

December 10, 2021

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: Reliability and Resource Adequacy Study Review – 2021–2022 Winter Readiness Planning Report – Final Report

Further to correspondence received from the Board of Commissioners of Public Utilities (“Board”) on October 13, 2016 and March 5, 2020 requesting additional detail, please find enclosed Newfoundland and Labrador Hydro’s 2021–2022 Winter Readiness Planning Report – Final Report.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO



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

Encl.

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2021–2022 Winter Readiness Planning Report

December 10, 2021

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	COVID-19.....	3
2.2	Thermal Generation.....	4
2.3	Gas Turbine Generation.....	7
2.4	Hydraulic Generation.....	10
2.5	Transmission and Terminal Stations	13
2.6	Network Services	17
3.0	Status of Winter Readiness for Capital Projects	17
4.0	Plant and Equipment Testing.....	18
4.1	Thermal Generation.....	19
4.2	Gas Turbine Generation.....	19
4.3	Hydraulic Generation	20
4.4	Transmission and Terminal Stations	20
4.4.1	Transmission	20
4.4.2	Terminal Stations	21
4.4.3	Transmission and Terminal Station Testing	21
4.5	Network Services	22
5.0	Generation Outage Schedule.....	22
6.0	Critical Spares.....	22
6.1	Overview	22
6.2	2021–2022 Winter Season.....	23
6.2.1	Thermal Generation.....	23
6.2.2	Gas Turbines.....	24
6.2.3	Hydraulic Generation	25
7.0	Near-Term Reliability and Resource Adequacy	25
7.1	Assumptions.....	26
7.1.1	Asset Performance.....	26
7.1.2	Labrador-Island Link Assumptions	27
7.1.3	Availability of Capacity Assistance Agreements	28

7.2	System Energy Capability	28
7.3	Load Forecast	30
7.4	Scenarios Considered and Results	31
7.4.1	Scenarios	31
7.4.2	Expected Unserved Energy and Loss of Load Hours Analysis	33
8.0	Risk and Risk Mitigation	36
8.1	Bay d’Espoir Operations.....	37
8.1.1	Bay d’Espoir Unit 5 Return to Service	37
8.1.2	Upper Salmon Corrective Maintenance.....	37
8.1.3	Bay d’Espoir Penstocks.....	38
8.1.4	Bay d’Espoir Terminal Station Circuit Breaker Failures.....	39
8.2	Holyrood Thermal Generating Station Operations.....	40
8.2.1	Unit 3 Return to Service	40
8.2.2	Variable Frequency Drives	40
8.2.3	Unit 1 Cold Reheat Piping Incident	41
8.2.4	Holyrood T2 Transformer Replacement	41
8.2.5	Tank 1 Retirement.....	42
8.3	Muskrat Falls to Happy Valley Interconnection Project	43
9.0	Conclusion.....	44

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, 2016,¹ directed Newfoundland and Labrador Hydro (“Hydro”) to provide an annual report detailing its winter readiness (“WR”) planning. This report, for the 2021–2022 winter season, addresses the following items as requested by the Board:

- The status of annual work plan^[2] items, in the format previously provided to the Board, for Hydro’s generating plant and transmission and terminal stations, including the completion to date, outstanding items to complete and any risks to completion or as a result of failure to complete.
- A description and schedule for all outstanding [2021] capital projects for Hydro’s generating plant and transmission and terminal stations, including progress on completion status to date and expected completion date.
- 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.
- The planned generation outage schedule for the period September 1 to December 31, [2021], including an explanation for any planned outages extending beyond December 1, [2021].
- An update of critical spares assessment and procurement.
- The forecast loads and expected generation capacity and reserves (setting out the basis for calculation) for the upcoming winter, as of December 1, [2021], and including capacity assistance agreements in place or planned.
- Identification of any risks that could impact the winter readiness of assets as of December 1, [2021] and associated contingency plans.³

Except where otherwise noted, information presented in this report covers both the Island Interconnected System and the Labrador Interconnected System as of December 1, 2021.⁴

¹ “Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnected System – Directions further to the Board’s Phase One Report,” Board of Commissioners of Public Utilities, October 13, 2016, at p. 2, item iii).

² Annual Work Plan (“AWP”).

³ “Request to Hydro to file Winter Readiness Planning 2016-2017,” Board of Commissioners of Public Utilities, September 13, 2016.

⁴ The data used to generate the status charts in Section 2.0 reflect a data cutoff date of November 30, 2021.

2.0 Annual Work Plan and Winter Readiness Status

Hydro’s AWP integrates all planned activities for the year (i.e., corrective maintenance (“CM”), preventive maintenance (“PM”), and capital project support) that are critical to safe and reliable production and transmission of electricity. Hydro regularly measures the progress of its AWP execution, in comparison with the plan, and is able to track the AWP status down to the level of individual work plan items. The individual AWP items for various assets are incorporated into an integrated AWP. While some AWP activities are planned for completion through December 2021, those tagged as WR activities are planned for completion by December 1, 2021.

This report provides a consolidated summary of operation and maintenance progress, both for the entire AWP (i.e., first chart in each set) and the WR tasks (i.e., second chart in each set), as of December 1, 2021, for each of the following areas of operations:

- Holyrood Thermal Generating Station (“Holyrood TGS”):
 - Units 1, 2, and 3; and
 - Balance of Plant, including black start diesels;
- Gas Turbines (“GT”):
 - Holyrood;
 - Hardwoods;
 - Stephenville; and
 - Happy Valley;
- Hydraulic Generation:
 - Bay d’Espoir Hydroelectric Generating Facility (“Bay d’Espoir”);
 - Cat Arm Hydroelectric Generating Station (“Cat Arm”);
 - Hinds Lake Hydroelectric Generating Station (“Hinds Lake”);
 - Paradise River Hydroelectric Generating Station (“Paradise River”);
 - Upper Salmon Hydroelectric Generating Station (“Upper Salmon”); and
 - Granite Canal Hydroelectric Generating Station (“Granite Canal”);

- 1 • Transmission and Rural Operations for the Island Interconnected System and Labrador
- 2 Interconnected System:
- 3 • Transmission; and
- 4 • Terminal stations;
- 5 • Network Services.

6 Each chart in Section 2.0 includes the completed and remaining operations and maintenance AWP and
7 WR tasks, as well as an indication of the planned task completion target to date. A text box adjacent to
8 each chart set indicates Hydro’s forecasted completion status as of December 1, 2021 in relation to AWP
9 and WR activities (i.e., Green: On Target, Yellow: Caution – Recovery Required, Red: Target Will Not be
10 Fully Met). Relevant highlights are also provided.

11 Please refer to Section 3.0 and Appendix A for the status of capital projects that include additional WR
12 tasks.

13 Hydro’s WR plan reflects the status of Hydro’s assets and does not include the Muskrat Falls Project
14 assets. Hydro’s WR preparations have focused on completing the necessary operations and
15 maintenance work to ensure system readiness and availability without any additional capacity from the
16 Muskrat Falls Project assets. Hydro anticipates that power transfer over the Labrador-Island Link (“LIL”)
17 will occur through the winter season. At this time, the LIL has been successfully tested to 312 MW.
18 Hydro is closely monitoring the status of the Muskrat Falls Project commissioning and the associated
19 schedule.

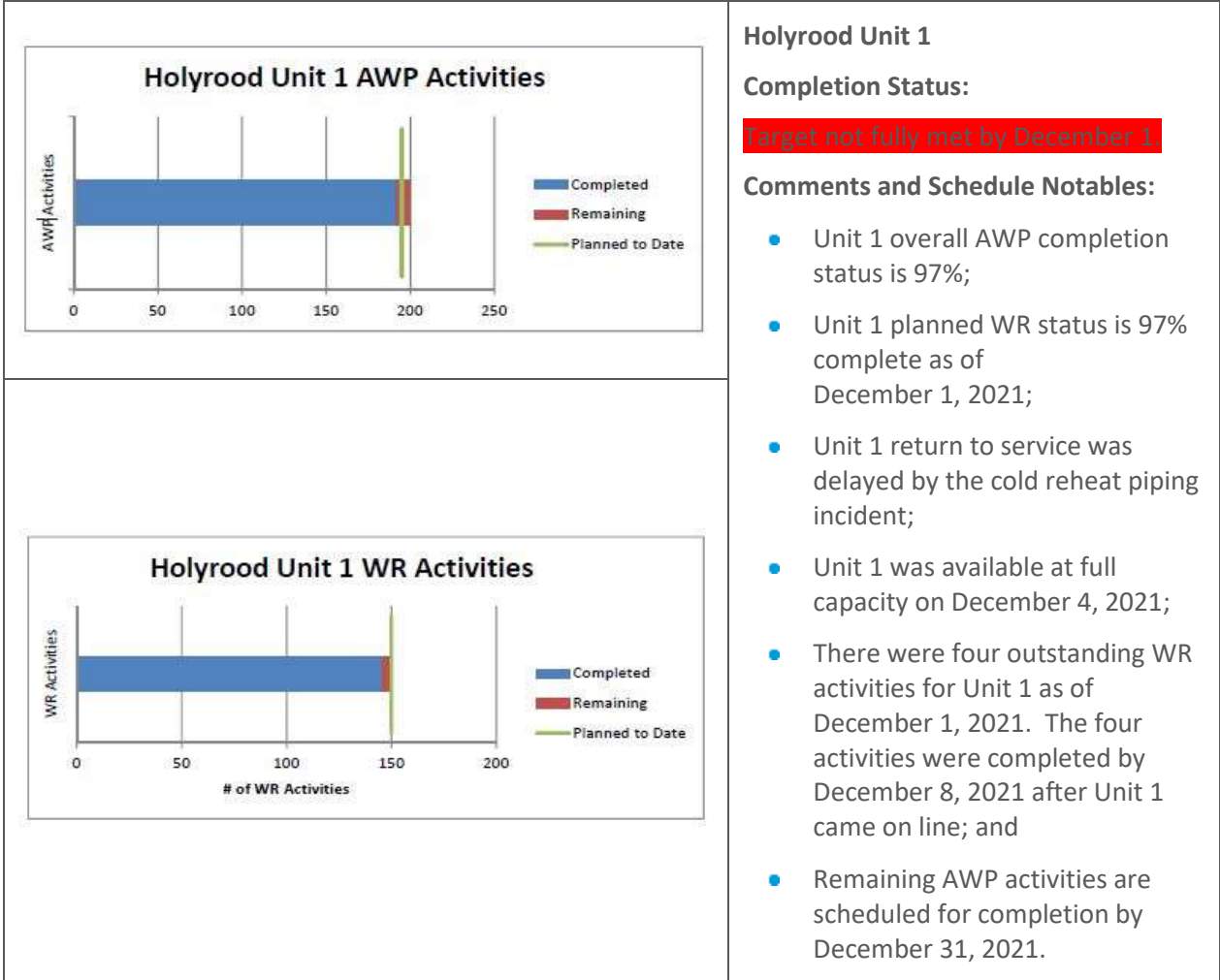
20 **2.1 COVID-19**

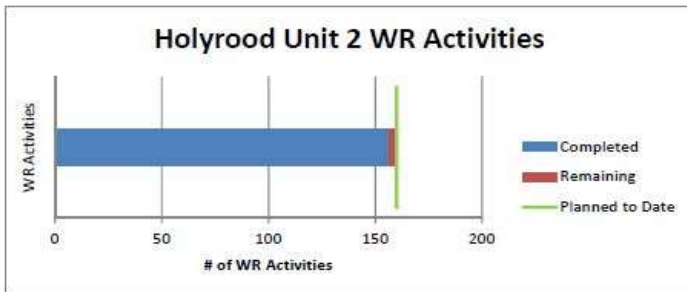
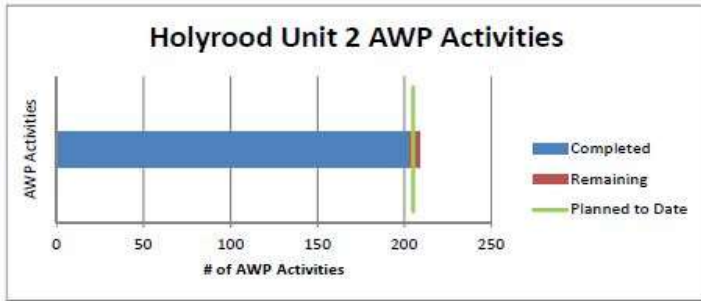
21 The 2021 AWP was established with consideration to the ongoing COVID-19 pandemic and lessons
22 learned from 2020. Business Continuity Plans remain in place to ensure that work activities continue
23 safely. Hydro continues to monitor the COVID-19 pandemic situation and there are presently no
24 significant impacts to work execution.

25 Hydro has continued to complete critical work in a planned and measured way in adherence with Public
26 Health orders and advice to ensure the safety of its staff and contractors and to minimize disruption to
27 work progress.

1 **2.2 Thermal Generation**

2 The status of AWP and WR execution at the Holyrood TGS is summarized in the following charts. Nine
 3 WR activities were incomplete as of December 1, 2021. Six of the outstanding activities have since been
 4 completed. The remaining three WR activities are related to Unit 2 and will be completed after Unit 2 is
 5 returned to service. Unit 2 has been out of service since transformer T2 failed on November 12, 2021
 6 and the replacement effort for T2 is ongoing. Please refer to Section 8.0 for more information on
 7 Holyrood TGS’s operational risks and mitigation.





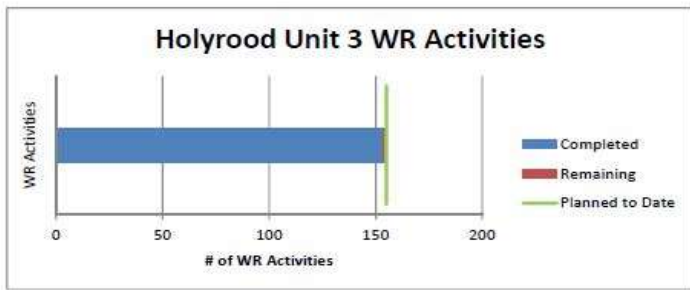
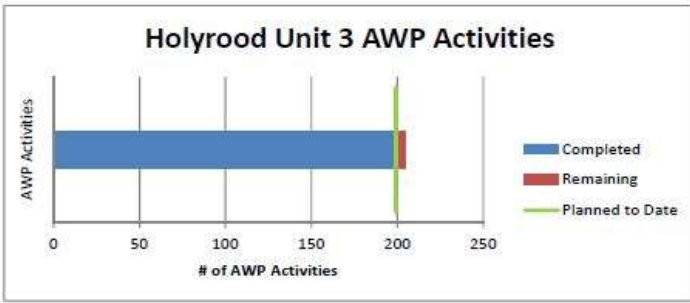
Holyrood Unit 2

Completion Status:

Target not fully met by December 1

Comments and Schedule Notables:

- Unit 2 overall AWP completion status is 97%;
- Unit 2 planned WR status is 98% complete as of December 1, 2021;
- Unit 2 will return to service following replacement of the failed T2 transformer;
- Output from Unit 2 will be limited by the spare transformer to 150 MW;
- The remaining three WR activities will be completed after December 21, 2021 when the T2 replacement is scheduled to be complete; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



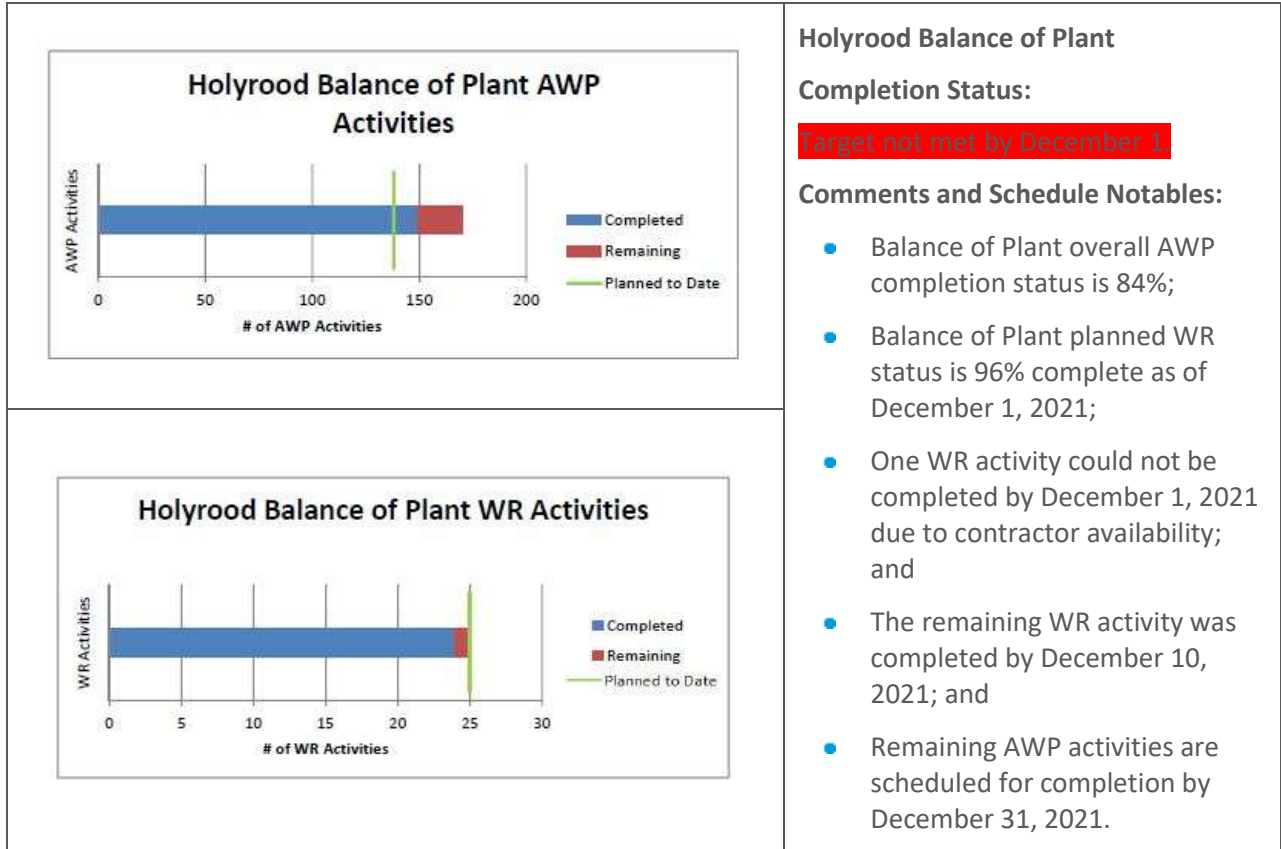
Holyrood Unit 3

Completion Status:

Target not fully met by December 1

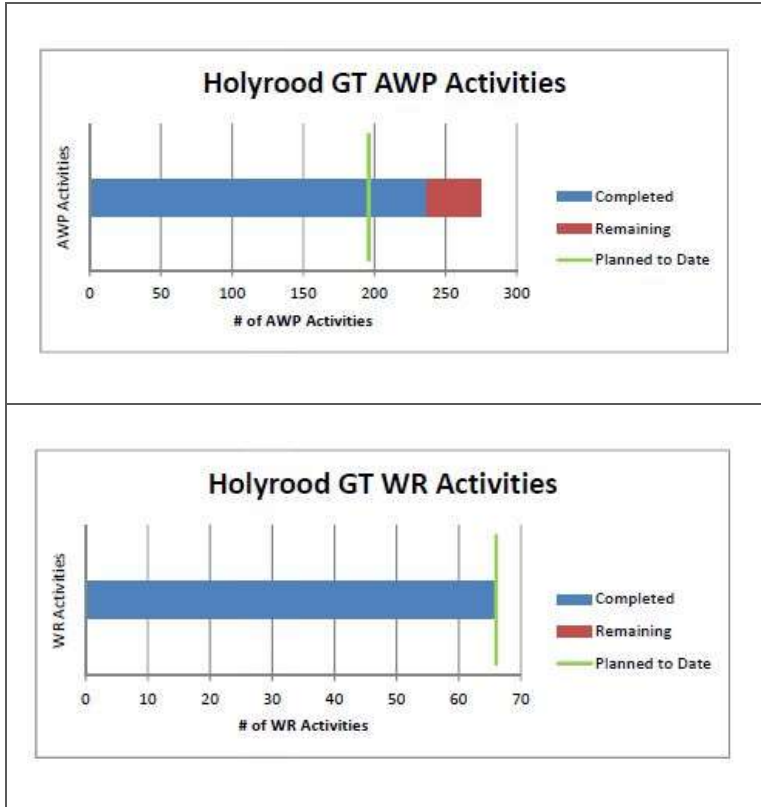
Comments and Schedule Notables:

- Unit 3 overall AWP completion status is 98%;
- Unit 3 planned WR status is 99% complete as of December 1, 2021;
- Unit 3 has been on-line since November 19, 2021;
- One WR activity could not be completed by December 1, 2021 due to contractor availability;
- The remaining WR activity was completed by December 10, 2021; and;
- Remaining AWP activities are scheduled for completion by December 31, 2021.



1 **2.3 Gas Turbine Generation**

2 The current status of AWP and WR execution at the Holyrood GT, Hardwoods GT, Stephenville GT, and
 3 Happy Valley GT is summarized in the following charts. All planned WR activities were completed by
 4 December 1, 2021 and remaining AWP items are scheduled for completion by December 31, 2021.



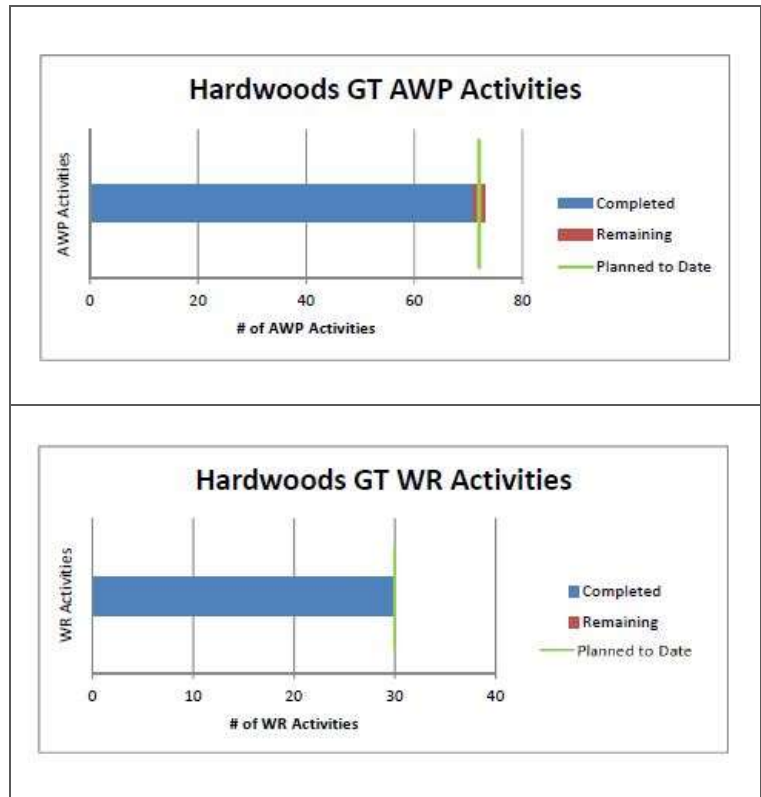
Holyrood GT

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Holyrood GT overall AWP completion status is 80%;
- Holyrood GT planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



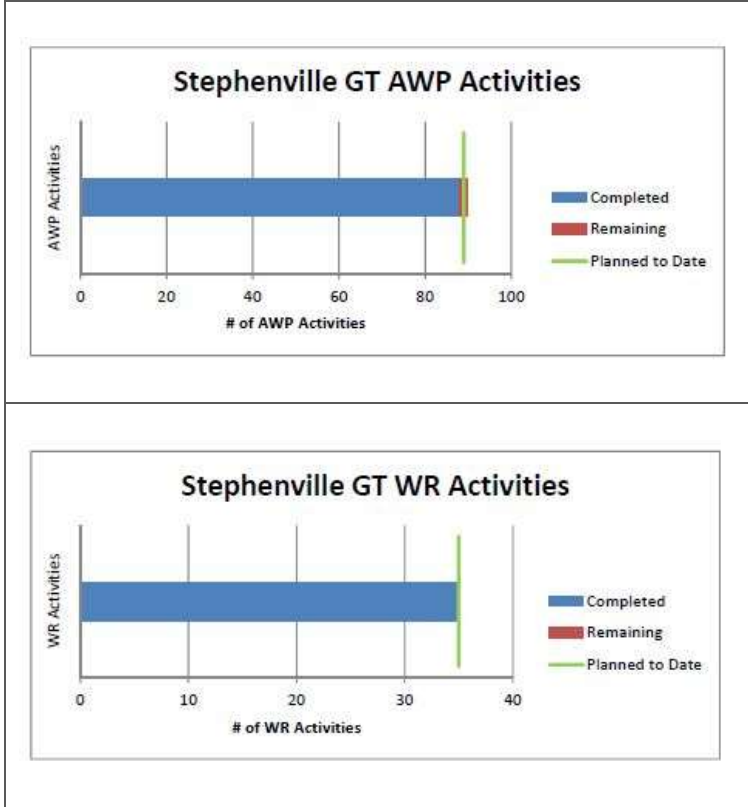
Hardwoods GT

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Hardwoods GT overall AWP completion status is 97%;
- Hardwoods GT planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



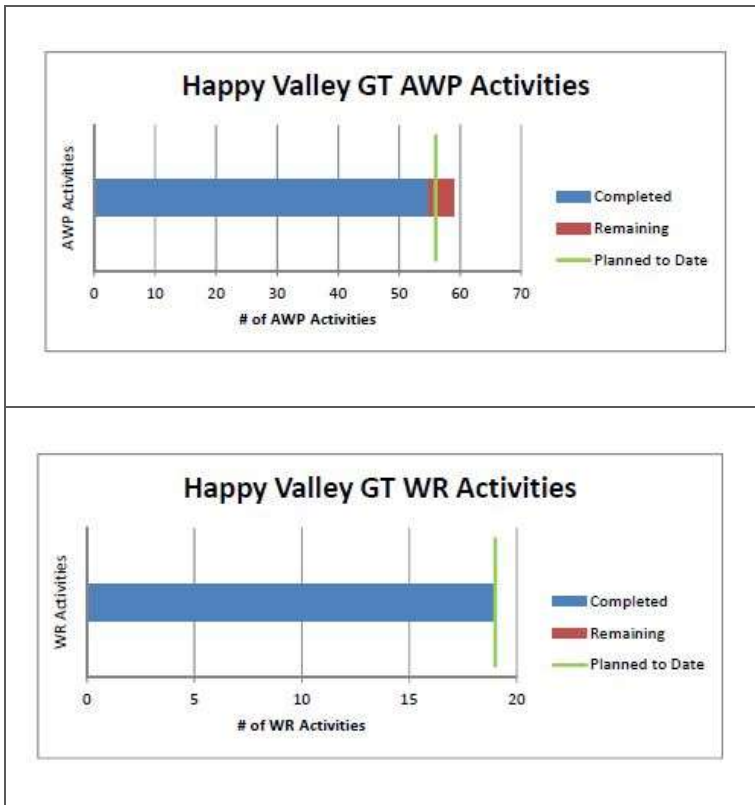
Stephenville GT

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Stephenville GT overall AWP completion status is 98%;
- Stephenville GT planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



Happy Valley GT

Completion Status:

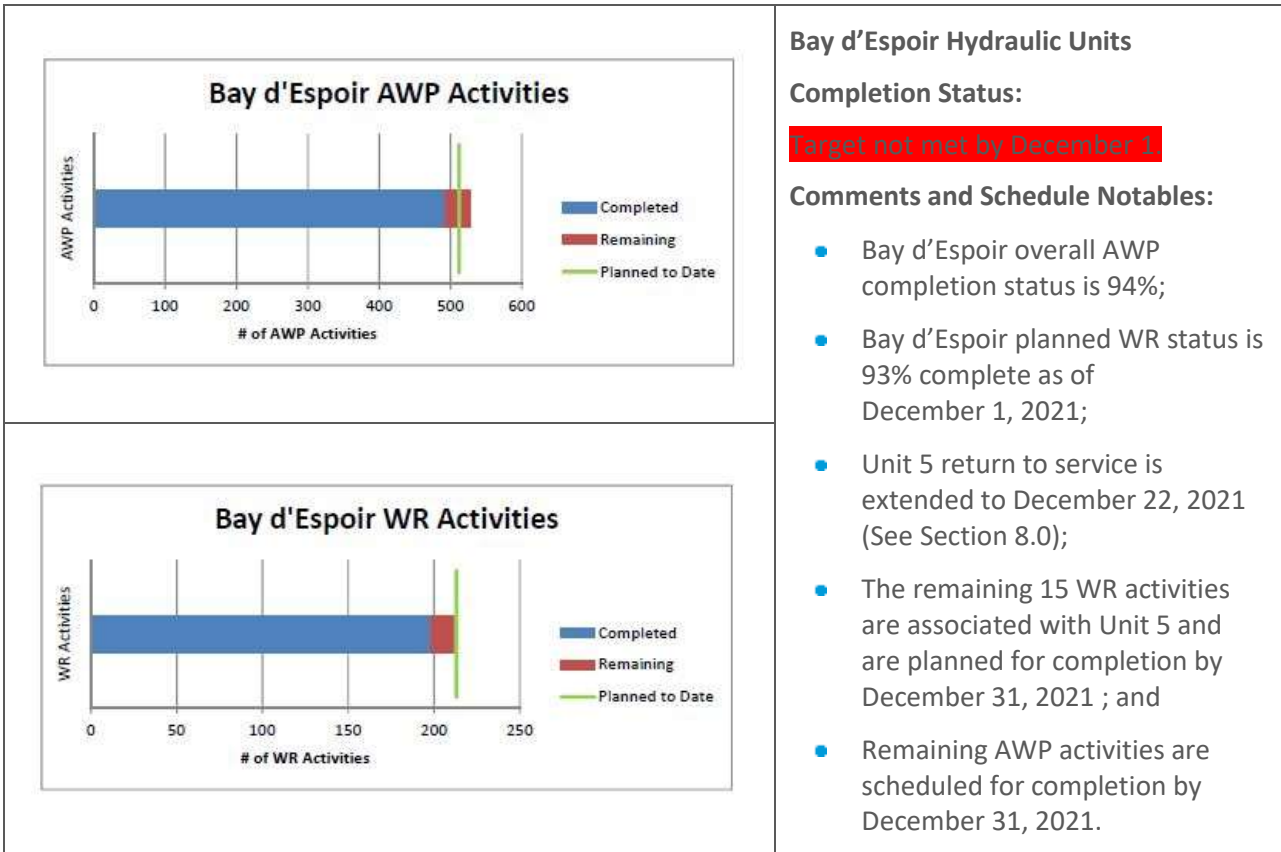
Target Achieved

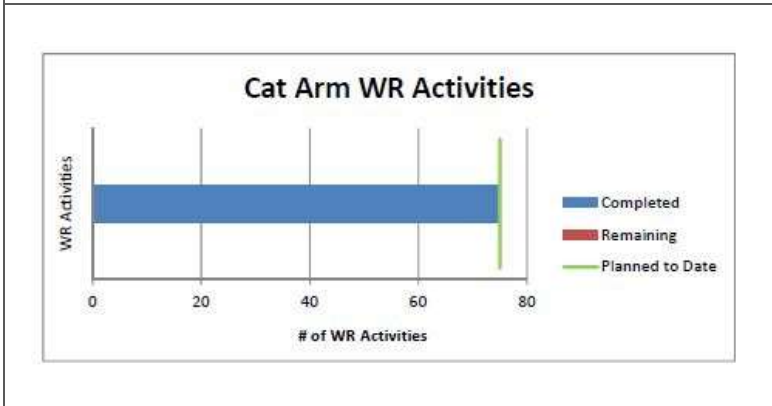
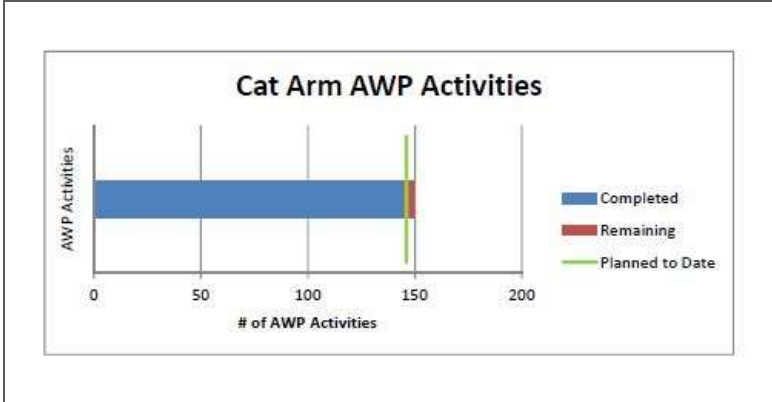
Comments and Schedule Notables:

- Happy Valley GT overall AWP completion status is 93%;
- Happy Valley GT planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.

1 **2.4 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 following charts. With the exception of 15 WR activities associated with Bay d’Espoir
 4 Unit 5, WR work for hydraulic generation facilities was complete by December 1, 2021. All remaining
 5 AWP activities, including the WR activities for Bay d’Espoir Unit 5, are scheduled for completion by
 6 December 31, 2021. Please refer to Section 8.0 for more information on Bay d’Espoir operational risks
 7 and mitigation.





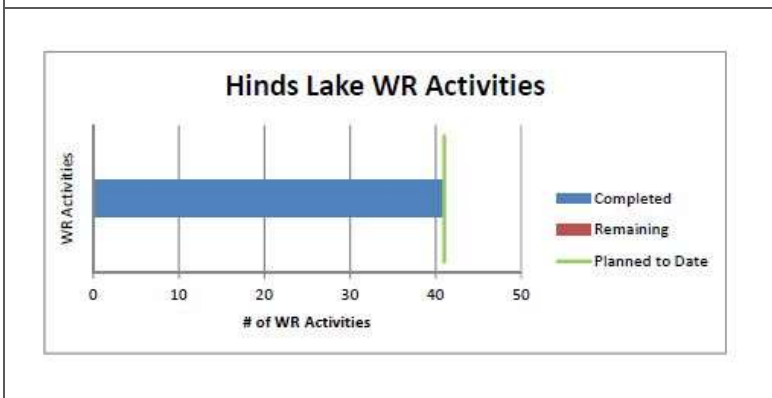
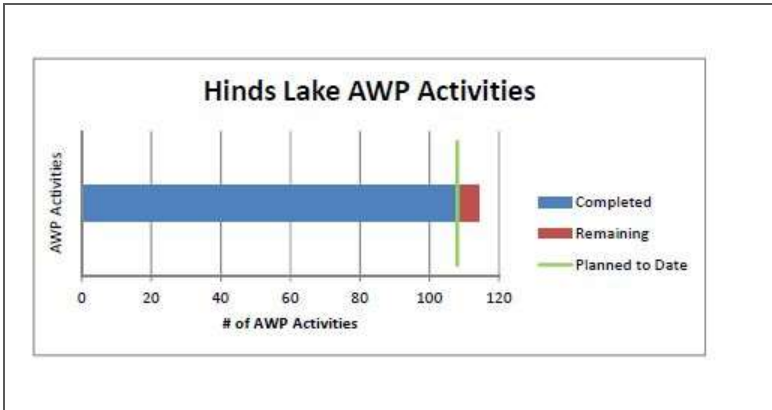
Cat Arm Hydraulic Units

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Cat Arm overall AWP completion status is 97%;
- Cat Arm planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



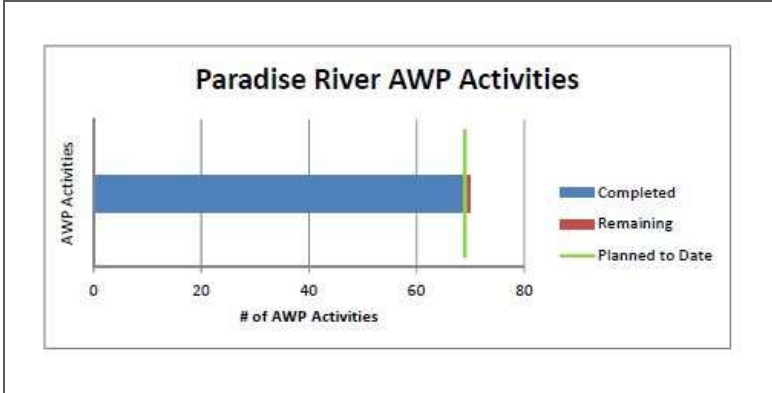
Hinds Lake Hydraulic Unit

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Hinds Lake overall AWP completion status is 96%;
- Hinds Lake planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



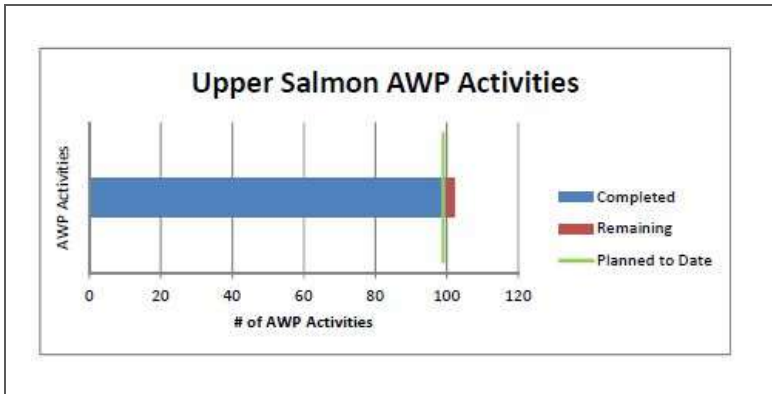
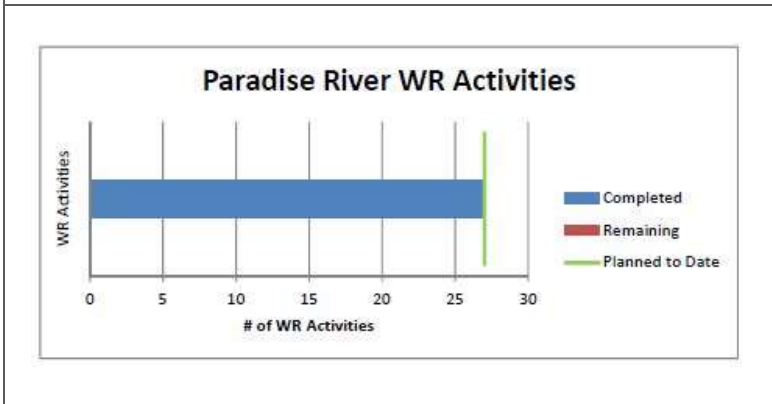
Paradise River Hydraulic Unit

Completion Status:

Target Achieved

Comments and Schedule Notables:

- Paradise River overall AWP completion status is 99%;
- Paradise River planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.



