (6) - Casing Guide D/S	In Stock	
CAT - NEEDLE VALVE ASS (6) - Casing Guide U/S	In Stock	
CAT - NEEDLE VALVE ASS (6) - CHAIN, DBS FCS-A1-15	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	
CAT - NEEDLE VALVE ASS (6) - CONTROL DEVICE, NEEDLE	In Stock	
CAT - NEEDLE VALVE ASS (6) - Needle Seat	In Stock	
CAT - NEEDLE VALVE ASS (6) - Seal	In Stock	
CAT - NEEDLE VALVE ASS (6) - Seal Piston Ring	In Stock	
CAT - NEEDLE VALVE ASS (6) - Shuttle Valve	In Stock	
CAT - NEEDLE VALVE ASS (6) - Tip	In Stock	
CAT - Oil, Cooling Compressor	In Stock	
CAT - OIL, TURBINE 46 (205L)	In Stock	
CAT - OPERATOR, WORM GEAR 8"	In Stock	
CAT - O-Ring, NOZZLE M868 X 4	In Stock	
CAT - PANEL, CONTROL	In Stock	
CAT - PISTON/PIN ASSY, IR 30215222	In Stock	
CAT - PISTON/PIN ASSY, IR 30215438	In Stock	
CAT - PISTON/PIN ASSY, IR 30292460	In Stock	
CAT - POWER SUPPLY, 110-220 VOLT	In Stock	
CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door	In Stock	
CAT - RECTIFIER, BRIDGE 250JB6L-8338	In Stock	
CAT - RECTIFIER, BRIDGE 35MB60A-8419	In Stock	
CAT - RECTIFIER, BRIDGE 35MB60A-8421	In Stock	
CAT - RELAY, ASEA RXSF1, RK271 0	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 - Rotating Ring	In Stock	
CAT - Rotating Ring	In Stock	
CAT - Rotating Ring	In Stock	
CAT - ROTOR - GENERATOR - Pole	In Stock	
CAT - Rotor Poles - Entire Pole	In Stock	
CAT - Seal, OIL IR 32204562	In Stock	
CAT - Seal, SPHERICAL VALVE	In Stock	

Critical Spare Component	Stock Status	Comments
CAT - Seal, SPHERICAL VALVE	In Stock	
CAT - Seal, SPHERICAL VALVE	In Stock	
CAT - SlipRing/brush Rigging Assembly - Brush Holder	In Stock	
CAT - SlipRing/brush Rigging Assembly - Brushes	In Stock	
CAT - SlipRing/brush Rigging Assembly - Insulator	In Stock	
CAT - SlipRing/brush Rigging Assembly - Ring, Collector Assembly	In Stock	
CAT - STATION SERVICE SYSTEM - Arc Chute	In Stock	
CAT - STATION SERVICE SYSTEM - COIL, CLOSING 129 V DC	In Stock	
CAT - STATION SERVICE SYSTEM - Contact 1600Amp	In Stock	
CAT - STATION SERVICE SYSTEM - Contact Moving Arc	In Stock	
CAT - STATION SERVICE SYSTEM - Contact Stationary Arc	In Stock	
CAT - STATION SERVICE SYSTEM - CT 400-800	In Stock	
CAT - STATION SERVICE SYSTEM - CT 800-1600	In Stock	
CAT - STATION SERVICE SYSTEM - Main Drawout Contact	In Stock	
CAT - STATION SERVICE SYSTEM - Trip Coil	In Stock	
CAT - STATION SERVICE SYSTEM - Under voltage Coil	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 - Connector	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 - JUMPER, STATOR WINDING	In Stock	
CAT - Stator Assembly - Slider	In Stock	
CAT - Stator Assembly - Slider	In Stock	
CAT - Stator Assembly - Slider	In Stock	
CAT - Stator Assembly - Wedge	In Stock	
CAT - Stator Assembly - Wedge	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	

Critical Spare Component	Stock Status	Comments
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 - SURFACE AIR COOLERS - Surface Air Cooler	In Stock	