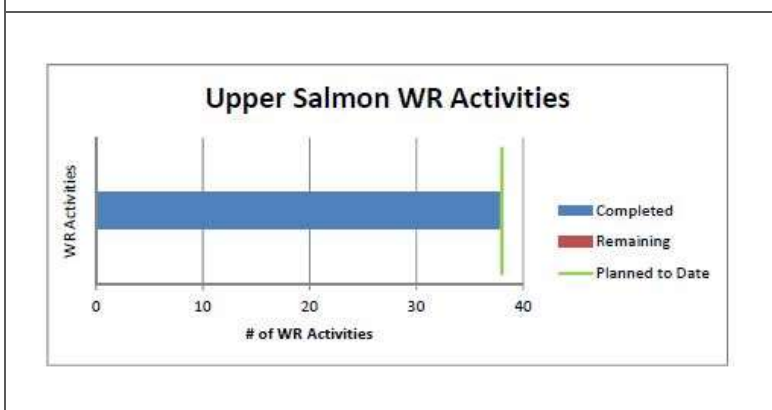
Upper Salmon Hydraulic Unit

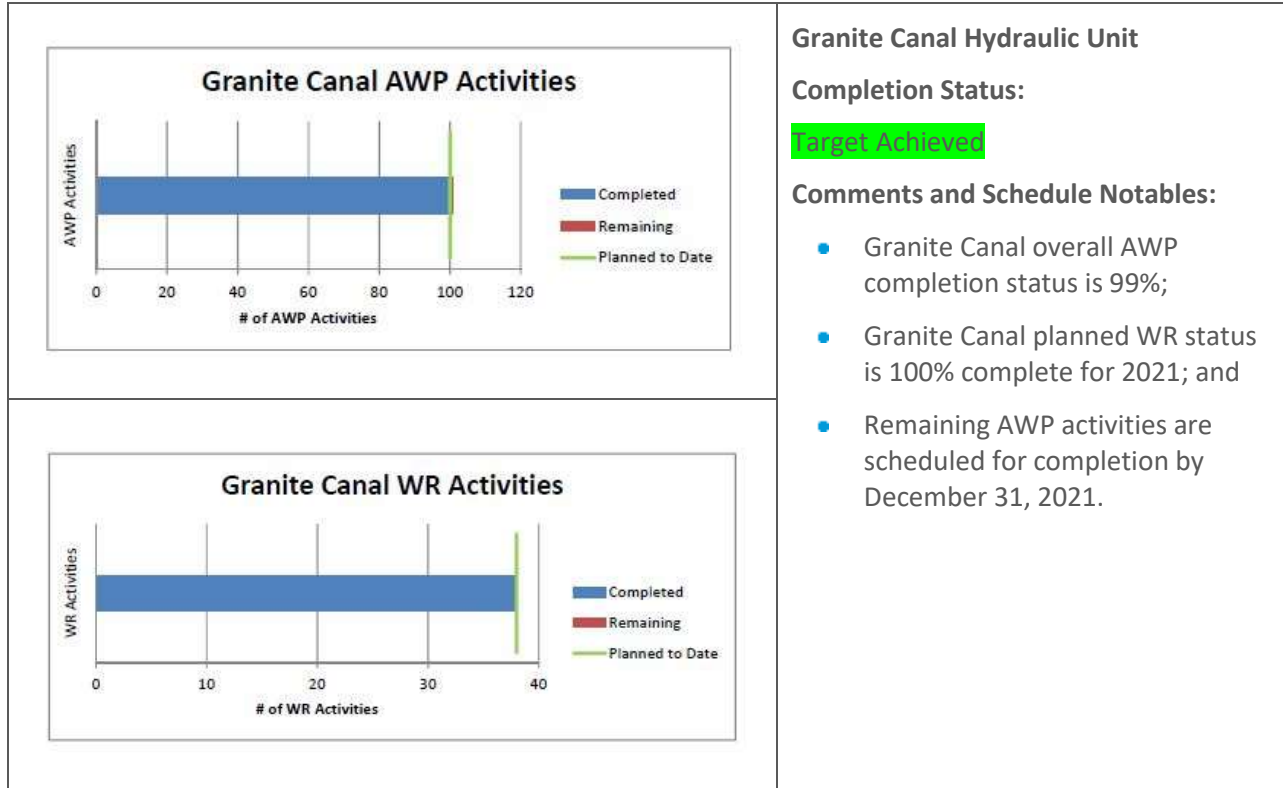
Completion Status:

Target Achieved

Comments and Schedule Notables:

- Upper Salmon overall AWP completion status is 98%;
- Upper Salmon planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.

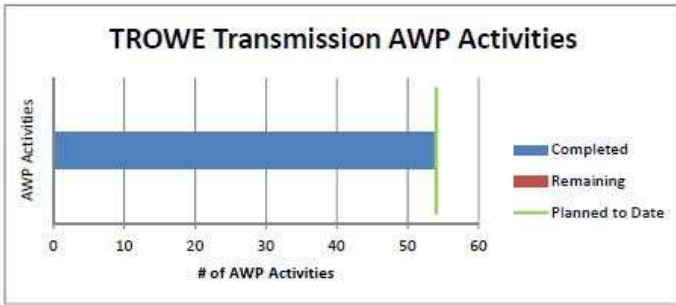




1 **2.5 Transmission and Terminal Stations**

2 The current status of AWP and WR execution for transmission line and terminal station facilities on both
 3 the Island Interconnected System and the Labrador Interconnected System is summarized in the
 4 following charts. All planned WR activities were completed by December 1, 2021.

5 The Muskrat Falls to Happy Valley Interconnection was completed on November 26, 2021. Further
 6 information is contained in Section 8.0.



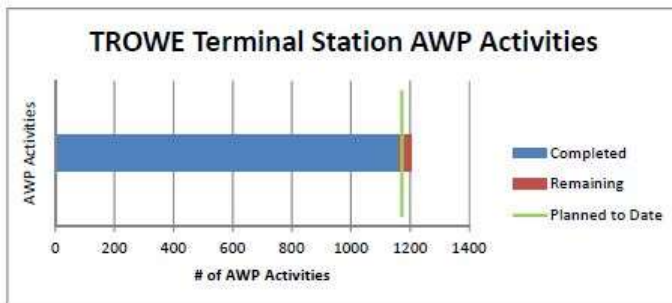
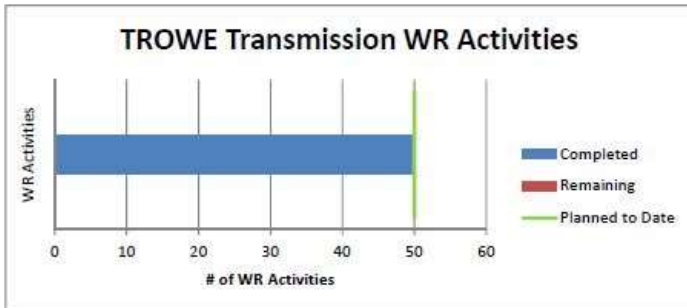
Transmission and Rural Operations West and East (“TROWE”) – Transmission

Completion Status:

Target Achieved

Comments and Schedule Notables:

- TROWE Transmission overall AWP completion status is 100%; and
- TROWE Transmission planned WR status is 100% complete for 2021.



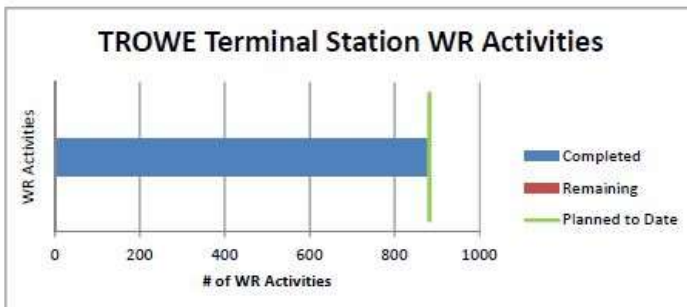
TROWE – Terminal Stations

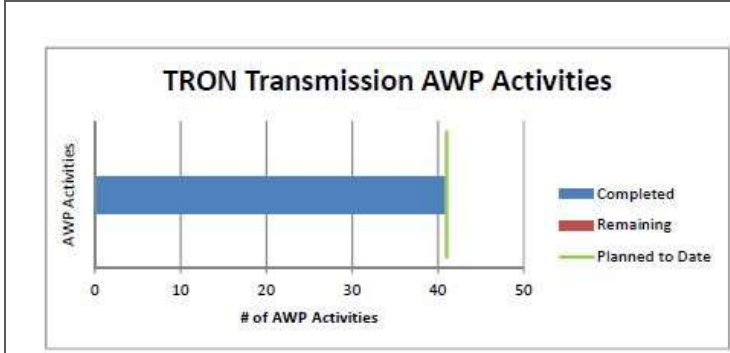
Completion Status:

Target Achieved

Comments and Schedule Notables:

- TROWE Terminal Stations overall AWP completion status is 97%;
- TROWE Terminal Stations planned WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 31, 2021.





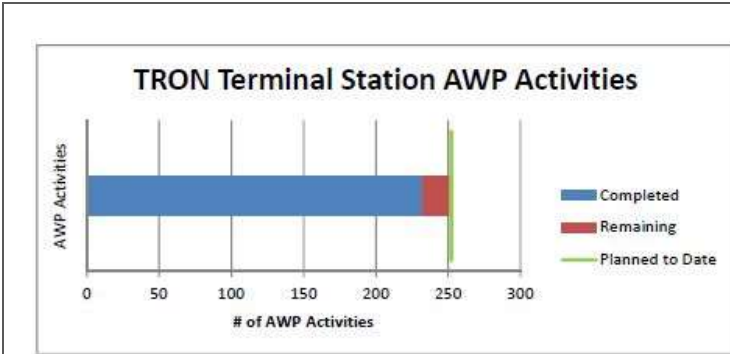
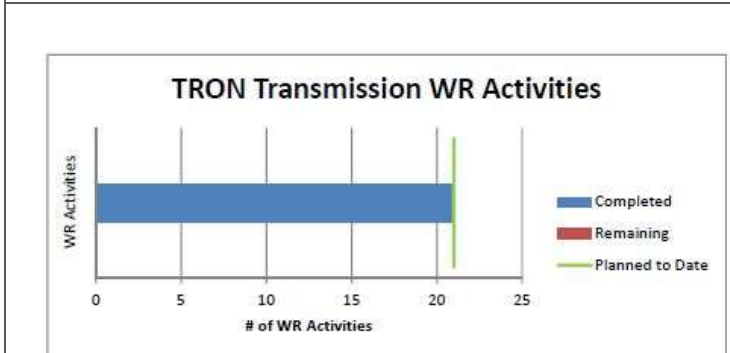
Transmission and Rural Operations Northern (“TRON”) – Transmission

Completion Status:

Target Achieved

Comments and Schedule Notables:

- TRON Transmission overall AWP completion status is 100%; and
- TRON Transmission WR status is 100% complete for 2021.



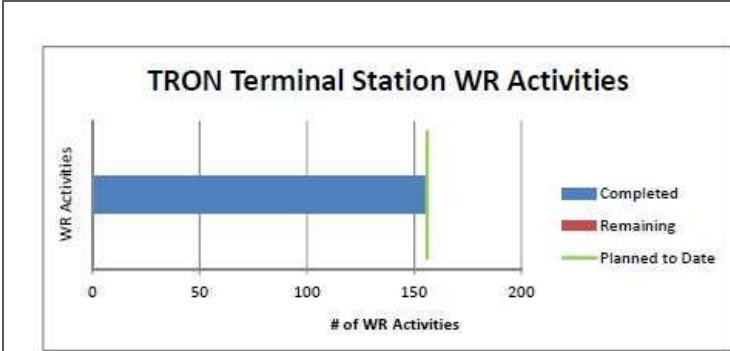
TRON – Terminal Station

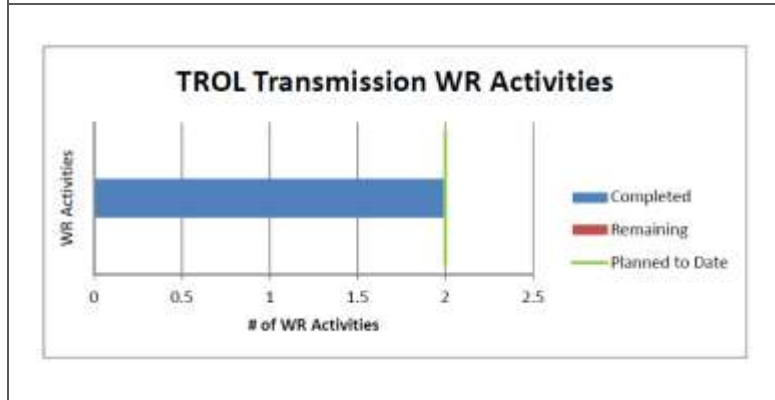
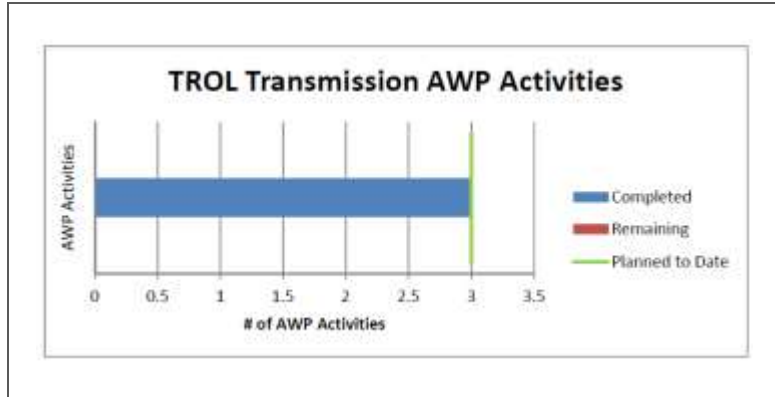
Completion Status:

Target Achieved

Comments and Schedule Notables:

- TRON Terminal Stations overall AWP completion status is 92%;
- TRON Terminal Stations WR status is 100% complete for 2021; and
- Remaining AWP activities are scheduled for completion by December 1, 2021.





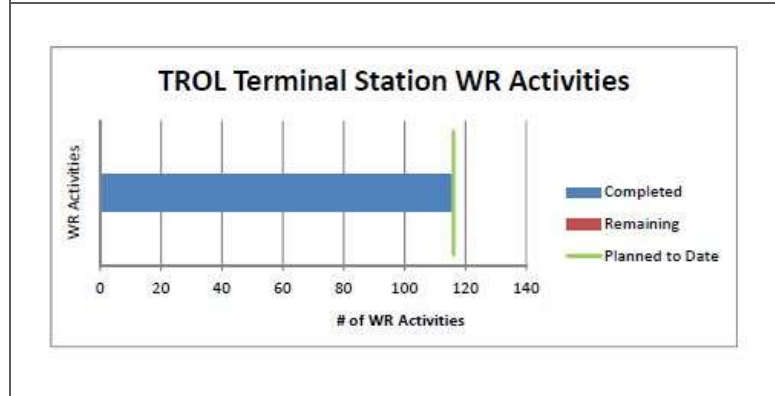
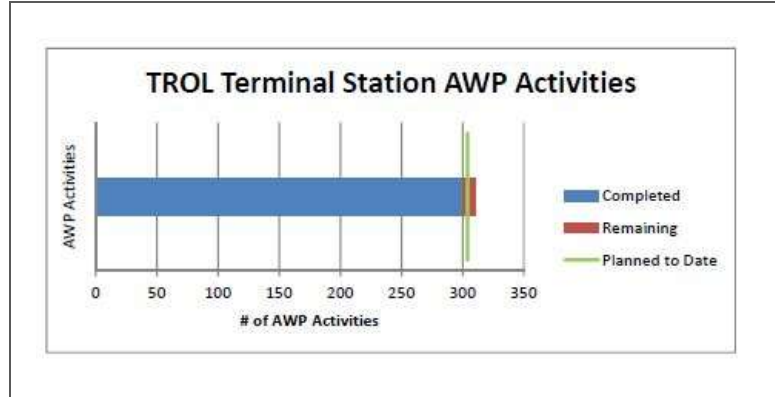
Transmission and Rural Operations Labrador (“TROL”) – Transmission

Completion Status:

Target Achieved

Comments and Schedule Notables:

- TROL Transmission overall AWP completion status is 100%; and
- TROL Transmission WR status is 100% complete for 2021.



TROL – Terminal Stations

Completion Status:

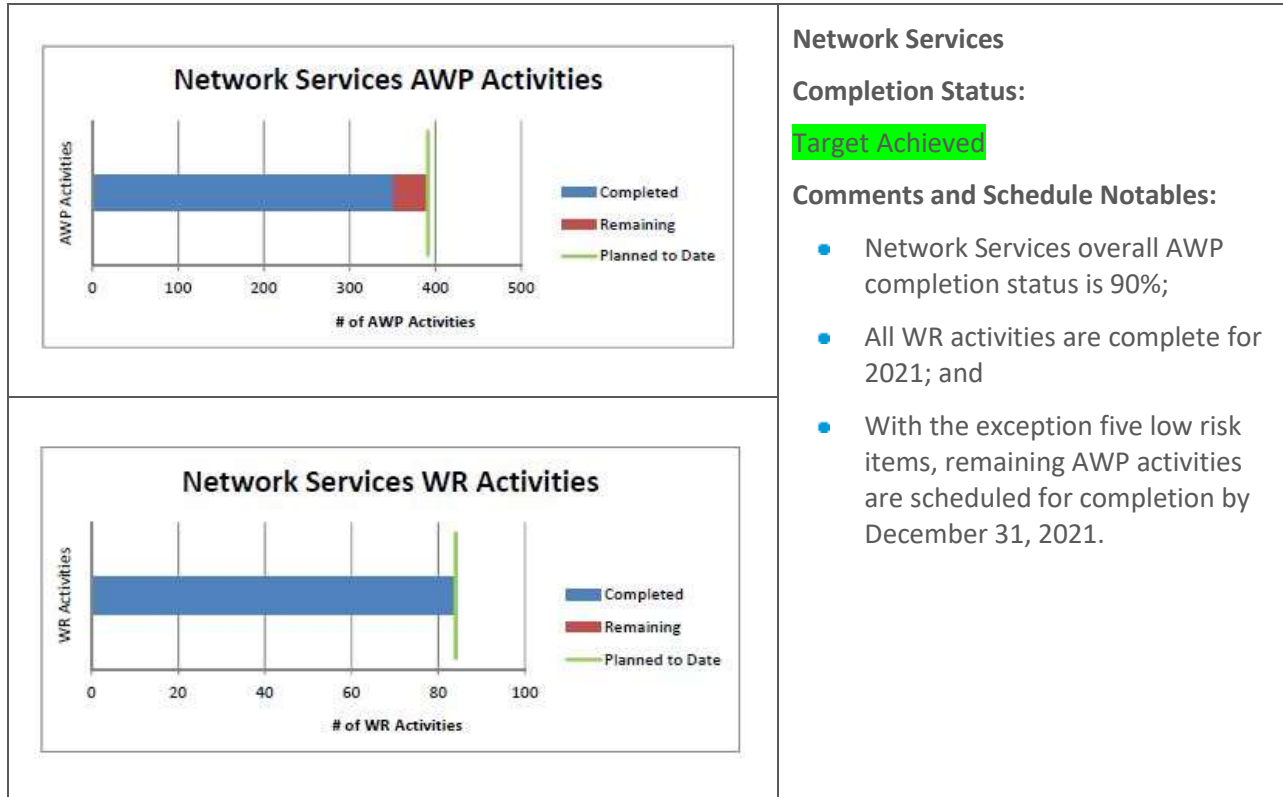
Target Achieved

Comments and Schedule Notables:

- TROL Terminal Stations overall AWP completion status is 97%;
- TROL Terminal Stations WR status is 100% complete for 2021; and
- With the exception of one low-risk item being carried over to 2022, the remaining AWP activities are scheduled for completion by December 31, 2021.

1 **2.6 Network Services**

- 2 The current status of AWP and WR execution for network services is summarized in the following charts.
 3 All planned WR activities are complete.



4 **3.0 Status of Winter Readiness for Capital Projects**

5 Appendix A of this report provides the status of 2021 planned capital projects that include scope related
 6 to 2021–2022 WR for the Island Interconnected System and the Labrador Interconnect System. Table 1
 7 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	Incomplete, Expected	Total
	December 1, 2021	Completion after December 1, 2021	
Hydraulic Generation	1	2	3
Thermal Generation	4	1	5
Gas Turbine Generation	0	1	1
Terminal Stations	4	0	4
Transmission	0	0	0
Total	9	4	13

1 As of December 1, 2021, the WR scope for 9 of the 13 capital projects is complete. The status of the
2 remaining 4 projects is as follows:

- 3 • The Bay d’Espoir Rewind Unit 5 Generator Stator project is substantially complete and generator
4 re-assembly is in progress. The expected return to service date for this generating unit is
5 December 22, 2021. Please refer to Section 8.0 for a summary of the delays experienced for this
6 project.
- 7 • The Bay d’Espoir Overhaul Unit 5 project is substantially complete. The final assembly and
8 commissioning activities for this project will be completed following the re-assembly of the
9 generator as noted for the rewind project. The expected return to service date for this
10 generating unit is December 22, 2021.
- 11 • The Holyrood Overhaul Unit 1 Boiler Feed Pump East project was completed on December 8,
12 2021. The on-site construction activity and off-site refurbishment of the removed pump volute,
13 to be stored as a spare, were completed prior to December 1, 2021. The refurbished volute was
14 delayed in shipping, but was received on December 8, 2021.
- 15 • The Gas Turbine Purchase Capital Spares project includes the procurement of four spare
16 components. Three of these components are received. The fourth component, a lube oil pump
17 for the Happy Valley GT, has been manufactured and is being prepared for shipment. The
18 current expected delivery is December 17, 2021.

19 **4.0 Plant and Equipment Testing**

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

23 In its transmission, terminal station, network services, and GT operations, Hydro relies on its AWP
24 process to plan and track its WR testing and inspection of these assets. The AWP in these areas include
25 planned PM activities and CM items both of which involve inspection and testing. Planned PMs and CMs,
26 and any other activities pertaining to WR, are flagged inside the respective AWP and may be tracked
27 separately from other AWP items that are not WR related.

4.1 Thermal Generation

WR testing of generating equipment in thermal generation is focused primarily around annual unit maintenance outages. Following these annual outages, units are run up and synchronized and all systems are verified before the unit's operating status is determined and preparedness is confirmed. Unit load tests are performed at this time as well. It can take a period of time for system conditions to allow for all required load testing. The WR testing protocol includes the testing of appropriate Balance of Plant components, including the black start diesel generators.⁵

The status of equipment/plant testing for Thermal Generation as of December 1, 2021 is indicated in Appendix B. Unit 2 and Unit 3 have been operated to full capability and have had all tests completed. Unit 2 is currently off line because of the failure of the main output transformer. While the unit is off line there is work in progress on the fuel oil accumulator and a fire protection zone on that unit is not in service. These items are marked as start-up because they will need to be re-confirmed during start-up after the transformer replacement is complete. Unit 1 was online briefly at low load prior to the cold reheat pipe incident. Unit 1 turbine valve testing, safety valve testing, and load testing were subsequently completed and the unit was available at full capacity as of December 4, 2021. There are three additional items that are not checked off as complete due to required CM. The items are: the hydrogen vent valve on Unit 3; the low-pressure drains pumps on Unit 1 and Unit 3; and the seal oil vacuum pumps on Unit 1 and Unit 2. These are low-priority items that are not required for WR and do not impact the reliability of the units or the ability to achieve full load. From a WR perspective, Hydro considers the Appendix B checklist complete and all units fully ready for winter operation.⁶

4.2 Gas Turbine Generation

Examples of WR activities that are included in the AWP for the Holyrood GT, Hardwoods GT, Stephenville GT, and Happy Valley GT include the following:

- PMs and CMs for major components and auxiliary systems;
- Black start testing;

⁵ The black start diesel generators are run up to speed and synchronized on a weekly basis to confirm their availability. The function of all associated breakers are also tested and confirmed.

⁶ Unit 2 is ready for start-up as soon as the T2 transformer is replaced.

- 1 • Monthly operational testing; and
- 2 • Execution of capital upgrades and refurbishment.

3 AWP charts, which include WR activities, are shown in Section 2.3 of this report. The planned black start
4 test for the Hardwoods GT was completed on December 2, 2021 during a planned maintenance outage.
5 This test was scheduled prior to December 1, 2021 but had to be rescheduled due to operation
6 requirements.

7 Operational testing of all GTs has been carried out throughout the year as planned and all WR capital
8 upgrades and refurbishments have been completed by December 1, 2021.

9 **4.3 Hydraulic Generation**

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

15 The current status of equipment/plant testing for Hydraulic Generation is indicated in Appendix C. All
16 inspection and testing of the Hydraulic Generation facilities were completed with the exception of black
17 start testing at Cat Arm and Upper Salmon and Bay d’Espoir Unit 5 annual inspection and capital
18 upgrades. A capital project to rewind the stator on Unit 5 is taking longer than anticipated and the
19 return to service date for that unit has been revised to December 22, 2021. Black start testing was
20 partially completed at Upper Salmon with the plant powered by the diesel generator and partial
21 sequence completed. Cat Arm requires a total plant outage to perform a black start test but, due to
22 system loading, it was not possible to completely shut down the generating station. The Cat Arm diesel
23 generator quarterly PM and test run were completed on December 8, 2021 and the black start sequence
24 for Cat Arm was reviewed as a table top exercise on December 9, 2021.

25 **4.4 Transmission and Terminal Stations**

26 **4.4.1 Transmission**

27 The summary of maintenance, refurbishment, and replacement criteria that Hydro uses for its
28 transmission lines was included in the “Transmission and Terminal Station Asset Management Execution

1 Report.”⁷ The report includes criteria for Wood Pole and Steel Structure Line Management Programs,
2 helicopter patrols, ground patrols, infrared inspections, wood pole treatment, and right-of-way
3 maintenance.

4 **4.4.2 Terminal Stations**

5 The Terminal Station Asset Management Overview document includes the maintenance, refurbishment,
6 and replacement criteria used by Hydro for terminal station assets. Version 6 of this document was
7 included in the Terminal Station Refurbishment and Modernization project report in Hydro’s “2022
8 Capital Budget Application.”⁸

9 **4.4.3 Transmission and Terminal Station Testing**

10 The AWP for both transmission and terminal stations are predominantly comprised of PMs and CMs,
11 which inherently involve inspection and testing. Examples of WR activities that are included in the AWP
12 work scopes include the following:

- 13 • Transformer PMs and CMs;
- 14 • Annual exercises on all high-voltage circuit breakers;
- 15 • Exercise of 230 kV circuit breakers from protection during PM inspections;
- 16 • Infrared scans at all terminal stations;
- 17 • Annual ultrasonic leak testing on all terminal station air systems; and
- 18 • Annual helicopter patrol of transmission lines prior to the winter season.

19 AWP charts, which include WR activities, are shown in Section 2.5 of this report. All WR activities were
20 completed by December 1, 2021.

⁷ “Transmission System and Terminal Station Asset Management Execution Report,” Newfoundland and Labrador Hydro, April 12, 2021.

⁸ “2022 Capital Budget Application,” Newfoundland and Labrador Hydro, rev. 1, September 17, 2021 (originally filed on August 2, 2021), vol. II, sch. 8, tab 10, att. 1.

1 **4.5 Network Services**

2 The AWP for network services is comprised of PMs and CMs which inherently involve inspection and
3 testing of various assets and systems. AWP charts, which include WR activities, are shown in Section 2.6
4 of this report. All WR activities are complete.

5 **5.0 Generation Outage Schedule**

6 As reflected in Section 2.0, a number of unit annual maintenance programs have been completed across
7 the fleet. At this time, maintenance activities remain in progress on Bay d’Espoir Unit 5 and Holyrood
8 TGS Unit 2. Both Holyrood TGS Unit 2 and Bay d’Espoir Unit 5 are expected to return to service during
9 the week of December 19, 2021.⁹ These items are further discussed in Section 8.0.

10 The Master Generation Outage Schedule for September 1 to December 31 is provided as Appendix D.
11 Deliveries via the LIL and imports via the Maritime Link will be used to help manage potential
12 deficiencies in Island N-1 Reserves for the weeks of December 12, 2021 and December 19, 2021 period
13 should the forecasted peak loads materialize.¹⁰

14 **6.0 Critical Spares**

15 **6.1 Overview**

16 In 2014, Hydro completed extensive reviews of its critical spares requirements in all three areas of its
17 generation operations: hydraulic generation; thermal generation (Holyrood TGS); and the Hardwoods
18 and Stephenville GTs. These reviews included a detailed analysis of asset criticality and spare parts in
19 reference to several factors, including impact on generation reliability and replacement part availability.
20 A second phase of spares analysis was completed in 2017 for Hydro’s hydraulic generation facilities and
21 569 additional items were added to the critical spares list. This year, Hydro has included details on its
22 critical spares status for the Happy Valley GT.

23 Hydro's evaluation of critical spares is an ongoing process with consideration given to asset condition,
24 level of criticality, parts availability, order lead time, and cost. In some cases, a balanced consideration of

⁹ See Section 8.0 for further information.

¹⁰ Hydro’s forecast for December peak load is not dynamic, but rather reflects the maximum peak load that is anticipated to occur under average system conditions in winter 2021–2022.

1 these factors may result in a decision to not procure a part into inventory where the risk to reliability is
2 judged to be low and/or other measures are available to mitigate against generation unavailability.

3 Included in this report is a full update on the status of Hydro’s critical spares, as of December 1, 2021,
4 for the 2021–2022 winter season. This update includes a detailed listing of critical spares requirements
5 for each area of generation operations and the status of each item.

6 **6.2 2021–2022 Winter Season**

7 Hydro’s critical spares status leading into the 2021–2022 winter season is strong. For Thermal
8 Generation (Appendix E), Gas Turbines (Appendix F), and Hydraulic Generation (Appendix G), a total of
9 2,518 critical spares have been identified by Hydro’s three generation operations areas. Of this total,
10 2,507 items are in stock (>99%) and 11 items are in the procurement process as of December 1, 2021.

11 **6.2.1 Thermal Generation**

12 As summarized in Table 2, there are six critical spare stock items not in stock as of December 1, 2021. All
13 of these items are on order through Hydro’s Supply Chain Department and are in varying stages of
14 procurement. One item was refurbished in Alberta and was subsequently received on December 8,
15 2021. One item shipped November 30, 2021, and one item is expected to be delivered January 21, 2022.
16 The remaining item is currently out for quote with multiple vendors and will be expedited.¹¹ These
17 outstanding spares do not present an appreciable risk to reliable operation of the units.

18 The complete list of critical spares for Holyrood TGS is provided in Appendix E. Note that this list
19 contains three inventory status descriptions: “In Stock;” “Non-Stock;” and “On Order.” “In Stock” means
20 that the part is in inventory, “Non-Stock” means that the part is critical but it is not necessary to keep it
21 in stock (e.g., because the part is readily available locally), and “On Order” means that the part is
22 required to be in stock but is not. For the “Non-Stock” parts, an explanation of the reason why it is
23 “Non-Stock” is provided in the “Notes” column in Appendix E.

¹¹ Hydro is awaiting delivery of four items. One item is listed as a critical spare for three different components. For reporting purposes this is counted as three items.

Table 2: Critical Spares for Thermal Generation

Critical Spare Items	Quantity
In Stock	752
On Order	6
Not Yet On Order	0
Total	758

1 6.2.2 Gas Turbines

2 Table 3 summarizes the status of spare parts for the Hardwoods GT, Stephenville GT, Holyrood GT, and
3 Happy Valley GT as of December 1, 2021. A detailed listing is provided as Appendix F.

Table 3: Critical Spares for Gas Turbine Generation

Critical Spare Items	Hardwoods/ Stephenville	Holyrood	Happy Valley	Total
In Stock	90	403	47	540 (99.45%)
On Order	0	0	3	3 (0.55%)
Not Yet On Order	0	0	0	0 (0.00%)
Total	90	403	50	543

4 The spares list for the Hardwoods GT and Stephenville GT is detailed in Appendix F and contains the
5 critical spares identified for these units. This list contains 90 critical spare parts – 100% of these spares
6 are in stock.

7 The spares list for the Holyrood GT is detailed in Appendix F and includes the critical spares for this unit.
8 This list contains 403 critical items – 100% of these spares are in stock.

9 The spares list for the Happy Valley GT is detailed in Appendix F and includes the critical spares for this
10 unit. Of the 50 items identified as critical spares, 47 of these are in stock, and 3 are on order. Due to
11 delays at the supplier, the 3 on order items were not received by December 1, 2021; however, they are
12 all expected to be received by December 17, 2021. Existing equipment is in good condition with a low
13 likelihood of failure and, with delivery imminent, there is no appreciable risk to winter readiness.

14 Hydro has utilized a number of its spare parts to address deficiencies found during the 2021
15 maintenance season. These items have been identified and the spare components have been
16 replenished.

6.2.3 Hydraulic Generation

Table 4 provides an overview of the critical spares program for Hydraulic Generation as of December 1, 2021 and Appendix G contains detailed spares lists for the various facilities.

Table 4: Critical Spares for Hydraulic Generation

Critical Spare Items	Quantity
In Stock	1,215
On Order	2
Not Yet On Order	0
Total	1,217

The two outstanding items for 2021, as of December 1, 2021, were:

- 1) Cat Arm lightning arrestor; and
- 2) Upper Salmon T2 transformer.

The Cat Arm lightning arrestor was delayed in North Sydney¹² and did not arrive before December 1, 2021. This item was subsequently received on December 8, 2021.

The Upper Salmon T2 Transformer was successfully delivered in August 2021; however, on-site field testing revealed an internal grounding issue. The transformer was shipped to the United States of America in November 2021 for testing and repairs. Testing has identified the issue with the transformer and repair options are under review. The expected delivery of the transformer back to Upper Salmon is not yet confirmed. Delay in delivery of this item will not affect reliability of generation as the existing equipment is in good condition and likelihood of failure is low.

7.0 Near-Term Reliability and Resource Adequacy

This section discusses the near-term reliability and resource adequacy of the Newfoundland and Labrador Interconnected System for the upcoming winter period. It provides a summary of the analysis presented in Hydro's "Near-Term Reliability Report," filed with the Board on November 15, 2021.¹³

¹² The expected delivery of November 30, 2021 was impacted by severe weather on the western portion of Newfoundland which washed out sections of the Trans Canada Highway and delayed ferry crossings.

¹³ "Near-Term Reliability Report," Newfoundland and Labrador Hydro, November 15, 2021.

1 The reliability indices in this near-term report include both annual and monthly Loss of Load Hours
 2 (“LOLH”), Expected Unserved Energy (“EUE”), and Normalized EUE¹⁴ for the period of January 1, 2022 to
 3 May 31, 2022. The analysis considers the different types of generating units (i.e., thermal, hydro, and
 4 wind) in Hydro’s fleet, contractual sales, transmission constraints, peak load, load forecast uncertainty,
 5 and capacity assistance programs. Similar to previous analyses, a range of projected availabilities was
 6 considered for the Holyrood TGS. A detailed discussion of the modelling approach used can be found in
 7 Hydro’s “Near-Term Reliability Report.”¹⁵

8 **7.1 Assumptions**

9 **7.1.1 Asset Performance**

10 Hydro updates its assumptions for forced outage rates (“FOR”) for all generation assets on an annual
 11 basis.¹⁶

12 Table 5 presents the FOR used in this analysis.

Table 5: FOR – Hydro-Owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR ¹⁷ = 2.6%
Holyrood Thermal Units – Base Assumption	DAFOR = 15%
Holyrood Thermal Units – Sensitivity Assumptions	DAFOR = 18%, 20%
Holyrood Gas Turbine	DAUFOP ¹⁸ = 4.9%
Happy Valley Gas Turbine	DAUFOP = 12%
Stephenville Gas Turbine	DAUFOP = 30%
Hardwoods Gas Turbine	DAUFOP = 30%
Diesels	DAUFOP = 6.3%

¹⁴ 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.

¹⁵ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, November 15, 2021.

¹⁶ FOR are updated consistent with the FOR methodology presented in “Reliability and Resource Adequacy Study – 2019 Update,” Newfoundland and Labrador Hydro, November 15, 2019.

¹⁷ Derated Adjusted Forced Outage Rate (“DAFOR”).

¹⁸ Derated Adjusted Utilization Forced Outage Probability (“DAUFOP”).

1 For units not owned by Hydro, the forced outage rates used in Hydro’s modelling are determined using
 2 industry averages.¹⁹ FOR used in this analysis are presented in Table 6.

Table 6: FOR – Third-Party Owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR = 6.0%
Gas Turbines	DAUFOP = 6.3%
Corner Brook Co-Generation	DAUFOP = 20.1%

3 7.1.2 Labrador-Island Link Assumptions

4 As has been observed in prior near-term reliability reports, results of Hydro’s analysis indicate that
 5 reliable operation of the LIL is shown to provide significant system reliability benefits even at low power
 6 transfer levels. There is potential for some level of power transfer over the LIL throughout the 2021–
 7 2022 winter operating season; however, to provide a fulsome view of potential system reliability, Hydro
 8 has prepared this analysis in a manner consistent with prior analysis by considering and analyzing
 9 system reliability through the entire reporting period with an assumption that the LIL will not be
 10 available for the reporting period. To date, the LIL has been successfully tested and operated at 312
 11 MW, an increase from the prior established operational limit of 225 MW.

12 With respect to the LIL, once modelled as in service, its availability is modelled with a declining FOR (i.e.,
 13 improving performance) in order to capture any testing activities and potential operational unknowns
 14 during the first years of operation.²⁰ Given the delays experienced in commissioning to date and the
 15 complexity of the commissioning process, Hydro has modified the FOR profile used for the LIL. Analysis
 16 completed in prior Near-Term Reliability Reports used a profile of 10% FOR in year one of operation;
 17 decreasing to 2.5% in year two; 1.0% in year three; and 0.556% per pole, or the design criteria, in year
 18 four. In the current analysis, Hydro has retained the year one assumption of 10% FOR, and has modified
 19 the year two assumption to reflect a FOR of 5%, before assuming the same declining FOR profile of 2.5%
 20 in year three, 1% in year four and the design criteria of 0.556% in year five. This ensures a prudent
 21 approach with respect to asset availability during the early years of in-service.

¹⁹ As provided in the Canadian Electricity Association Generating Equipment Reliability Information System and the North American Electric Reliability Corporation Generating Availability Data System.

²⁰ In year one of operation, the monopole FOR is assumed to be 10% for each pole. The FOR assumption decreases to 5.0% in year two, 2.5% in year three, and 1.0% per pole in year four. It is assumed that the LIL would reach its design criteria FOR of 0.556% per pole in year five.

1 For the purpose of this analysis, the LIL is assumed to be available at its full capacity on the in-service
2 date, supported by the full availability of the Muskrat Falls generating units. Delivery of the Nova Scotia
3 Block commenced in August 2021, with the first physical delivery taking place on August 17, 2021.²¹ As
4 per the Energy and Capacity Agreement, in instances where the LIL is fully unavailable, Hydro is not
5 obligated to deliver the Nova Scotia Block. In instances where the LIL is partially available, the Nova
6 Scotia Block is delivered on a *pro-rata* basis.

7 **7.1.3 Availability of Capacity Assistance Agreements**

8 Capacity assistance refers to curtailable loads and customer generation available to the utility under
9 contract to provide capacity on an as needed basis. Hydro currently has an agreement with Corner
10 Brook Pulp and Paper Limited (“CBPP”) for capacity assistance. The current agreement expires
11 April 30, 2023 ensuring the availability of this agreement to increase system reliability should the LIL be
12 unavailable in the 2021–2022 winter operating season.

13 Since 2014, Hydro has engaged Vale Newfoundland and Labrador Limited (“Vale”) through various
14 agreements to provide capacity assistance from its diesel generators. Hydro has engaged Vale to provide
15 7.6 MW of capacity assistance through the 2021–2022 winter operating season.

16 **7.2 System Energy Capability**

17 In order to reliably serve its customers, Hydro maintains minimum storage limits to ensure that it is
18 capable of meeting customer energy requirements. In the current system, these limits represent the
19 point at which Holyrood TGS generation would be required to be maximized to ensure Hydro could
20 continue to meet customer requirements in consideration of the historical dry sequence. In early 2021,
21 Hydro established minimum storage limits to April 30, 2022 in consideration of the event that the LIL is
22 unable to deliver energy to the Island Interconnected System for three months during winter 2022.²²
23 This will help ensure sufficient storage to reliably serve customers should the LIL become unavailable
24 during the months that have historically high customer loads and low inflows into the system.

25 The limits do not consider the availability of imports, though imports can provide an additional
26 opportunity to supplement energy in storage and economically reduce the amount of thermal

²¹ Pursuant to the Energy and Capacity Agreement between Nalcor Energy and Emera Inc., the Nova Scotia Block is a firm annual commitment of 980 GWh, supplied from the Muskrat Falls Hydroelectric Generating Facility on peak.

²² The three winter months are January to March 2022, inclusive.

1 generation required to maintain sufficient energy in storage. Thermal generation above minimum, in
 2 combination with imports when available, can be used during the winter 2021–2022 operating season, if
 3 required. Otherwise, imports will be used to offset thermal generation to the extent that it is
 4 economically and technically feasible.

5 At this time, Hydro does not foresee using production from standby generation to support reservoir
 6 levels. Regular assessments of storage at a reservoir level basis are also completed to ensure that each
 7 hydraulic generating unit remains capable of producing at full rated output through the winter period.

8 As of the end of November 2021, the total system energy in storage was 1,616 GWh, 430 GWh above
 9 the established minimum storage limit of 1,186 GWh. As of December 7, 2021 the total system energy in
 10 storage was further increased to 1,712 GWh. Figure 1 plots the 2020 and 2021 storage levels, maximum
 11 operating level storage, and the 20-year average aggregate storage for comparison.

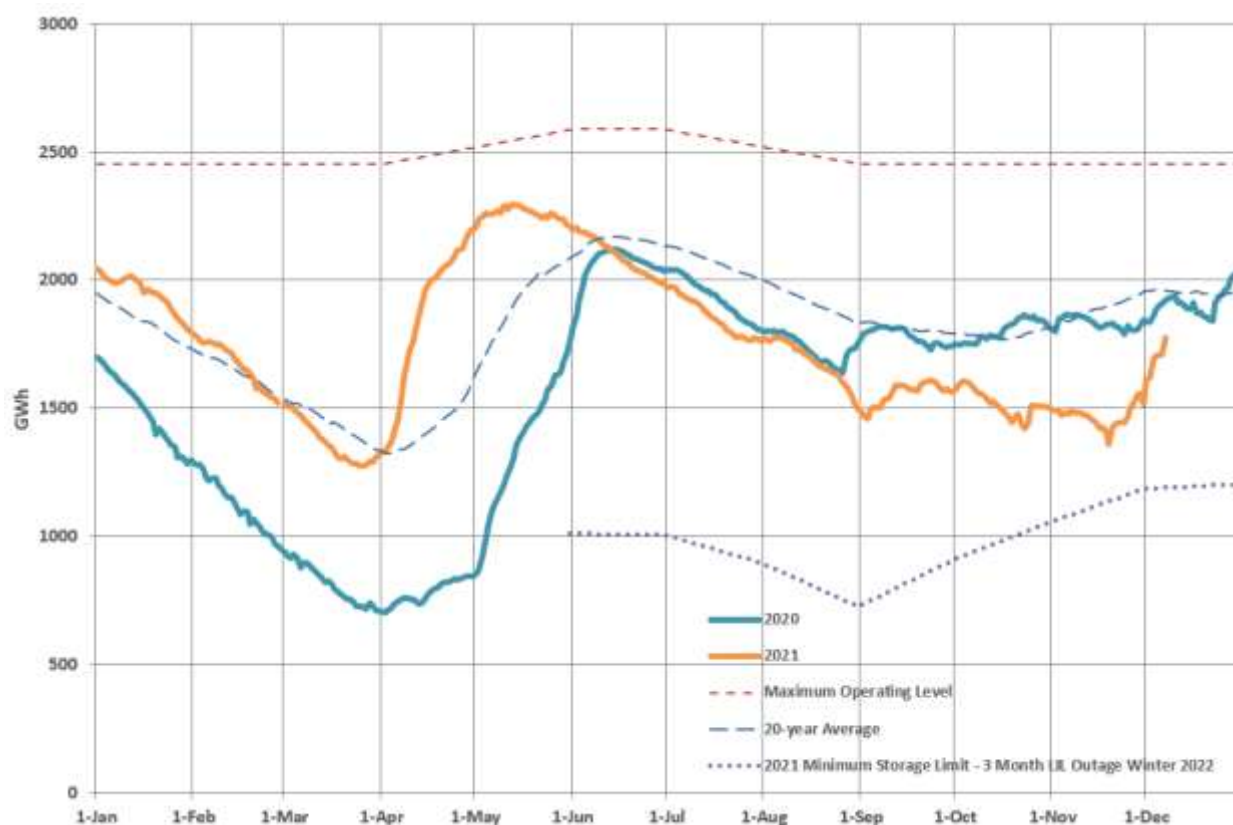


Figure 1: Total System Energy Storage for December 7, 2021

1 **7.3 Load Forecast**

2 Customer load requirements in this analysis are consistent with those used in Hydro’s “Near-Term
3 Reliability Report.”²³ The customer load requirement component of Hydro’s near-term load forecast was
4 developed using forecasted load requirements provided by Hydro’s industrial customers and Hydro’s
5 load forecast for Newfoundland Power Inc. and its rural service territories. Hydro relied on these inputs
6 to determine a forecast of customer energy and coincident demand for the Island Interconnected
7 System, the Labrador Interconnected System, and the Newfoundland and Labrador Interconnected
8 System.

9 With respect to the near-term Island Interconnected System load forecast, the primary change since
10 Hydro’s October Winter Readiness Report, is the revised demand requirements for NARL Refining LP
11 (“NARL”), which resulted in 26 MW reduction in Industrial customer coincident demand requirements.
12 Losses were also adjusted to reflect Transmission Losses and Station Service exclusive of LIL impacts.

13 Hydro’s near-term Labrador Interconnected System load forecast continues to reflect the unresolved
14 power supply constraints to the western Labrador system, which are anticipated to be addressed
15 through the ongoing implementation of the Network Additions Policy.

16 Labrador Interconnected System forecast demand requirement is increased in 2022 compared to the
17 May 2021 “Near-Term Reliability Report,”²⁴ following an earlier in-service date of synchronous
18 condenser 3 at the Wabush Terminal Station. Forecast energy and demand requirements are also
19 modestly higher (2% and 1%, respectively) through the medium term compared to the May 2021 “Near-
20 Term Reliability Report”²⁵ as a result of increased industrial requirements.

²³ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, November 15, 2021.

²⁴ Ibid.

²⁵ Ibid.

Table 7: 2021–2022 Island Interconnected System Load Forecast

	MW
Utility Requirements	1,474
Industrial Customers	154
Island Interconnected System Customer Coincident Demand	1,627
Island Interconnected System Transmission Losses and Station Service Requirements	75
Total Island Interconnected System Requirements (P50)	1,702
P90 Demand Adjustment	60
Total Island Interconnected System Requirements (P90)	1,762

Table 8: 2021–2022 Labrador Interconnected System Load Forecast

	MW
Utility Requirements	146
Industrial Customers	308
Labrador Interconnected System Customer Coincident Demand	453
Labrador Interconnected System Transmission Losses and Station Service Requirements	27
Total Labrador Interconnected System Requirements	480

Table 9: 2021–2022 Newfoundland and Labrador Interconnected System Load Forecast

	MW
Newfoundland and Labrador Interconnected System Customer Coincident Demand	2,046
Newfoundland and Labrador Interconnected System Transmission Losses and Station Service Requirements	100
Total Newfoundland and Labrador Interconnected System Requirements	2,146
Island Interconnected System P90 Demand Adjustment	60
Total Newfoundland and Labrador Interconnected System Requirements (including Island Interconnected System P90 Demand Adjustment)	2,206

1 **7.4 Scenarios Considered and Results**

2 The following subsections provide a description of the 12 scenarios considered for winter 2021–2022,
3 and the anticipated system reliability in each case (i.e., LOLH, EUE, and Normalized EUE results).

4 **7.4.1 Scenarios**

5 Twelve scenarios were analyzed to assess system reliability under a range of potential system
6 conditions.

- 1 ● **Scenario 1:** Assumes that the LIL will be available at full capacity in January 2022. This case
2 assumes a DAFOR of 15% for the Holyrood TGS as well as the retirement of the Holyrood TGS,
3 Hardwoods GT, and Stephenville GT on March 31, 2023.
- 4 ● **Scenario 2:** Varies from Scenario 1 by increasing the Holyrood TGS DAFOR to 20%.
- 5 ● **Scenario 3:** Varies from Scenario 1 by extending operation at the Holyrood TGS to
6 March 31, 2024.
- 7 ● **Scenario 4:** Varies from Scenario 2 by extending operation at the Holyrood TGS to
8 March 31, 2024.
- 9 ● **Scenario 5:** Assumes that the LIL will be available at a capacity of up to 312 MW for
10 January 2022 through June 2022 and available at full capacity thereafter. This case assumes a
11 DAFOR of 15% for the Holyrood TGS as well as the retirement of the Holyrood TGS, Hardwoods
12 GT, and Stephenville GT on March 31, 2023.
- 13 ● **Scenario 6:** Varies from Scenario 5 by increasing the Holyrood TGS DAFOR to 18%.
- 14 ● **Scenario 7:** Varies from Scenario 5 by increasing the Holyrood TGS DAFOR to 20%.
- 15 ● **Scenario 8:** Varies from Scenario 1 by assuming that the LIL is not available through the study
16 period (2022 through the end of 2025). The operation of Holyrood TGS, Hardwoods GT, and
17 Stephenville GT is extended through the study period at baseline FORs.
- 18 ● **Scenario 9:** Varies from Scenario 8 by increasing the Holyrood TGS DAFOR to 18%.
- 19 ● **Scenario 10:** Varies from Scenario 8 by increasing the Holyrood TGS DAFOR to 20%.
- 20 ● **Scenario 11:** Varies from Scenario 10 by including 50 MW of imports during the winter season.
- 21 ● **Scenario 12:** Varies from Scenario 10 by including 100 MW of imports during the winter season.

22 For Scenarios 8 to 12, it is assumed that the contract for capacity assistance with Vale is renewed for
23 each winter season in the study period.

24 For CBPP capacity assistance, the existing agreement is in place until spring 2023. In Scenarios 1 to 7,
25 this remains unchanged. In Scenarios 8 to 12, it is assumed that the CBPP capacity assistance remains in
26 place throughout the study period.

1 7.4.2 Expected Unserved Energy and Loss of Load Hours Analysis

2 Annual Assessment Results

3 Table 10 provides the annual LOLH, EUE, and Normalized EUE results. Note that the basis for comparison
 4 of results is Hydro’s existing LOLH criteria of not more than 2.8 hours per year. Hydro’s intends to
 5 migrate to its proposed criteria of 0.1 LOLE when the Muskrat Falls Project has been fully commissioned
 6 and thermal generation at Holyrood TGS, Hardwoods GT, and Stephenville GT has been retired.

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

LOLH (hours)	January to May 2022
Scenario 1: Full LIL 2022, Holyrood TGS DAFOR = 15%	0.02
Scenario 2: Full LIL 2022, Holyrood TGS DAFOR = 20%	0.04
Scenario 3: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 15%	0.02
Scenario 4: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 20%	0.04
Scenario 5: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 15%	0.11
Scenario 6: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 18%	0.15
Scenario 7: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 20%	0.21
Scenario 8: No LIL, Holyrood TGS DAFOR = 15%	1.28
Scenario 9: No LIL, Holyrood TGS DAFOR = 18%	1.97
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%	2.50
Scenario 11: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	1.28
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	0.66
EUE (MWh)	January to May 2022
Scenario 1: Full LIL 2022, Holyrood TGS DAFOR = 15%	1
Scenario 2: Full LIL 2022, Holyrood TGS DAFOR = 20%	2
Scenario 3: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 15%	1
Scenario 4: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 20%	2
Scenario 5: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 15%	5
Scenario 6: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 18%	8
Scenario 7: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 20%	10
Scenario 8: No LIL, Holyrood TGS DAFOR = 15%	68
Scenario 9: No LIL, Holyrood TGS DAFOR = 18%	109
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%	139
Scenario 11: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	66
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	32

Normalized EUE (ppm) ^{26,27}	2022
Scenario 1: Full LIL 2022, Holyrood TGS DAFOR = 15%	0.18
Scenario 2: Full LIL 2022, Holyrood TGS DAFOR = 20%	0.38
Scenario 3: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 15%	0.18
Scenario 4: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 20%	0.38
Scenario 5: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 15%	0.74
Scenario 6: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 18%	1.04
Scenario 7: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 20%	1.37
Scenario 8: No LIL, Holyrood TGS DAFOR = 15%	9.71
Scenario 9: No LIL, Holyrood TGS DAFOR = 18%	15.30
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%	19.58
Scenario 11: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	9.39
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	4.51

1 The results of Scenarios 1 through 7 indicate that the availability of the LIL, at partial or full capability,
 2 backed up by the Holyrood TGS mitigates the risk of lost load and unserved energy in the near term.

3 The results of Scenarios 8 through 10 indicate that if the LIL is unavailable during the winter operating
 4 season, both LOLH and EUE grow as the unavailability of the Holyrood TGS increases.

5 As demonstrated in Scenarios 11 and 12, imports over the Maritime Link could be used to mitigate the
 6 risk of generation shortfall in the event of a high degree of unreliability at the Holyrood TGS. An import
 7 of 50 MW in the on-peak hours from December to March would be sufficient to reduce the risk of
 8 generation shortfall to an acceptable level in the most onerous modelled scenario.

9 Since the filing of the October Winter Readiness Report,²⁸ the maintenance outage on Bay d’Espoir Unit
 10 5 has been extended to December 22, 2021 and an unplanned outage to Unit 2 at Holyrood TGS has
 11 resulted in that unit being unavailable until after the T2 transformer is replaced on December 21, 2021.
 12 Following its return to service, the unit will be derated to 150 MW. As discussed in the Section 7.1,
 13 Hydro considers varying degrees of unavailability for the Holyrood TGS from 15% to 20% and considers
 14 an unavailability of 2.06% for its hydraulic facilities. As such, the results presented do contemplate the

²⁶ Parts per million (“ppm”).

²⁷ Normalized EUE given here in parts per million and it represents lost load as a fraction of total system load. The North American Electric Reliability Corporation recommends system operators consider NEUE a reliability metric, but a single target threshold has not been set. Different jurisdictions use targets ranging from 10 to 30 ppm.

²⁸ “2021–2022 Winter Readiness Planning Report,” Newfoundland and Labrador Hydro, October 12, 2021.

1 potential for these units to be unavailable at times through the winter season. In real time, Hydro can
2 use deliveries over the LIL and seek imports to the degree required, should forecast loads indicate a
3 potential for impact to customers associated with the outages to these units.

4 **Monthly Assessment Results**

5 Table 11 provides analyses of LOLH and EUE for the winter operating season by month. The monthly
6 analyses provide additional detail that assists in examining the complexity of the changing power system
7 that would not necessarily be apparent from an analysis of the annual results only. Completing monthly
8 analyses allows for easier identification of changes in system behaviour. For example, if a system had a
9 change in forecast peak demand with no resultant change in annual LOLH or EUE, the monthly analysis
10 would indicate where differences in LOLH and EUE were anticipated, allowing for better understanding
11 of the drivers of the annual results. This type of analysis is used by utilities regulated by the North
12 American Electric Reliability Corporation to complement long-term reliability assessments.

13 In Scenarios 1 through 7, the availability of the LIL, at partial or full capability, backed up by the Holyrood
14 TGS in 2022, mitigates the risk of lost load and unserved energy.

15 In Scenarios 8 through 10, the LOLH and EUE remain high throughout the study period, and without
16 mitigation, indicate a relatively high probability of lost load on the system until the LIL is found fully
17 reliable.

18 As seen in Scenarios 11 and 12, the import of firm energy over the Maritime Link produces a significant
19 improvement in system reliability. This demonstrates that firm imports could mitigate the increased risk
20 of resource shortfalls if the LIL is delayed or if the Holyrood TGS or other generating assets were to
21 perform more poorly than expected.

Table 11: Monthly LOLH and EUE for 2021–2022²⁹

LOLH (hours)	Jan	Feb	Mar	Apr	May
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	0.02	0	0	0	0
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	0.03	0.01	0	0	0
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	0.02	0	0	0	0
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	0.03	0.01	0	0	0
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	0.08	0.02	0.01	0	0
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	0.12	0.02	0.01	0	0
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	0.16	0.03	0.02	0	0
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	0.93	0.24	0.11	0	0
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW Imports	1.41	0.38	0.18	0	0
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW Imports	1.75	0.50	0.24	0.01	0
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted Forecast	0.96	0.21	0.1	0.01	0
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted Forecast	0.50	0.11	0.04	0.01	0

EUE (MWh)	Jan	Feb	Mar	Apr	May
S1: Full LIL 2022, Holyrood TGS DAFOR = 15%	1	0	0	0	0
S2: Full LIL 2022, Holyrood TGS DAFOR = 20%	2	0	0	0	0
S3: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 15%	1	0	0	0	0
S4: Full LIL 2022, Holyrood TGS extended to March 31, 2024, DAFOR = 20%	2	0	0	0	0
S5: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 15%	4	1	0	0	0
S6: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 18%	6	1	1	0	0
S7: LIL at 312 MW to June 2022, Holyrood TGS DAFOR = 20%	8	1	1	0	0
S8: No LIL, Holyrood TGS DAFOR = 15%	52	11	5	0	0
S9: No LIL, Holyrood TGS DAFOR = 18%	82	19	8	0	0
S10: No LIL, Holyrood TGS DAFOR = 20%	104	24	11	0	0
S11: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	53	9	4	0	0
S12: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	25	5	2	0	0

1 8.0 Risk and Risk Mitigation

2 Hydro’s readiness planning for the 2021–2022 winter season is nearing completion. Several unplanned
3 events and related work activities have influenced Hydro’s work program, particularly in the past several
4 months. Hydro has adjusted its plans as necessary and anticipates all generation being available during
5 the week of December 20, 2021.

6 Potential system risks and associated mitigation plans are described in the following sections.

²⁹ Monthly results may not add up to annual results; this is due to rounding.

1 **8.1 Bay d’Espoir Operations**

2 Bay d’Espoir generation is expected to be fully available by December 22, 2021. Risks to winter readiness
3 and/or reliable operations are described in the following sections.

4 **8.1.1 Bay d’Espoir Unit 5 Return to Service**

5 As part of the Hydraulic Generation Refurbishment and Modernization projects, Hydro is completing a
6 unit overhaul and a generator rewind on Bay d’Espoir Unit 5 and a gate replacement for Intake 3 which
7 serves Units 5 and 6. The return to service of Bay d’Espoir Unit 5 following these capital works, originally
8 planned for October 22, 2021, is now expected to be December 22, 2021.

9 The overhaul of Unit 5 is progressing as planned, though commissioning activities remain on the critical
10 path for returning Unit 5 to service. Replacement of the gate for Intake 3 was completed in October
11 2021 and is now fully commissioned and returned to service.

12 The delay is associated with the generator rewind project and is due to: greater than anticipated effort
13 for the stator bar removal and stator cleaning; COVID-19 cases in the Bay d’Espoir region that impacted
14 the contractor’s work group; and damage to the stator during re-assembly of the unit that required
15 repair. Due to the existence of a compound injected into the stator core slots in the 1970s,³⁰ removal of
16 stator bars was difficult and the selected cleaning method was not entirely effective and had to be
17 supplemented with time-consuming manual cleaning. This delay was compounded by COVID-19 cases
18 resulting in some workers having to isolate. The night-shift was cancelled for three weeks until fully-
19 vaccinated replacement workers were sourced and mobilized. The contractor completed the generator
20 rewind on November 24, 2021 and Hydro commenced unit re-assembly. While lowering the rotor into
21 place on November 26, 2021, contact was made between the rotor and stator resulting in damage. The
22 damaged sections were repaired and re-assembly of the generator has resumed. Once completed, the
23 remaining unit overhaul and reassembly work will proceed, followed by commissioning and unit start-up
24 activities. The expected return to service for Unit 5 is December 22, 2021.

25 **8.1.2 Upper Salmon Corrective Maintenance**

26 During the 2021 planned annual PM checks in August 2021, a significant crack on 1 of 16 rotor rim
27 guidance blocks was discovered. The discovery of this crack prompted Hydro to expand its inspection

³⁰ As recommended by the original equipment manufacturer (“OEM”).

1 scope to include the use of non-destructive testing (“NDT”) methods to assess the remaining rim
2 guidance blocks. The results from this expanded inspection revealed that over 35% (6 of 16) of the rim
3 guidance blocks exhibited cracking.

4 In consultation with the OEM for the unit, it was determined the cracking is beyond repair and block
5 replacement was immediately required before the unit could be placed back into reliable service. With
6 35% of the blocks exhibiting cracking, the OEM recommended replacing all 16 blocks. The OEM
7 attributes the cause of this issue to a combination of an out-of-round stator and loose rotor rim.
8 Addressing this life extension work cannot be accommodated prior to the 2021–2022 winter season;
9 however, replacement of the blocks before the 2021–2022 winter season is considered a suitable
10 approach by the OEM to reduce the residual risk to an acceptable level for the 2021–2022 winter
11 season. The planned life extension work is expected to be carried out in 2022 to address the out-of-
12 round stator and loose rotor rim, subject to submission and approval by the Board. In combination with
13 the block replacement, the OEM also recommends implementing an NDT inspection program of the
14 blocks at 12-week intervals until life extension work is completed. Hydro has included this inspection
15 program in its activities moving forward.

16 Hydro has completed execution activities to replace the 16 rotor rim guidance blocks and the unit was
17 successfully returned to service on October 21, 2021.

18 Although Hydro has mitigated risk of failure to the extent possible in the near term, there is residual risk
19 that a failure could occur before further life extension work is executed. To offset the impact of an
20 unplanned outage Hydro is advancing procurement of long lead materials that would be required to
21 address potential failures in the near term.

22 **8.1.3 Bay d’Espoir Penstocks**

23 As a result of previous ruptures of the Bay d’Espoir Penstocks, with the most recent being September
24 2019, Hydro has continued to complete annual inspections of Bay d’Espoir Penstocks 1, 2, and 3 to
25 monitor penstock condition and ensure reliability in the short term.

26 Penstock 1 was inspected in the spring of 2021 and during the inspection, 31 indications of weld
27 deterioration were identified in 16 longitudinal weld seams over an approximately 200 foot span of the
28 penstock, with indications ranging in length from a couple of inches to 8 feet. The indications were
29 similar in condition to those discovered in recent years and were shallow in depth. Weld refurbishment

1 and final inspection was completed and the penstock returned to service. This discovery was not
2 unexpected given the known condition of the Bay d’Espoir Penstocks. Hydro will use the information
3 obtained through the inspection and refurbishment process to inform its long-term plan for the
4 penstocks; the details of Hydro’s long-term plan are expected to be filed with the Board in 2022.

5 The inspection for Penstock 2 was completed in June 2021 and did not identify any major defects or
6 areas of concern for the upcoming WR period. The inspection of Penstock 3 was completed in August
7 2021 and did not identify any major defect or areas of concern for the upcoming WR period.

8 Hydro has continued to take proactive measures to reduce downtime should another penstock leak
9 occur. Hydro has maintained its inventory of pre-rolled steel plate, consulted with third-party
10 contractors to confirm priority availability of local welding resources, and will mobilize an excavator to
11 the penstock area in December 2021 to avoid potential transportation issues during winter months
12 when the access roads can be snow covered and icy. Modifications to the Automatic Generator Control
13 application in Hydro’s Energy Management System, designed to limit the amount of rough zone
14 operation, have remained in place for Units 1 to 6 at Bay d’Espoir. The more prescriptive operating
15 regime has also remained in place for Units 1 and 2 given the history of Penstock 1. In this operating
16 regime, once dispatched, Unit 1 and 2 are limited to a minimum unit loading of 50 MW and are not
17 cycled or shut down as part of normal system operations.

18 Although Hydro has mitigated risk of failure to the extent possible, there is residual risk that a failure
19 could occur before further life extension work is executed. Hydro has estimated a 13- to 23-day repair
20 timeline, depending on circumstances, should a new failure occur.

21 **8.1.4 Bay d’Espoir Terminal Station Circuit Breaker Failures**

22 Since October 2018, Hydro has experienced four failures of 230 kV General Electric (“GE”) dead tank
23 circuit breakers at the Bay d’Espoir Terminal Station.³¹

24 Hydro has developed plans to minimize outage duration in the event of another failure by ensuring the
25 availability of spare breakers and spare breaker phases. In the event of a failure, the associated outage
26 duration to complete repairs is estimated to be two to three days. Hydro has also implemented new

³¹ “Bay d’Espoir Terminal Station General Electric Dead Tank Circuit Breaker Failure Report,” Newfoundland and Labrador Hydro, February 14, 2020, provided as part of Hydro’s further update to its 2019–2020 Winter Readiness Planning Report.

1 generator operating instructions supplemented with additional breaker protection to reduce the risk of
2 failure. Hydro has developed a plan for replacement of the five GE generator breakers installed at Bay
3 d’Espoir, with one planned for 2022, two replacements planned in 2023, and the final two replacements
4 planned for 2024.

5 **8.2 Holyrood Thermal Generating Station Operations**

6 Holyrood TGS Units 1 and 3 are on-line and fully available. Unit 2 remains offline awaiting replacement
7 of its main output transformer (T2) which failed on November 12, 2021. Replacement of T2 is scheduled
8 for completion on December 21, 2021 after which time Unit 2 will be brought online at a maximum
9 output of 150 MW.³² Further information is provided in the following sections.

10 **8.2.1 Unit 3 Return to Service**

11 On September 11, 2021, Hydro experienced a cold-side tube failure on the Unit 3 boiler. Hydro worked
12 with the boiler contractor (GE), the original manufacturer (B&W), a metallurgy lab, and specialized NDT
13 companies to determine the cause of failure, identify any existing damage which could lead to additional
14 failures, and to remove all such damage. This work has been completed and the unit was returned to
15 service on November 19, 2021. All start-up testing has been completed and this unit is fully available.

16 **8.2.2 Variable Frequency Drives**

17 Variable frequency drives (“VFD”) on the Holyrood TGS units’ forced draft fans continue to present a risk
18 for forced outages. In September 2021, just after completion of the annual PM program by the OEM
19 (Siemens) service technician, 9 out of 24 VFD power cells on Unit 3 failed (each drive utilizes 4 power
20 cells per phase and a failure of 2 cells on the same phase will cause the drive to trip). Global shortages of
21 micro-chips and other electronic components as a result of the COVID-19 pandemic could delay
22 turnaround time for up to a year for some of these cells. As a result of these concerns, Hydro has taken
23 necessary steps with respect to VFDs to ensure readiness for the coming winter season. All remaining
24 spare stock (5 cells) have been purchased from Siemens, a third-party company was brought to site to
25 refurbish failed cells using their stockpile of components, and the VFDs on Unit 3 have been bypassed to
26 remove them from service. These actions eliminate the VFD risk on Unit 3 and provide additional spare
27 components to mitigate risk on the other two units. Hydro is confident that there will be sufficient spare
28 power cells to ensure reliable operation during the coming winter.

³² The replacement transformer limits output from Unit 2 to 150 MW.

8.2.3 Unit 1 Cold Reheat Piping Incident

On October 21, 2021, during commissioning of the Unit 1 turbine upon completion of the major turbine overhaul, there was an incident that caused sudden and significant movement of the cold reheat piping that runs from the turbine to the re-heater inlet section of the boiler. The event caused damage to some pipe supports. An investigation into the cause of the failure has been completed. It was shown that water leaked into the cold reheat piping through the cold reheat spray attenuator, which is a system that uses boiler feedwater to control reheat steam temperature. Accumulation of water in the piping led to the water hammer event that occurred during start-up. Remedial work to inspect and restore the piping system was completed on November 29, 2021 under guidance from the turbine and boiler OEMs and third-party consultants. Failed pipe hangers have been replaced and the piping, boiler, and turbine are cleared for return to service. Unit 1 was returned to service on December 3, 2021 and made available at full capacity on December 4, 2021. A turbine balancing engineer and a turbine start-up engineer, both from GE, were on site to complete the commissioning of the unit that was not completed during the initial start-up prior to October 21, 2021.

8.2.4 Holyrood T2 Transformer Replacement

As communicated to the Board on November 19, 2021,³³ the Holyrood TGS T2 transformer failed on November 12, 2021 causing Unit 2 to trip offline. A follow up internal inspection by the OEM (PTI Transformers LP) on November 17, 2021 indicated there was a failed high-voltage winding that could not be repaired on site. Immediately following this inspection a decision was made to replace the failed transformer with an available spare transformer. To expedite the project, a project team was assembled with a dedicated project manager with support from internal Hydro Engineers and operations field staff. The OEM of the spare transformer (Hitachi Energy) was retained to provide both engineering and field services support, including specialized heavy hauling equipment from out of province, to remove the failed transformer and place it in a temporary location and relocate the spare transformer to the Holyrood TGS T2 position. All transformer disassembly, reassembly, oil filling, and testing will also be completed by the OEM or its subcontractor.

³³ “Holyrood Thermal Generating Station Unit 2 Transformer Failure – Allowance for Unforeseen Items Notification,” Newfoundland and Labrador Hydro, November 19, 2021.

1 The original planned in-service date for the spare transformer installation was December 17, 2021;³⁴
2 however, due to severe weather on the west coast, related delays, and cancellation of ferry crossings,
3 the shipment of the heavy hauler was delayed by approximately six days. With some of the heavy hauler
4 crew arriving prior to the heavy hauler equipment itself, the crew with support from Hydro was able to
5 move both the spare transformer and the failed transformer to a location that would be easily
6 accessible for the heavy hauler. This work is expected to recover two days of the delay and the new
7 expected in service date will be December 21, 2021. Hydro is reviewing the remaining work with the
8 OEM, its subcontractor, and internal forces to identify areas where extended shifts will be of benefit
9 and, where opportunities are identified to improve the schedule, Hydro will do so.

10 Hydro is also completing an investigation into the cause of the failure and as of the date of filing of this
11 report a root cause has yet to be determined. Hydro is also evaluating the need, and options, for a spare
12 for the failed Holyrood TGS T2 transformer.

13 Upon replacement of the transformer, Holyrood TGS personnel will return Unit 2 to service. The spare
14 transformer limits output from Unit 2 to 150 MW.

15 **8.2.5 Tank 1 Retirement**

16 On December 31, 2021, fuel oil storage tank #1 will be removed from service as planned.³⁵ This decision
17 was made in consideration of the expected reduction in load demand from Holyrood TGS resulting from
18 LIL and Muskrat Falls operation starting in the winter of 2021–2022, and with the understanding that
19 three tanks would be sufficient to support Holyrood TGS operation of all three units if required, with
20 some increase in risk. With uncertainty around the reliability of power through the LIL, the risk of
21 operating with three tanks at Holyrood has increased. Hydro is planning to carefully manage fuel
22 inventory and tanker scheduling to ensure an adequate fuel inventory is maintained and that adequate
23 storage is available to receive scheduled tanker deliveries through the winter. Deliveries may be
24 required more frequently, and smaller tankers may be required to maintain the fuel inventory. Incurring
25 demurrage costs may also be necessary and will be considered as needed.

³⁴ "Holyrood Thermal Generating station Unit 2 Transformer Failure – Allowance for Unforeseen Items Notification – Cost and Schedule," Newfoundland and Labrador Hydro, November 24, 2021.

³⁵ "Reliability and Resource Adequacy Study 2020 Update, Volume II: Near-Term Reliability Report," Newfoundland and Labrador Hydro, November 18, 2020, app. A, p. A-3/8.

1 With the potential for schedule impacts due to poor weather and sea ice and a new fuel service provider
2 in place for this winter, Hydro will work closely with the fuel service provider to ensure the safe and
3 reliable delivery of fuel.

4 To ensure the condition of the fuel oil delivery and storage equipment Hydro has completed an
5 inspection of the three remaining tanks, in 2021, with no concerns identified, and completed upgrades
6 to the piping delivery system, marine terminal, and loading arms. Pilings and jetty condition were also
7 assessed as part of the life Extension Condition Assessment project, with no concerns noted.

8 **8.3 Muskrat Falls to Happy Valley Interconnection Project**

9 In its previous Winter Readiness Planning Report,³⁶ Hydro advised that, while efforts to ensure the
10 integration and reliability of Muskrat Falls generating units were ongoing, the units had not been
11 available to the extent required to support the interconnected system in eastern Labrador. Due to the
12 customer impact and the 12-hour outage requirement for work associated with the interconnection,
13 Hydro determined the risk of completing such work in such close proximity to the winter period was
14 unacceptable. As such, on October 28, 2021, Hydro filed correspondence³⁷ advising that the most
15 appropriate course of action for customers, at that time, was to postpone the interconnection until the
16 summer of 2022. However, Hydro did list proceeding with the interconnection as a contingency option
17 in certain circumstances.

18 Following the decision to postpone the interconnection, on November 25, 2021, Hydro experienced an
19 unplanned outage to customers in Labrador East due to severe weather and ice accumulation resulting
20 in a fault on the L1301 transmission line and loss of supply from Churchill Falls.³⁸ Hydro was not able to
21 identify the location of the fault on the day of the incident due to poor weather conditions and
22 challenging terrain. Given the uncertain timeline to restore customers utilizing L1301, and completion of
23 commissioning of all Muskrat Falls generating units, Hydro decided to prepare to complete the
24 interconnection to restore power to customers. At 23:06 hours (AST) on November 26, 2021, power was
25 restored to Labrador East customers via the Muskrat Falls to Happy Valley interconnection.

³⁶ “2021–2022 Winter Readiness Planning Report,” Newfoundland and Labrador Hydro, October 12, 2021.

³⁷ “Muskrat Falls to Happy Valley Interconnection Update and Labrador East Reliability Plan Winter 2021–2022,” Newfoundland and Labrador Hydro, October 28, 2021.

³⁸ Power Outage and Incident Advisory Report 2021-H-014-a, filed November 29, 2021.

1 Hydro determined on November 27, 2021, that a broken structure and broken conductor on L1301
2 caused the fault. Repairs are underway to make L1301 available in the event of unforeseen issues with
3 the interconnection. Repairs are expected to be complete by December 13, 2021.

4 Further information will be provided in Hydro’s monthly Labrador East Reliability Plan Update to be filed
5 in Hydro’s December monthly update.

6 **9.0 Conclusion**

7 Hydro is confident in its ability to serve its customers during the 2021–2022 winter season. The results
8 of Hydro's review of the year-to-date planned completion status of its AWP for both the Labrador
9 Interconnected System and Island Interconnected System indicate that Hydro is well positioned for
10 winter.

11 With the exception of Bay d’Espoir Unit 5 and Holyrood TGS Unit 2, primary generation sources are fully
12 available. Bay d’Espoir Unit 5 is expected to return to service on December 22, 2021. Holyrood TGS Unit
13 2 is expected to return to service following replacement of the T2 transformer which is scheduled for
14 completion on December 21, 2021. Hydro can use deliveries over the LIL and seek imports to the degree
15 required, should forecast loads indicate a potential for impact to customers associated with the
16 extended outages of these units.

17 Outstanding WR activities for Holyrood TGS Unit 1, Unit 3, and Balance of Plant were completed during
18 the week of December 6, 2021. All planned WR activities for transmission and terminal stations are
19 complete and Hydro has successfully completed the Muskrat Falls to Happy Valley Interconnection to
20 provide service to its Labrador East customers. Hydro will provide its monthly Labrador East Reliability
21 Plan Update to the Board on December 17, 2021.

22 With respect to capital projects, the Bay d’Espoir Unit 5 rewind and overhaul projects are scheduled for
23 completion by December 22, 2021. The two outstanding capital spares are expected to be delivered on
24 December 13, 2021 and December 17, 2021. The remaining nine capital projects with WR scope were
25 completed by December 1, 2021.