CAT - SWITCH, DIFFERENTIAL PRES	In Stock	
CAT - TEXT DISPLAY, AIR DRYER	In Stock	
CAT - THRUST BEARING - Thrust Pads	In Stock	
CAT - Thrust BeRing Segments - Segments	In Stock	
CAT - Thrust Pads	In Stock	
CAT - THYRISTOR, ABB CS411-20	In Stock	
CAT - Turbine - Runner	In Stock	
CAT - Turbine Guide BeRing - Bearing	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- minimal pressure Valve	In Stock	
Cat- Turbine BeRing Cooler	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	
GCL - Bar, Stator Bottom	In Stock	
GCL - Bar, Stator Top	In Stock	
GCL - Base, Smoke Detector	In Stock	
GCL - BeaRing, Guide GE	In Stock	
GCL - BeaRing, Pivoted Guide	In Stock	
GCL - BeaRing, Pivoted Guide GE	In Stock	
GCL - BeaRing, Thrust	In Stock	
GCL - BeaRing, Thrust	In Stock	
GCL - Bell, Fire Alarm 10"	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - BELT SET, V (4 PC)	In Stock	
GCL - Breaker, Volt Autom	In Stock	
GCL - Breaker, Volt Automatic	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Brush, Carb Metric	In Stock	
GCL - Bushing, Bottom Shaft	In Stock	
GCL - Bushing, HV ABB TO25W0412AT	In Stock	
GCL - Bushing, Packing Gland	In Stock	
GCL - Card MeasuRing SDCS-Pin51	In Stock	
GCL - Card, Analog I/O	In Stock	
GCL - Card, Digital I/O ABB	In Stock	
GCL - Card, EXT I/O ABB	In Stock	
GCL - Contactor, AE LINE 125VDC	In Stock	
GCL - Control Board, SDCS-CON-2	In Stock	
GCL - Detector, Heat 135F	In Stock	
GCL - Detector, Heat 281B-PL	In Stock	
GCL - Detector, Smoke EC30DU-3	In Stock	
GCL - Device, Surge Suppression	In Stock	
GCL - ETH Card	In Stock	
GCL - Fan, Cooling 27" ABB	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - FILTER, AIR CARTRIDGE	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, ELEMENT	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, INLINE	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - FILTER, MAT	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - FILTER, OIL KAESER	In Stock	
GCL - Fuse, 1250A 690V 170M6166	In Stock	
GCL - Gas, Inergen (350F3)	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Gas, inergen (425F3)	In Stock	
GCL - Generator - Bottom Stator Bars (18)	In Stock	
GCL - Generator - Converter, RTD Temperature	In Stock	
GCL - Generator - Converter, RTD Universal	In Stock	
GCL - Generator - Creep Detector ASSY, 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 - Guide BearRing, GE	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 - Jumper, Pole ASM #1	In Stock	
GCL - Generator - Level, Indicator Magnetic	In Stock	
GCL - Generator - Oil, Turbine 46 (205L)	In Stock	
GCL - Generator - Packing, V-Type GE	In Stock	
GCL - Generator - Pin, Taper 25MM x 90MM	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 - Generator - Top Stator Bars (36)	In Stock	
GCL - Governor Control System - POWER SUPPLY, 18-32VDC	In Stock	