26 Hydro continues to track remaining work activities and will provide an update to the Board in January
27 2022.



Appendix A

Status of Capital Projects Related to Winter Readiness



Status of Winter Readiness Scope in 2021 Capital Projects on the Island and Labrador Interconnected Systems

Asset Category	Project Title	Expected Completion of Winter Readiness Scope (December 1, 2021 Update)
Hydraulic Generation	Paradise River – Overhaul Unit	Complete
Hydraulic Generation	Bay d'Espoir – Rewind Unit 5 Generator Stator	22-Dec-2021
Hydraulic Generation	Bay d'Espoir – Overhaul Unit 5	22-Dec-2021
Thermal Generation	Holyrood – Rewind Unit 3 Stator	Complete
Thermal Generation	Holyrood – Boiler Condition Assessment and Miscellaneous Upgrades	Complete
Thermal Generation	Holyrood – Overhaul Unit 1 Turbine and Valves	Complete
Thermal Generation	Holyrood – Overhaul Unit 3 Boiler Feed Pump East	Complete
Thermal Generation	Holyrood – Overhaul Unit 1 Boiler Feed Pump East	13-Dec-2021
Gas Turbine Generation	Gas Turbines – Purchase Capital Spares	17-Dec-2021
Terminal Stations	Various Terminal Stations – Replace Insulators	Complete
Terminal Stations	Wabush Terminal Station – Refurbish Station	Complete
Terminal Stations	Various Terminal Stations – Replace Disconnect Switches	Complete
Terminal Stations	Various Terminals Stations – Replace Instrument Transformers	Complete



Appendix B

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



Holyrood Thermal Generating Station
Winter Readiness Testing

30-Nov-21

Status of Test		
Unit 1	Unit 2	Unit 3

Plant: Holyrood Operations		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	Y	Y	Y	N/A
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season	N/A	N/A	N/A	N/A	Y
Perform Megger Testing of 600 V Motors Prior to the Winter Operating Season	Y	Y	Y	Y	N/A

Safety		Unit 1	Unit 2	Unit 3	Balance of Plant
Boiler Service Pressure Test Performed as Required by Regulator	Y	Y	Y	Y	N/A
Safety Valves Testing as Required (Post Start-Up)	S/U	Y	Y	Y	N/A
Boiler Operational Off-Line High/Low Drum Level Trip Tests	Y	Y	Y	Y	N/A
H ₂ Emergency Venting Valving	Y	Y	Y	Y	N/A
Breaker and Disconnect Operation Verified by Operations Department and Whitbourne Crew	Y	Y	Y	Y	N/A

Service Air and Instrument Air Systems		Unit 1	Unit 2	Unit 3	Balance of Plant
All Stationary Air Compressors Available	N/A	N/A	N/A	N/A	Y
All Portable Air Compressors Available	N/A	N/A	N/A	N/A	N/A
Air Compressor Operational Checks Performed (e.g. Oil Levels, Cooling Water, etc.)	N/A	N/A	N/A	N/A	Y
Air Compressor Standby/Sequencing Capability	N/A	N/A	N/A	N/A	Y

Raw and Makeup Water System		Unit 1	Unit 2	Unit 3	Balance of Plant
Quarry Brook Dam Integrity	N/A	N/A	N/A	N/A	Y
Raw Water Sump Water Supply Control Valve Operational	N/A	N/A	N/A	N/A	Y
Raw Water Pumps Operational	N/A	N/A	N/A	N/A	Y
Adequate Supply of Chemicals (1172, 1179, Polymer, etc.)	N/A	N/A	N/A	N/A	Y
1172, 1179, Polymer Injection Pumping Sets, Pumps, Valves, Lines, Agitators, etc. Operational	N/A	N/A	N/A	N/A	Y
Portable Diesel Pump Check of Emergency Plant Water Supply from Quarry Brook Dam	N/A	N/A	N/A	N/A	Y
Adequate and Readily Available Supply of Hoses for the Portable Diesel Pump from Quarry Brook Dam to Plant	N/A	N/A	N/A	N/A	Y

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

30-Nov-21

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

Raw and Makeup Water System and Water Treatment Plant				
Instrumentation and Controls Operational	N/A	N/A	N/A	Y
Analytical Rack Sample Cooler Filters Cleaned/Replaced as Required	N/A	N/A	N/A	Y
Analytical Rack Sample Coolers Cooling Water In Service	N/A	N/A	N/A	Y
Two Sample Cooling Water Pumps Availability	N/A	N/A	N/A	Y

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

Sand Filters				
Sand Filters (Nos. 1, 2 and 3) Resin Integrity	N/A	N/A	N/A	Y
Sand Filters (Nos. 1, 2 and 3) Valve Operation (Normal and Backwashing, etc.)	N/A	N/A	N/A	Y
Two Clearwell Pumps Available	N/A	N/A	N/A	Y

Deminerlization System				
Cation and Anion Trains (A, B and C) Resin Integrity	N/A	N/A	N/A	Y
Adequate Supply of Chemicals (Caustic Soda, Sulphuric Acid, 1172, 1179, Polymer, etc.)	N/A	N/A	N/A	Y
Sulphuric Acid and Caustic Soda Transfer Pumps, Valves, Lines, etc.	N/A	N/A	N/A	Y
Sulphuric Acid and Caustic Soda Regeneration Sets, Pumps, Valves, Lines, etc.	N/A	N/A	N/A	Y
Caustic Injection Pumping Sets, Pumps, Valves, Lines, Agitators, etc.	N/A	N/A	N/A	Y
Brine Injection Pumping Sets, Pumps, Valves, Lines, Agitators, etc.	N/A	N/A	N/A	Y

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

30-Nov-21

	Status of Test		
	Unit 1	Unit 2	Unit 3

Balance of Plant			
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Reserve Feedwater System ("RFW")	Unit 1	Unit 2	Unit 3	Balance of Plant
RFW Transfer Pump Oil Normal Operating Level	Y	Y	Y	N/A
RFW Transfer Pumps Operational	Y	Y	Y	N/A

Circulating Water ("CW") and Screen Wash System	Unit 1	Unit 2	Unit 3	Balance of Plant
Vacuum Seal Pits Operational	Y	Y	Y	N/A
All CW Travelling Screens Operational	Y	Y	Y	N/A
CW Pump Motorized Discharge Valves 'Manual' and 'Auto', 'Cracked' Position Operation Verified	Y	Y	Y	N/A
CW Pump Motors Oil Normal Operating Level	Y	Y	Y	N/A
CW Pumps Operational	Y	Y	Y	N/A
CW Pump Discharge Vacuum Breakers Operational	Y	Y	Y	N/A
CW Travelling Screens Wash Pumps Operational	Y	Y	Y	N/A
Condenser Flushed	Y	Y	Y	N/A
Condenser Backwashed	Y	Y	Y	N/A
General Service ("GS") Coolers Backwashed, Cleaned, etc.	Y	Y	Y	N/A
Turbine/Generator ("TG") Coolers Backwashed, Cleaned, etc.	Y	Y	Y	N/A
Vacuum Pump Coolers Backwashed, Cleaned, etc.	Y	Y	Y	N/A

Boiler	Unit 1	Unit 2	Unit 3	Balance of Plant
Pre-Outlet Valve Survey Conducted of Boiler Drains	Y	Y	Y	N/A
Service Pressure Test on Boiler for Tube Leaks	Y	Y	Y	N/A

Condenser Air Extraction System	Unit 1	Unit 2	Unit 3	Balance of Plant
Vacuum Pumps Available and tested for Standby 'Auto-Start'	Y	Y	Y	N/A
Vacuum Pump Seal Water Tank Water Level Controller Operational	Y	Y	Y	N/A
Vacuum Pump Seal Water Pump Operational	Y	Y	Y	N/A
Condenser Vacuum Breakers Operational	Y	Y	Y	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-Nov-21

Status of Test		
Unit 1	Unit 2	Unit 3

	Status of Test		
	Unit 1	Unit 2	Unit 3
High Pressure ("HP") Feedwater System			
Boiler Feed Pumps			
Boiler Feed Pumps Available	Y	Y	Y
Boiler Feed Pump Oil Tank Normal Operating Level and Checked for Moisture Content	Y	Y	Y
Boiler Feed Pump Auxiliary Oil Pumps Available	Y	Y	Y
Boiler Feed Pump Suction Valves and Limit Switches	Y	Y	Y
Boiler Feed Pump Emergency Gland Seal Injection Pump Available	Y	Y	Y
Boiler Feed Pump Emergency Gland Seal Pump Oil Normal Operating Level	Y	Y	Y
Boiler Feed Pump Gland Seal Water Available from the Emergency Pump and Condensate Extraction Pumps	Y	Y	Y
Boiler Feed Pump Gland Seal Water Control Valve Operational	Y	Y	Y
Boiler Feed Pump Gland Seal Water Drains Tank Level Float Operated Valve Operational (Units 1 and 2)	Y	Y	Y
Boiler Feed Pump Gland Seal Water Transfer Pumps Operational (Units 1 and 2)	Y	Y	Y
Boiler Feed Pump Gland Seal Water Drains Tank Level Control Valve Operational (Unit 3)	N/A	N/A	Y
Boiler Feed Pump Gland Seal Water Transfer Pumps Operational (Unit 3)	N/A	N/A	Y
Boiler Feed Pump Recirculation Control Valves Operational	Y	Y	Y
Boiler Feed Pump Motorized Discharge Pilot and Main Valves Operational	Y	Y	Y
Low Load Feedwater Isolator and Control Valves Operational	Y	Y	Y
Main Feedwater Isolator and Control Valves Operational	Y	Y	Y
HP Heater Motorized Valves (Inlet, Outlet and Bypass) checked for Proper Operation, Sequencing, etc.	Y	Y	Y

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

30-Nov-21

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

Miscellaneous	Unit 1	Unit 2	Unit 3	Balance of Plant
Economizer 'Manual' Operated Valve Operational	Y	Y	Y	N/A
Economizer Motorized Recirculation Valve Operational (Unit 3)	N/A	N/A	Y	N/A
Boiler Drum Level Instrumentation Operational	Y	Y	Y	N/A
HP Heater Bled Steam Check Valves Operational	Y	Y	Y	N/A
Start-up Desuperheater Steam and Water Valving Operation/Position Verified	Y	Y	Y	N/A
Main Steam and Reheat Steam Desuperheater Spray Water Isolators and Control Valves Operational	Y	Y	Y	N/A
Auxiliary Steam Desuperheater Spray Water Control Valve Operational	Y	Y	Y	N/A

Low Pressure ("LP") Feedwater System	Unit 1	Unit 2	Unit 3	Balance of Plant
Condenser				
Condenser Hotwell Make-Up/Surplus Control Valves Operation Verified	Y	Y	Y	N/A
Condenser Hotwell Make-Up Motorized Isolating Valve Operation Verified	Y	Y	Y	N/A
Condenser Dye Test for Leaks, as Required	Y	Y	Y	N/A

Ammonia and Control System	Unit 1	Unit 2	Unit 3	Balance of Plant
Adequate Supply in Place	N/A	N/A	N/A	Y
Pumps Operational	N/A	N/A	N/A	Y
Control Instrumentation Operational	N/A	N/A	N/A	Y

Condensate Extraction Pumps	Unit 1	Unit 2	Unit 3	Balance of Plant
Condensate Extraction Pumps Available	Y	Y	Y	N/A
Condensate Extraction Pump Motors Bearing Oil Normal Operating Level	Y	Y	Y	N/A
Condensate Extraction Pump Motor Cooling Water Available (Unit 3)	N/A	N/A	Y	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-Nov-21

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

Condensate Polishers	Unit 1	Unit 2	Unit 3	Balance of Plant
Resin Integrity Verified	Y	Y	Y	N/A
Two Polishers Rinsed and Available	Y	Y	Y	N/A
Valve Operation (Normal and Regenerating, etc.)	Y	Y	Y	N/A
Regeneration System Skids Available (Valving, Pumps, Blowers, Tanks, etc.)	Y	Y	Y	N/A
Condensate Polisher Bypass Control Valve Operational	Y	Y	Y	N/A

Low Pressure Heaters	Unit 1	Unit 2	Unit 3	Balance of Plant
Low Load Recirculation Control Valve Operation	Y	Y	Y	N/A

Deaerator	Unit 1	Unit 2	Unit 3	Balance of Plant
Deaerator Normal Operating Level	Y	Y	Y	N/A
Deaerator Steam Coil Operational	Y	Y	Y	N/A
Deaerator Pegging Steam Operational	Y	Y	Y	N/A
Deaerator Low Level Trip Test	Y	Y	Y	N/A

Miscellaneous	Unit 1	Unit 2	Unit 3	Balance of Plant
Condenser Flash Tank Control Valve Operation/Position	Y	Y	Y	N/A
Turbine Low Pressure Exhaust Hood Spray Motorized Valve Operation	Y	Y	Y	N/A
Start-Up Desuperheater Steam and Water Valving Operational (Units 1 and 2)	Y	Y	Y	N/A
LP Heater Bled Steam Check Valves Operational	Y	Y	Y	N/A

Bled Steam and Heater Drains System	Unit 1	Unit 2	Unit 3	Balance of Plant
LP and HP Instrumentation and Control Operational	Y	Y	Y	N/A
LP and HP Heater Level Control Operational	Y	Y	Y	N/A
LP Heater Condensate Drains Pumps Operational		Y		N/A
#4 HP Heater Condensate Drains Pump Operational	Y	Y	Y	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-Nov-21

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

Light Fuel Oil System	Unit 1	Unit 2	Unit 3	Balance of Plant
Hydro Pad Operational	N/A	N/A	N/A	N/A
Light Oil Pumps Available	Y	Y	Y	N/A
Pumps, Valves (Including Control and Trip), Lines, Strainers, Pressure (Locally and UCB)	Y	Y	Y	N/A
Check Light Oil Supply and Return Lines to/from Plant Respectively	N/A	N/A	N/A	Y
Suction Strainers Cleaned with Covers Secured	Y	Y	Y	N/A
Ignitors Cleaned, Securely in Place with Associated Lines Securely Fastened	Y	Y	Y	N/A
Ignitors all Checked for Operation During Unit Start-Up (e.g. Ignitor Control Box, Valve Operation, Lighting, etc.)	Y	Y	Y	N/A

Fuel Oil Delivery System, Auxiliary Steam and Fuel Oil Piping System	Unit 1	Unit 2	Unit 3	Balance of Plant
Adequate Heavy Oil Storage	N/A	N/A	N/A	Y
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	Y
Adequate Light Oil Storage	N/A	N/A	N/A	Y
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	Y
All Storage Tanks Suction Heaters Available when Required	N/A	N/A	N/A	Y
All Storage Tanks Platform Heaters Available when Required	N/A	N/A	N/A	N/A
Auxiliary Steam for Suction Heaters Available	N/A	N/A	N/A	Y
Auxiliary Steam for Platform Heaters Available	N/A	N/A	N/A	N/A
Auxiliary Steam for Heat Tracing Available	N/A	N/A	N/A	Y
Electrical Heat Tracing for Fuel Oil Lines Available	N/A	N/A	N/A	Y
Day Tank Supply Line Trip Valve Tested	N/A	N/A	N/A	Y
Day Tank Available to Receive Oil	N/A	N/A	N/A	Y
Day Tank Steam Coil Available	N/A	N/A	N/A	Y

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

30-Nov-21

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

Fuel (Heavy) Oil System	Unit 1	Unit 2	Unit 3	Balance of Plant
Fuel Oil Heating Sets	Y	Y	Y	N/A
Fuel Oil Heaters Available	Y	Y	Y	N/A
Fuel Oil Heaters Cleaned and Inspected	Y	Y	Y	N/A
Steam Supply to Heavy Oil Set Heaters Available as Required	Y	Y	Y	N/A
Fuel Oil Heaters Temperature Steam Control Valve Operational	Y	Y	Y	N/A
Suction Strainers Cleaned (Including Standby and Extras) with Covers Secured	Y	Y	Y	N/A
Fuel Oil Accumulator Operational	Y	S/U	Y	N/A
Fuel Oil Pumps Available	Y	Y	Y	N/A
Pumps 'Auto-Start' Check Offline	Y	Y	Y	N/A
Header Pressure Control Valve Operational	Y	Y	Y	N/A
Fuel Oil Meter Operational	Y	Y	Y	N/A

Fuel Oil Supply Control, Trip, Long and Short Recirculation Valves	Unit 1	Unit 2	Unit 3	Balance of Plant
Fuel Oil Supply Control Valve Operational	Y	Y	Y	N/A
Fuel Oil Trip Valve Operational	Y	Y	Y	N/A
Fuel Oil Long Recirculation Valve Operational (Units 1 and 2)	Y	Y	N/A	N/A
Fuel Oil Short Recirculation Valve Operational (Units 1 and 2)	Y	Y	N/A	N/A
Elevation Fuel Oil Trip Valves Operational (Unit 3)	N/A	N/A	Y	N/A
Elevation Fuel Oil Minimum Supply Control Valves Operational (Unit 3)	N/A	N/A	Y	N/A
Elevation Fuel Oil Supply Control Valves Operational (Unit 3)	N/A	N/A	Y	N/A
Main Fuel Oil Recirculation Valve Operational (Unit 3)	N/A	N/A	Y	N/A
Elevation Recirculation Valves Operational (Unit 3)	N/A	N/A	Y	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-Nov-21

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

Unit 1	Unit 2	Unit 3	Balance of Plant
Burners			
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	N/A	N/A

Fuel Additive System:			
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	Y	N/A

GS System			
Y	Y	Y	N/A
Y	Y	N/A	N/A
Y	Y	N/A	N/A
Y	Y	N/A	N/A
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	Y	N/A

TG Auxiliary Cooling System			
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	Y	N/A
Y	Y	Y	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-Nov-21

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

TG System	Unit 1	Unit 2	Unit 3	Balance of Plant
Hydraulic System Units 1 and 2				
Hydraulic System Accumulators Operational	Y	Y	N/A	N/A
Hydraulic System Storage Tank Normal Operating Level and Checked for Moisture Content	Y	Y	N/A	N/A
Hydraulic System Storage Tank Air Purging of Moisture in Place	Y	Y	N/A	N/A
Hydraulic Set Primary, Secondary Filter Indications Ok	Y	Y	N/A	N/A
Two Hydraulic Fluid Pumps Availability	Y	Y	N/A	N/A
Hydraulic Pump Auto Start Testing	Y	Y	N/A	N/A
Two Hydraulic Fluid Pump Coolers Availability	Y	Y	N/A	N/A

Valves	Unit 1	Unit 2	Unit 3	Balance of Plant
Pre-Outlet Valve Survey Conducted of Boiler Drains	Y	Y	Y	N/A
Turbine Main Stop Valve Testing (Units 1 and 2)	S/U	Y	N/A	N/A
Turbine Two Main Stop Valves Testing (Unit 3)	N/A	N/A	Y	N/A
Turbine 'Left-Hand' and 'Right Hand' Reheat Stop and Intercept Control Valve Testing Verified	Y	Y	Y	N/A
Turbine Six Main Control Valve Operation (Units 1 and 2)	S/U	Y	N/A	N/A
Turbine Four Main Control Valve Operation (Unit 3)	N/A	N/A	Y	N/A
Turbine Blowdown Valve Operation	Y	Y	Y	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-Nov-21

Status of Test		
Unit 1	Unit 2	Unit 3

	Status of Test		
	Unit 1	Unit 2	Unit 3
Lubricating System			
Lube Oil Tank Normal Operating Level and Checked for Moisture Content	Y	Y	Y
Portable Centrifuge Operational	N/A	N/A	N/A
Lube Oil Tank Vapor Extractor Operation	Y	Y	Y
Bowser Oil Conditioner Vapor Extractor Operation (Units 1 and 2)	Y	Y	N/A
Two AC Lube Oil Pumps Available and Tested for Standby 'Auto-Start' (Units 1 and 2)	Y	Y	N/A
Direct Current ("DC") Pump Testing and Starting from UCB (Units 1 and 2)	Y	Y	N/A
Verify Discharge Pressure of Each AC Lube Oil Pumps (Locally and UCB) (Units 1 and 2)	Y	Y	N/A
Verify Discharge Pressure of DC Lube Oil Pump (Locally and UCB) (Units 1 and 2)	Y	Y	N/A
Jacking Oil Pump Testing and Starting from UCB (Unit 3)	N/A	N/A	Y
Verify Discharge Pressure of Jacking Oil Pump (Locally and UCB)	N/A	N/A	Y
Auxiliary Oil Pump ("AOP") Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	Y
Verify Discharge Pressure of AOP Pump (Locally and UCB) (Unit 3)	N/A	N/A	Y
AC Pump Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	Y
Verify Discharge Pressure of AC Flushing Oil Pump (Locally and UCB) (Unit 3)	N/A	N/A	Y
DC Pump Testing and Starting from UCB and Turbine Lube Oil Tank (Unit 3)	N/A	N/A	Y
Verify Discharge Pressure of DC Flushing Oil Pump (Locally and UCB) (Unit 3)	N/A	N/A	Y

Barring/Turning Gear			
Turning Gear Operation Verified	Y	Y	Y
Perform Trip Test of Turning Gear	Y	Y	Y

Miscellaneous			
Steam Seal Regulator Operational	Y	Y	Y
Operational Online/Offline Overspeed Trip Tests	Y	Y	Y

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

30-Nov-21

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

Hydrogen ("H ₂ ") and Carbon Dioxide ("CO ₂ ") System	Unit 1	Unit 2	Unit 3	Balance of Plant
H ₂ Generation and Storage System				
System in Operation	N/A	N/A	N/A	N/A
Electrolyzer/H ₂ 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

H ₂ and CO ₂ Bulk Packs	Unit 1	Unit 2	Unit 3	Balance of Plant
Adequate H ₂ Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	Y
CO ₂ Adequate Bulk Packs on Hand	N/A	N/A	N/A	Y

Generator	Unit 1	Unit 2	Unit 3	Balance of Plant
Generator Exciter Operation Checked Off- and On-Line	Y	Y	Y	N/A
Seal Oil System Tested with 'Air' on Generator in Preparation for Leak Testing	Y	Y	Y	N/A
Seal Oil Regulator Operational	Y	Y	Y	N/A
AC Seal Oil Pumps Available and Tested for Standby 'Auto-Start' (Units 1 and 2)	Y	Y	N/A	N/A
AC Seal Oil Pump Available (Unit 3)	N/A	N/A	Y	N/A
DC Seal Oil Pump Available and Tested for Standby 'Auto-Start'	Y	Y	Y	N/A
Seal Oil Vacuum Pumps Available			Y	N/A
Vacuum Tank Level Control Operational	Y	Y	Y	N/A
H ₂ System in Operation and/or Adequate Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	Y
CO ₂ Adequate Bulk Packs on Hand	N/A	N/A	N/A	Y
Leak Testing Performed Prior to 'Gassing Up' Generator	Y	Y	Y	N/A
Purity, Dew Point, etc. Instrumentation Operation Verified	Y	Y	Y	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-Nov-21

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

Powerhouse and Switchyard Single Line				
Plant 129V System				
129V Battery Banks Checked Stage I and II	Y	N/A	Y	N/A
129V Battery Chargers Checked Stage I and II	Y	N/A	Y	N/A
Plant 258V System				
258V Battery Banks Checked Stage I and II	Y	N/A	Y	N/A
258V Battery Chargers Checked Stage I and II	Y	N/A	Y	N/A
Plant Uninterrupted Power Supplies ("UPS")				
Number's 1, 2, 3 and 4 UPS including Batteries, Cooling Fans, etc., Checked	Y	Y	Y	N/A
Emergency Diesel Generators				
Stage I Emergency Diesel Generators Tested for Emergency Stop	N/A	N/A	N/A	Y
Stage I 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	Y
Diesel Bus Tie Breaker Operation Verified	N/A	N/A	N/A	Y
Fire Protection System				
All Fire Protection Zones in Service	N/A	N/A	N/A	S/U
Fire Control/Alarm Panel Status	N/A	N/A	N/A	Y
Fire Alarm Beacons Operational	N/A	N/A	N/A	Y
Diesel Fire Pump Checked for 'Manual' and 'Auto' Start, etc.	N/A	N/A	N/A	Y
Diesel Fire Pump Controller, Charger and Battery Check	N/A	N/A	N/A	Y
Electric Fire Pump Checked for 'Manual' and 'Auto' Start, etc.	N/A	N/A	N/A	Y
Electric Fire Pump Controller Check	N/A	N/A	N/A	Y
Public Address System Status	N/A	N/A	N/A	Y

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-Nov-21

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	Y

Plant Air Conditioning System			
Control and Relay Rooms	N/A	N/A	Y
UPS #1 Room	N/A	N/A	Y
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	Y

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



Bay d'Espoir Hydroelectric Generating Facility

Status of Test						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7

<p>Following Annual Outages, Unit is Run Up, Synchronized and all Systems Verified Before Operating Status Determined, as per Energy Control Centre, Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at this Time.</p>	✓	✓	✓	✓	22-Dec	✓	N/A	N/A	N/A
<p>Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season. Station Service Transfers Alternate Sources.</p>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Spherical Valves										
Turbine Main Stop Valve Testing	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A
Turbine Main Stop Valve Operational	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A

Service Air and Instrument Air Systems Compressors										
All Stationary Air Compressors Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
Air Compressor Standby/Sequencing Capability/Lead Lag/Standby	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
High Pressure Compressors Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
Low Pressure Compressor Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
Instrumentation Control and Alarms Operational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓

Turbine/Generator ("TG") Cooling Water Systems										
Cooling Water Pumps Available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emergency Cooling Water Available Penstock Supply	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	✓
Cooling Water System Available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TG Pumps Available and Tested for Auto/Manual Start	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Seal System Available	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A
Cooling Water Pump Motorized Discharge Valves 'Manual & 'Auto', 'Cracked' Position Operation Verified. (Granite Canal/Hinds Lake)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rotary Strainer Inspected and Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TG Governor System										
Hydraulic System Accumulators Operational	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A
Governor System Testing	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A
Governor System Available	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A
Hydraulic Pump(s) Available	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A
Hydraulic Pump Gov Auto-Start Testing	✓	✓	✓	✓	22-Dec	✓	✓	✓	✓	N/A

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

✓ - Test completed

N/A - Not Applicable



Bay d'Espoir Hydroelectric Generating Facility

Status of Test							
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 2

Generator	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Generator Exciter Operation Checked Offline and Online	✓	✓	✓	✓	22-Dec	✓	✓	N/A	N/A
Generator Exciter Available	✓	✓	✓	✓	22-Dec	✓	✓	N/A	N/A

Lubricating System	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Portable Centrifuge Operational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portable Oil Pump (Jacking)	✓	✓	✓	✓	22-Dec	✓	N/A	N/A	N/A
Oil Level System Generator Metering Available	✓	✓	✓	✓	22-Dec	✓	✓	N/A	N/A
Oil Level System Turbine Metering Available	✓	✓	✓	✓	22-Dec	✓	✓	N/A	N/A
Alternating Current High Pressure Jacking Oil Pump Available Automatic	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A

Switchyard/Terminal Station	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Breakers and Disconnects Operational	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Breaker and Disconnect Operation Verified by Operations Department and Transmission and Rural Operations Bishops Falls	✓	✓	✓	✓	✓	✓	✓	N/A	N/A

Intake	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Water Elevation	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Trashrack System	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
Gate Operation	✓	✓	✓	✓	✓	✓	✓	N/A	N/A

Surge Tank	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Heating System	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
Alarm Systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Spillway	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Water Elevation	✓	✓	✓	✓	✓	✓	✓	✓	N/A
Gate Heating/Ice Away Unit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
Gate Operation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
Emergency (Backup) Diesel Generator	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

Battery Banks And Battery Chargers	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Balance of Plant Powerhouse 1	Balance of Plant Powerhouse 2
Plant 129 V System									
129 V Battery Banks Checked	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V Battery Chargers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
129 V Battery Banks Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

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	Balance of Plant Powerhouse	Unit 1	Balance of Plant	Unit 1	Balance of Plant	Unit 1	Balance of Plant	Unit 1	Balance of Plant
Following Annual Outages, Unit is Run Up, Synchronized and all Systems Verified Before Operating Status Determined, as per Energy Control Centre, Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at this Time.	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season. Station Service Transfers Alternate Sources.	N/A	N/A	Total Plant outage required, not possible during fall outage. Table top planned	N/A	N/A	N/A	Plant powered and run from diesel, partial sequence completed	N/A	✓	N/A	N/A
Spherical Valves											
Turbine Main Stop Valve Testing	✓	✓	N/A	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	N/A
Service Air and Instrument Air Systems Compressors											
Stationary Air Compressors Available	N/A	N/A	✓	N/A	✓	✓	✓	✓	✓	✓	✓
Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.)	N/A	N/A	✓	N/A	✓	✓	✓	✓	✓	✓	✓
Air Compressor Standby/ Sequencing Capability/Lead Lag/Standby	N/A	N/A	✓	N/A	✓	✓	✓	✓	✓	✓	✓
High Pressure Compressors Available	N/A	N/A	✓	N/A	✓	✓	✓	N/A	N/A	N/A	N/A
Low Pressure Compressor Available	N/A	N/A	✓	N/A	N/A	✓	✓	✓	✓	✓	✓
Instrumentation Control and Alarms Operational	N/A	N/A	✓	N/A	✓	✓	✓	✓	✓	✓	✓
Turbine/Generator ("TG") Cooling Water Systems											
Cooling Water Pumps Available	✓	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Emergency Cooling Water Available Penstock Supply	✓	✓	N/A	✓	N/A	✓	✓	✓	✓	✓	✓
Cooling Water System Available	✓	✓	N/A	✓	N/A	✓	✓	✓	✓	✓	✓
TG Pumps Available and Tested for Auto/Manual Start	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Seal System Available	N/A	N/A	N/A	✓	N/A	✓	✓	✓	✓	✓	✓
Cooling Water Pump Motorized Discharge Valves 'Manual' & 'Auto', 'Cracked' Position Operation Verified	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rotary (Water) Strainer	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
TG Governor System											
Hydraulic System Accumulators Operational	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Governor System Testing	✓	✓	N/A	✓	N/A	N/A	✓	N/A	✓	N/A	✓
Governor System Available	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Hydraulic Pump(s) Available	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Hydraulic Pump Gov Auto-Start Testing	✓	✓	N/A	✓	N/A	✓	N/A	N/A	✓	N/A	✓
Generator											
Generator Exciter Operation Checked Offline and Online	✓	✓	N/A	✓	N/A	N/A	✓	N/A	✓	N/A	✓
Lubricating System											
Portable Centrifuge Operational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portable Oil Pump (Jacking)	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil Level System Generator Metering	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Oil Level System Turbine Metering	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A
Alternating Current High Pressure Jacking Oil Pump Available Automatic	✓	✓	N/A	✓	N/A	✓	N/A	✓	N/A	N/A	N/A
Miscellaneous											
Breaker and Disconnect Operation Verified by Operations Department and Transmission and Rural Operations Crew	✓	✓	N/A	✓	✓	✓	N/A	✓	N/A	✓	N/A
Control Structure											
Water Elevation	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	✓
Intake											
Water Elevation	✓	✓	N/A	✓	N/A	N/A	✓	N/A	✓	N/A	✓
Trashrack System	✓	✓	N/A	✓	N/A	N/A	✓	N/A	✓	N/A	✓
Gate Operation	✓	✓	N/A	✓	N/A	N/A	✓	N/A	✓	N/A	✓
Spillway/Bypass											
Water Elevation	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	✓	N/A	✓
Gate Heating/Ice Away Unit	N/A	N/A	N/A	N/A	✓	N/A	✓	N/A	✓	N/A	✓
Gate Operation	N/A	N/A	N/A	N/A	✓	N/A	✓	N/A	✓	N/A	✓
Emergency (Backup) Diesel Generator	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	✓

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	Balance of Plant Powerhouse	Unit 1	Balance of Plant	Unit 1	Balance of Plant	Unit 1	Balance of Plant	Unit 1	Balance of Plant	
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	✓	
129 V Battery Chargers	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	✓	
Plant 48 V System (Network Services)												
48 V Battery Banks Checked	N/A	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	✓	
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	✓	
Alternate Alternating Current Sources Available	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	✓	
Transfer Alternate Source	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	✓	
Communications Rooms	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	✓	

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



Appendix E

Critical Spares Status Listing – Thermal Generation



Critical Spares - Thermal Generation

Inventory Status

In Stock
Non-Stock

Explanation

Stock quantity of '1' or more in warehouse inventory
Item is not stocked, '0' quantity in Warehouse, ordered as required.
See Notes column.
Quantity of '0' stock in warehouse, quantity of '1' or more on order or out for refurbishment. NOTE: Items may be listed as critical for

On Order

System		Asset			Critical Spare			Inventory Status
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 & 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 & Fuel Oil Piping	Valves	Day Tank Trip Valve	Actuator		ACTUATOR,BETTIS CB520		In Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Valves	Fuel Line Block Valve	16" Gate Valve		VALVE,GATE 16" NEWCO		In Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Valves	Day Tank Fill Line Control Valve	6" Control Valve		VALVE,CONTROL 6" FISHER		In Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Valves	Motorized Valves	Actuator		ACTUATOR,PNEU 1-B5W-5-LT		In Stock	
Hydrogen Generation and Storage	Tubing		1/2 " Valve		SOLENOID,VALVE ASCO 8316		In Stock	
Powerhouse and Switchyard Single Line	129V DC System	Charger	Tubing		TUBING,SS 1" OD X.083 316		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Control Unit		CONTROL UNIT,BATTERY CHG 129V		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2205C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2206C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3205C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3206C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2203C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2207C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2202C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2208C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3203C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3207C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3202C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3208C		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4003B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4004A		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4005B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4006B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4007B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4008B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4009B		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4010A		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4011A		VALVE,ITT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - PCV4071		VALVE,PRESS REGULATING		Non-Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Sodium Monitor	Non-Stock is OK since there are non critical uses for this TX which can be "borrowed)	ANALYZER,ORION 2111LLEN		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Frequency Drive	Non-Stock is OK since there are non critical uses for this TX which can be "borrowed)	CONTROLLER,SPEED CLARIFIER		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Recirculator - Double Induction Speed Reducer - In Stock		RECIRCULATOR,STERLING 9A6108		In Stock	

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Raw and Makeup Water System & Water Treatment Plant	Cleanwell	Cleanwell Pump	Pump, single stage, 750GPM	Critical repair parts stocked for this pump. No need to stock the entire pump.	PUMP ASSY, KSB 6"	Non-Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Quick Closing Valves	18" Butterfly Valve		VALVE,BTFY 18" 150#	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Capstan	Gear Box		CAPSTAN, GEARBOX,SADI	In Stock
Fire Protection System	Electrical Driven Pump	Control Panel	Fire Pump Controller	Spare Controller on site in Warehouse	N/A	Non-Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	30A DC Breaker		BREAKER,DC HFD2030 30A	In Stock
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	25A DC Breaker		BREAKER,DC HFD2025 25A	In Stock
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 Pumps	Motor	Actuator		ACTUATOR ASSY, ROTORK	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		WINDING COILS	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		MODULE,NETWORK INTERFACE	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		RELAY,AB TYPE P	In Stock
Combustion Air & Gas Instruments	Burner Management	Flame Scanners	24Vdc Scanner Power Supply		MODULE,PROCESSOR FOXBORO	In Stock
Combustion Air & Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter		POWER SUPPLY,WELDING MULLER	In Stock
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 1	One spare F.O. Flow TX for both units	TRANSMITTER, DP 1 KPA TO 1 KPA	In Stock
Condenser Air Extraction System	Vacuum Breakers	Seals	6" Flanged		FLOWMETER, ROSE	In Stock
Generator	Seal Oil System	Exciter	See Parts List #U1&2 - 1 from Service Contractor		VALVE,AIR & VACUUM 6 FLG	In Stock
Generator	Exciter	Exciter	ArcNet Coupler		HYDROGEN SEAL RINGS,GE	In Stock
Generator	Exciter	Exciter	Conduction Monitor		CARD,ABB UNS0672	In Stock
Generator	Exciter	Exciter	Crowbar		CARD,ABB UNS0673	In Stock
Generator	Exciter	Exciter	Digital ArcNet		CARD,ABB UNS0017AVAR1	In Stock
Generator	Exciter	Exciter	Binary Input		CARD,ABB UPC090	In Stock
Generator	Exciter	Exciter	Output Relay		CARD,ABB UFC092	In Stock
Generator	Exciter	Exciter	Measuring Card		CARD,ABB UNCA672	In Stock
Generator	Exciter	Exciter	I/O Connection		CARD,ABB UNCA673	In Stock
Generator	Exciter	Exciter	Converter		CARD,ABB UNCA674	In Stock
Generator	Exciter	Exciter	Snubber Bridge		CARD,ABB UNS3670	In Stock
Generator	Exciter	Exciter	Control		SNUBBER,ABB UNS4681V12	In Stock
Generator	Exciter	Exciter	Power Supply		CARD,ABB HIEE30090R0001	In Stock
Generator	Exciter	Exciter	Pulse Gen		CARD,ABB KUC321	In Stock
Generator	Exciter	Exciter	Combined I/O		CARD,ABB GDB021	In Stock
Generator	Exciter	Exciter	Control Panel		CARD,ABB UAC326	In Stock
Generator	Exciter	Exciter	Breaker		CARD,ABB AFC094	In Stock
Generator	Exciter	Exciter	Transformer	On Site	BREAKER,FIELD ABB F3/5E	In Stock
Generator	Stator	PT Cubicle	Primary Contact for Generator P.T.		N/A	Non-Stock
Generator	Seal Oil System	Regulator	1.5" Regulating Valve		CONTACT ASSY,PT	On Order
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Valve		SEAL OIL REG KIT, RK	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Ignition Transformer		VALVE,FISH F.O. TRIP	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Sumpot		XFMR,FOSSIL 5870-542F	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Valve Assembly / Oil Igniter		BASE,AMPLIFIER & TERMINAL	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Igniter Control Box	Level Transmitter		IGNITER,ASSEMBLY ALSTOM	In Stock
					TRANSMITTER,LEVEL	In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	On Order
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Solenoid			SOLENOID,ASCO 8300 125 VDC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Conductivity Probe			PROBE,GUIDED WAVE RADAR 26"	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Switch		SWITCH,LEVEL MOBREY	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter		TRANSMITTER,LEVEL	In Stock
L.P. Feedwater System	Deaerator System	Level Control	Relay		RELAY,PLUG-IN 12 PIN AC	On Order
L.P. Feedwater System	Ammonia System	NRV Valves	Bulk Chemical		AMMONIUM HYDROXIDE,20% TOTE	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	12"-1.50# Gasket Kit		GASKET,S&K 7450397V0010	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		O-RING,S&K 7550144V0090	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 24"	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 16"	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Seal washers		PACKING,S&K 12"	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves	Seal washers		SEAL,S&K 7550181V0020	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1&2 LP Heaters	Gasket		GASKET,S&K 6750064V0010	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	O-Rings		O-RING,S&K 7550144V0100	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	Polisher Bypass Valve	Valve	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.	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. intercept Control Valve Servos		VALVE,SERVO 50.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Main Control Valve Servos		VALVE,SERVO 50.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Intercept Control Valve Servos (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,500HM,5%,40 WATT		RESISTOR,500HM	In Stock

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	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	CPM MK5 CONTROL POWE		CONTROL,MK5 POWER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Turbine Control System		TERMINATOR,93 OHMS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Turbine Control System		RESISTOR,323A2354P1	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Turbine Control System		RESISTOR,323A2354P2	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Turbine Control System		RESISTOR,100 OHM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Turbine Control System		CAP,METALIZED-MYLAR	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, C-Core Terminal Board		TERMINAL BOARD,MKV C-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, P-Core Terminal Board		TERMINAL BOARD,MKV P-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	TERM. BOARD (R-S-T)	DS200QTBAG1A is superseded by DS200QTBAG3A	TERMINAL BOARD,(R-S-T)	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Main Control Card	New no longer available, reman	BOARD,GE DS200SDCCG4A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, LAN Comm Interface Card		BOARD,GE DS200SLCC G3A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,Thermocouple Terminal Board		TERMINAL BOARD,THERMOCOUPLE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,TERM.BD @R-S-T TC		TERMINAL BOARD,MKV	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKVe, Analog I/O Terminal Board		TERMINAL BOARD,ANALOG I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKVe, Analog I/O Terminal Board		TERMINAL BOARD,ANALOG I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV,TERM BD (R-S-T) EXT		TERMINAL BOARD,(R-S-T) EXT	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Common Analog Card	New no longer available, reman	BOARD,GE DS200TCCAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DIG. I/O BD. CONF. C		BOARD,GE DS200TCDAH1B/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Emergency Overspeed Card	New no longer available, reman components,	BOARD,GE DS200TCEAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, COMM. CIRCUITS FOR T	Has age sensitive components	BOARD,GE DS200TCEBG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	PDM, Switch & Fuse Card		BOARD,GE DS200TCPDG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DC INPUT PWR SUPPLY	New no longer available, reman 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, reman only	CARD,EXTENDED MKV (RST)	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, BOARD-(RST) OVERFLOW	New no longer available, reman only	BOARD,GE DS200TCQCG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Relay Output Card		BOARD,GE DS200TCRAG1A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Turbine Trip Card	New no longer available, reman only	BOARD,GE DS200TCTSG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MODULE,AC TO DC	DS200DACAG1 has been superseded by DS200DACAG2	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,IMPPELLER IR 11A9C37	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Motor	Motor		MOTOR,ELECT 20HP 575VAC	In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Turbine Generator System Stage 1	Turbine Lube Oil System	Oil Pressure Regulator	Diaphragm		DIAPHRAGM,GE 920810612	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 RPACCKX0011	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 & 2 Air & Flue Gas	Furnace Pressure TX (Trip)	Pressure Transmitter	Pressure Transmitter		TRANSMITTER,DP -8000-8000KPA	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER 21-1/2"	Non-Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER U1	Non-Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Bearing		BEARING,BALL 23034CCK/C3W33	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Seal		SEAL,HOWDEN 68-01-615	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Coupling		COUPLING,STEEFLEX 1-1/8 S-4	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Air Motor		AIR MOTOR,ING RAND	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Motor		MOTOR,HEATER 1/3HP (XL GEAR)	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Sleeve		SLEEVE,RELIANCE 411629-6A	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Coupling		COUPLING,BORE 3/4X5/8	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Roller assembly		ROLLER,ASSEMBLY	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Stud		STUD,DEW 0282336	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Cage		CAGE,FISH 2U224033272	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Plug/Stem		PLUG ASSY,FISH 1V6575X0052	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Ring		RING,FISH 1U222646172	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Bushing		BUSHING,FISH 1E682814012	In Stock
Units 1 & 2 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	2" Flanged Valve		VALVE,FISH ATOM STEAM	In Stock
Units 1 & 2 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Flanged Valve		VALVE,FISH F.O. TRIP	In Stock
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Repair Kit		PACKING KIT,FISH RPACCKX00012	In Stock
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Diaphragm		DIAPHRAGM,FISH 2E670002202	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Pumps	Fuel Oil Pumps	PUMP,IMO C324		PUMP,IMO C324 (COMPLETE)	In Stock
Units 1 & 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	Seal	To be ordered & stocked as required	SEAL,MECHANICAL FUEL C324	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Gasket Set		GASKET SET,FISH RGASKETX312	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Packing		PACKING KIT,FISH RPACCKX00012	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Ring		RING,FISH 1U222535072	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Plug/stem		PLUG/STEM,FISH 1U8350X0022	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Cage		CAGE,FISH 2U215033272	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Gasket		RING,FISH 10A4154X012	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Ring		RING,FISH 1U222835072	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Diaphragm		DIAPHRAGM,FISH 2N126902202	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Cage	Repair Parts Stocked Ref	CAGE,FISH 2U231833272	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets		GASKET,FUEL OIL HEATER	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Tube Bundles	Annual Inspection plus online	HEATER,FUEL OIL STAGE 1	Non-Stock
Units 1 & 2 Fuel Oil System	Burners	Feed Water Flow Controls	Oil, Steam & Scavenge Valves - All		VALVE,BALL 3/4 C/W PNEU	In Stock
Units 1 & 2 Fuel Oil System	Feed Water Flow Controls	Feed Water Flow Controls	Cage		CAGE,FISH 4283570X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Feed Water Flow Controls	Plug/stem		PLUG/STEM,FISH 36A536X062	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Feed Water Flow Controls	Unit 1			In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 26A5285X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 26A5299X052	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 10A5411X022	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Pin		PIN,FISH 1V334035072	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET,FISH 18A2810X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Gasket		GASKET,FISH 26A5314X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING,FISH 10A5410X012	In Stock
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Packing		PACKING,FISH 1R290601012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Element Assembly (Volute)	Rebuildable Item If this is not in stock, it is out for rebuild.	ELEMENT ASSY,VOLUTE/ROTATING	On Order
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Bushing		BUSHING,BI 216507LG	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shaft Driven Oil Pump		PUMP,BJ,DWG C1F-238	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BJ 612987-EH	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BJ 634599-BG	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shoe		SHOE ASSY,BJ 631163-KD	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Cover		COVER,BI 308952-SA	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	3000HP Motor, 4160Vac (two styles of motor for Stage 1, one each stocked off-site)	Motor stored off site via service contract	SCIM, sin# 1026366788, frame MGP500B, 3000HP, 4160Vac, 60HZ	Non-Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Gasket		GASKET,FISH 12B7100X082	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Seal	Repair Parts stocked Ref	SEAL,FISH 10A4215X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref	RING,FISH 10A4217X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref	RING,FISH 10A4219X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	CN12054568	RING,FISH 22B9344X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Plug/Stem		PLUG/STEM,FISH 38A0014X062	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #1 - All HP Heaters	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 - HP Heater # 4 & 6	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 -HP Heater # 5	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 - All HP Heaters	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 - Heater # 4 & 6	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 -HP Heater # 5	Aquarian Alarm Modules		MODULE,AQUARIAN	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2 - All HP Heaters	Conductivity Probe	Hi-Level Switch	PROBE,CONDUCTIVITY	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 1 & 2 - All HP Heaters	Relay		RELAY,PLUG-IN 12 PIN AC	On Order