GCL - Governor Control System - Pressure Switch	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, Check 1 6000 psi	In Stock	
GCL - Governor Hydraulic System - Valve, Proportional	In Stock	
GCL - Governor Hydraulic System - Valve, Relief	In Stock	
GCL - Holder, Brush Metric	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Inflatable Seal	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 - Locating Plate, Pivoted	In Stock	
GCL - LVDT	In Stock	
GCL - MeasuRing Board ABB	In Stock	
GCL - MILD	In Stock	
GCL - Module, Control Relay	In Stock	
GCL - Module, Serial processor	In Stock	
GCL - Nut, Hex M30X3.5-6H	In Stock	
GCL - Oil, Turbine 46 (205L)	In Stock	
GCL - Operating Ring - BUSHING, GE 226043126X015	In Stock	
GCL - Operating Ring - Washer, Ring Seal	In Stock	
GCL - Panel, Service UNS 0874A-P	In Stock	
GCL - PIN, TAPER 25MM X 90MM	In Stock	
GCL - Pole, Wound GE	In Stock	
GCL - Power Supply, SDCS-POWL	In Stock	
GCL - Power Supply, UNS0868A-P	In Stock	
GCL - Probe, 741 GE	In Stock	
GCL - Pump, Vane Vick	In Stock	
GCL - Relay, Low Voltage	In Stock	
GCL - Relay, Overload	In Stock	
GCL - Relay, Overload 0.32-1.0A	In Stock	
GCL - Relay, Overload 1.6-5.0A	In Stock	
GCL - Relay, Overload 3.7-12A	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	

Critical Spare Component	Stock Status	Comments
GCL - RELAY, 8 PIN 120V AC/DC	In Stock	
GCL - RELAY, 8 PIN DPDT	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	
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	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 24-230V AC/DC	In Stock	
GCL - RELAY, TIME TYPE SGDM-1	In Stock	
GCL - RELAY, TRIP CIRCUIT	In Stock	
GCL - RELAY, VOLTAGE UNBALANCE	In Stock	
GCL - Ring Assembly, Collector	In Stock	
GCL - Ring Assy, Collector	In Stock	
GCL - Ring, Rotating GE	In Stock	
GCL - Ring, Sealing C/W SpRing	In Stock	
GCL - RTD, 12.5" -50-550 Deg	In Stock	
GCL - RTD, 12.5" -50-550 Deg	In Stock	
GCL - RTD, 17" -50-550 Deg C	In Stock	
GCL - RTD, 17" -50-550 Deg C	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Runner - Seal, 770mm x 730mm x 25mm	In Stock	
GCL - SCREW, CAP M30X3.5-6GX130MM	In Stock	
GCL - Seal, Top Guide BearRing	In Stock	
GCL - Servomotor - Rod, Seal H092-730	In Stock	
GCL - Servomotor - Rod, Seal H254-918	In Stock	
GCL - Servomotor Assembly - Ring, Piston GE	In Stock	
GCL - Shim, GE 007	In Stock	
GCL - Shim, GE 008	In Stock	
GCL - Shoe, Brake GE 6201B6815L005	In Stock	
GCL - Sleeve, Shaft	In Stock	
GCL - SOCKET, RELAY 14 PIN 5A	In Stock	
GCL - SOCKET, RELAY 8 PIN 7A	In Stock	
GCL - Speed Signal Generator - Pickup, Zero Velocity	In Stock	
GCL - SpRing Assy, Thrust	In Stock	
GCL - SpRing, GE	In Stock	
GCL - SpRing, GE	In Stock	
GCL - Stick, Joint Horz	In Stock	
GCL - Stick, Joint Vert	In Stock	
GCL - Surface Air Coolers - Cooler, Surface Air	In Stock	
GCL - Switch, 20-160 ABB 104-324-46	In Stock	
GCL - Switch, Press 200 PSI 15A	In Stock	
GCL - Switch, Press Actuated	In Stock	
GCL - Switch, Press Gran 20W	In Stock	
GCL - Synchronizer	In Stock	
GCL - Thermometer, ADJ 0-55	In Stock	
GCL - THRICTOR, 5STP18F1800 V11	In Stock	
GCL - Thrust/Guide BearRing Coolers - Coil, Cooling GE	In Stock	
GCL - Transducer, Balluff Track	In Stock	
GCL - TRANSMITTER, FRAZIL ICE	In Stock	
GCL - Transmitter, PFM	In Stock	
GCL - Transmitter, Temp 4-20 MA	In Stock	
GCL - TRANSMITTER, WATER LEVEL	In Stock	
GCL - Turbine Assembly - Packing Ring, Segment	In Stock	
GCL - Turbine Assembly - Pad, Stop GE	In Stock	
GCL - Turbine Assembly - Ring, Rotating GE	In Stock	
GCL - Turbine Assembly - Ring, Sealing C/W Spring	In Stock	

Critical Spare Component	Stock Status	Comments
GCL - Turbine Assembly - Ring, Wear	In Stock	
GCL - Turbine Assembly - Seal, Inflatable	In Stock	
GCL - Turbine Assembly - Transmitter, Diff Pressure	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure -5TO55	In Stock	
GCL - Turbine Assembly - Transmitter, Pressure GE	In Stock	
GCL - Turbine Assembly - Valve, Check Wafer 12"D	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - VALVE, CHECK PRESSURE	In Stock	
GCL - Valve, Purge GE	In Stock	
GCL - VALVE, INLET MAIN KIT	In Stock	
GCL - VALVE, INLET MAIN KIT	In Stock	
GCL - VALVE, INLET MAIN KIT	In Stock	
GCL - VALVE, PURGE GE	In Stock	
GCL - Washer, Brake Plate	In Stock	
GCL - Washer, GE 105000100	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 - XFMR, CT 15 kV	In Stock	
HLK - Accumulator tank Solinoid Valve	In Stock	
HLK - ADAPTER, REMOTE I/O	In Stock	
HLK - Ampmeter	In Stock	
HLK - AUTO AIR CHARGING SOLND.	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - BACKPLANE, 10 SLOT MODICON	In Stock	
HLK - BEARING KIT,	In Stock	
HLK - BOARD, FIRing ES	In Stock	
HLK - BREAKER, 100 AMP 600 VOLT	In Stock	
HLK - BREAKER, 150A 600V	In Stock	
HLK - BREAKER, 225A 600V 3P	In Stock	
HLK - BREAKER, 600 VOLT 3 PHASE	In Stock	
HLK - BRIDGE, THYRISTOR EG	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 - CIRCUIT BREAKER - Anti-Pump Relay	In Stock	
HLK - CIRCUIT BREAKER - Charging Motor	In Stock	
HLK - CIRCUIT BREAKER - Motor Brush Kit	In Stock	
HLK - CIRCUIT BREAKER - Primary Disconnect	In Stock	
HLK - CIRCUIT BREAKER - Shunt Trip Coil	In Stock	
HLK - CIRCUIT BREAKER - Spring Release Coil	In Stock	
HLK - COIL, AUTO AIR CHARGING SOLND.	In Stock	
HLK - CONTACT, AUX GE	In Stock	
HLK - CONTACTOR, FURNAS	In Stock	
HLK - Creep Detector	In Stock	
HLK - EXCITATION - Bridge (entire module)	In Stock	
HLK - EXCITER FIELD BREAKER - Entire Unit	In Stock	
HLK - GASKET KIT, COMPAIR 45244	In Stock	
HLK - GASKET KIT, COMPAIR 79452	In Stock	
HLK - GENERATOR - Brake Shoes	In Stock	
HLK - GENERATOR - Generator Air Valve	In Stock	
HLK - GENERATOR - SOLENOID, GENERATOR AIR VALVE,	In Stock	