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2	Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve Limit Switch	Oil Tight Limit Switch		SWITCH,LIMIT AB 802T-B	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve	Packing		PACKING,GRAFOIL 1DX1-1,ZOD	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Gasket		GASKET,HOP 30037592	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spindle		SPINDLE,HOP 44574-011	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT,HOP 3524-508	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stop		STOP,HOP 8 VALVE 24930W	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Belt		BELT ASSY,HOP 44511-001	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 4	8"- 150# Gasket Kit		GASKET,S&K 7450397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 5	8"- 300# Gasket Kit		GASKET,S&K 7450397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 6	8"- 600# Gasket Kit		GASKET,S&K 7450397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter		TRANSMITTER,PRESS 5-800	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" x 1" Valve		VALVE,RELIEF 1/2" 110H SE	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Recirculation Valve to DA	4" Valve		VALVE,GATE 4 CS BW 300#	In Stock
Combustion Air & Gas Instruments	Burner Management	Positioner	2.5" x 5" Pneumatic PowerPositioner (Hagan) In Stock		VALVE ASSY,373218-001	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Coupling		COUPLING,METASTREAM	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Bearing	Mechanical Engineer to contact Flowserve for bearing spec.	BEARING,JOURNAL MP 215878E	Non-Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		IMPELLER,MAT PLA 27881-P	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		IMPELLER,MAT PLA 27882-P	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		O-RING,M&P 775C	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Impeller		O-RING,MAT PLA 775D	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Cable	Cable		CABLE,BATTERY 1/0	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - speed probes		PROBE,SPEED PICKUP	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switch 1	Switch		SWITCH,PRESS 0-150 PSI	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Positioner		POSITIONER,FISH DVC6200	In Stock
Condenser Air Extraction System	Mechanical Vacuum Pumps	Motor	Motor		MOTOR,ELECT 50HP 575V	In Stock
Generator	Stator	PT Cubicle	Potential Transformer (PT)		TRANSFORMER,GE 765X	In Stock
Turbine Generator System Stage 1	Generator	Stand Off Insulators	Stand Off Insulator		BUSHING,HIGH VOLTAGE GE	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Stator and Brush Rigging	Truck V-Fast Cables		CABLE SET,FLUID POWER	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Units 1 & 2 - Fans	Brush		BRUSH,GENERATOR U1 & U2	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Units 1 & 2 - Fans	Inboard Bearing Liner		LINER,BEARING 6"	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Units 1 & 2 - Fans	Outboard Bearing Liner		SLEEVE,BEARING 6"	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Units 1 & 2 - Fans	Bearing Set	U1 West (Dodge)	BEARING SET,SLEEVE 6"	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	Units 1 & 2 - Fans	200A Power Cell		POWER CELL,SIEMENS 200A	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Panel	1500HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 1026842643, frame MGP500C, 1500HP, 4160Vac, 60Hz	Non-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	Charger	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	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

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Circulating Water and Screen Wash System	CW Discharge Valves	Actuator	CW Butterfly Valve Actuator		ACTUATOR ASSY, ROTORK	In Stock
Circulating Water and Screen Wash System	CW Pumps	Motor	Coils		COILS, STAGE 2 MOTOR	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE, NETWORK INTERFACE	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Burner Fuel Trip Relays		RELAY, SD 8501XUD0	In Stock
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE, PROCESSOR FOXBORO	In Stock
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Transmitter		FLOWMETER, PROMASS 83F40	In Stock
Combustion Air & Gas Instruments	Burner Management	Elevation Air Dampers	Positioner		POSITIONER, FISH DVC6200	In Stock
Condenser Air Extraction System	Vacuum Breakers		6" Flange Vacuum Breaker		VALVE, AIR & VACUUM 6 FLG	In Stock
Generator	Stator	Stator and Brush Rigging	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	Exciter Control System	Converter		CONVERTER, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	ECT Panel		ECT PANEL, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Controller		CONTROLLER, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Computer		COMPUTER, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Firing Board		BOARD, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Message Module		MODULE, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Input Coupling		INPUT COUPLING UNIT, ABB	In Stock
Generator	Exciter	Exciter Control System	Power Supply		POWER SUPPLY, ABB	In Stock
Generator	Exciter	Exciter Control System	Crowbar		CROWBAR, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Murr		MURR, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	Resistor		RESISTOR, ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	I/O Board		BOARD, ABB COMBINED I/O	In Stock
Generator	Exciter	Exciter Control System	Field Breaker		BREAKER, FIELD ABB E2/E	In Stock
Generator	Stator	Stand Off Insulators	Insulator Bushing		BUSHING, HIGH VOLTAGE HIT	In Stock
Generator	Stator	PT Cubicle	Potential Transformer (PT)		VOLTAGE TRANSFORMER, ABB VIZZ-	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	Fuse		FUSE, GE EID-F-C5881405G1	In Stock
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	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	Ignitor Control Box	Igniter Control Box	Purge Solenoid Valve		SOLENOID, ASCO 8262G232	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	Igniter Control Box	Pneumatic Actuator		ACTUATOR, PNEU R16C	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	Igniter Control Box	Ignition Transformer		XPMR, IGNITION 120V 60C	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	Igniter Control Box	Relay		BOX, IGNITOR C/W CABLES N-6	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	Igniter Control Box	Sunspot - Scanner		SCANNER, FOSSIL 9100-1000	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	Igniter Control Box	Snap Action Switch		MICROSWITCH, 16CX12-D01	In Stock
Ignitor Light Oil and Air Supply	Ignitor Control Box	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)	L.P. Heater Controls (Water)	Level Transmitter LP Heater #1		TRANSMITTER, LEVEL	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water)	L.P. Heater Controls (Water)	Aquarian Alarm Modules		MODULE, AQUARIAN	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water)	L.P. Heater Controls (Water)	Solenoid		SOLENOID, ASCO 8300 125 VDC	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water)	L.P. Heater Controls (Water)	Relay		RELAY, OMRON MM4XP-DC125	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water)	L.P. Heater Controls (Water)	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	Deaerator	Level Control		SWITCH ASSY, MAG 89-7401-052	In Stock
L.P. Feedwater System	Deaerator System	Deaerator	Level Control		SOLENOID, ASCO 8320G184M0	In Stock
L.P. Feedwater System	Deaerator System	Deaerator	Level Control		TRANSMITTER, DP 0-120" H2O	In Stock
L.P. Feedwater System	Deaerator System	Deaerator	Control Valves		VALVE KIT, BALL 8"	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Repair Kit			In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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 75B1096X102	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
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	20" 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 & Reheat Steam; Turbine Drains Powerhouse and Switchyard Single Line	Vacuum Unloading Device	Charger	Bellows		BELLOW ASSY,HIT L1000-1	In Stock
Turbine Generator System Stage 2	258V DC System	Governor	400A DC Breaker		BREAKER,DC KD2400F 400A	In Stock
Turbine Generator System Stage 2	258V DC System	Governor	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	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Sleeve		SLEEVE,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Trunnion		TRUNNION,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Pin		SPLIT PIN,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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	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	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer		WASHER,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	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	Parts common to AC Pump	BEARING,PLANE HIT ITEM 35	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Bearing	Parts common to AC Pump	BEARING,PLANE HIT ITEM 36	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Auto Start Pressure Switch		SWITCH,PRESS.10-300 TYPE ACW2	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEALRING,10P-067-551-17	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEALRING,10P-067-551-18	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-13	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-17	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Ring		RING,HIT 10P 067-551-18	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Brush		BRUSH,HIT 10P 067-551-38	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Bearing		BEARING,PLANE HIT ITEM 35	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Bearing		BEARING,PLANE HIT ITEM 36	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	Motor		MOTOR,AUX OIL YELLOW	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Seat		SEAT,10P-061-226-123	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,10P-061-226-207	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING,10P-061-226-208	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Lockring		LOCKRING,10P-061-226-209	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,HIT 10P-061-226/16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Pin		PIN,HIT 10P-061-226/98	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Bushing		BUSHING,HIT T-9201	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228-125	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Crosshead		CROSSHEAD,HIT.10P0612283	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228/98	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-228/16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,STL #16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,HIT 10P-038-197-16	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,HIT 10P-038-197-71	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Bushing		BUSHING,10P-038-197/15	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Seal Ring		SEAL RING,10P-038-197/14	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Bushing		BUSHING,HIT 10P-038-197/18	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT.10P0611582	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT.10P0611586	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING,HIT.10P06115814	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Rivet		RIVET,HIT 10P-061-158-63	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Stem		STEM,HIT 10P061158/7	In Stock
Turbine Generator System Stage 2	Reheat/Steam Chest Assembly	Reheat/ICV Valves	Pin		PIN,HIT 10P06115872	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Pressure Transmitter - Unit 3		TRANSMITTER,PRESS 0-200	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Bushing		BUSHING,FISH 1E845714012	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Diaphragm		DIAPHRAGM,FISH 2E859602202	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Actuator repair kit		ACTUATOR KIT,FISH R667X000502	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Actuator		PACKING KIT,FISH RPACXK0011	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Positioner		POSITIONER,FISH DVCC6200	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Auxiliary Steam Control Valve - actuator		ACTUATOR KIT,FISH R470X000032	In Stock

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
Turbine Generator System Stage 2	Steam Seal Regulator		Aux Steam Control Valve - Body - Unit 3		BODY,VALVE FISH 3N192029022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Dump Control Valve - Actuator - Repair Kit - Unit 3		ACTUATOR KIT, FISHER R667	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Ring		RING, FISH 17A3990X022	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Ring		RING, FISH 1U508039102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Pin		PIN, FISH 1V326035072	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Cage		CAGE, FISH 2U505939102	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Plug		PLUG, FISH 27A393X012	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Series 8500 size 95 w/ 95" @ 100% width wheel	Thrust Plate		THRUST PLATE KIT, DODGE 132221	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Drive Motor	Formed Coils		COIL, WINDING U3 FD FAN	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Liner		LINER ASSY, DODGE 132423	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Collar		COLLAR, DODGE 132154	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Opposite side bearing		LINER ASSY, DODGE 132951	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	2 - Temperature probes installed in bearings		THERMO COUPLE, TYPE T	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Falk Steelflex coupling		COUPLING, STEELFLEX GRID	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	2 - Independent bearing pedestals	Gasket		GASKET, DODGE 132170	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER, STOCK BRIDGE 0.866"	Non-Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER, STOCK BRIDGE 1.004"	Non-Stock
Unit 3 Air & Flue Gas	F.D. Fans	variable inlet vanes	Actuator Repair Kit		DRIVE KIT, BAILEY 532694C1	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	variable inlet vanes	Actuator repair kit		DRIVE KIT, BAILEY 256111A0	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Gearbox	Gearbox		GEARBOX, AIR HEATER U3	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor		AIR MOTOR, ING RAND	In Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET, AIR HEATER 22-1/2"	Non-Stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET, HOT END 22-1/2"	Non-Stock
Unit 3 Air & Flue Gas	O2 Analyzers		Probe		PROBE, OXYGEN ANALYZER	In Stock
Unit 3 Air & Flue Gas	O2 Analyzers		Gasket		ANALYZER, ROSE 3000 OXY	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Packing		GASKET SET, FISH RGASKETX362	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Actuator		PACKING KIT, FISH RPACCKX0002	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Regulator		ACTUATOR KIT, FISH R667X000502	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Bushing		REGULATOR KIT, FISH WR67AFRX011	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Diaphragm		BUSHING, FISH 1E845714012	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Cage		DIAPHRAGM, FISH 2E859802202	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Ring		CAGE, FISH 2U236033272	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Seat		RING, FISH 1U217305092	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Plug/Stem		SEAT, FISH 1U222046172	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Cage		PLUG/STEM, FISH 1V6571X0042	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Gasket		CAGE, FISH 2U215333272	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Packing		GASKET SET, FISH RGASKETX242	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Bushing		PACKING KIT, FISH RPACCKX00012	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Diaphragm		BUSHING, FISH 1E682814012	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Cage		DIAPHRAGM, FISH 2E669902202	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Ring		CAGE, FISH 2U222373272	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Plug/Stem		RING, FISH 1U222646172	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Packing		PLUG ASSY, FISH 1V6575X0052	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Gasket		PACKING KIT, FISH RPACCKX0002	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Diaphragm		GASKET SET, FISH RGASKETX182	In Stock
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Level Fuel Oil Trip Valves (3)	Packing		DIAPHRAGM, FISH 2E670002202	In Stock
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Level Fuel Oil Trip Valves (3)	Repair Kit		ACTUATOR KIT, FISH R667X000402	In Stock

System		Asset		Critical Spare		Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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 BK85MT	In Stock
Unit 3 Fuel Oil System		Steam Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System		Steam Valve	Packing		PACKING KIT,FISH RPCKX00012	In Stock
Unit 3 Fuel Oil System		Steam Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock
Unit 3 Fuel Oil System		Steam Valve	Ring		RING,FISH 1U22546172	In Stock
Unit 3 Fuel Oil System		Steam Valve	Cage		CAGE,FISH 2U215033272	In Stock
Unit 3 Fuel Oil System		Scavenge Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System		Scavenge Valve	Packing		PACKING KIT,FISH RPCKX00012	In Stock
Unit 3 Fuel Oil System		Scavenge Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock
Unit 3 Fuel Oil System		Scavenge Valve	Ring		RING,FISH 1U22546172	In Stock
Unit 3 Fuel Oil System		Scavenge Valve	Cage		CAGE,FISH 2U215033272	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Rotating Assembly		CASE ASSY,BWL (INNER)	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Shoe Assembly		SHOE ASSY,KI-00166-A-3740	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Throttle bushing (2 req'd)		BUSHING,BWL 3106181	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Bearing		BEARING,HIT 9-60-1	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Bearing		BEARING,HIT 9-60-2	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Balance bushing		BUSHING,BWL 3106181	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Thrust bearing		BEARING ASSY,THRUST JHJ-5	In Stock
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	Gaskets		GASKET,BWL T-101204IG	On Order
Unit 3 H.P. Feedwater System		Boiler Feed Pumps	2350HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 10726842642, frame MGP450D, 2350HP, 4160Vac, 60HZ	Non-Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve 1500lb - Welded	DIAPHRAGM,FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-10A5411X022 - Seal Ring	RING,FISH 10A5411X022	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-13A5599X052 - O-Ring	O-RING,FISH 13A5599X052	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-26A5299X052 - Seat Ring	RING,FISH 26A5299X052	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-27A2798X042 - Seat Ring, O-Ring	RING,FISH 27A2798X042	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-42B3570X012 - Cage, Eq%	CAGE,FISH 42B3570X012	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-36A5366X062 - Plug/Stem Bal	PLUG/STEM,FISH 36A5366X062	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	2-26A5314X012 - Gasket	GASKET,FISH 26A5314X012	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-1J872906332 - Upper Wiper	WIPER,FISH 1J872906332	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-1J873435072 - Packing Box Ring	RING,FISH 1J873435072	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-1R290601012 - Packing Set	PACKING,FISH 1R290601012	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-1H7441X0022 - Bushing Seal	SEAL,FISH 1H7441X0022	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1-2R6376X0082 - Diaphragm	DIAPHRAGM,FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System		Feed Water Flow Controls	Main Feed Water Control Valve	1- R667X000802 - Repair Kit	ACTUATOR KIT,FISHER R667	In Stock
Unit 3 H.P. Feedwater System		H.P. Heater Controls (Water Induction Protection)	All HP Heaters	Conductivity Probe	PROBE,CONDUCTIVITY	In Stock
Unit 3 H.P. Feedwater System		H.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Module	PROBE,AQUARIAN	In Stock
Unit 3 H.P. Feedwater System		H.P. Heater Controls (Water Induction Protection)		Level Transmitter	TRANSMITTER, DP 0-120" H2O	In Stock
Unit 3 H.P. Feedwater System		H.P. Heater Controls (Water Induction Protection)		Relay	RELAY,OMRON MM4XP-DC125	In Stock
Unit 3 H.P. Feedwater System		H.P. Heater Controls (Water Induction Protection)		Solenoid	SOLENOID,ASCO 8300 125 VDC	In Stock

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	Bushing		BUSHING,DEW 0800109	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Clip		CLIP,DEW 0540097	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING,DEW 0760093	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING,DEW 668215DEW	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Screw		SCREW,DEW 0440024	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spacer		SPACER,DEW 0660065	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spring		SPRING,DEW 6580312 (3/SET)	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stem		STEM,DEW 0040851	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0282351	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0280514	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Packing		PACKING,DEW 6442946	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT,DEW P71ER250	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #6 HP Heater	6" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #5 HP Heater	8" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #4 HP Heater	10" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280443	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280513	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Disc		DISC,DEW 051095	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING,DEW 0760072	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING,DEW 2004920	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0440024	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW #2003863	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW 2000006	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,KEYSTONE 903-735	In Stock
Unit 3 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Transmitter		TRANSMITTER,PRESS 5-800	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Cage		CAGE ASSY,FISH 22A3525X022	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Packing		PACKING,FISH 1R290601012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Plug/Stem		PLUG/STEM,FISH 22A3527X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A415X012	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" 110H 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	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Gasket		GASKET,MASON 356154-152-825	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seal		SEAL,MASON 354810-034-779	In Stock
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 770854-027-152	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC E1 - breaker C4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC C12 - breaker C7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - breaker C14	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock

Asset				Critical Spare			Inventory Status
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)	Feeder to Power Centre - breaker C15	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C3	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C8	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C9	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C10	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C11	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C12	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	breaker C13	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C16	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C17	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC - breaker C18	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Circuit Breaker to Bus - breaker C19	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)			SSB-3 Relay	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (SSB1)			Feeder to transformer ATC - breaker SSB-3	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	

Asset			Critical Spare				Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	
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	

Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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	
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	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	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	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 UB1-1 Relay	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	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	
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	

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	RELAY,AUXILIARY RXMS-1	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 relays	Shares spare with CGE HFA	RELAY,AUXILIARY RXMH-2	In Stock	
Unit Board UB1 (UB1-2)			UB1-3 relays	Shares spare with CGE IAC51 and	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB1 (UB1-2)			UB1-3 relays	Shares spare with CGE IAC51 and	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 ICAS3 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	
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	

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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. P&B3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-4 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. P&B3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-9 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. P&B3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-10 relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. P&B3E5N11	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA	RELAY,AUXILIARY RXMA-2	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA	RELAY,AUXILIARY RXMA-1	In Stock
Unit Board UB2 (UB2-1)			UB2-1 relays	Shares spare with CGE HFA	RELAY,AUXILIARY RXMS-1	In Stock
Unit Board UB2 (UB2-1)			UB2-2 relays	Shares spare with CGE HFA	RELAY,AUXILIARY RXMH-2	In Stock
Unit Board UB2 (UB2-1)				Shares spare with CGE IAC51 and ICAS3 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 ICAS3 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
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

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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 UAB-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Feeder to transformer LDP-3 - breaker LDP-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Feeder to MCC BAB3 - breaker BAB-3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	AOP3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	TAB3	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	ACL2	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)	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 - PBS13E5N11	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		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		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

Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status
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
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	SYNCHROTRACT, 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

Asset			Critical Spare				Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
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)		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	
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,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,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. PBS13E5N11	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 IACS1 and IACS3 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. PBS13E5N11	In Stock	



Appendix F

Critical Spares Status Listing – Gas Turbine Generation



Critical Spares Status
Hardwoods and Stephenville – Gas Turbines

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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	
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	
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	
Ring that the Primary Pawl and spring are installed	In Stock	Medium	N/A	
Secondary Pawl, Clutch, Prime Mover Systems	In Stock	Medium	N/A	
Limit switch, Snow Door Assembly, Exhaust, Prime Mover Systems, Stephenville GT	In Stock	Medium	N/A	
Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	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	
Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	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	
Unloading Filter, Liquid Fuel System, Auxiliary Systems, Stephenville 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, Hardwoods GT	In Stock	Medium	N/A	
Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, Stephenville GT	In Stock	Medium	N/A	
Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, Stephenville GT	In Stock	Medium	N/A	
Common Drain Clutch B Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Medium	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	
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	
Pressure Switch, Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Medium	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	
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	

**Critical Spares Status
Hardwoods and Stephenville – Gas Turbines**

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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, Stephenville GT	In Stock	Medium	N/A	
Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	In Stock	Medium	N/A	
Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	In Stock	Medium	N/A	
Pressure Switch, Liquid Fuel System, Auxiliary Systems, Hardwoods GT	In Stock	Medium	N/A	
Pressure Switch, Gas Generator Lube Oil System, Auxiliary System, Hardwoods GT	In Stock	Medium	N/A	
Snow Door Pneumatic Cylinder	In Stock	Medium	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
TURBINE EXHAUST TUNNEL - THERMAL DETECTOR, KIDDE-FENWAL:12-H27121-020-08	Provided Under Service Contract	Medium	N/A	
FIRE CONTROL PANEL TROUBLE ALARM TO DCS, DET-TRONICS:U9500A	Provided Under Service Contract	Low	N/A	
FIRE CONTROL PANEL DISCHARGE -ALARM TO DCS, NOTIFIER:AFP-300	Provided Under Service Contract	Low	N/A	
LP COMPRESSOR BLEED VALVE, 18", METSO AUTOMATION:815W 11 22HB XZC VA	In Stock	High	N/A	
HP COMPRESSOR BLEED VALVE, 14", FISHER:A31A-1031/33082 SR80	In Stock	High	N/A	
Module, ControlNet - Combination Generator Control Module with ControlNet communication	On Hand - Under Parts Management Agreement	High	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	Medium	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	Medium	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	Medium	N/A	
Module, relay expander - Relay Expander Module, 24V DC, 16 Relays with Fusing	On Hand - Under Parts Management Agreement	Medium	N/A	
10 Slot ControlLogix Chassis	On Hand - Under Parts Management Agreement	Medium	N/A	
4 Slot ControlLogix Chassis	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlNet Interface Module (100 connections)	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlNet Redundant Interface Module (100 connections)	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlNet Redundant Bridge Module (40-48 connections)	On Hand - Under Parts Management Agreement	Medium	N/A	
EtherNet 10-100M Interface Module (supports 128 TCP/IP connections)	On Hand - Under Parts Management Agreement	Medium	N/A	
EtherNet 10-100M Interface Module (supports 64 TCP/IP connections)	On Hand - Under Parts Management Agreement	Medium	N/A	
10-30 VDC Isolated Input 16 Pts (36 Pin)	On Hand - Under Parts Management Agreement	Medium	N/A	
10-30 VDC Individually Isolated Input 16 Pts (36 Pin)	On Hand - Under Parts Management Agreement	Medium	N/A	
Analog Input - Current/Voltage 16 Pts (36 Pin) Controller, controlLogix 5570, 2MB	On Hand - Under Parts Management Agreement	High	N/A	
ControlLogix 5570 Controller with 2 MB Memory, USB Port, 4 Character Alpha/Numeric Display.	On Hand - Under Parts Management Agreement	High	N/A	
Controller, ControlLogix 5570, 4MB	On Hand - Under Parts Management Agreement	High	N/A	
ControlLogix 5570 Controller with 4 MB Memory, USB Port, 4 Character Alpha/Numeric Display.	On Hand - Under Parts Management Agreement	High	N/A	
10-31 VDC Output 32 Pts (36 Pin)	On Hand - Under Parts Management Agreement	Medium	N/A	
10-31 VDC Output 32 Pts (36 Pin)	On Hand - Under Parts Management Agreement	Medium	N/A	
Analog Output - Current/Voltage 8 Pts (20 Pin)	On Hand - Under Parts Management Agreement	Medium	N/A	