HLK - GENERATOR CIRCUIT BREAKER	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - Air Admission Solenoid	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - Solenoid Valve	In Stock	
HLK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLND. ,	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 65SD ,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - Filter	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT, ROD,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON,	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634, motor	In Stock	
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640, MOTOR	In Stock	
HLK - GOVERNOR SPEED GENERATOR - Gear Drive	In Stock	
HLK - GOVERNOR SPEED GENERATOR - GEAR, WOODWARD 1447-640	In Stock	
HLK - GOVERNOR SPEED GENERATOR - Speed Switch Bracket	In Stock	
HLK - GUIDE BEARING SEGMENTS (SET) - BEARING, SEGMENT	In Stock	
HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER, PRESS 0-375	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 MM,	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - UPPER,	In Stock	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - LOWER,	In Stock	
HLK - HEADCOVER ASSEMBLY - Bushing Upper	In Stock	
HLK - HEADCOVER ASSEMBLY - Seal TURBINE,	In Stock	
HLK - HEADCOVER ASSEMBLY - SEALWICKET GATE,	In Stock	
HLK - IMPELLER, DEWATERING PUMP	In Stock	
HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER, TEMPERATURE	In Stock	
HLK - INSERT, COMPAIR 38275	In Stock	
HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure druk	In Stock	
HLK - ISOLATED PHASE BUS - PT fuse	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 - METER, FLOW BARTON	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	

Critical Spare Component	Stock Status	Comments
HLK - MODULE, INTERFACE PLC	In Stock	
HLK - MODULE, RACK FILLER	In Stock	
HLK - MODULE, RELAY OUT	In Stock	
HLK - OPERATING Ring - BearRing pads	In Stock	
HLK - PANEL, CONTROL SCP/CCP	In Stock	
HLK - PANEL, VOLTAGE ADJUSTER	In Stock	
HLK - PLATE, TERMINAL 3 POLE	In Stock	
HLK - PLATE, TERMINAL 6 POLE	In Stock	
HLK - PMG Speed Switch Bracket	In Stock	
HLK - POWER DISTRIBUTOR, ASSY	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 - POWER SUPPLY, CP-C-24/10.	In Stock	
HLK - RECTIFYING TRANSFORMER	In Stock	
HLK - RELAY, CONTROL 120V 60HZ	In Stock	
HLK - RELAY, CONTROL 48V	In Stock	
HLK - RELAY, CONTROL AB 500F-A0D92	In Stock	
HLK - REMOTE I/O HEAD, MODICON	In Stock	
HLK - Ring SET ASSY, COMPAIR 48	In Stock	
HLK - Ring SET, COMPAIR 45237	In Stock	
HLK - Ring SET, WORTH P04643-10	In Stock	
HLK - Ring/GASKET KIT, IR 32133944	In Stock	
HLK - Rotor - Pole	In Stock	
HLK - Rotor Assembly - HLK Generator - Rotor Pole	In Stock	
HLK - Seal, COMPAIR 13254	In Stock	
HLK - SEAT/Seal KIT, VALVE 1-1/	In Stock	
HLK - SERVOMOTOR #1 - servomotor repair kit	In Stock	
HLK - SERVOMOTOR ASSEMBLY - shear pins	In Stock	
HLK - Slip Ring	In Stock	
HLK - SlipRing /Brush Rigging - Brush holder	In Stock	
HLK - SlipRing /Brush Rigging - Carbon brush	In Stock	
HLK - SOLENOID, GENERATOR AIR VALVE	In Stock	
HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON)	In Stock	
HLK - STATOR ASSEMBLY - Stator bars	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - STATOR ASSEMBLY - Stator connection caps	In Stock	
HLK - STATOR WINDINGS - UNIT 1 - robel bars	In Stock	
HLK - SURFACE AIR COOLERS	In Stock	
HLK - SWITCH, LIMIT AB 802T-ATP	In Stock	
HLK - SWITCH, LIMIT AB 802T-DTP	In Stock	
HLK - SWITCH, MERCROID TYPE C-4	In Stock	
HLK - SWITCH, PRESS OIL ALARM	In Stock	
HLK - THRUST BEARING SEGMENTS (SET) - Thrust BearRing Segments	In Stock	
HLK - THRUST PIN ASSY, IR 32218406	In Stock	
HLK - Thrust/Guide Bearing Coolers	In Stock	
HLK - Thrust/Guide Bearing Coolers - Hi Pressure Lift Pump	In Stock	
HLK - TURBINE - BEARING SEGMENT TURBINE,	In Stock	
HLK - TURBINE - Carbon Seal,	In Stock	
HLK - TURBINE - Dowel	In Stock	
HLK - TURBINE - Eccentric Pin	In Stock	
HLK - TURBINE - Friction Hub	In Stock	
HLK - TURBINE - Friction Hub	In Stock	
HLK - TURBINE - Link In	In Stock	
HLK - TURBINE - Link Thick	In Stock	
HLK - TURBINE - Link Thin	In Stock	
HLK - TURBINE - Packing Box	In Stock	
HLK - TURBINE - PLATE BEARING,	In Stock	
HLK - TURBINE - Seal TURBINE,	In Stock	
HLK - TURBINE - Wicket Gate Lever	In Stock	
HLK - TURBINE - wicket Gate Seal	In Stock	
HLK - TURBINE GUIDE BEARING - BEARING, Segment TURBINE	In Stock	
HLK - UPPER GUIDE BEARING COOLER	In Stock	
HLK - UPPER GUIDE BEARING SEGMENTS - Upper Guide Bearing Segments	In Stock	
HLK - VALVE & SPRING SET, 45245	In Stock	
HLK - VALVE ASSEMBLY 55 GA	In Stock	
HLK - VALVE ASSY, COMPAIR 47935	In Stock	
HLK - VALVE ASSY, COMPAIR 47936	In Stock	
HLK - VALVE ASSY, COMPAIR 48141	In Stock	
HLK - VALVE ASSY, COMPAIR 50681	In Stock	
HLK - VALVE, SOL 4-WAY SKINNER	In Stock	
HLK - VALVE/GASKET KIT, IR 32133936	In Stock	

Critical Spare Component	Stock Status	Comments
HLK - VOLTAGE ADJUSTER	In Stock	
HLK - WICKET GATES - wicket gate	In Stock	
HLK - XFMR, PT 600 VOLT 3 PHASE	In Stock	
HLK- Turbine BearRing Cooler	In Stock	
PRV - BearRing, Lower Guide	In Stock	
PRV - BearRing, Upper Guide	In Stock	
PRV - BearRing, Upper Thrust	In Stock	
PRV - BLOCK POWERTRAC, 115VAC/1	In Stock	
PRV - COIL, GE 22-115-045-01	In Stock	
PRV - CONTACTOR, FIELD FLASHING	In Stock	
PRV - DIODE, GE 4001A1158JA	In Stock	
PRV - DIODE, GE 4001A1158JB	In Stock	
PRV - DIODE, GE 6RT44UV698-8841	In Stock	
PRV - MAGNETROL, D-B10-1GBA-ABM	In Stock	
PRV - METER, FLOW OMEGA FL-6318B	In Stock	
PRV - METER, FLOW WATER 1000#	In Stock	
PRV - MOTOR, GOVERNOR PUMP	In Stock	
PRV - Pad, Guide BearRing	In Stock	
PRV - PLC CPU Module	In Stock	
PRV - PLC Ethernet Module	In Stock	
PRV - PLC Power Supply	In Stock	
PRV - PUMP, PH PVP1630-R212	In Stock	
PRV - TACHOMETER, TAK PAK 3	In Stock	