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
ControlLogix, 85-265 VAC Power Supply (10 Amp @ 5V)	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlLogix, 85-265 VAC Power Supply (13 Amp @ 5V)	On Hand - Under Parts Management Agreement	Medium	N/A	
Redundancy Module	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlLogix Position and Time Services	On Hand - Under Parts Management Agreement	Medium	N/A	
Stratix 5700 Switch, Managed, 16 Fast Ethernet Copper Ports, 2 Fast Ethernet Combo Ports, 2 Fast Ethernet Fiber SFP Slots, Lite Software, DLR	On Hand - Under Parts Management Agreement	Low	N/A	
Networks and Communication Products, ControlNet Repeater Adapter Module	On Hand - Under Parts Management Agreement	Low	N/A	
Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - Under Parts Management Agreement	Low	N/A	
Networks and Communication Products, Long-distance Fiber Ring Repeater Module	On Hand - Under Parts Management Agreement	Low	N/A	
Networks and Communication Products, Right-angle T-tap	On Hand - Under Parts Management Agreement	Low	N/A	
Networks and Communication Products, Right-angle Y-tap	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, ControlNet FLEX I/O Adapter Module	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 16 Sink Inputs	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 32 Sink Inputs	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Module, 16 Bit, 4 Point Isolated	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 2-Channel High Resolution Frequency	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 8 Point RTD	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Non-Isolated, Thermocouple / RTD / MV	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Thermocouple, 8 Point	On Hand - Under Parts Management Agreement	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Output Module, 24V DC, 16 Source Outputs	On Hand - Under Parts Management Agreement	Low	N/A	
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	Low	N/A	
1794 Flex, Flex Ex, Flex XT I/O System, Analog Output Module, 16 Bit, 4 Point Isolated	On Hand - Under Parts Management Agreement	Low	N/A	
PF750-24V I/O Module-2AI,2AO,6DI,2RO	On Hand - Under Parts Management Agreement	Low	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
PowerFlex Architecture Class DeviceNet Communication Adapter	On Hand - Under Parts Management Agreement	Medium	N/A	
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	Medium	N/A	
PowerFlex Architecture Class Remote Enhanced HIM, IP66 (NEMA 4X/12) Indoor Use Only. Includes 1202-C30 cable.	On Hand - Under Parts Management Agreement	Medium	N/A	
PanelView Plus Display Keypad/Touch, 15-inch TFT Display, Color, No Options	On Hand - Under Parts Management Agreement	Medium	N/A	
PanelView Plus Display Touch Screen, 12.1-inch TFT Display, None, High Bright	On Hand - Under Parts Management Agreement	Medium	N/A	
ControlNet Scheduled and Unscheduled Communication Module for Marine Certified PanelView Plus 700-1500 and PanelView Plus CE	On Hand - Under Parts Management Agreement	Low	N/A	
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	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 1.0-5.0A, NEMA 2	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 3-15A, NEMA 2	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 5-25A, NEMA 2	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 9-45A, NEMA 2	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 9-45A, NEMA 3	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 18-90A, NEMA 3	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 0.4-2.0A, NEMA 00	On Hand - Under Parts Management Agreement	Medium	N/A	
592 E3 and E3 Plus Solid-State Overload Relays, E3 Plus, 60-302A, NEMA 5	On Hand - Under Parts Management Agreement	Medium	N/A	
ProSoft Technology DNP 3.0 Ethernet Server Communication Module	On Hand - Under Parts Management Agreement	Low	N/A	
ProSoft Technology Modbus Master/Slave Enhanced Communication Module	On Hand - Under Parts Management Agreement	Low	N/A	
PURGE SOLENOID REPAIR KIT, SURESITE:3153515	In Stock	Low	N/A	
BARKSDALE HEATER CONTROL TEMPERATURE SWITCH, MODEL # T1X-S154-A, STAINLESS STEEL WAS MARKED AS IN STOCK JDE=0	In Stock	Low	N/A	
VALVE, SHUTDOWN PURGE 1", OS0065-4 DXP-L21GNEB JBHC8327G041-125VDC	In Stock	High	N/A	
VALVE, CONTINUOUS PURGE 3", OS0600-4 DXP-L21GNEB EFHC8321G1	In Stock	High	N/A	
FUSE, LOW VOLTAGE DC REPLACEMENT FUSE (LOW VOLTAGE DC PIM), BENTLY NEVADA: 1720045	In Stock	Low	N/A	
MODULE, DC POWER SUPPLY HIGH VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:129486-01	In Stock	Medium	N/A	
MODULE, POWER SUPPLY LOW VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:133292-01	In Stock	Medium	N/A	
MODULE, POWER INPUT LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA:133300-01	In Stock	Medium	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
MANUAL, POWER SUPPLY MODULE	In Stock	Medium	N/A	
POWER SUPPLY MODULE, MANUAL, BENTLY NEVADA:129767-01	In Stock	Low	N/A	
E-CELL 55A CURRENT TRANSDUCER, PHOENIX CONTACT:3062518	In Stock	Low	N/A	
E-CELL 32A CONTACTOR, GENERAL ELECTRIC:3060877	In Stock	Low	N/A	
PANEL HEATER 120V 60HZ 400W, PH40011	In Stock	Low	N/A	
SOLAR SPARK PLUG IGNITER, CENTAUR:903316C1	In Stock	Low	N/A	
SHAFT, FISHER	In Stock	Low	N/A	
SHAFT, FISHER:7000400800	In Stock	Low	N/A	
PUMP, CONVERTER CHARGING	In Stock	Low	N/A	
TORQUE CONVERTER CHARGING PUMP, KOENIG:X216228-J	In Stock	Medium	N/A	
REPAIR KIT, SSS CLUTCH MINOR	In Stock	Medium	N/A	
KOENIG:SLI7998MKNK	In Stock	Medium	N/A	
VALVE, CHECK 3"	In Stock	Medium	N/A	
3MB60-6047-WR	In Stock	Low	N/A	
VALVE, SS POPPET CHECK	In Stock	Low	N/A	
SS POPPET CHECK VALVE, SWAGELOCK:SS-6C-1	In Stock	High	N/A	
VALVE, FUEL CHECK	In Stock	Low	N/A	
FUEL LINE CHECK VALVE, PARKER:10A-CBG8L-10-PF-SS, VOGT:SW9871T,	In Stock	Low	N/A	
VALVE, CHECK	In Stock	Low	N/A	
CHECK VALVE, SUN HYDRAULICS:CXA-XAN	In Stock	Low	N/A	
VALVE, SOLENOID	In Stock	Low	N/A	
SOLENOID VALVE, SUN HYDRAULICS:DILDA-MCN	In Stock	High	N/A	
VALVE, FUEL BYPASS	In Stock	High	N/A	
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	High	N/A	
REPAIR KIT, BYPASS VALVE	In Stock	High	N/A	
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	Low	N/A	
VALVE, PUMP DISCHARGE	In Stock	Low	N/A	
PUMP DISCHARGE PRESSURE REGULATING VALVE, MOOG/FISHER:ET-657-DVC-6200, SERIAL # F000642304, TYPE:ET CAV 111, SIZE 1-1/2, PORT SIZE:1-5/16, RATING:CL600/1500 PSI CWP, PLUG:SST, STEM:SST, BODY:SST, SEAT:SST	In Stock	Low	N/A	
VALVE, PRESSURE RELIEF	In Stock	Low	N/A	
HYDRAULIC FLUID PRESS RELIEF VALVE, REXROTH:R900341066	In Stock	Low	N/A	
PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900420276	In Stock	Low	N/A	
VALVE MANIFOLD PRESSURE RELIEF VALVE, REXROTH:R900423723	In Stock	Low	N/A	
MAIN PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900424147	In Stock	Low	N/A	
PRESSURE CONTROL VALVE, SUN HYDRAULICS:RDBA-LAN	In Stock	Low	N/A	
SOLENOID VALVE, TYCO: 52-287-10-024	In Stock	Low	N/A	
AIR CONTROL SOLENOID VALVE, 24VDC MINI, INGERSOLL RAND 633658	In Stock	Low	N/A	
VALVE, STOP	In Stock	Low	N/A	
FISHER 3", 560lit-TH66 QS1600-4 DXP-L21GNEB	In Stock	Medium	N/A	
FILTER, WATER - CLARK RELIANCE 2500PW	In Stock	Low	N/A	
INST AIR DEW POINT ANALYZER, MICHELL INSTRUMENTS:EA-XP-TX-EX1-C1-D1-E2-F1-G1-H1	In Stock	Low	N/A	
ACTUATOR, TYPE PNEUMATIC RACK & PINION, FLOWSERVE:20E39SWZ24D	In Stock	Low	N/A	
ATOMIZING AIR RECEIVER INLET VALVE, WORCESTER:5166TT150	In Stock	Low	N/A	
MODEL AD-1 AUTOMATIC DRAIN VALVE, TYCO:52-793-2-004	In Stock	Low	N/A	
MODEL ASV-1 AUTOMATIC - SHUT-OFF VALVE, TYCO:92-343-1-021	In Stock	Low	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
COMBUSTOR SHELL DISCHARGE - TEMPERATURE THERMOCOUPLE DUPLEX TYPE K	In Stock	Medium	N/A	
COOLING AIR FILTER BLEED DRAIN VALVE, 1", WORCHESTER:B4446 XG SW	In Stock	Low	N/A	
COIL, OVERSPEED TRIP	In Stock	High	N/A	
ELECTRONIC OVERSPEED TRIP, 9501W38	In Stock	High	N/A	
TORQUE CONVERTER MAGNETIC SPEED PICK-UP COIL, KOENIG:9501W14	In Stock	Low	N/A	
1 SERIES NEEDLE VALVE, SWAGELOCK:B-1VM4-S4/SS-1VM4-S4	In Stock	Low	N/A	
FEMALE NEEDLE VALVE, MCMASTER CARR:4644K33, 3/8"NPT	In Stock	Low	N/A	
PARKER VALVE, MODEL# 6Z-PR4-BNT-SS	In Stock	Low	N/A	
GLOBE VALVE, STEEL, VOGT:SW9871T, LUBE OIL FILTER TOWER #1 VENT VALVE	In Stock	Low	N/A	
INDICATOR, SIGHT	In Stock	Low	N/A	
1-1/2" JACOBY:100-S(NF)	In Stock	High	N/A	
PILOT VALVE ASSEMBLY, CLIPPARD FV-SP W/MPA:3P, CLIPPARD:LWT3732	In Stock	Low	N/A	
FLOAT, SURESITE:88111	In Stock	Low	N/A	
HYD FLUID SUPPLY FILTER SELECTION VALVE, PALL:1319232	In Stock	Low	N/A	
THROTTLE VALVE, NFBC-LCN	In Stock	Low	N/A	
GASKET, FILTER HOUSING	In Stock	Low	N/A	
GASKET,CLARK RELIANCE:A10137455, NFS# 10117455	In Stock	Low	N/A	
O-RING, BUNA	In Stock	Low	N/A	
HEAD TO BOWL O-RING BUNA, PALL:UK19672	In Stock	Low	N/A	
O-RING, FISHER	In Stock	Low	N/A	
O-RING, FISHER:T1205106562	In Stock	Low	N/A	
BUSHING ASSY, FISHER POT	In Stock	Low	N/A	
POT/BUSHING ASSEMBLY, FISHER:27B6208X012	In Stock	Low	N/A	
FILL KIT, SF6	In Stock	Low	N/A	
ABB BREAKER SF6 FILL KIT, (HECS 80S), S/N 1HC211015861	In Stock	Medium	N/A	
BELT, ECODYNE:1320-BLT-S-EHX19-90	In Stock	Low	N/A	
COUPLING, PUMP/MOTOR	In Stock	Low	N/A	
JOHN CRANE:A045-3578-1270, 1-1/2" - 2-3/8", ROUGH BORE	In Stock	Medium	N/A	
PUMP, GEAR	In Stock	Low	N/A	
DANFOSS:BERENDEN FLUID POWER SMP 2/11	In Stock	Low	N/A	
COUPLING, PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, REKNORD-OMEGA: REX ELASTOMER-ES-4(STANDARD ORANGE),PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, REKNORD-OMEGA: ELASTOMER-ES-5 (STANDARD ORANGE) PUMP-MOTOR	In Stock	Medium	N/A	
REPAIR KIT, INJ. PUMP	In Stock	Medium	N/A	
CHEMICAL INJECTION PUMP REPAIR KIT, GRAINGER:K4PTC1	In Stock	Medium	N/A	
FILTER, FUEL CAT. 1R0749	In Stock	Medium	N/A	
FOR USE ON STAGE I AND II, EMERGENCY DIESEL MANUAL PRIMING PUMPS, CATERPILLAR #1R-0749	In Stock	Low	N/A	
ELEMENT 0180MA0038N (3µm), P/N 20559438, SPIN ON ELEMENT, MANUFACTURER:HYDAC	In Stock	High	N/A	
FILTER, LIQUID FUEL	In Stock	Low	N/A	
CLARK RELIANCE 2200A3	In Stock	High	N/A	
FILTER, AIR (ELEMENT)	In Stock	Low	N/A	
INGERSOLL RAND 32012957	In Stock	Low	N/A	
ELEMENT, PRE-FILTER	In Stock	Low	N/A	
PRE-FILTER ELEMENT 105 SCFM, INGERSOLL RAND 85565679	In Stock	Low	N/A	
FILTER, AIR	In Stock	Medium	N/A	
GEN AIR FILTERS, COMPACT FILTER G4/F7 287 X 292 X 300, SIEMENS	In Stock	Medium	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
FILTER, AIR GEN AIR FILTERS, COMPACT FILTER, 64/F7 592 X 292 X 300, SIEMENS	In Stock	Medium	N/A	
FILTER KIT, FUEL LOW PRESSURE FUEL FILTER REPLACEMENT KIT, CENTAUR:912555C3	In Stock	High	N/A	
KIT, OIL FILTER & O-RING LUBE OIL FILTER & O-RING KIT, CENTAUR:9161283C1	In Stock	Low	N/A	
FILTER, FUEL BOOST KIT - LOW PRESSURE, 912343C1	In Stock	Low	N/A	
FILTER, IG/ACTUATOR - MOOG:864567-1V	In Stock	Medium	N/A	
FILTER, TMP-95 FINAL PNEUMAFIL:55253881, 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	Medium	N/A	
PRE-FILTER, Z-100 PNEUMAFIL:552709C1, PRE-FILTER PANEL, 24"X24"X4"73 (FTZ) SYNTHETIC MEDIA, PLASTIC FRAME FOR HIGHER PERFORMANCE AND LOWER PRESSURE DROP	In Stock	Medium	N/A	
PRE-FILTER, PARKER AIR DRYER PARKER AIR DRYER PRE-FILTER, PARKER FILTER CARTRIDGE# 6C10-050	In Stock	Low	N/A	
AFTER-FILTER, AIR DRYER AIR DRYER AFTER FILTER, PN 25-178-50C, PARKER FILTER CARTRIDGE # 10C10-050	In Stock	Low	N/A	
FILTER, PRESSURE PALL: ELEMENT HC9600FCP4H	In Stock	Medium	N/A	
ELEMENT, POST FILTER POST FILTER ELEMENT 105 SCFM, INGERSOLL RAND 85565661	In Stock	Medium	N/A	
TRANSMITTER, PRESSURE ROSEMOUNT:3051S2TG3A2A11A1AM5Q4	In Stock	Medium	N/A	
FILTER, LUBE OIL LUBE OIL FILTER, CLARKE RELIANCE:A2200A4, NFS:2200A4	In Stock	High	N/A	
SOFT PARTS KIT, CLARKE RELIANCE:A10400107, NFS:10400107	In Stock	Medium	N/A	
FILTER AUTOMATIC FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 240GPM, PENTAIR:LWT 3949	In Stock	Medium	TBD	
FILTER AUTOMATIC BACKWASH FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 245GPM, MODULAR PIPING SUPPLY INC: LWTS430	In Stock	Medium	N/A	
CARTRIDGE, DESICCANT PNEUMATIC PRODUCTS:3153517	In Stock	Low	N/A	
FILTER, OIL 275-2604 OIL FILTER, CAT:275-2604	In Stock	Low	N/A	
FILTER, AIR 4P0710S AIR FILTER, CAT: 4P0710	In Stock	Low	N/A	
PRE-FILTER, AIR COOLING PRE-FILTER, AIR COOLING	In Stock	Low	N/A	
METER, FLOW ROSEMOUNT:3051SFC1CS030N065-T33EA1A5Q4E6M5	In Stock	Medium	TBD	
LIQUID FUEL TEMPERATURE TRANSMITTER, ROSEMOUNT 644HAK6M5Q4I6	In Stock	Medium	N/A	
PUMP SUPPLY PRESSURE SWITCH, CCS 646GZEM1	In Stock	Medium	N/A	
PUMP DISCHARGE PRESSURE TRANSMITTER, ROSEMOUNT 3051CG5A22A1A5B84C6M5Q4	In Stock	Medium	N/A	
PNEUMATICALLY ACTUATED THROTTLE VALVE, FISHER ET-677-DVC-6200	In Stock	Medium	N/A	
PUMP DISCHARGE PRESSURE SWITCH, CCS 646GZEM5	In Stock	Medium	N/A	
METER, FLOW ROSEMOUNT:3051SFC1CS030NXT33DA1A5DQ4E6M5	In Stock	Medium	TBD	
CONTROLLER, STEP LIFO 8 STAGES, SCL4000-8	In Stock	Low	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
LIMIT CONTROLLER (0-2502-F), SA100LKA3-MIN-4* NN-D1/Y	In Stock	Low	N/A	
STEP CONTROLLER LIFO (4 STAGES), SCL4000-4	In Stock	Low	N/A	
INSTRUMENT AIR DRYER DIFFERENTIAL PRESSURE, DIFFERENTIAL PRESSURE TRANSMITTER, ROSEMOUNT:3051S2CD3A2A11A1A1L1L2L4M5Q4	In Stock	Low	N/A	
DIFFERENTIAL PRESSURE SWITCH,JOHNSON CONTROLS:JCI P 233 A-10-AAC	In Stock	Low	N/A	
FUEL OIL INLINE HEATER SUPPLY FLOW SWITCH, MAGNETROL TD2-7D01-0G0 C/W TEA-A110-004, THERMAL DISPERSION FLOW SWITCH	In Stock	Low	N/A	
FUEL UNLOADING PUMPS OUTLET PRESSURE/GAUGE PRESSURE TRANSMITTER, ROSEMOUNT:3051S2TG3A2E11A1B4K6M5Q4	In Stock	Low	N/A	
FUEL OIL TANK 1 LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64SPVDAM1C1S3	In Stock	Medium	N/A	
FUEL OIL TANK HIGH LEVEL SWITCH, ULTRASONIC GAP LEVEL SWITCH, MAGNETROL:961-2DA0-030 C/W 9A1-A43A-018	In Stock	Medium	N/A	
FUEL OIL INLINE HEATER DISCHARGE TEMPERATURE TRANSMITTER, ROSEMOUNT:644HAK616M4	In Stock	Medium	N/A	
FUEL OIL INLINE HEATER DISCHARGE TEMPERATURE RTD, ROSEMOUNT:68 SERIES/0068D21C30A020T26	In Stock	Medium	N/A	
FUEL OIL DAY TANK LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64PNACAM1C1	In Stock	Medium	N/A	
FUEL OIL TANK HIGH LEVEL SWITCH, DISPLACER LEVEL SWITCH, MAGNETROL MODEL # A15-1E2B-HM3, SERIAL # 744243-01-001	In Stock	Medium	N/A	
SWITCH ASSEMBLY, LIMIT	In Stock	Low	N/A	
MICROSWITCH # LSA2B	In Stock	Low	N/A	
CABLE SOLAR, IGNITER	In Stock	Medium	N/A	
CENTAURO:919340C2	In Stock	Medium	N/A	
PICKUP, MAGNETIC	In Stock	Medium	N/A	
CENTAURO:P/N 190430-1	In Stock	Medium	N/A	
SWITCH, OVERSPEED	In Stock	Medium	N/A	
CENTAURO KIT P/N1071653-2600	In Stock	Medium	N/A	
INLET GUIDE VANE POSITION TRANSMITTER, FISHER:4200 SERIES (4200)	In Stock	Medium	N/A	
RAC FILTER DRAIN SOLENOID VALVE, PARKER:H2223N	In Stock	Low	N/A	
LUBE OIL FILTER DELTA HIGH PRESS SWITCH, MIDWEST:120-AA-09-0-CZ	In Stock	Medium	N/A	
LUBE OIL COOLER OUTLET TEMP GAUGE, ASHCROFT:600B-01-CESXG	In Stock	Low	N/A	
BEARING LUBE OIL HEADER PRESS#1 LOW, PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J402-146-1521	In Stock	Medium	N/A	
BEARING LUBE OIL PRESSURE CONTROL VALVE, FISHER:ED-655	In Stock	Medium	N/A	
EMERGENCY LUBE OIL PUMP DISCHARGE - PRESSURE SWITCH, UNITED ELECTRIC CONTROLS - J400-146-1521	In Stock	Medium	N/A	
LUBE OIL RESERVOIR VACUUM - PRESSURE INDICATOR, ASHCROFT:45-118775S-04B	In Stock	Low	N/A	
LUBE OIL RESERVOIR TEMPERATURE SWITCH, HONEYWELL:T775A2009	In Stock	Low	N/A	
MAIN LUBE OIL PUMP #1 - DISCHARGE PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J402-164-1521	In Stock	Medium	N/A	
OVERSPEED TRIP SENSOR #1, ELECTRO CORP:3090A35	In Stock	High	N/A	
INLET AIR MANIFOLD PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: J400K-455-1520	In Stock	Low	N/A	
DIFFERENTIAL PRESSURE SWITCH, PNEUMAFIL:552033-B1	In Stock	Medium	TBD	
INTAKE AIR STATIC FILTER DIFFERENTIAL - PRESSURE SWITCH, SOR:107AL-K12-P1-F1A	In Stock	Low	N/A	
INLET SCROLL TEMPERATURE TRANSMITTER #1, YOKAGAWA:YTA320-EA2NN/FUJ7/D2/Z	In Stock	Low	N/A	
RTD, #1 PRIMARY SIGNAL	In Stock	Low	N/A	
INLET SCROLL RTD #1 PRIMARY SIGNAL, ROSEMOUNT:0078-N-25-N-00-A-060-T26-XA	In Stock	Low	N/A	
INSTRUMENT AIR SYSTEM PRESSURE SWITCH, UNITED ELECTRIC CONTROLS: H122-184, MFG PN 0409-007	In Stock	Low	N/A	
INSTR. AIR COMPRESSOR RECEIVER - LOW PRESSURE ALARM SWITCH, UNITED ELECTRIC CONTROLS: H122-274	In Stock	Low	N/A	
INST AIR SYSTEM ISOLATION SOLENOID VALVE, ASCO:HCLB8316666MB	In Stock	Low	N/A	
INSTR. AIR COMPRESSOR START STOP, PRESSURE SWITCH, HUBBELL INDUSTRIAL CONTROL: 69HA109779U	In Stock	Low	N/A	
INSTRUMENT AIR COMPRESSOR LOW-OIL LEVEL INDICATOR, INGERSOLL RAND:22102388	In Stock	Low	N/A	
GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE:BIT-H04	In Stock	High	N/A	
GENERATOR TURBINE END BEARING - JACKING OIL FLOW SWITCH, MEISTER:DKM/A-1/10	In Stock	High	N/A	
HYD FLUID AIR BLEED VALVE, HYDAC:AEV6/5 00230023	In Stock	Low	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
HYD FLUID PUMP #1 DISCHARGE - PRESSURE SWITCH, REXROTH: HED 3 OAEX/63/12	In Stock	Low	N/A	
HYD FLUID RESERVOIR - LEVEL TRANSMITTER, GEMS: XT-800	In Stock	Low	N/A	
HYD FLUID RESERVOIR LEVEL INDICATOR, REXROTH: CS3615-244910	In Stock	Low	N/A	
HYD FLUID HEADER SUPPLY - PRESSURE TRANSMITTER, ROSEMOUNT: 3051TG4A2A21AM5Q4	In Stock	Low	N/A	
HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (OFF), UNITED ELECTRIC CONTROLS: C402-120-1070-M202.135/120F	In Stock	Low	N/A	
HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (ON), UNITED ELECTRIC CONTROLS: C402-120-1070-M202.135/120F	In Stock	Low	N/A	
HYD FLUID RESERVOIR HEATER - TEMPERATURE SWITCH, UNITED ELECTRIC CONTROLS: C402-120-1070-M202.73/86F	In Stock	Low	N/A	
HYD FLUID SUPPLY FILTER - DIFFERENTIAL PRESSURE SWITCH, PALL: RC0113CZ097H	In Stock	Low	N/A	
HYD FLUID RESERVOIR THERMOCOUPLE, OMEGA: NB1-CASS-14U-12" DUAL	In Stock	Low	N/A	
CHLORINE INJECTION FLOW SWITCH, DWYER INSTRUMENTS: FS2	In Stock	Low	N/A	
DOUBLE ACTING PNEUMATIC ACTUATOR, KEYSTONE MORIN, TYCO: MRP 004	In Stock	Low	N/A	
0-500 PRESSURE TRANSMITTER - RO SKID, AUTOMATION DIRECT: PTD25-20-0500H	In Stock	Medium	N/A	
PRESSURE TRANSMITTER, AUTOMATION DIRECT: PTD25-20-0100H, 0-100 PSI - VARIOUS SKIDS	In Stock	Medium	N/A	
ANALOG INPUT CARD FOR PLC, VARIOUS SKIDS, AUTOMATION DIRECT: F0-04AS1	In Stock	Medium	N/A	
VALVE, BALL	In Stock	Low	N/A	
1.5", STAINLESS STEEL, MCMASTER CARR: 45995K84	In Stock	Low	N/A	
PRESSURE SWITCH, BARKSDALE: XIT-4100-25	In Stock	Medium	N/A	
PRESSURE SWITCH, DRUCKSCHALTER: D1 TM80 SS	In Stock	Medium	TBD	
LEVEL SWITCH MODULES, SURESITE: 87480	In Stock	Medium	N/A	
ELECTRICAL PACKAGE LOUVER ACTUATOR, ML4115B1008	In Stock	Low	N/A	
MECHANICAL PACKAGE - VENTILATION THERMOSTAT, T631 C1012	In Stock	Low	N/A	
E-CELL STACK FITTINGS KIT, GENERAL ELECTRIC: 3019638	In Stock	Low	N/A	
SINGLE POLE RELAYS - VARIOUS SKIDS, AUTOMATION DIRECT: 781-1C-120A	In Stock	Low	N/A	
IGV ACT HYD FLUID FILTER- DIFF PRESS HIGH SWITCH, MOOG: G4444-2	In Stock	Medium	N/A	
MULTIFUNCTION MONITOR - ORP OR CONDUCTIVITY, RYAN HERCO: 5924-562	In Stock	Low	N/A	
24VDC POWER SUPPLY, AUTOMATION DIRECT: PSB24-060D	In Stock	Low	N/A	
ORP SENSOR, RYAN HERCO: 5909-751, RAW WATER PUMP - VARIOUS SKIDS	In Stock	Medium	N/A	
CONDUCTIVITY SENSOR - RO, RYAN HERCO: 5926-200	In Stock	Medium	N/A	
MANIFOLD, PRESSURE TRANSMITTER	In Stock	Low	N/A	
ROSEMOUNT 0305RC2B11	In Stock	Low	N/A	
ATOMIZING AIR HEADER PRESSURE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT: 3051S2TG3A2A11A1AM5Q4	In Stock	Low	N/A	
BLUE MOISTURE INDICATOR, INGERSOLL RAND 705001-SP	In Stock	Low	N/A	
THERMOMETER, RESISTANCE	In Stock	Low	N/A	
SIEMENS: WQ 0233 2XPT100, INSTALLATION LENGTH 250MM, HAN 8D	In Stock	Low	N/A	
THERMOCOUPLE, SHELL	In Stock	High	N/A	
SIEMENS: MQ 0206-PVDF8 3XTC(K), INSTALLATION LENGTH 375MM, HAN 8D	In Stock	High	N/A	
FUEL OIL UNLOADING FLOW LIQUID TURBINE FLOWMETER, HOFFER FLOW CONTROLS: HO SERIES/6X6-75-1250-CB-1M/XE2-F1CS-EXP	In Stock	Medium	N/A	
HYDRAULIC FLUID PUMP #1 - DISCHARGE PRESSURE INDICATOR, REXROTH: 2-1/2/1500PUA31-10A-4 JIC	In Stock	Low	N/A	
HYDRAULIC FLUID CONDITIONING LOOP - FILTER DIFFERENTIAL PRESSURE SWITCH, PALL: RC0113CZ090H	In Stock	Low	N/A	
RAW WATER FLOW MAGNETIC FLOWMETER, ROSEMOUNT: 8705TSA060C1W0N0G1	In Stock	Low	N/A	
RAW WATER STORAGE TANK LEVEL RADAR - LEVEL TRANSMITTER, ROSEMOUNT: 5402AH1E64SPVCAM1C1S3	In Stock	Low	N/A	
RAW WATER PUMP 1 & 2, DISCHARGE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT: 3051S2TG2A2A11A1AB4M5Q4	In Stock	Low	N/A	
REGULATOR, SIGNAL PRESSURE	In Stock	Low	N/A	
STAGE 2 TEMPERATURE CONTROL VALVE - AIR SIGNAL PRESSURE REGULATOR, FISHER: 67CF-1663-38656	In Stock	Low	N/A	
LP COMPRESSOR BLEED VALVE SOLENOID, ASCO: JKC8316G034V	In Stock	Medium	N/A	
COMPRESSOR BLADE PATH THERMOCOUPLE, DUPLEX TYPE K	In Stock	High	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
STARTING PACKAGE TORQUE CONVERTER PRESSURE GAUGE, KOENIG:BAC-160-25	In Stock	Low	N/A	
CAPSUHELIC GAUGE 0-6" W.C., PNEUMAFIL:551646-B1	In Stock	Low	N/A	
INTAKE AIR STATIC FINAL-FILTER - DIFFERENTIAL PRESSURE INDICATOR, DWYER INSTRUMENTS:4006	In Stock	Low	N/A	
INTAKE AIR STATIC PRE-FILTER - DIFFERENTIAL PRESSURE INDICATOR, DWYER INSTRUMENTS:4002	In Stock	Low	N/A	
CAPSUHELIC GAUGE 0-2" W.C., PNEUMAFIL:551646-B6	In Stock	Low	N/A	
PRESSURE TRANSMITTER 0-300 PSI 4-20MA, ROSEMOUNT:3051TA3A2B21AES	In Stock	Medium	N/A	
PRESSURE REGULATOR - AIR SUPPLY FROM INST AIR COMPRESSOR, FISHER:FS64-29	In Stock	Medium	N/A	
INSTR. AIR COMPRESSOR PRESSURE GAUGE, AIR CENTERS OF FLORIDA:5ZP76	In Stock	Medium	N/A	
PRESSURE GAUGE - FOR INSTR AIR COMPRESSOR, ASHCROFT:45-1377204b, RANGE:0-200 PSI	In Stock	Low	N/A	
PRESSURE REGULATING GAUGE - AIR SUPPLY FROM INSTR AIR COMPRESSOR, FAIRCHILD:4066AT	In Stock	Low	N/A	
PRESSURE GAUGE 0-160PSI, LIQUID FILLED BACK MOUNT, STAINLESS STEEL, AUTOMATION DIRECT:G25-SL160-4LB	In Stock	Low	N/A	
PRESSURE GAUGE 0-100PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4LS	In Stock	Low	N/A	
PRESSURE GAUGE 0-100PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4CS	In Stock	Low	N/A	
PRESSURE GAUGE 0-500PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11142N-GF	In Stock	Low	N/A	
PRESSURE GAUGE 0-500 PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11122N-GF	In Stock	Low	N/A	
TRANSMITTER, DEW POINT -100F	In Stock	Medium	N/A	
-40F AND -100F, INGERSOLL RAND P/N 23182603	In Stock	Low	N/A	
TRUCK UPLOADING GROUND VERIFICATION MONITOR, 8030-120 GROUND VERIFICATION MONITOR, CIVACON	In Stock	Low	N/A	
MOTOR, FLAP ACTUATOR	In Stock	Low	N/A	
JOHNSON CONTROLS, JCI M9132-GGA-1	In Stock	Low	N/A	
BRUSH, CARBON MOTOR	In Stock	Medium	N/A	
1 SET = 2 PIECES, ABB: GPFX052143P0098	In Stock	Medium	N/A	
GENERATOR JACKING OIL - SOLENOID VALVE, SUN HYDRAULICS:DLDA-MCN	In Stock	Medium	N/A	
MOTOR, 10 HP DC TURNING GEAR	In Stock	High	N/A	
KOENIG: DG6711A	In Stock	High	N/A	
MOTOR, BALDOR	In Stock	Medium	N/A	
BALDOR:VEM3770T NEMA	In Stock	Medium	N/A	
TURNING GEAR MOTOR BRUSH SET, 419904-51AC	In Stock	Low	N/A	
COUPLING, PUMP/MOTOR	In Stock	Low	N/A	
SIZE 1040T20, FLEXIBLE GRID TYPE, VERTICAL ORIENTATION, MANUFACTURER:FALK	In Stock	Low	N/A	
RELAY, DPDT 120VAC	In Stock	Medium	N/A	
RCP8002 120AC	In Stock	Medium	N/A	
RELAY, TPDT 120VAC	In Stock	Medium	N/A	
RCP1103 120AC	In Stock	Medium	N/A	
CUT-OUT, AUTO	In Stock	Low	N/A	
AUTO CUT-OUT, CHROMOLOX:168-053169-1 05	In Stock	Low	N/A	
FUSE, AGC 1A 250V	In Stock	Low	N/A	
AGC-1	In Stock	Low	N/A	
FUSE, AGC 3A 250V	In Stock	Low	N/A	
FUSE, POWER CLASS J 45A	In Stock	Low	N/A	
A4J45	In Stock	Low	N/A	
FUSE, PRIMARY 20A	In Stock	Low	N/A	
ATQR20	In Stock	Low	N/A	
FUSE, SECONDARY 8A	In Stock	Low	N/A	
ATQR8	In Stock	Low	N/A	
CONTACTOR, 50A 120VAC	In Stock	Low	N/A	
42CF35AF	In Stock	Low	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
FUSE, PANEL HEATER 4.5A	In Stock	Low	N/A	
PANEL HEATER FUSE 4.5A, ATQR4.5				
FUSE, AC 25A	In Stock	Low	N/A	
ATQR25				
FUSE, SIEMENS PG	In Stock	Low	N/A	
SIEMENS PG 840C208F01				
FUSE, 15.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-15.0				
FUSE, 5.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-5.0				
FUSE, 1.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-1				
FUSE, 2.0A 300 VDC	In Stock	Low	N/A	
BUSSMAN:LP-CC-2				
FUSE, 3.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-3.0				
FUSE, 12A	In Stock	Low	N/A	
FUSE 12A, SIEMENS:S00232012				
FUSE, 2AMP	In Stock	Low	N/A	
FUSE 2 AMP, GMC-2-A, BUSSMAN:GMC-2-A				
FUSE, 3AMP GMC-R	In Stock	Low	N/A	
FUSE 3AMP, BUSSMAN:GMC-3-R				
FUSE, 3A E-CELL	In Stock	Low	N/A	
E-CELL FUSE 3A, BUSSMAN:3060756				
FUSE, 25A E-CELL	In Stock	Low	N/A	
E-CELL FUSE 25A, BUSSMANN:1154697				
FUSE, 2A E-CELL	In Stock	Low	N/A	
E-CELL FUSE 2A, BUSSMANN:3060755				
FUSE, 6A GMC-6A	In Stock	Low	N/A	
6AMP, GMC-6A, BUSSMANN:LWT7345				
FUSE, 1.25A GMC-1.25A	In Stock	Low	N/A	
FUSE 1.25 AMP, GMC-1.25-A, BUSSMANN:LWT9119				
FUSE, 8A E-CELL	In Stock	Low	N/A	
E-CELL FUSE 8A, MERSEN ELECTRIC POWER:3060752				
REPLACEMENT FUSE FOR AC PIMS, BENTLY NEVADA:1720025	In Stock	Low	N/A	
CONTACT BLK 1NC, SIEMENS:52BAK	In Stock	Low	N/A	
PILOT LIGHT ASSEMBLY AMBER 120VAC, A13200-05	In Stock	Low	N/A	
MODULE, TMR I/O	In Stock	High	N/A	
I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS)(4 X PROX/ACCEL)				
MODULE, TMR I/O	In Stock	High	N/A	
PROX/SEISMIC TMR I/O WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:126632-01				
MODULE, PROX/VELOM I/O	In Stock	High	N/A	
PROX/VELOM I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:140471-01				
MODULE, PROX/VELOM I/O	In Stock	High	N/A	
PROX/VELOM I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:140482-01				
MODULE, SHAFT ABSOLUTE	In Stock	High	N/A	
SHAFT ABSOLUTE I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:138708-01				
PROX/SEISMIC I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:128240-01	In Stock	High	N/A	
I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS) (4 X VELOMITER), BENTLY NEVADA:135489-03	In Stock	High	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
SHAFT ABSOLUTE I/O MODULE WITH - EXTERNAL TERMINATIONS, BENTLY NEVADA:138700-01	In Stock	High	N/A	
PROX/SEISMIC I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:128229-01	In Stock	High	N/A	
I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS), (2 X PROX/ACCEL + 2 X VELOMITER), BENTLY NEVADA:135489-02	In Stock	High	N/A	
DISCRETE INTERNAL BARRIERS I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:136703-01	In Stock	High	N/A	
3500/42M PROXIMATOR/SEISMIC MONITOR, BENTLY NEVADA:140734-02	In Stock	High	N/A	
DISCRETE I/O MODULE WITH - EXTERNAL TERMINATIONS, BENTLY NEVADA:133434-01	In Stock	High	N/A	
3500 BUFFERED SIGNAL OUTPUT MODULE, BENTLY NEVADA:147364-01	In Stock	High	N/A	
DISCRETE I/O MODULE WITH - INTERNAL TERMINATIONS, BENTLY NEVADA:133422-01	In Stock	High	N/A	
115VAC PILOT LAMP - VARIOUS SKIDS, RADWELL INTERNATIONAL:DSN130	In Stock	Low	N/A	
3500/50 MODULE, BENTLY NEVADA:133388-02	In Stock	High	N/A	
WEATHER STATION DRY BULB TEMP A, VAISALA: HMVT3301A08101CGAB200B01CABAA1	In Stock	Low	N/A	
R-DIODE	In Stock	Medium	N/A	
SIEMENS PG:840C411F04	In Stock	Medium	N/A	
F-DIODE	In Stock	Medium	N/A	
SIEMENS PG:840C411F03	In Stock	Medium	N/A	
CAPACITOR ASSEMBLY, RC	In Stock	Medium	N/A	
SIEMENS PG:153C684	In Stock	Medium	N/A	
DESICCANT, 4-8 GRADE D	In Stock	Low	N/A	
INGERSOLL RAND 50# BAG	In Stock	Low	N/A	
ELECTRICAL PACKAGE THERMAL DETECTOR, KIDDE-FENWAL:27121-160	In Stock	Low	N/A	
MECHANICAL PACKAGE THERMAL DETECTOR, KIDDE-FENWAL:27121-225	In Stock	Low	N/A	
SMOKE DETECTOR, NOTIFIER:FSI-851	In Stock	Low	N/A	
TURBINE ENCLOSURE THERMAL DETECTOR, KIDDE-FENWAL:27121-325	In Stock	Medium	N/A	
E-CELL SOLENOID VALVE, EMERSON:3022390	In Stock	Low	TBD	
STAGE #3 DISC CAVITY TEMPERATURE - CONTROL VALVE, 3", FISHER:A41-1032425AS	In Stock	High	N/A	
LO BEARING PRESSURE REGULATING VALVE, FISHER:44 ACTUATOR 4 BODY 655ED	In Stock	Medium	N/A	
INLET SHUTTLE VALVE, SURESITE:4010031	In Stock	Low	N/A	
TRANSMITTER, GROUND FAULT	In Stock	Medium	N/A	
SIEMENS PG:153C691G02	In Stock	Medium	N/A	
BEARING LUBE OIL SUPPLY TEMPERATURE - THERMOCOUPLE; PYCO:02-3:174 W/16-0049 (TYPE K)	In Stock	Medium	N/A	
TURBINE GENERATOR SPEED PICK UP, BRAUN:A5S08T165G0.5	In Stock	High	N/A	
GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE:BIT-H32	In Stock	Medium	N/A	
HYD FLUID CONDITIONING LOOP - PRESSURE INDICATOR, 2-1/2", REXROTH:/400PUA31-10A-4 JIC	In Stock	Low	N/A	
HYD FLUID RESERVOIR LOW LEVEL SWITCH; REXROTH:500PUA31-05 2 SW	In Stock	Low	N/A	
SPEED CONTROL, BRONZE, NUMATICS A1MN, EMERSON:LWT21254	In Stock	Low	N/A	
ORP PREAMPLIFIER, RYAN HERCO:5905-273	In Stock	Medium	N/A	
THERMOCOUPLE, DISC CAVITY	In Stock	Medium	N/A	
LPG INDUSTRIES INC. P/N: 2335C32-001 (THERMOCOUPLE ONLY)	In Stock	Medium	N/A	
THERMOCOUPLE, DISC CAVITY	In Stock	Medium	N/A	
DISC CAVITY THERMOCOUPLE	In Stock	Medium	N/A	
LPG INDUSTRIES INC. P/N: 2335C32-004 (THERMOCOUPLE ONLY)	In Stock	Medium	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
THERMOCOUPLE,DISC CAVITY DISC CAVITY THERMOCOUPLE LPG INDUSTRIES INC. P/N: 2335C32-003 (THERMOCOUPLE ONLY)	In Stock	Medium	N/A	
TWO LAYER CONTACT BRUSH, SIEMENS:EMT 513-005, 20X8X32 EG5UJ/AG20 POLISHING LOOP PRESSURE RELIEF VALVE, REXROTH:RR00347261	In Stock	Medium	N/A	
HP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/4SPDT	In Stock	Low	N/A	
LP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/6SPDT	In Stock	Medium	TBD	
TORQUE CONVERTER SPEED PICK UP, ELECTRO CORP:725833	In Stock	Medium	TBD	
SWITCH, STAGER 48-03	In Stock	Medium	N/A	
STAGER (110V) SERIES 48-03 - W/HOMING SWITCH, OSMONICS: 48-03	In Stock	Low	N/A	
VALVE, ACTUATOR ACTUATOR, VALWORX:561055A, ELECT FOR RO INLET VALVE & RINSE VALVE -RO SKID	In Stock	Low	N/A	
SENSOR, VIBRATION GENERATOR TURBINE END VIBRATION X, BENTLY NEVADA: 3300 SERIES	In Stock	High	N/A	
TURBINE EXHAUST END VIBRATION X RELATIVE SENSOR, BENTLY NEVADA: 3500 SERIES	In Stock	High	TBD	
ANIZR,COND,8619,24V,4-20MA,BUR WATERTECH SERVICES: 3059496	In Stock	Medium	N/A	
E-CELL INLINE FLOW SENSOR, BURKERT: 3059466	In Stock	Medium	TBD	
E-CELL PRESSURE SWITCH, AUTOMATION DIRECT:30393305	In Stock	Medium	N/A	
PLC-GE, QP+, 7" COLOR, 24VDC, WATERTECH SERVICES: 3134672	In Stock	Medium	N/A	
SENSOR-FLOW, BUR, INLINE, SE30 WATERTECH SERVICES: 3059466	In Stock	Medium	N/A	
E-CELL FLOW SENSOR 8020 SHORT, BURKERT:3033067	In Stock	Medium	TBD	
METER, 30-199.9 MV E-CELL 30-199.9 MV, METER, GENERAL ELECTRIC: 3038073	In Stock	Low	N/A	
TRANSMITTER, PRESSURE E-CELL PRESSURE TRANSMITTER, BURKERT:3059497	In Stock	Medium	N/A	
COMBUSTOR SHELL PRESS TRANSMITTER, SIEMENS:7MF4233-1HA10-1AC1-Z+B21+Y01+Y15	In Stock	High	N/A	
BEARING OIL PRESSURE TRANSMITTER, SIEMENS: 7MF4033-1CA10-1AC7-Z+B21+A02+Y01+Y21+Y15+Y16	In Stock	Low	N/A	
THERMOCOUPLE, TEMPERATURE STARTING PACKAGE MOTOR STATOR - TEMPERATURE THERMOCOUPLE, S102629PD-120T305296	In Stock	Medium	N/A	
THERMOCOUPLE, TEMPERATURE STARTING PACKAGE MOTOR FORWARD - BEARING TEMPERATURE T/C , S16820PD-300296	In Stock	Medium	N/A	
SWITCH, AUXILIARY AUX SWITCH, SIEMENS:A011LD64	In Stock	Low	N/A	
OIL, COMPRESSOR ALL SEASON SELECT OIL, INGERSOLL RAND 38436721	In Stock	Medium	N/A	
KIT, E-CELL CLAMP SET: 3033064 PLC-AB, ANLG, 4-20, MA, 4IN, 1762-1F4: 1227751	In Stock	Low	N/A	
SENSOR, CONDUCTIVITY SENSOR-COND,PVDF,0.01CEL,BUR,8220: 3059495	In Stock	Medium	N/A	
TERMINAL-FUSE,IP TYPE CC,AB: 1235396	In Stock	Low	N/A	
TERMINAL-FUSE,LED,10-57VAC/VDC,1492-H5: 1152328	In Stock	Low	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
FUSE-DELAY,600V,CLASS CC,6A,BUS: 3054531	In Stock	Low	N/A	
FUSE-BLOCK,600V,100A,MODULAR,BUS: 3020468	In Stock	Low	N/A	
FUSE-FAST,700V,80A,BUS: 3010595	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,3.5A,LP-CC,BUS: 3126308	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,2A,BUS: 3060753	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,4A,LP-CC,4,BUS: 3060754	In Stock	Low	N/A	
FUSE-FAST,250V,CERAMIC,1A,BUS: 3055154	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,1A,BUS: 3029658	In Stock	Low	N/A	
FUSE-BLOCK,690V,MIDGET,MERSEN,USM1: 3146420	In Stock	Low	N/A	
PLC-GE,OP4,7" COLOR,24VDC,IC755CSW07CDA: 3134672	In Stock	Medium	N/A	
PLC-AB,DIGITAL,24VDC,8 IN,1762-IQ8: 1224240	In Stock	Medium	N/A	
PLC-AB,20D/I,2DO/4AI/4AO,1766-132BXA: 3060729	In Stock	Medium	N/A	
XFMR-CONTROL	In Stock	Medium	N/A	
XFMR-CNTRL,230/575,1.15-50/60,500VA,5Q-D: 3060802	In Stock	Low	N/A	
POWER SUPPLY, 24VDC	In Stock	Low	N/A	
POWER-SUP,PHOENIX,TRIO,24VDC,5A: 3037802	In Stock	Low	N/A	
SWITCH, PUSH BUTTON	In Stock	Low	N/A	
SWITCH-P-B,JEC,1INC,MAN,BLK,800FP: 3007466	In Stock	Low	N/A	
SWITCH-PUSH PULL,24VDC,JEC,MUSHRM,IL,RED: 3006380	In Stock	Medium	N/A	
RELAY,3PDT,24VDC,10A,700-HA33Z24: 1152099	In Stock	Medium	N/A	
RELAY,SPDT,24VDC,10A,FINDER,40.31: 3040656	In Stock	Medium	N/A	
E-CELL EDI STACKS, MK3X	In Stock	Low	N/A	
SEAL MECHANICAL FOR FORWARDING PUMPS: 98511844	In Stock	Low	N/A	
SEAL MECHANICAL FOR RO PUMP: 9644664	In Stock	Low	N/A	
FLOW SENSOR TURBINE W/ CABLE - VARIOUS SKIDS: CW237	In Stock	Low	N/A	
BLUEWHITE CHEMICAL INJECTION PUMP: A1N00F-4T	In Stock	Low	N/A	
SOFT STARTER FOR RO: TLQAT5222D4,756U	In Stock	Low	N/A	
PLC, PREPROGRAMMED - RO SKID	In Stock	Medium	N/A	
PREPROGRAMMED PLC - RO SKID: DO-06DR-RO	In Stock	Low	N/A	
SWITCH, 3-POSITION, 22MM	In Stock	Low	N/A	
3-POSITION SWITCH 22MM: GCX3320-22	In Stock	Low	N/A	
ACTUATOR ELECT FOR RO INLET VA	In Stock	Low	N/A	
WATERTECH SERVICES: V561055A	In Stock	Low	N/A	
SWITCH, 2-POSITION, 22MM	In Stock	Low	N/A	
2-POSITION SWITCH 22MM: GCX3300	In Stock	Low	N/A	
COLOR TOUCHSCREEN INTERFACE, 6"	In Stock	Medium	N/A	
PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE PERMEATE PUMP SKID: W5EA9-PERM	In Stock	Medium	N/A	
PLC, PREPROGRAMMED - PERMATE SKID	In Stock	Medium	N/A	
PREPROGRAMMED PLC - PERMEATE PUMP SKID: DO-06DR-D-PERM	In Stock	Medium	N/A	
PLC, PREPROGRAMMED - RAW WATER SKID	In Stock	Medium	N/A	
PREPROGRAMMED PLC - RAW WATER PUMP SKID: DO-06DR-RW	In Stock	Medium	N/A	
COLOR TOUCHSCREEN INTERFACE, 6"	In Stock	Medium	N/A	
PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE RAW WATER PUMP SKID: W5EA9-RW	In Stock	Medium	N/A	
COLOR TOUCHSCREEN INTERFACE, 8"	In Stock	Medium	N/A	
PREPROGRAMMED 8" COLOR TOUCHSCREEN OPERATOR INTERFACE REVERSE OSMOSIS SKID: W5EA9-8RO	In Stock	Medium	N/A	



**Critical Spares Status
Holyrood – Gas Turbine**

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
COLOR TOUCHSCREEN INTERFACE, 10" PREPROGRAMMED 10" COLOR TOUCHSCREEN OPERATOR INTERFACE REVERSE OSMOSIS SKID: W5EA9-10 RO	In Stock	Medium	N/A	
ORP PREAMPLIFIER WATERTECH SERVICES: 5909-273	In Stock	Low	N/A	
CONDUCTIVITY MODULE FOR MULTIFUNCTION MONITOR - RO: 5908.494 Exhaust Thermocouples	In Stock	Low	N/A	Rake assembly & replacement thermocouple. One showed damaged and another is enroute.