USL - BEARing, BOWL - Drainage	In Stock	
USL - BEARing, BOWL - Unwatering	In Stock	
USL - BEARing, BIG END COMP #E02128	In Stock	
USL - BEARing, BIG END COMP #E02128	In Stock	
USL - BEARing, COMPAIR E05519	In Stock	
USL - BEARing, COMPAIR E05519	In Stock	
USL - BEARing, MAIN D/E	In Stock	
USL - BEARing, MAIN D/E	In Stock	
USL - BEARing, MAIN O/E	In Stock	
USL - BEARing, MAIN O/E	In Stock	
USL - BEARing, PACKING CONTAINER	In Stock	
USL - BELT, DRIVE COMPAIR 3VX850	In Stock	
USL - BELT, DRIVE COMPAIR 3VX850	In Stock	

Critical Spare Component	Stock Status	Comments
USL - BELT, V 3V950	In Stock	
USL - BELT, V 3V950	In Stock	
USL - BRIDGE, THYRISTOR EG	In Stock	
USL - BUSHING, IMPELLER TAPERLOCK	In Stock	
USL - BUSHING, IMPELLER TAPERLOCK	In Stock	
USL - BUSHING, SIDE ROLLER	In Stock	
USL - BUSHING, SMALL END COM#LE02130	In Stock	
USL - BUSHING, SMALL END COM#LE02130	In Stock	
USL - BUSHING, WHEEL	In Stock	
USL - COIL, SULL 250018-971	In Stock	
USL - CROWBAR, ES	In Stock	
USL - FILTER, COOLANT (ELEMENT ONLY)	In Stock	
USL - GASKET KIT, IR X1453T47	In Stock	
USL - GASKET, COMPAIR E05516	In Stock	
USL - GASKET, COMPAIR E05516	In Stock	
USL - GASKET, COMPAIR J201671	In Stock	
USL - GASKET, COMPAIR J201671	In Stock	
USL - GASKET, FLEXMASTER 250007-559	In Stock	
USL - GASKET, SULL 040517	In Stock	
USL - Governor Pump	In Stock	
USL - HEATER, GAIN 3.2 KW 575 V	In Stock	
USL - HEATER, GATE (DUCT BLOWE	In Stock	
USL - HEATER, SHEAVE BLOCK 1366 W	In Stock	
USL - JOINT KIT, COMPAIR 98504/1172	In Stock	
USL - JOINT KIT, COMPAIR 98504/1172	In Stock	
USL - JOINT, COMPAIR C202284	In Stock	
USL - JOINT, COMPAIR C202284	In Stock	
USL - JOINT, COMPAIR C202285	In Stock	
USL - JOINT, COMPAIR C202285	In Stock	
USL - JOINT, COMPAIR C202285-100	In Stock	
USL - JOINT, COMPAIR C202285-100	In Stock	
USL - JOINT, COMPAIR C202286	In Stock	
USL - JOINT, COMPAIR C202286	In Stock	
USL - JOINT, COMPAIR C202287	In Stock	
USL - JOINT, COMPAIR C202287	In Stock	
USL - POWER DISTRIBUTOR, ASSY	In Stock	

Critical Spare Component	Stock Status	Comments
USL - REGULATOR KIT, SULL 250019-453	In Stock	
USL - Ring KIT, COMPAIR 98477/1131	In Stock	
USL - Ring KIT, COMPAIR 98477/1131	In Stock	
USL - Ring, PISTON 1ST STAGE	In Stock	
USL - Ring, PISTON 1ST STAGE	In Stock	
USL - Seal, FLAT 22' LENGTH	In Stock	
USL - Seal, J 22' LENGTH	In Stock	
USL - Seal, J C/W 2 CORNERS	In Stock	
USL - Seal, J C/W 4 CORNERS	In Stock	
USL - SWITCH, OIL LEVEL	In Stock	
USL - SWITCH, OIL LEVEL	In Stock	
USL - TRANSMITTER, PRESS 0-2.5MH20	In Stock	
USL - VALVE, REED 1ST STAGE	In Stock	
USL - VALVE, REED 1ST STAGE	In Stock	
USL - VALVE, REED 2ND STAGE	In Stock	
USL - VALVE, REED 2ND STAGE	In Stock	
USL - VARISTOR, EXCITER	In Stock	
USL- Governor Pump	In Stock	
USL- Rotor Rim Drive Keys	In Stock	
HLK - STN SERVICE TRANSFORMER (SST-1)	Not in Stock	Capital Spares on Order - Delivery by October 31, 2019