**Critical Spares Status
Happy Valley – Gas Turbine**

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
Pressure Switch Pressure Switch (PDSH-601; Sheet 1 - Left-Centre), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch High (PSH-620; Sheet 3 - Left), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch High (PSH-621; Sheet 3 - Centre-Left), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch High (PSH-623; Sheet 3 - Top-Left), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch High (PSH-624; Sheet 3 - Top-Left), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch Low (PSL-604; Sheet 2 - Left), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch Low (PSL-609; Sheet 2 - Centre), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch Low (PSL-613; Sheet 3 - Top-Centre), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch Low (PSL-617; Sheet 3 - Low-Centre), Lubrication System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch (E42-PS1; AB4), Glycol Cooling System	In Stock	Medium	N/A	
Pressure Switch Pressure Switch (E42-PS2; AB5,6), Glycol Cooling System	In Stock	Medium	N/A	
THERMOCOUPLE;P&W 1081998 THERMOCOUPLE, IMMERSION FOR PRATT & WHITNEY FT8 GAS TURBINE P&W #1081998	In Stock	Medium	N/A	
Fuel Filter Fuel Fwd. Skid Fuel Filter (E31-F1; E6)	In Stock	High	N/A	
Lube oil filter Lube Oil Skid Fuel Filter (E31-F4; EF4)	In Stock	High	N/A	
DC Fuel pump (E31-P1; E7)	In Stock	High	N/A	
AC Fuel Pump (E31-P3; C7)	In Stock	High	N/A	
Pressure Differential Switch (E31-PDS1; F6) Fuel System	In Stock	Medium	N/A	
Pressure Switch (E31-PS1; D7) Fuel system	In Stock	Medium	N/A	
Pressure Switch (E31-PS2; D7) Fuel system	In Stock	Medium	N/A	
Pressure Switch Low (E31-PSL4; F4), Fuel System	In Stock	Medium	N/A	
Pressure Shutdown Low (E31-PSLL1; F4), Fuel System	In Stock	Medium	N/A	
Solenoid Valve (E31-SV1; E2), Fuel System	In Stock	High	N/A	
Solenoid Valve (E31-SV2; E2), Fuel System	In Stock	High	N/A	



**Critical Spares Status
Happy Valley – Gas Turbine**

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
Solenoid Valve (E31-SV3; D2), Fuel System	On Order	Low	15-Dec-21	
Solenoid Valve (E31-SV4; E2), Fuel System	On Order	Low	15-Dec-21	
Solenoid Valve (E31-SV6; D8), Fuel System	In Stock	High	N/A	
Filter (F-601; Sheet 1 - Centre-Left), Lubrication System	In Stock	High	N/A	
AC Motor (M-601; Sheet 2 - Left), Lubrication System	Capital Spare On Order	High	15-Dec-21	
DC Motor (M-602; Sheet 2 - Low-Left), Lubrication System	In Stock	High	N/A	
Pump (MOP-601; Sheet 2 - Left), Lubrication System	In Stock	Medium	N/A	
Temperature Control Valve (TCV-601; Sheet 1 - Right), Lubrication System	In Stock	Low	N/A	
Level Switch (LSL-601 & LSL-601; Sheet 1 - Centre-Right), Lubrication System P&W No. CT110085	In Stock	Low	N/A	
Temperature RTD (TE-601; Sheet 1 - Centre), Lubrication System P&W No. CT112558	In Stock	Low	N/A	
AC Fan Motor (E42-FM1; C7), Glycol Cooling System	In Stock	High	N/A	
Pump (E42-P1; B5), Glycol Cooling System	In Stock	High	N/A	
AC Pump Motor (E42-PM1; B5), Glycol Cooling System	In Stock	High	N/A	
Self-Actuating Control Valve (E42-TCV1; B6), Glycol Cooling System	In Stock	High	N/A	
Fan Vibration Switch (E42-VSH1; C7,8), Glycol Cooling System	In Stock	Medium	N/A	
Fan Vibration Switch (E42-VSH2; BC7,8), Glycol Cooling System	In Stock	Medium	N/A	
Pneumatic Actuator (E50-PA 1; Sheet 2 - D6), Air Supply System	In Stock	Medium	N/A	
Solenoid Valve (E50-SV1; Sheet 1 - A6), Air Supply System	In Stock	Low	N/A	
Solenoid Valve (E50-SV2; Sheet 1 - C5,6), Air Supply System	In Stock	Low	N/A	
Solenoid Valve (E50-SV3; Sheet 1 - C5,6), Air Supply System	In Stock	Low	N/A	
Solenoid Valve (E50-SV4; Sheet 1 - C3,4), Air Supply System	In Stock	Low	N/A	
Solenoid Valves (E50-SV5 through E50-SV 35; Sheet 2 - B8), Air Supply System	In Stock	Low	N/A	
Solenoid Valve (E50-SV 36; Sheet 2 - C5,6), Air Supply System	In Stock	Low	N/A	
Solenoid Valve (E50-SV 37; Sheet 2 - AB5), Air Supply System	In Stock	Low	N/A	
Limit Switch (E50-V 31; Sheet 2 - BC6,7), Air Supply System	In Stock	Low	N/A	
Limit Switch (E50-V 32; Sheet 2 - B6,7), Air Supply System	In Stock	Low	N/A	
Limit Switch (E50-V 33; Sheet 2 - B6,7), Air Supply System	In Stock	Low	N/A	
Limit Switch (E50-V 34; Sheet 2 - B6,7), Air Supply System	In Stock	Low	N/A	



Appendix G

Critical Spares Status Listing – Hydraulic Generation

Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
BDE - ACCUMULATOR TANK Level switch	In Stock		N/A	N/A
BDE - ACCUMULATOR TANK Pressure switch	In Stock		N/A	N/A
BDE - ADAPTER, REMOTE I/O	In Stock		N/A	N/A
BDE - ADAPTER, REMOTE I/O	In Stock		N/A	N/A
BDE - ADAPTER, REMOTE I/O	In Stock		N/A	N/A
BDE - ADAPTER, REMOTE I/O	In Stock		N/A	N/A
BDE - BACKPLANE, 10 SLOT MODICON	In Stock		N/A	N/A
BDE - BACKPLANE, 10 SLOT MODICON	In Stock		N/A	N/A
BDE - BACKPLANE, 10 SLOT MODICON	In Stock		N/A	N/A
BDE - BACKPLANE, 10 SLOT MODICON	In Stock		N/A	N/A
BDE - BDE - PUMP, OIL IMO A3DB-275	In Stock		N/A	N/A
BDE - BEARING KIT, IR 32127474	In Stock		N/A	N/A
BDE - BEARING KIT, IR 32127474	In Stock		N/A	N/A
BDE - BELT, V IR 95100160	In Stock		N/A	N/A
BDE - BELT, V IR 95100160	In Stock		N/A	N/A
BDE - BELT, V IR 95100558	In Stock		N/A	N/A
BDE - BELT, V IR 95100558	In Stock		N/A	N/A
BDE - BOARD ASSY, IRD 24144	In Stock		N/A	N/A
BDE - BOARD ASSY, IRD 24144	In Stock		N/A	N/A
BDE - C/T 50/51	In Stock		N/A	N/A
BDE - CABLE, SERIES 925 RESOLVER	In Stock		N/A	N/A
BDE - CABLE, SERIES 925 RESOLVER	In Stock		N/A	N/A
BDE - CARD, IRD 31649	In Stock		N/A	N/A
BDE - CARD, IRD 31649	In Stock		N/A	N/A
BDE - CARD, PRINTED CIRCUIT	In Stock		N/A	N/A
BDE - CARD, PRINTED CIRCUIT	In Stock		N/A	N/A
BDE - COIL, AB CC236	In Stock		N/A	N/A
BDE - COIL, AB CC236	In Stock		N/A	N/A
BDE - COIL, SULL 250018-971	In Stock		N/A	N/A
BDE - CONTACT, CONTACTOR-TYPE DG-1	In Stock		N/A	N/A
BDE - CONTACT, CONTACTOR-TYPE DG-1	In Stock		N/A	N/A
BDE - CREEP DETECTOR ASSY, 129 VCD	In Stock		N/A	N/A
BDE - CREEP DETECTOR ASSY, 129 VCD	In Stock		N/A	N/A
BDE - DISCONNECT SWITCH 29-1 - Complete Unit	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD, ABB HIEE200130R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD, ABB HIEE205011R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD, ABB HIEE205012R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD, ABB HIEE205014R0001	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300661R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300686R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300690R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300698R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300766R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305043R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305069R0001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE30598R1	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - CARD,ABB HIEE401481RD001	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - COIL,ABB HIER464920P1	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - Field Flashing Resistor	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - Field Flashing Resistor	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - MAINBOARD,ABB HIER465176R22	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - RESISTOR,FIELD DISCHARGE	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - SHUNT,ABB UXAB269330R909	In Stock		N/A	N/A
BDE - EXCITATION CONTROLS - VARISTOR,ABB 3ACD5245A003	In Stock		N/A	N/A
BDE - Exciter POWER ELECTRONICS - BRIDGE,ABB S00772	In Stock		N/A	N/A
BDE - Exciter POWER ELECTRONICS - FAN ASSY,ABB 500773	In Stock		N/A	N/A
BDE - Exciter POWER ELECTRONICS - FUSE,ABB 6,6URD32TTF0800	In Stock		N/A	N/A
BDE - Exciter POWER ELECTRONICS - Pulse Transformers	In Stock		N/A	N/A
BDE - Exciter POWER ELECTRONICS - THYRISTOR,ABB 5STP27F1200	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - ARC-CHUTE,ABB UXAB269399R012	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - BREAKER,ABB HIER466757P2331 (entire unit)	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB239299R0003	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB239260R002	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB269399R032	In Stock		N/A	N/A
BDE - FIELD BREAKER Q02 - PANEL EE - SHUNT,ABB UXAB269350R909	In Stock		N/A	N/A
BDE - FILTER,AIR (ELEMENT ONLY)	In Stock		N/A	N/A
BDE - FILTER,COOLANT (ELEMENT ONLY)	In Stock		N/A	N/A
BDE - GAS,INERGEN (350F3)	In Stock		N/A	N/A
BDE - GAS,INERGEN (425F3)	In Stock		N/A	N/A
BDE - GASKET KIT,IR X1453T47	In Stock		N/A	N/A
BDE - GASKET SET,IR 30423339	In Stock		N/A	N/A
BDE - GASKET SET,IR 30423339	In Stock		N/A	N/A
BDE - GASKET,FLEXMASTER 250007-559	In Stock		N/A	N/A
BDE - GASKET,SULL 040517	In Stock		N/A	N/A
BDE - GATE HOIST - BAY D'ESPOIR - ST - Remote I/O Adapter	In Stock		N/A	N/A
BDE - GENERATOR - CREEP DETECTOR ASSY,129 VCD	In Stock		N/A	N/A
BDE - GENERATOR - PLATES,BRAKE (24 PER SET)	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - GENERATOR - SWITCH, WOODWARD 8935-139	In Stock		N/A	N/A
BDE - Generator SLIPRING/BRUSH RIGGING - Brush Holders	In Stock		N/A	N/A
BDE - Generator SLIPRING/BRUSH RIGGING - Carbon Brushes	In Stock		N/A	N/A
BDE - Generator SLIPRING/BRUSH RIGGING - Slip Ring	In Stock		N/A	N/A
BDE - GOVERNOR - BEARING, DASHPOT LINK	In Stock		N/A	N/A
BDE - GOVERNOR - BRACKET, WOODWARD 11002-57	In Stock		N/A	N/A
BDE - GOVERNOR - BRACKET, WOODWARD 91588	In Stock		N/A	N/A
BDE - GOVERNOR - BUSHING, DASHPOT - LARGE	In Stock		N/A	N/A
BDE - GOVERNOR - BUSHING, DASHPOT - SMALL	In Stock		N/A	N/A
BDE - GOVERNOR - BUSHING, PILOT VALVE	In Stock		N/A	N/A
BDE - GOVERNOR - BUSHING, SNAP ACTION	In Stock		N/A	N/A
BDE - GOVERNOR - BUSHING, WW 11002-65	In Stock		N/A	N/A
BDE - GOVERNOR - CABLE, AIRCRAFT 1/4 187083	In Stock		N/A	N/A
BDE - GOVERNOR - CLIP, WW 11002-16	In Stock		N/A	N/A
BDE - GOVERNOR - COIL, DASHPOT	In Stock		N/A	N/A
BDE - GOVERNOR - COIL, PARTIAL SHUTDOWN RESET	In Stock		N/A	N/A
BDE - GOVERNOR - COIL, SHUTDOWN SOLENOID	In Stock		N/A	N/A
BDE - GOVERNOR - COIL, SHUTDOWN SOLENOID 65SD	In Stock		N/A	N/A
BDE - GOVERNOR - COIL, WW 202132	In Stock		N/A	N/A
BDE - GOVERNOR - CONTACT, CONTACTOR-TYPE DG-	In Stock		N/A	N/A
BDE - GOVERNOR - DASHPOT, WW 161314	In Stock		N/A	N/A
BDE - GOVERNOR - DIODE, WW 202891	In Stock		N/A	N/A
BDE - GOVERNOR - DISC, RELIEF VALVE	In Stock		N/A	N/A
BDE - GOVERNOR - DISC, UNLOADER	In Stock		N/A	N/A
BDE - GOVERNOR - FILTER, HYD 932633Q	In Stock		N/A	N/A
BDE - GOVERNOR - GASKET KIT, WOODWARD 8926-137	In Stock		N/A	N/A
BDE - GOVERNOR - GASKET, WOODWARD 1327-816	In Stock		N/A	N/A
BDE - GOVERNOR - GASKET, WOODWARD 206317	In Stock		N/A	N/A
BDE - GOVERNOR - LEVER, CONNECTING LOWER	In Stock		N/A	N/A
BDE - GOVERNOR - LEVER, LOWER FLOATING	In Stock		N/A	N/A
BDE - GOVERNOR - LEVER, UPPER FLOATING	In Stock		N/A	N/A
BDE - GOVERNOR - LINK, WOODWARD 070346	In Stock		N/A	N/A
BDE - GOVERNOR - LOCKWASHER, BEARING	In Stock		N/A	N/A
BDE - GOVERNOR - MOTOR ASSY, C/W SHAFT & GEAR	In Stock		N/A	N/A
BDE - GOVERNOR - MOTOR ASSY, GATE LIMIT	In Stock		N/A	N/A
BDE - GOVERNOR - MOTOR, VIBRATING OIL	In Stock		N/A	N/A
BDE - GOVERNOR - MOTOR, GOVERNOR SPEED 28 VOLT	In Stock		N/A	N/A
BDE - GOVERNOR - MOTOR, SYNCHRONIZING	In Stock		N/A	N/A
BDE - GOVERNOR - PIN, BALLARM	In Stock		N/A	N/A
BDE - GOVERNOR - PIN, DASHPOT	In Stock		N/A	N/A
BDE - GOVERNOR - PIN, LOWER DRIVE	In Stock		N/A	N/A

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BDE - GOVERNOR - PIN,PIVOT	In Stock		N/A	N/A
BDE - GOVERNOR - PIN,WOODWARD 11002-71	In Stock		N/A	N/A
BDE - GOVERNOR - PIN,WOODWARD 11002-75	In Stock		N/A	N/A
BDE - GOVERNOR - PLUNGER,SNAP ACTION	In Stock		N/A	N/A
BDE - GOVERNOR - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock		N/A	N/A
BDE - GOVERNOR - RETAINER,SWITCH	In Stock		N/A	N/A
BDE - GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock		N/A	N/A
BDE - GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock		N/A	N/A
BDE - GOVERNOR - SOLENOID,125 V DC	In Stock		N/A	N/A
BDE - GOVERNOR - SOLENOID,125VDC 211E	In Stock		N/A	N/A
BDE - GOVERNOR - SPRING,PILOT VALVE LINK	In Stock		N/A	N/A
BDE - GOVERNOR - SPRING,RELIEF	In Stock		N/A	N/A
BDE - GOVERNOR - SPRING,UNLOADER	In Stock		N/A	N/A
BDE - GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock		N/A	N/A
BDE - GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BALLARM,SPEED SWITCH	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,PMG P/N Z995205	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,SPEED SIGNAL	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 111006	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 18000125	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE LOWER D	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE UPPER D	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - PIN,BALLARM	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - PIN,DOWEL - SPEED SWITCH	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - PIN,ROCKER ARM	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - PIN,TAPERED	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - PLATE,MOUNTING - MERCURY	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - RING,ROTOR	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - SPRING,SPEED SWITCH	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - STATOR,P.M.G.	In Stock		N/A	N/A
BDE - GUIDE BEARING SEGMENTS - bearing segments,	In Stock		N/A	N/A
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER HEAD COVER P003	In Stock		N/A	N/A
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER WICKET	In Stock		N/A	N/A
BDE - Heat Sink Exciter	In Stock		N/A	N/A
BDE - INTAKE GATE - BACKPLANE,6 SLOT MODICON	In Stock		N/A	N/A
BDE - INTAKE STRUCTURE NO. 1 - TRANSMITTER,PRESS 0-6MH20	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - CT 50/51	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - Surge Capacitor	In Stock		N/A	N/A

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BDE - MODULE,RACK FILLER	In Stock		N/A	N/A
BDE - MODULE,RACK FILLER	In Stock		N/A	N/A
BDE - MODULE,RACK FILLER	In Stock		N/A	N/A
BDE - MODULE,RELAY OUT	In Stock		N/A	N/A
BDE - MODULE,RELAY OUT	In Stock		N/A	N/A
BDE - MODULE,RELAY OUT	In Stock		N/A	N/A
BDE - MODULE,RELAY OUT	In Stock		N/A	N/A
BDE - MONITOR,15" TOUCHSCREEN	In Stock		N/A	N/A
BDE - MONITOR,15" TOUCHSCREEN	In Stock		N/A	N/A
BDE - MOTOR,ELECT 15HP 575V	In Stock		N/A	N/A
BDE - MOTOR,ELECT 15HP 575V	In Stock		N/A	N/A
BDE - MOTOR,SYNCHRONIZING	In Stock		N/A	N/A
BDE - MOTOR,SYNCHRONIZING	In Stock		N/A	N/A
BDE - NEUTRAL GROUND TRANSFORMER	In Stock		N/A	N/A
BDE - PACKING,V TYPE 2-EASY	In Stock		N/A	N/A
BDE - PACKING,V TYPE 2-EASY	In Stock		N/A	N/A
BDE - PACKING,V TYPE 2-EASY	In Stock		N/A	N/A
BDE - PACKING,V TYPE 2-EASY	In Stock		N/A	N/A
BDE - PANEL STATION SERVICE - PH #2 - ACB	In Stock		N/A	N/A
BDE - PEN ARM MOVEMENT ASSY,RECORDR	In Stock		N/A	N/A
BDE - PEN ARM MOVEMENT ASSY,RECORDR	In Stock		N/A	N/A
BDE - PENSTOCK NO. 1 - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
BDE - PENSTOCK NO. 2 - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
BDE - PENSTOCK NO. 3 - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
BDE - PENSTOCK NO. 4 - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
BDE - PICK-UP,MAGNETIC 5430-929	In Stock		N/A	N/A
BDE - PICK-UP,MAGNETIC 5430-929	In Stock		N/A	N/A
BDE - PICK-UP, NON-CONTACT	In Stock		N/A	N/A
BDE - PICK-UP, NON-CONTACT	In Stock		N/A	N/A
BDE - PICK-UP,SPEED SENSING	In Stock		N/A	N/A
BDE - PICK-UP,SPEED SENSING	In Stock		N/A	N/A
BDE - piston D/S	In Stock		N/A	N/A
BDE - piston U/S	In Stock		N/A	N/A
BDE - PISTON,PIN ASSY PE#32054504	In Stock		N/A	N/A
BDE - PISTON,PIN ASSY PE#32054538	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30215222	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30215222	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30215438	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30215438	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30292460	In Stock		N/A	N/A
BDE - PISTON/PIN ASSY,IR 30292460	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - PLC,Model Quantum- Modicon - ADAPTER,REMOTE I/O	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - BACKPLANE,10 SLOT MODICON	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,CPU MODICON	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE IN	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE OUT	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,GPS QUANTUM	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,HOT STANDBY	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,INTERFACE PLC	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,RACK FILLER	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - MODULE,RELAY OUT	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125 VDC	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - PLC,Model Quantum- Modicon - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A
BDE - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - POTENTIOMETER,1K OH .244 A	In Stock		N/A	N/A
BDE - POTENTIOMETER,1K OH .244 A	In Stock		N/A	N/A
BDE - POTENTIOMETER,25W 50 OHMS	In Stock		N/A	N/A
BDE - POTENTIOMETER,25W 50 OHMS	In Stock		N/A	N/A
BDE - POTENTIOMETER,SPEED	In Stock		N/A	N/A
BDE - POTENTIOMETER,SPEED	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,125 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,125 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,125 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,24VDC	In Stock		N/A	N/A
BDE - POWER SUPPLY,300W	In Stock		N/A	N/A
BDE - POWER SUPPLY,300W	In Stock		N/A	N/A
BDE - POWER SUPPLY,48VDC 240W	In Stock		N/A	N/A
BDE - POWER SUPPLY,48VDC 240W	In Stock		N/A	N/A
BDE - POWER SUPPLY,IRD PCB 29128	In Stock		N/A	N/A
BDE - POWER SUPPLY,IRD PCB 29128	In Stock		N/A	N/A
BDE - PROBE SYSTEM,CAPACITANCE	In Stock		N/A	N/A
BDE - PROBE SYSTEM,CAPACITANCE	In Stock		N/A	N/A
BDE - PROBE,CAPACITANCE	In Stock		N/A	N/A
BDE - PROBE,CAPACITANCE	In Stock		N/A	N/A
BDE - PROCESSOR,MICRO-CENTRAL	In Stock		N/A	N/A
BDE - PROCESSOR,MICRO-CENTRAL	In Stock		N/A	N/A
BDE - PROCESSOR,PLC	In Stock		N/A	N/A
BDE - PROCESSOR,PLC	In Stock		N/A	N/A
BDE - PROCESSOR,PROG C/W 1772-MJ	In Stock		N/A	N/A
BDE - PROCESSOR,PROG C/W 1772-MJ	In Stock		N/A	N/A
BDE - PROTRACTOR,ANSUL 423958	In Stock		N/A	N/A
BDE - PUMP,OIL IMO A3DB-275	In Stock		N/A	N/A
BDE - RECTIFYING TRANSFORMER - Full Unit	In Stock		N/A	N/A
BDE - RECTIFYING TRANSFORMER - Insulating Fluid	In Stock		N/A	N/A
BDE - REGULATOR KIT,SULL 250019-453	In Stock		N/A	N/A
BDE - RELAY,ADJUSTABLE AC V SENSOR	In Stock		N/A	N/A
BDE - RELAY,ADJUSTABLE AC V SENSOR	In Stock		N/A	N/A
BDE - RELAY,GROUND VOLTAGE	In Stock		N/A	N/A
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock		N/A	N/A
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock		N/A	N/A
BDE - RELAY,INSTANTANEOUS CURRENT	In Stock		N/A	N/A
BDE - RELAY,LEVEL CONTROL #1001	In Stock		N/A	N/A
BDE - RELAY,OVERCURRENT 1600A 3POLE	In Stock		N/A	N/A
BDE - RELAY,UNDERVOLTAGE 125VAC	In Stock		N/A	N/A
BDE - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A
BDE - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A
BDE - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A
BDE - RING SET,IR 32194144	In Stock		N/A	N/A
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock		N/A	N/A
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock		N/A	N/A
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock		N/A	N/A
BDE - RING,PISTON SERVO MOTOR 18"OD	In Stock		N/A	N/A
BDE - ROTOR POLES - Pole	In Stock		N/A	N/A
BDE - ROTOR SHAFT - Rotating Ring	In Stock		N/A	N/A
BDE - RUNNER - UNIT 1 - BOLT,SHAFT TO RUNNER	In Stock		N/A	N/A
BDE - seal imovable	In Stock		N/A	N/A
BDE - seal stationary	In Stock		N/A	N/A
BDE - seal stationary	In Stock		N/A	N/A
BDE - SENSOR,CABLE REEL LINEAR	In Stock		N/A	N/A
BDE - SHAFT,SERVOMOTOR 4140	In Stock		N/A	N/A
BDE - SHAFT,SERVOMOTOR 4140	In Stock		N/A	N/A
BDE - SHAFT,SERVOMOTOR 4140	In Stock		N/A	N/A
BDE - SHAFT,SERVOMOTOR 4140	In Stock		N/A	N/A
BDE - SPILLWAY #1-SALMON RIVE - Lift gearboxes/nuts	In Stock		N/A	N/A
BDE - STATION SERVICE - BDE PH1 - ACB	In Stock		N/A	N/A
BDE - STATION SERVICE - BDE PH1 - Trip Unit - Breker control device	In Stock		N/A	N/A
BDE - stationary ring	In Stock		N/A	N/A
BDE - STATOR ASSEMBLY - BAR,COPPER 1/2"X2"X10'	In Stock		N/A	N/A
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock		N/A	N/A
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock		N/A	N/A
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock		N/A	N/A
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock		N/A	N/A
BDE - STATOR WINDINGS - UNIT 1 - CONNECTOR,STATOR CU	In Stock		N/A	N/A
BDE - STATOR WINDINGS - UNIT 1 to 4 - Coils	In Stock		N/A	N/A
BDE - SURFACE AIR COOLERS - SAC Unit	In Stock		N/A	N/A
BDE - SURFACE AIR COOLERS - Tubes	In Stock		N/A	N/A
BDE - THRUST BEARING SEGMENTS - bearing segments,	In Stock		N/A	N/A
BDE - THRUST/GUIDE BEARING ASSEMBLY - Oil	In Stock		N/A	N/A
BDE - THRUST/GUIDE BEARING ASSEMBLY - Springs	In Stock		N/A	N/A
BDE - THRUST/GUIDE BEARING ASSEMBLY - TRANSMITTER,DIFF	In Stock		N/A	N/A
BDE - THRUST/GUIDE BEARING COOLERS - Cooler	In Stock		N/A	N/A
BDE - TURBINE - Turbine Carbon Seal (Units 1 to 4)	In Stock		N/A	N/A
BDE - TURBINE - Turbine Carobn Seal (Units 5 & 6)	In Stock		N/A	N/A
BDE - TURBINE GUIDE BEARING - Bearing	In Stock		N/A	N/A
BDE - TURBINE GUIDE BEARING - oil cooler	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - Unit 7 Control Board - BOARD,CONTROL	In Stock		N/A	N/A
BDE - Unit 7 DRAFT TUBE-TURBINE - Water Level Probe	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - BOARD,DIGITAL I/O	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - BOARD,I/O ANALOG	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - BOARD,MEASURING ABB	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - BOARD,POWER SYSTEM STABI	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - CAPACITOR,20 MF +-10% 150 V	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - COMPONENT, INTEG CCT	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - CONTACT,ISOLATING	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - INTEG CCT	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - MODULE,ABB DCS500B200361	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - PANEL,CONTROL	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - POWER SUPPLY,ABB 3BHE013940R00	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - RELAY,GROUND VOLTAGE	In Stock		N/A	N/A
BDE - Unit 7 GENERATOR COOLING WATER SYSTEM - TRANSMITTER,DIFF	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - ARC CHUTE,ABB UXAB289199215	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - BREAKER,ABB EZNE1600MS4-B1	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - Charging Motor	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT CLOSING	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT OPENING	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - CONTACT,ABB UXAB239Z60R0	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - Main Fixed Contacts	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - Main Moving Contacts	In Stock		N/A	N/A
BDE - Unit 7 Generator Field Breaker - MOTOR,CHARGING	In Stock		N/A	N/A
BDE - Unit 7 GENERATOR GUIDE BEARING - segments	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - FILTER,HYD 932633Q	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,BALLARM	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,DASHPOT	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,LOWER DRIVE	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,PIVOT	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,ROCKER ARM	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-71	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-75	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PLUNGER,SNAP ACTION	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - POTENTIOMETER,12500H 0.24A	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - RETAINER,SWITCH	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - SENSOR,LOAD GOVERNOR	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - SOLENOID,125 V DC	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - UNIT 7 GOVERNOR - SOLENOID,125VDC 211E	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - SPRING,PILOT VALVE LINK	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - SPRING,SPEED SWITCH	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - STATOR,PERMANENT MAGNET	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	In Stock		N/A	N/A
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	In Stock		N/A	N/A
BDE - Unit 7 HEADCOVER ASSEMBLY - BOTTOM RING P001 bushing	In Stock		N/A	N/A
BDE - Unit 7 HEADCOVER ASSEMBLY - BUSHING,LOWER HEAD COVER P001	In Stock		N/A	N/A
BDE - Unit 7 HEADCOVER ASSEMBLY - PACKING,V-TYPE 3/8 EASY	In Stock		N/A	N/A
BDE - UNIT 7 HYDRAULIC GENERATOR - coolers	In Stock		N/A	N/A
BDE - UNIT 7 NEUTRAL GROUND RESISTOR	In Stock		N/A	N/A
BDE - Unit 7 NEUTRAL GROUND TRANSFORMER - transformer	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - BUSHING,LINK PIN	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - CAP,SHEARPIN	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - LEVER,WICKET GATE	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - Linkage	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - PIN,ECCENTRIC P005	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - PIN,LINK P006	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - PIN,ROD SHEARPIN	In Stock		N/A	N/A
BDE - Unit 7 OPERATING RING - PIN,UPPER DRIVE	In Stock		N/A	N/A
BDE - Unit 7 PMG - BALLARM,SPEED SWITCH	In Stock		N/A	N/A
BDE - Unit 7 PMG - BEARING,PMG P/N Z995205	In Stock		N/A	N/A
BDE - Unit 7 PMG - BEARING,SPEED SIGNAL	In Stock		N/A	N/A
BDE - Unit 7 PMG - BEARING,WW 111006	In Stock		N/A	N/A
BDE - Unit 7 PMG - BEARING,WW 1800125	In Stock		N/A	N/A
BDE - Unit 7 PMG - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock		N/A	N/A
BDE - Unit 7 PMG - BUSHING,URETHANE LOWER D	In Stock		N/A	N/A
BDE - Unit 7 PMG - BUSHING,URETHANE UPPER D	In Stock		N/A	N/A
BDE - Unit 7 PMG - PIN,BALLARM	In Stock		N/A	N/A
BDE - Unit 7 PMG - PIN,DOWEL - SPEED SWITCH	In Stock		N/A	N/A
BDE - Unit 7 PMG - PIN,ROCKER ARM	In Stock		N/A	N/A
BDE - Unit 7 PMG - PIN,TAPERED	In Stock		N/A	N/A
BDE - Unit 7 PMG - PLATE,MOUNTING - MERCURY	In Stock		N/A	N/A
BDE - Unit 7 PMG - RING,ROTOR	In Stock		N/A	N/A
BDE - Unit 7 PMG - SPRING,SPEED SWITCH	In Stock		N/A	N/A
BDE - Unit 7 PMG - STATOR,P.M.G.	In Stock		N/A	N/A
BDE - Unit 7 RECTIFYING TRANSFORMER	In Stock		N/A	N/A
BDE - Unit 7 ROTOR - Pole	In Stock		N/A	N/A
BDE - Unit 7 ROTOR ASSEMBLY - POLE	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
BDE - Unit 7 RUNNER - TURBINE - CARBON SEAL	In Stock		N/A	N/A
BDE - Unit 7 SERVOMOTOR # 1. - PACKING,SERVOMOTOR	In Stock		N/A	N/A
BDE - Unit 7 SERVOMOTOR # 1. - PACKING,V TYPE 2-EASY	In Stock		N/A	N/A
BDE - Unit 7 SERVOMOTOR # 1. - PACKING,V-TYPE 9"x8"ID	In Stock		N/A	N/A
BDE - Unit 7 SERVOMOTOR # 1. - Piston Ring	In Stock		N/A	N/A
BDE - UNIT 7 Slip Ring	In Stock		N/A	N/A
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Brushes	In Stock		N/A	N/A
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Collector rings	In Stock		N/A	N/A
BDE - Unit 7 STATOR WINDINGS - Stator Bars	In Stock		N/A	N/A
BDE - Unit 7 STATOR WINDINGS - Wedges	In Stock		N/A	N/A
BDE - Unit 7 SURFACE AIR COOLERS - Tubes	In Stock		N/A	N/A
BDE - Unit 7 THRUST BEARING - Rotating Ring	In Stock		N/A	N/A
BDE - Unit 7 THRUST BEARING - Thrust Pads	In Stock		N/A	N/A
BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers	In Stock		N/A	N/A
BDE - UNIT 7 TURBINE - Carbon Seal	In Stock		N/A	N/A
BDE - UNIT 7 TURBINE - turbine bearing	In Stock		N/A	N/A
BDE - UNIT 7 TURBINE - wicket gate	In Stock		N/A	N/A
BDE - Unit 7 TURBINE GUIDE BEARING - bearing	In Stock		N/A	N/A
BDE - Unit 7 VIBRATION MONITORING - PICK-UP, NON-CONTACT	In Stock		N/A	N/A
BDE - Unit 7 VIBRATION MONITORING - PICK-UP, SPEED SENSING	In Stock		N/A	N/A
BDE - Unit 7 VIBRATION MONITORING - POWER SUPPLY, IRD PCB 29128	In Stock		N/A	N/A
BDE - Unit 7 WICKET GATES - GATE, WICKET	In Stock		N/A	N/A
BDE - VALVE, 1" THERMAL TRIP	In Stock		N/A	N/A
BDE - VALVE, CONT. 1/2 4-WAY SS	In Stock		N/A	N/A
BDE - VALVE, CONT. 1/2 4-WAY SS	In Stock		N/A	N/A
BDE - VALVE, CONT. 1/2"4-WAY SS	In Stock		N/A	N/A
BDE - VALVE, CONT. 1/2"4-WAY SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 1" SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 1" SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 2" SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 2" SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 2" SS	In Stock		N/A	N/A
BDE - VALVE, CONTROL 2" SS	In Stock		N/A	N/A
BDE - WICKET GATES AND LINKAGES - PACKING, V TYPE 2-EASY	In Stock		N/A	N/A
BDE - WICKET GATES AND LINKAGES - PIN, ECCENTRIC	In Stock		N/A	N/A
BDE - WICKET GATES AND LINKAGES - RING, PISTON SERVO MOTOR 18"OD	In Stock		N/A	N/A
BDE - WICKET GATES AND LINKAGES - Shear Pins	In Stock		N/A	N/A
CAT - ACCUMULATOR TANK - Air Admission Valve	In Stock		N/A	N/A
CAT - ACCUMULATOR TANK - COIL AUTO AIR CHARGING SOLID	In Stock		N/A	N/A
CAT - ARC-CHUTE ABB #15DA045697R1	In Stock		N/A	N/A
CAT - ARC-CHUTE STATION SERVICE, 3 PHASE, 600V	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - BEARING KIT, IR 32127516	In Stock		N/A	N/A
CAT - BEARING, GUIDE	In Stock		N/A	N/A
CAT - BEARING, BOWL - INTERMEDIATE	In Stock		N/A	N/A
CAT - BEARING, BOWL - TOP	In Stock		N/A	N/A
CAT - BEARING, BRIER HYD33A66	In Stock		N/A	N/A
CAT - BEARING, LINESHAFT	In Stock		N/A	N/A
CAT - BEARING, STUFFING BOX	In Stock		N/A	N/A
CAT - BEARING, SUCTION CASE	In Stock		N/A	N/A
CAT - BELT, V IR 95100558	In Stock		N/A	N/A
CAT - BOARD, CONTROL	In Stock		N/A	N/A
CAT - BOARD, DIGITAL I/O	In Stock		N/A	N/A
CAT - BOARD, I/O ANALOG	In Stock		N/A	N/A
CAT - BOARD, MEASURING ABB	In Stock		N/A	N/A
CAT - BOARD, POWER SYSTEM STABI	In Stock		N/A	N/A
CAT - BRAKING JET ASSEMBLY - Control Valve	In Stock			
CAT - BREAKER, EXCITER ABB	In Stock		N/A	N/A
CAT - BREAKERS BY BROWN BOVERI, 600V - spare field breaker in used spare exciter	In Stock		N/A	N/A
CAT - Cartridge, Oil Separator	In Stock		N/A	N/A
CAT - COIL, CONTACTOR 130 V 84D418	In Stock		N/A	N/A
CAT - COIL, SHUNT CLOSING	In Stock		N/A	N/A
CAT - COIL, SHUNT OPENING	In Stock		N/A	N/A
CAT - COLLAR, SAND	In Stock		N/A	N/A
CAT - CONTACT, NORMAL LONG 700C	In Stock		N/A	N/A
CAT - CONTACT, NORMAL SHORT 700	In Stock		N/A	N/A
CAT - CONTACT, OVERLAP LONG 700	In Stock		N/A	N/A
CAT - CONTACT, OVERLAP SHORT 70	In Stock		N/A	N/A
CAT - CONTACT, ISOLATING	In Stock		N/A	N/A
CAT - CONTROLLER, PLC DI05	In Stock		N/A	N/A
CAT - Electronic Governor - BUSHING CABLE PROP VLV,	In Stock		N/A	N/A
CAT - Electronic Governor - CONNECTOR, MILD T ROD BALL	In Stock		N/A	N/A
CAT - Electronic Governor - CONVERTER, SERIAL/ETHERNET	In Stock		N/A	N/A
CAT - Electronic Governor - Deflector proportional	In Stock		N/A	N/A
CAT - Electronic Governor - Guide Ball Slide	In Stock		N/A	N/A
CAT - Electronic Governor - HOLDER, CIRCUIT BREAKER	In Stock		N/A	N/A
CAT - Electronic Governor - INTERFACE, ETHERNET VERSA	In Stock		N/A	N/A
CAT - Electronic Governor - LVDT deflector	In Stock		N/A	N/A
CAT - Electronic Governor - MODULE, GE AMPLIFIER	In Stock		N/A	N/A
CAT - Electronic Governor - MODULE, GE PT INTERFACE	In Stock		N/A	N/A
CAT - Electronic Governor - MODULE, PLUG-IN DIODE	In Stock		N/A	N/A
CAT - Electronic Governor - MODULE, VERSAMAX 16 PT	In Stock		N/A	N/A
CAT - Electronic Governor - MODULE, VERSAMAX 32 PT	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - Electronic Governor - MODULE,VERSAMAX 4 AO	In Stock		N/A	N/A
CAT - Electronic Governor - PC, Atlas 2	In Stock		N/A	N/A
CAT - Electronic Governor - PC,ATLAS VX WORKS	In Stock		N/A	N/A
CAT - Electronic Governor - Pos.Xducer	In Stock		N/A	N/A
CAT - Electronic Governor - POs.Xducer	In Stock		N/A	N/A
CAT - Electronic Governor - PROBE,SPEED ZVPU	In Stock		N/A	N/A
CAT - Electronic Governor - RELAY,14 PIN PLUG 24VDC	In Stock		N/A	N/A
CAT - Electronic Governor - Rod vdeflector	In Stock		N/A	N/A
CAT - Electronic Governor - VERSAMAX powersupply	In Stock		N/A	N/A
CAT - Element, Air Filter	In Stock		N/A	N/A
CAT - ELEMENT,AFTER FILTER	In Stock		N/A	N/A
CAT - ELEMENT,AIR FILTER	In Stock		N/A	N/A
CAT - ELEMENT,PRE FILTER	In Stock		N/A	N/A
CAT - EXCITATION TRF	In Stock		N/A	N/A
CAT - Exciter # 1 - BOARD POWER SYSTEM STABI,	In Stock		N/A	N/A
CAT - Exciter # 1 - DIGITAL I/O BOARD,	In Stock		N/A	N/A
CAT - Exciter # 1 - Arc Chute	In Stock		N/A	N/A
CAT - Exciter # 1 - BOARD MEASURING,	In Stock		N/A	N/A
CAT - Exciter # 1 - Breaker	In Stock		N/A	N/A
CAT - Exciter # 1 - COIL,SHUNT CLOSING	In Stock		N/A	N/A
CAT - Exciter # 1 - COIL,SHUNT OPENING	In Stock		N/A	N/A
CAT - Exciter # 1 - CONTACT,ISOLATING	In Stock		N/A	N/A
CAT - Exciter # 1 - Control Board	In Stock		N/A	N/A
CAT - Exciter # 1 - I/O ANALOG BOARD CONTROL,	In Stock		N/A	N/A
CAT - Exciter # 1 - MODULE,THYRISTOR BRIDGE	In Stock		N/A	N/A
CAT - Exciter # 1 - MOTOR,CHARGING	In Stock		N/A	N/A
CAT - Exciter # 1 - PANEL,CONTROL	In Stock		N/A	N/A
CAT - Exciter # 1 - SUPPLY,110-220 VOLT	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Analog Input Transducer	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB 1WX 174-2,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB HIER319619R2,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB KX9170A V1,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN 2010B-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0016A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0025A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0026A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0027A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0031A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN004A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0079A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0083A-P,	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - EXCITER NO. 2 - CARD ABB UN0089A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0091A-P,CARD ABB UN0093A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0503A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0510C-9,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0516A,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0900B-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN0901B-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN1001C-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN1004A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN1024C-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UNC001D-E,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UNS0026A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD BBC UN0077AP,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD,BBC UN2001F-P	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - COIL,125 VOLT 60HZ	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - COIL,SHUNT CLOSING	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CONTROL BOARD,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Field Voltage Transducer	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Fuse 600Amp	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Shunt Voltage Transducer	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Thyristor	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Transformer	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - Unitrol Card	In Stock		N/A	N/A
CAT - Filter, Mat	In Stock		N/A	N/A
CAT - Filter, Oil	In Stock		N/A	N/A
CAT - FILTER,AIR INTAKE - 101T	In Stock		N/A	N/A
CAT - FILTER,ELEMENT 10 MICRON	In Stock		N/A	N/A
CAT - FLOAT - 2315	In Stock		N/A	N/A
CAT - GASKET SET, IR 30423339	In Stock	Item #68001594	N/A	N/A
CAT - GENERATOR - Brake ring	In Stock	Item #58608396	N/A	N/A
CAT - GENERATOR - Brake Solenoid	In Stock	Item #65300060	N/A	N/A
CAT - GENERATOR - Brake valve	In Stock	Item #68001592	N/A	N/A
CAT - GENERATOR - INSLTR,SLIP RING	In Stock	Item #68001591	N/A	N/A
CAT - GENERATOR - MODULE,TYP 1CD 108 M 2-02 vibro-meter	In Stock	Item #60101058	N/A	N/A
CAT - GENERATOR - OVERCURRENT relay	In Stock		N/A	N/A
CAT - GENERATOR - RELAY,TIME DELAY .6 - 1.0	In Stock	Item #58800486	N/A	N/A
CAT - GENERATOR - rotating ring	In Stock	Item #68001626	N/A	N/A
CAT - Generator Bearing - Cooler	In Stock		N/A	N/A
CAT - Governor - JOINT,UNIVERSAL SSG #1787058	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - Governor Control System - CABLE DEFLECTOR FDBK AMP	In Stock		N/A	N/A
CAT - Governor Control System - CABLE FEEDBACK 20'	In Stock		N/A	N/A
CAT - Governor Control System - CABLE FEEDBACK 200'	In Stock		N/A	N/A
CAT - Governor Control System - CABLE FEEDBACK 50'	In Stock		N/A	N/A
CAT - Governor Control System - CABLE PROPORTIONAL VLV	In Stock		N/A	N/A
CAT - Governor Control System - CABLE,NEEDLE FDBK AMP,	In Stock		N/A	N/A
CAT - Governor Control System - CABLE90 DEG. 5' ZVPU,	In Stock		N/A	N/A
CAT - Governor Control System - Power Supply	In Stock		N/A	N/A
CAT - Governor Control System - Power Supply 24V	In Stock		N/A	N/A
CAT - Governor Hydraulics - Cooler	In Stock		N/A	N/A
CAT - Governor Hydraulics - Deflector valve	In Stock		N/A	N/A
CAT - Governor Hydraulics - DEFLECTOR,SERVOMOTOR	In Stock		N/A	N/A
CAT - Governor Hydraulics - ELEMENT,FILTER SM 10	In Stock		N/A	N/A
CAT - Governor Hydraulics - ELEMENT,FILTER SM 25	In Stock		N/A	N/A
CAT - Governor Hydraulics - OIL, TURBINE 46' (205L)	In Stock		N/A	N/A
CAT - Governor Hydraulics - Piston seal 725X8 X3/8	In Stock		N/A	N/A
CAT - Governor Hydraulics - Piston seal 9X8X1/2	In Stock		N/A	N/A
CAT - Governor Hydraulics - PLUG,C/V 010168-390-163	In Stock		N/A	N/A
CAT - Governor Hydraulics - PLUG,C/V 021002-281-208	In Stock		N/A	N/A
CAT - Governor Hydraulics - PLUG,ESCHER WYSS	In Stock		N/A	N/A
CAT - Governor Hydraulics - Pressure Switch	In Stock		N/A	N/A
CAT - Governor Hydraulics - Seal	In Stock		N/A	N/A
CAT - Governor Pumps - INSERT,CURVED JAW SPIDER	In Stock		N/A	N/A
CAT - Governor Pumps - Pump	In Stock		N/A	N/A
CAT - Guide Bearing Segments - Bearing	In Stock		N/A	N/A
CAT - Isolated Phase Bus - PT fuse	In Stock		N/A	N/A
CAT - MODULE, THYRISTOR BRIDGE	In Stock		N/A	N/A
CAT - MODULE, THYRISTOR BRIDGE	In Stock		N/A	N/A
CAT - MOTOR, CHARGING	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Amplifier/proportional	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - BUSHING NOZZLE 374527007/P001	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT 20,	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT,	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Casing guide D/S	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Casing guide U/S	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CHAIN, DBS FCS-A1-15	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - CONTROL DEVICE,NEEDLE	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Needle seat	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Seal	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - NEEDLE VALVE ASS (6) - seal piston ring	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Shuttle Valve	In Stock		N/A	N/A
CAT - NEEDLE VALVE ASS (6) - Tip	In Stock		N/A	N/A
CAT - Oil, Cooling Compressor	In Stock		N/A	N/A
CAT - OIL,TURBINE 46(205L)	In Stock		N/A	N/A
CAT - OPERATOR,WORM GEAR 8"	In Stock		N/A	N/A
CAT - O-RING, NOZZLE M868 X 4	In Stock		N/A	N/A
CAT - PANEL, CONTROL	In Stock		N/A	N/A
CAT - PISTON/PIN ASSY, IR 30215222	In Stock		N/A	N/A
CAT - PISTON/PIN ASSY, IR 30215438	In Stock		N/A	N/A
CAT - PISTON/PIN ASSY, IR 30292460	In Stock		N/A	N/A
CAT - POTENTIAL TRANSFORMER	In Stock		N/A	N/A
CAT - POWER SUPPLY, 110-220 VOLT	In Stock		N/A	N/A
CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door	In Stock		N/A	N/A
CAT - RECTIFIER, BRIDGE 250JB6L-8338	In Stock		N/A	N/A
CAT - RECTIFIER, BRIDGE 35MB60A-8419	In Stock		N/A	N/A
CAT - RECTIFIER, BRIDGE 35MB60A-8421	In Stock		N/A	N/A
CAT - RELAY, ASEA RXSF1, RK271 0	In Stock		N/A	N/A
CAT - RING SET, IR 32194144	In Stock		N/A	N/A
CAT - RING SET, IR 32194276	In Stock		N/A	N/A
CAT - RING SET, IR 37138146	In Stock		N/A	N/A
CAT - RING/GASKET KIT, IR 32133969	In Stock		N/A	N/A
CAT - Rotating Ring	In Stock		N/A	N/A
CAT - Rotating Ring	In Stock		N/A	N/A
CAT - Rotating Ring	In Stock		N/A	N/A
CAT - ROTOR - GENERATOR - Pole	In Stock		N/A	N/A
CAT - Rotor Poles - Entire Pole	In Stock		N/A	N/A
CAT - SEAL, OIL IR 32204562	In Stock		N/A	N/A
CAT - SEAL, SPHERICAL VALVE	In Stock		N/A	N/A
CAT - SEAL, SPHERICAL VALVE	In Stock		N/A	N/A
CAT - SEAL, SPHERICAL VALVE	In Stock		N/A	N/A
CAT - Slipring/brush Rigging Assembly - Brush Holder	In Stock		N/A	N/A
CAT - Slipring/brush Rigging Assembly - Brushes	In Stock		N/A	N/A
CAT - Slipring/brush Rigging Assembly - Insulator	In Stock		N/A	N/A
CAT - Slipring/brush Rigging Assembly - Ring, Collector Assembly	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Arc Chute	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - COIL,CLOSING 129 V DC	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Contact 1600Amp	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Contact Moving Arc	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Contact Stationary Arc	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - CT 400-800	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
CAT - STATION SERVICE SYSTEM - CT 800-1600	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Main Drawout Contact	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Trip Coil	In Stock		N/A	N/A
CAT - STATION SERVICE SYSTEM - Undervoltage Coil	In Stock		N/A	N/A
CAT - Stator Assembly - BAR STATOR BOTTOM,	In Stock		N/A	N/A
CAT - Stator Assembly - BAR STATOR TOP,	In Stock		N/A	N/A
CAT - Stator Assembly - CAP STATOR WINDING END,	In Stock		N/A	N/A
CAT - Stator Assembly - Connector	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR ASM 105	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR ASM 107	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR ASM 108	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR ASM 109	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - Stator Assembly - Slider	In Stock		N/A	N/A
CAT - Stator Assembly - Slider	In Stock		N/A	N/A
CAT - Stator Assembly - Slider	In Stock		N/A	N/A
CAT - Stator Assembly - Wedge	In Stock		N/A	N/A
CAT - Stator Assembly - Wedge	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR ASM 105	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR ASM 107	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR ASM 108	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR ASM 109	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock		N/A	N/A
CAT - SURFACE AIR COOLERS - Surface Air Cooler	In Stock		N/A	N/A
CAT - SWITCH,DIFFERENTIAL PRES	In Stock		N/A	N/A
CAT - TEXT DISPLAY,AIR DRYER	In Stock		N/A	N/A
CAT - THRUST BEARING - thrust pads	In Stock		N/A	N/A
CAT - Thrust Bearing Segements - Segments	In Stock		N/A	N/A
CAT - Thrust Pads	In Stock		N/A	N/A
CAT - THYRISTOR, ABB CS411-20	In Stock		N/A	N/A
CAT - Turbine - Runner	In Stock		N/A	N/A
CAT - Turbine Guide Bearing - Bearing	In Stock		N/A	N/A
CAT - VALVE ASSEMBLY 35 GA	In Stock		N/A	N/A
CAT - VALVE ASSEMBLY 55 GA	In Stock		N/A	N/A
CAT - VALVE/GASKET KIT, IR 32133951	In Stock		N/A	N/A
Cat-minimal pressure Valve	In Stock		N/A	N/A
Cat- Turbine Bearing Cooler	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
EBBE - GEAR,HANDWHEEL	In Stock		N/A	N/A
EBBE - GEAR,HELICAL SET	In Stock		N/A	N/A
EBBE - GEAR,WORM 16:1 RATIO	In Stock		N/A	N/A
EBBE - LINK,DECLUTCH	In Stock		N/A	N/A
EBBE - PIN,FORK PIVOT	In Stock		N/A	N/A
GCL - Bar, Stator Bottom	In Stock		N/A	N/A
GCL - Bar, Stator Top	In Stock		N/A	N/A
GCL - Base, Smoke Detector	In Stock		N/A	N/A
GCL - Bearing, Guide GE	In Stock		N/A	N/A
GCL - Bearing, Pivoted Guide	In Stock		N/A	N/A
GCL - Bearing, Pivoted Guide GE	In Stock		N/A	N/A
GCL - Bearing, Thrust	In Stock		N/A	N/A
GCL - Bearing, Thrust	In Stock		N/A	N/A
GCL - Bell, Fire Alarm 10"	In Stock		N/A	N/A
GCL - BELT SET, V (4 PC)	In Stock		N/A	N/A
GCL - BELT SET, V (4 PC)	In Stock		N/A	N/A
GCL - BELT SET, V (4 PC)	In Stock		N/A	N/A
GCL - Breaker, Volt Autom	In Stock		N/A	N/A
GCL - Breaker, Volt Automatic	In Stock		N/A	N/A
GCL - Brush, Carb Metric	In Stock		N/A	N/A
GCL - Bushing, Bottom Shaft	In Stock		N/A	N/A
GCL - Bushing, HV ABB TO25W0412AT	In Stock		N/A	N/A
GCL - Bushing, Packing Gland	In Stock		N/A	N/A
GCL - Card Measuring SDCS-Pin51	In Stock		N/A	N/A
GCL - Card, Analog I/O	In Stock		N/A	N/A
GCL - Card, Digital I/O ABB	In Stock		N/A	N/A
GCL - Card, EXT I/O ABB	In Stock		N/A	N/A
GCL - Contactor, AE LINE 125VDC	In Stock		N/A	N/A
GCL - Control Board, SDCS-CON-2	In Stock		N/A	N/A
GCL - Detector, heat 135F	In Stock		N/A	N/A
GCL - Detector, Heat 281B-PL	In Stock		N/A	N/A
GCL - Detector, Smoke EC30DU-3	In Stock		N/A	N/A
GCL - Device, Surge Suppression	In Stock		N/A	N/A
GCL - ETH Card	In Stock		N/A	N/A
GCL - Excitation Transformer	In Stock		N/A	N/A
GCL - Fan, Cooling 27" ABB	In Stock		N/A	N/A
GCL - FILTER, AIR CARTRIDGE	In Stock		N/A	N/A
GCL - FILTER, AIR CARTRIDGE	In Stock		N/A	N/A
GCL - FILTER, AIR CARTRIDGE	In Stock		N/A	N/A
GCL - FILTER, ELEMENT	In Stock		N/A	N/A
GCL - FILTER, ELEMENT	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
GCL - FILTER, ELEMENT	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, INLINE	In Stock		N/A	N/A
GCL - FILTER, MAT	In Stock		N/A	N/A
GCL - FILTER, MAT	In Stock		N/A	N/A
GCL - FILTER, MAT	In Stock		N/A	N/A
GCL - FILTER, OIL KAESER	In Stock		N/A	N/A
GCL - FILTER, OIL KAESER	In Stock		N/A	N/A
GCL - FILTER, OIL KAESER	In Stock		N/A	N/A
GCL - Fuse,1250A 690V 170M6166	In Stock		N/A	N/A
GCL - Gas, Inergen (350F3)	In Stock		N/A	N/A
GCL - Gas, inergen (425F3)	In Stock		N/A	N/A
GCL - Generator - Bottom Stator Bars (18)	In Stock		N/A	N/A
GCL - Generator - Converter, RTD Temperature	In Stock		N/A	N/A
GCL - Generator - Converter, RTD Universal	In Stock		N/A	N/A
GCL - Generator - Creep Detector ASSY, 129 V	In Stock		N/A	N/A
GCL - Generator - Device, Surge Suppression	In Stock		N/A	N/A
GCL - Generator - Fuse, TEMP Limiter	In Stock		N/A	N/A
GCL - Generator - Fuse, Voltage XFMR	In Stock		N/A	N/A
GCL - Generator - Guide Bearing, GE	In Stock		N/A	N/A
GCL - Generator - Jumper Pole ASM #2	In Stock		N/A	N/A
GCL - Generator - Jumper Pole ASM #3	In Stock		N/A	N/A
GCL - Generator - Jumper Pole ASM #4	In Stock		N/A	N/A
GCL - Generator - Jumper, Pole ASM #1	In Stock		N/A	N/A
GCL - Generator - Level, Indicator Magnetic	In Stock		N/A	N/A
GCL - Generator - Oil, Turbine 46 (205L)	In Stock		N/A	N/A
GCL - Generator - Packing, V-Type GE	In Stock		N/A	N/A
GCL - Generator - Pin, Taper 25MM x 90MM	In Stock		N/A	N/A
GCL - Generator - Plate, Brake GE	In Stock		N/A	N/A
GCL - Generator - Plate, Locating Pivoted	In Stock		N/A	N/A
GCL - Generator - Pole, Wound GE	In Stock		N/A	N/A
GCL - Generator - Probe, 741 GE	In Stock		N/A	N/A
GCL - Generator - RTD, 12.5" -50-550 DEG	In Stock		N/A	N/A
GCL - Generator - RTD, 17" -50-550 DEG C	In Stock		N/A	N/A
GCL - Generator - Top Stator Bars (36)	In Stock		N/A	N/A
GCL - Governor Control System - POWER SUPPLY,18-32VDC	In Stock		N/A	N/A
GCL - Governor Control System - Pressure Switch	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
GCL - Governor Control System - TRANSMITTER,PRESS 0-2000	In Stock		N/A	N/A
GCL - Governor Control System - TRANSMITTER,TEMP 4-20 MA	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Filter, Element NS-7	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Joint, Shaft Parker	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Pump, Vane Vick	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Seal, Polypak "U" Cup	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Valve, Check 1 6000 psi	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Valve, Proportional	In Stock		N/A	N/A
GCL - Governor Hydraulic System - Valve, Relief	In Stock		N/A	N/A
GCL - Holder, Brush Metric	In Stock		N/A	N/A
GCL - Inflatable Seal	In Stock		N/A	N/A
GCL - Jumper, Pole ASM #1	In Stock		N/A	N/A
GCL - Jumper, Pole ASM #2	In Stock		N/A	N/A
GCL - Jumper, Pole ASM #3	In Stock		N/A	N/A
GCL - Jumper, Pole ASM #4	In Stock		N/A	N/A
GCL - Key, Pole Driven	In Stock		N/A	N/A
GCL - Key, Pole Stationary	In Stock		N/A	N/A
GCL - Locating Plate, Pivoted	In Stock		N/A	N/A
GCL - LVDT	In Stock		N/A	N/A
GCL - Measuring Board ABB	In Stock		N/A	N/A
GCL - Media converter	In Stock		N/A	N/A
GCL - MLDT	In Stock		N/A	N/A
GCL - Module, Control Relay	In Stock		N/A	N/A
GCL - Module, Serial processor	In Stock		N/A	N/A
GCL - Nut, Hex M30X3.5-6H	In Stock		N/A	N/A
GCL - Oil, Turbine 46 (205L)	In Stock		N/A	N/A
GCL - Operating Ring - BUSHING,GE 226043.126X015	In Stock		N/A	N/A
GCL - Operating Ring - Washer, Ring Seal	In Stock		N/A	N/A
GCL - Panel, Service UNS 0874A-P	In Stock		N/A	N/A
GCL - PIN,TAPER 25MM X 90MM	In Stock		N/A	N/A
GCL - Pole, Wound GE	In Stock		N/A	N/A
GCL - POTENTIAL TRANSFORMER	In Stock		N/A	N/A
GCL - Power Supply, SDCS-POWL	In Stock		N/A	N/A
GCL - PowerSupply, UNS0868A-P	In Stock		N/A	N/A
GCL - Probe, 741 GE	In Stock		N/A	N/A
GCL - Pump, Vane Vick	In Stock		N/A	N/A
GCL - Relay, Low Voltage	In Stock		N/A	N/A
GCL - Relay, Overload	In Stock		N/A	N/A
GCL - Relay, Overload 0.32-1.0A	In Stock		N/A	N/A
GCL - Relay, Overload 1.6-5.0A	In Stock		N/A	N/A
GCL - Relay, Overload 3.7-12A	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
GCL - RELAY,11 PIN 24V	In Stock		N/A	N/A
GCL - RELAY,110-125V	In Stock		N/A	N/A
GCL - RELAY,110-125V ABB	In Stock		N/A	N/A
GCL - RELAY,110-125VDC	In Stock		N/A	N/A
GCL - RELAY,120V 10A DPDT	In Stock		N/A	N/A
GCL - RELAY,14 PIN 110/120 VAC	In Stock		N/A	N/A
GCL - RELAY,8 PIN 110/120VAC(S)	In Stock		N/A	N/A
GCL - RELAY,8 PIN 120V AC/DC	In Stock		N/A	N/A
GCL - RELAY,8 PIN DPDT	In Stock		N/A	N/A
GCL - RELAY,ANTI-PUMP	In Stock		N/A	N/A
GCL - RELAY,AUX 48VDC	In Stock		N/A	N/A
GCL - RELAY,BREAKER FAIL	In Stock		N/A	N/A
GCL - RELAY,BUSHHOLZ 250V 2AMP	In Stock		N/A	N/A
GCL - RELAY,CONTROL 120V 60HZ	In Stock		N/A	N/A
GCL - RELAY,CONTROL 120V 60HZ	In Stock		N/A	N/A
GCL - RELAY,CONTROL 120V 60HZ	In Stock		N/A	N/A
GCL - RELAY,CONTROL 125VDC	In Stock		N/A	N/A
GCL - RELAY,CONTROL 24VDC	In Stock		N/A	N/A
GCL - RELAY,FAST TRIPPING 125V	In Stock		N/A	N/A
GCL - RELAY,INTERPOSING	In Stock		N/A	N/A
GCL - RELAY,LOCKOUT 125V	In Stock		N/A	N/A
GCL - RELAY,LOCKOUT 125V	In Stock		N/A	N/A
GCL - RELAY,OVERCURRENT	In Stock		N/A	N/A
GCL - RELAY,OVERLOAD	In Stock		N/A	N/A
GCL - RELAY,OVERLOAD CH C306DN3B	In Stock		N/A	N/A
GCL - RELAY,PLUG-IN 14 PIN	In Stock		N/A	N/A
GCL - RELAY,PLUG-IN 14 PIN DC	In Stock		N/A	N/A
GCL - RELAY,PUSHBUTTON 110V	In Stock		N/A	N/A
GCL - RELAY,PUSHBUTTON 125V	In Stock		N/A	N/A
GCL - RELAY,RESIDUAL	In Stock		N/A	N/A
GCL - RELAY,THERMISTOR 110V	In Stock		N/A	N/A
GCL - RELAY,TIME 24-230V AC/DC	In Stock		N/A	N/A
GCL - RELAY,TIME TYPE SGDM-1	In Stock		N/A	N/A
GCL - RELAY,TRIP CIRCUIT	In Stock		N/A	N/A
GCL - RELAY,VOLTAGE UNBALANCE	In Stock		N/A	N/A
GCL - Ring Assembly, Collector	In Stock		N/A	N/A
GCL - Ring Assy, Collector	In Stock		N/A	N/A
GCL - Ring, Rotating GE	In Stock		N/A	N/A
GCL - Ring, Sealing C/W Spring	In Stock		N/A	N/A
GCL - RTD, 12.5" -50-550 Deg	In Stock		N/A	N/A
GCL - RTD, 12.5" -50-550 Deg	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
GCL - RTD, 17" -50-550 Deg C	In Stock		N/A	N/A
GCL - RTD, 17" -50-550 Deg C	In Stock		N/A	N/A
GCL - Runner - Seal, 770mm x 730mm x 25mm	In Stock		N/A	N/A
GCL - \$CREW,CAP M30X3.5-6GX130MM	In Stock		N/A	N/A
GCL - Seal, Top Guide Bearing	In Stock		N/A	N/A
GCL - Servomotor - Rod, Seal H092- 730	In Stock		N/A	N/A
GCL - Servomotor - Rod, Seal H254-918	In Stock		N/A	N/A
GCL - Servomotor Assembly - Ring, Piston GE	In Stock		N/A	N/A
GCL - Shim, GE 007	In Stock		N/A	N/A
GCL - Shim, GE 008	In Stock		N/A	N/A
GCL - Shoe, brake GE 6201B68151005	In Stock		N/A	N/A
GCL - Sleeve, Shaft	In Stock		N/A	N/A
GCL - SOCKET,RELAY 14 PIN 5A	In Stock		N/A	N/A
GCL - SOCKET,RELAY 8 PIN 7A	In Stock		N/A	N/A
GCL - Speed Signal Generator - Pickup, Zero Velocity	In Stock		N/A	N/A
GCL - Spring Assy, Thrust	In Stock		N/A	N/A
GCL - Spring, GE	In Stock		N/A	N/A
GCL - Spring, GE	In Stock		N/A	N/A
GCL - Stick, Joint Horz	In Stock		N/A	N/A
GCL - Stick, Joint Vert	In Stock		N/A	N/A
GCL - Surface Air Coolers - Cooler, Surface Air	In Stock		N/A	N/A
GCL - Switch, 20-160 ABB 104-324-46	In Stock		N/A	N/A
GCL - Switch, Press 200 PSI 15A	In Stock		N/A	N/A
GCL - Switch, Press Actuated	In Stock		N/A	N/A
GCL - Switch, Press Gran 20W	In Stock		N/A	N/A
GCL - Synchronizer	In Stock		N/A	N/A
GCL - Thermometer, ADJ 0-55	In Stock		N/A	N/A
GCL - THRISTOR, 5STP18F1800 V11	In Stock		N/A	N/A
GCL - Thrust/Guide Bearing Coolers - Coil, Cooling GE	In Stock		N/A	N/A
GCL - Transducer, Balluff Track	In Stock		N/A	N/A
GCL - TRANSMITTER, FRAZIL ICE	In Stock		N/A	N/A
GCL - Transmitter, PFM	In Stock		N/A	N/A
GCL - Transmitter, Temp 4-20 MA	In Stock		N/A	N/A
GCL - TRANSMITTER,WATER LEVEL	In Stock		N/A	N/A
GCL - Turbine Assembly - Packing Ring, Segment	In Stock		N/A	N/A
GCL - Turbine Assembly - Pad, Stop GE	In Stock		N/A	N/A
GCL - Turbine Assembly - Ring, Rotating GE	In Stock		N/A	N/A
GCL - Turbine Assembly - Ring, Sealing C/W Spring	In Stock		N/A	N/A
GCL - Turbine Assembly - Ring, Wear	In Stock		N/A	N/A
GCL - Turbine Assembly - Seal, Inflatable	In Stock		N/A	N/A
GCL - Turbine Assembly - Transmitter, Diff Pressure	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG	In Stock		N/A	N/A
GCL - Turbine Assembly - Transmitter, Pressure -5TO55	In Stock		N/A	N/A
GCL - Turbine Assembly - Transmitter, Pressure GE	In Stock		N/A	N/A
GCL - Turbine Assembly - Valve, Check Wafer 12"D	In Stock		N/A	N/A
GCL - VALVE, CHECK PRESSURE	In Stock		N/A	N/A
GCL - VALVE, CHECK PRESSURE	In Stock		N/A	N/A
GCL - VALVE, CHECK PRESSURE	In Stock		N/A	N/A
GCL - Valve, Purge GE	In Stock		N/A	N/A
GCL - VALVE,INLET MAIN KIT	In Stock		N/A	N/A
GCL - VALVE,INLET MAIN KIT	In Stock		N/A	N/A
GCL - VALVE,INLET MAIN KIT	In Stock		N/A	N/A
GCL - VALVE,PURGE GE	In Stock		N/A	N/A
GCL - Washer, Brake Plate	In Stock		N/A	N/A
GCL - Washer, GE 105000100	In Stock		N/A	N/A
GCL - Wicket Gates - Bushing, GE 226043126X015	In Stock		N/A	N/A
GCL - Wicket Gates - Gate, Wicket GE	In Stock		N/A	N/A
GCL - Wicket Gates - Level, Gate GE	In Stock		N/A	N/A
GCL - Wicket Gates - Lever, Shear GE	In Stock		N/A	N/A
GCL - Wicket Gates - Liner, Gate Operating	In Stock		N/A	N/A
GCL - Wicket Gates - Link, GE	In Stock		N/A	N/A
GCL - Wicket Gates - Pin, Eccentric	In Stock		N/A	N/A
GCL - Wicket Gates - Pin, Shear GE	In Stock		N/A	N/A
GCL - Wicket Gates - Pin, Taper GE	In Stock		N/A	N/A
GCL - Wicket Gates - Plate, Retaining GE	In Stock		N/A	N/A
GCL - Wicket Gates - Plate, Top GE	In Stock		N/A	N/A
GCL - Wicket Gates - Shim, Laminum	In Stock		N/A	N/A
GCL - Wicket Gates - Sleeve, BRS 210mm	In Stock		N/A	N/A
GCL - Wicket Gates - Spacer	In Stock		N/A	N/A
GCL - XFMR, CT 15 kV	In Stock		N/A	N/A
HLK - Accumulator tank Solinoid Valve	In Stock		N/A	N/A
HLK - ADAPTER,REMOTE I/O	In Stock		N/A	N/A
HLK - Ampmeter	In Stock		N/A	N/A
HLK - AUTO AIR CHARGING SOLIND.	In Stock		N/A	N/A
HLK - BACKPLANE,10 SLOT MODICON	In Stock		N/A	N/A
HLK - BEARING KIT,	In Stock		N/A	N/A
HLK - BOARD,FIRING ES	In Stock		N/A	N/A
HLK - BREAKER,100 AMP 600 VOLT	In Stock		N/A	N/A
HLK - BREAKER,150A 600V	In Stock		N/A	N/A
HLK - BREAKER,225A 600V 3P	In Stock		N/A	N/A
HLK - BREAKER,600 VOLT 3 PHASE	In Stock		N/A	N/A
HLK - BRIDGE,THYRISTOR EG	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
HUK - Card battery charger	In Stock		N/A	N/A
HUK - Card battery charger	In Stock		N/A	N/A
HUK - Card battery charger	In Stock		N/A	N/A
HUK - Card battery charger	In Stock		N/A	N/A
HUK - Card gate pulse	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Anti-pump relay	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Charging motor	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Motor brush kit	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Primary disconnect	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Shunt trip coil	In Stock		N/A	N/A
HUK - CIRCUIT BREAKER - Spring release coil	In Stock		N/A	N/A
HUK - COIL,AUTO AIR CHARGING SOLND.	In Stock		N/A	N/A
HUK - CONTACT,AUX GE	In Stock		N/A	N/A
HUK - CONTACTOR,FURNAS	In Stock		N/A	N/A
HUK - Creep detector	In Stock		N/A	N/A
HUK - EXCITATION - Bridge (entire module)	In Stock		N/A	N/A
HUK - EXCITER FIELD BREAKER - Entire unit	In Stock		N/A	N/A
HUK - GASKET KIT, COMPAIR 45244	In Stock		N/A	N/A
HUK - GASKET KIT, COMPAIR 79452	In Stock		N/A	N/A
HUK - GENERATOR - brake shoes	In Stock		N/A	N/A
HUK - GENERATOR - Generator air valve	In Stock		N/A	N/A
HUK - GENERATOR - SOLENOID,GENERATOR AIR VALVE,	In Stock		N/A	N/A
HUK - GENERATOR CIRCUIT BREAKER	In Stock		N/A	N/A
HUK - GOVERNOR ACCUMULATOR TANK - Air admission solenoid	In Stock		N/A	N/A
HUK - GOVERNOR ACCUMULATOR TANK - Solenoid valve	In Stock		N/A	N/A
HUK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID ,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLND. ,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET ,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 655D ,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - filter	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT,ROD,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON,	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634,motor	In Stock		N/A	N/A
HUK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640,MOTOR	In Stock		N/A	N/A
HUK - GOVERNOR SPEED GENERATOR - gear drive	In Stock		N/A	N/A
HUK - GOVERNOR SPEED GENERATOR - GEAR, WOODWARD 1447-640	In Stock		N/A	N/A
HUK - GOVERNOR SPEED GENERATOR - Speed switch bracket	In Stock		N/A	N/A
HUK - GUIDE BEARING SEGMENTS (SET) - BEARING,SEGMENT	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 MM,	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - UPPER,	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - LOWER,	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - Bushing upper	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - SEAL TURBINE,	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - SEALWICKET GATE,	In Stock		N/A	N/A
HLK - IMPELLER,DEWATERING PUMP	In Stock		N/A	N/A
HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER,TEMPERATURE	In Stock		N/A	N/A
HLK - INSERT, COMPAIR 38275	In Stock		N/A	N/A
HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure druk	In Stock		N/A	N/A
HLK - ISOLATED PHASE BUS - PT fuse	In Stock		N/A	N/A
HLK - MECHANICAL GOVERNOR CONTROLS - Motor limit	In Stock		N/A	N/A
HLK - MECHANICAL GOVERNOR CONTROLS - Motor speeder	In Stock		N/A	N/A
HLK - MECHANICAL GOVERNOR CONTROLS - Unloader timing valve	In Stock		N/A	N/A
HLK - METER,FLOW BARTON	In Stock		N/A	N/A
HLK - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
HLK - MODULE,CPU MODICON	In Stock		N/A	N/A
HLK - MODULE,DISCRETE IN	In Stock		N/A	N/A
HLK - MODULE,DISCRETE OUT	In Stock		N/A	N/A
HLK - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
HLK - MODULE,GPS QUANTUM	In Stock		N/A	N/A
HLK - MODULE,HOT STANDBY	In Stock		N/A	N/A
HLK - MODULE,INTERFACE PLC	In Stock		N/A	N/A
HLK - MODULE,RACK FILLER	In Stock		N/A	N/A
HLK - MODULE,RELAY OUT	In Stock		N/A	N/A
HLK - OPERATING RING - Bearing pads	In Stock		N/A	N/A
HLK - PANEL,CONTROL SCP/CCP	In Stock		N/A	N/A
HLK - PANEL,VOLTAGE ADJUSTER	In Stock		N/A	N/A
HLK - PLATE,TERMINAL 3 POLE	In Stock		N/A	N/A
HLK - PLATE,TERMINAL 6 POLE	In Stock		N/A	N/A
HLK - PMG Speed Switch Bracket	In Stock		N/A	N/A
HLK - POWER DISTRIBUTOR, ASSY	In Stock		N/A	N/A
HLK - POWER SUPPLY, 125-24 VDC	In Stock		N/A	N/A
HLK - POWER SUPPLY,125 VDC	In Stock		N/A	N/A
HLK - POWER SUPPLY,125VDC 8A	In Stock		N/A	N/A
HLK - POWER SUPPLY,24 VDC	In Stock		N/A	N/A
HLK - POWER SUPPLY,CP-C-24/10,	In Stock		N/A	N/A
HLK - RECTIFYING TRANSFORMER	In Stock		N/A	N/A
HLK - RELAY,CONTROL 120V 60HZ	In Stock		N/A	N/A
HLK - RELAY,CONTROL 48V	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
HLK - RELAY,CONTROL AB 500F-A0D92	In Stock		N/A	N/A
HLK - REMOTE I/O HEAD,MODICON	In Stock		N/A	N/A
HLK - RING SET ASSY, COMPAIR 48	In Stock		N/A	N/A
HLK - RING SET, COMPAIR 45237	In Stock		N/A	N/A
HLK - RING SET,WORTH P04643-10	In Stock		N/A	N/A
HLK - RING/GASKET KIT,IR 32133944	In Stock		N/A	N/A
HLK - Rotor - Pole	In Stock		N/A	N/A
HLK - Rotor Assembly - HLK Generator - Rotor pole	In Stock		N/A	N/A
HLK - SEAL, COMPAIR 13254	In Stock		N/A	N/A
HLK - SEAT/SEAL KIT, VALVE 1-1/	In Stock		N/A	N/A
HLK - SERVO MOTOR #1 - servomotor repair kit	In Stock		N/A	N/A
HLK - SERVO MOTOR ASSEMBLY - shear pins	In Stock		N/A	N/A
HLK - Slip ring	In Stock		N/A	N/A
HLK - Slipring /Brush Rigging - Brush holder	In Stock		N/A	N/A
HLK - Slipring /Brush Rigging - Carbon brush	In Stock		N/A	N/A
HLK - SOLENOID,GENERATOR AIR VALVE	In Stock		N/A	N/A
HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON)	In Stock		N/A	N/A
HLK - STATOR ASSEMBLY - Stator bars	In Stock		N/A	N/A
HLK - STATOR ASSEMBLY - Stator connection caps	In Stock		N/A	N/A
HLK - STATOR WINDINGS - UNIT 1 - robel bars	In Stock		N/A	N/A
HLK - STN SERVICE TRANSFORMER (SST-1)	In Stock		N/A	N/A
HLK - SURFACE AIR COOLERS	In Stock		N/A	N/A
HLK - SWITCH,LIMIT AB 802T-ATP	In Stock		N/A	N/A
HLK - SWITCH,LIMIT AB 802T-DTP	In Stock		N/A	N/A
HLK - SWITCH,MERCROID TYPE C-4	In Stock		N/A	N/A
HLK - SWITCH,PRESS OIL ALARM	In Stock		N/A	N/A
HLK - THRUST BEARING SEGMENTS (SET) - Thrust Bearing Segments	In Stock		N/A	N/A
HLK - THRUST PIN ASSY,IR 32218406	In Stock		N/A	N/A
HLK - Thrust/Guide Bearing Coolers	In Stock		N/A	N/A
HLK - Thrust/Guide Bearing Coolers - Hi pressure lift pump	In Stock		N/A	N/A
HLK - TURBINE - BEARING SEGMENT TURBINE,	In Stock		N/A	N/A
HLK - TURBINE - Carbon seal,	In Stock		N/A	N/A
HLK - TURBINE - Dowel	In Stock		N/A	N/A
HLK - TURBINE - Eccentric pin	In Stock		N/A	N/A
HLK - TURBINE - Friction hub	In Stock		N/A	N/A
HLK - TURBINE - Friction hub	In Stock		N/A	N/A
HLK - TURBINE - Link pin	In Stock		N/A	N/A
HLK - TURBINE - link thick	In Stock		N/A	N/A
HLK - TURBINE - link thin	In Stock		N/A	N/A
HLK - TURBINE - Packing box	In Stock		N/A	N/A
HLK - TURBINE - PLATE BEARING,	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
HLK - TURBINE - SEAL TURBINE,	In Stock		N/A	N/A
HLK - TURBINE - Wicket gate lever	In Stock		N/A	N/A
HLK - TURBINE - wicket gate seal	In Stock		N/A	N/A
HLK - TURBINE GUIDE BEARING - BEARING, Segment TURBINE	In Stock		N/A	N/A
HLK - UPPER GUIDE BEARING COOLER	In Stock		N/A	N/A
HLK - UPPER GUIDE BEARING SEGMENTS - Upper Guide Bearing Segments	In Stock		N/A	N/A
HLK - VALVE & SPRING SET,45245	In Stock		N/A	N/A
HLK - VALVE ASSEMBLY 55 GA	In Stock		N/A	N/A
HLK - VALVE ASSY, COMPAIR 47935	In Stock		N/A	N/A
HLK - VALVE ASSY, COMPAIR 47936	In Stock		N/A	N/A
HLK - VALVE ASSY, COMPAIR 48141	In Stock		N/A	N/A
HLK - VALVE ASSY, COMPAIR 50681	In Stock		N/A	N/A
HLK - VALVE,SOL 4-WAY SKINNER	In Stock		N/A	N/A
HLK - VALVE/GASKET KIT, JR 32133936	In Stock		N/A	N/A
HLK - VOLTAGE ADJUSTER	In Stock		N/A	N/A
HLK - WICKET GATES - wicket gate	In Stock		N/A	N/A
HLK - XFMR,PT 600 VOLT 3 PHASE	In Stock		N/A	N/A
HLK- Turbine Bearing Cooler	In Stock		N/A	N/A
PRV - Bearing, Lower Guide	In Stock		N/A	N/A
PRV - Bearing, Upper Guide	In Stock		N/A	N/A
PRV - Bearing, Upper Thrust	In Stock		N/A	N/A
PRV - BLOCK POWERTRAC,115VAC/1	In Stock		N/A	N/A
PRV - Circuit Breaker	In Stock		N/A	N/A
PRV - COIL,GE 22-115-045-01	In Stock		N/A	N/A
PRV - CONTACTOR,FIELD FLASHING	In Stock		N/A	N/A
PRV - DIODE,GE 4001A1158JA	In Stock		N/A	N/A
PRV - DIODE,GE 4001A1158JB	In Stock		N/A	N/A
PRV - DIODE,GE 6RT44UV698-8841	In Stock		N/A	N/A
PRV - MAGNETROL,D-810-1GBA-ABM	In Stock		N/A	N/A
PRV - METER,FLOW OMEGA FL-6318B	In Stock		N/A	N/A
PRV - METER,FLOW WATER 1000#	In Stock		N/A	N/A
PRV - MOTOR,GOVERNOR PUMP	In Stock		N/A	N/A
PRV - Pad, Guide Bearing	In Stock		N/A	N/A
PRV - PLC CPU Module	In Stock		N/A	N/A
PRV - PLC Ethernet Module	In Stock		N/A	N/A
PRV - PLC Power Supply	In Stock		N/A	N/A
PRV - PUMP,PH PVP1630-R212	In Stock		N/A	N/A
PRV - TACHOMETER,TAK PAK 3	In Stock		N/A	N/A
PRV - TURBINE BEARING COOLER TURBINE	In Stock		N/A	N/A
USL - BEARING, BOWL - Drainage	In Stock		N/A	N/A
USL - BEARING, BOWL - Unwatering	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
USL - BEARING,BIG END COMP #E02128	In Stock		N/A	N/A
USL - BEARING,BIG END COMP #E02128	In Stock		N/A	N/A
USL - BEARING,COMPAIR E05519	In Stock		N/A	N/A
USL - BEARING,COMPAIR E05519	In Stock		N/A	N/A
USL - BEARING,MAIN D/E	In Stock		N/A	N/A
USL - BEARING,MAIN D/E	In Stock		N/A	N/A
USL - BEARING,MAIN O/E	In Stock		N/A	N/A
USL - BEARING,MAIN O/E	In Stock		N/A	N/A
USL - BEARING,PACKING CONTAINER	In Stock		N/A	N/A
USL - BELT,DRIVE COMPAIR 3VX850	In Stock		N/A	N/A
USL - BELT,DRIVE COMPAIR 3VX850	In Stock		N/A	N/A
USL - BELT,V 3V950	In Stock		N/A	N/A
USL - BELT,V 3V950	In Stock		N/A	N/A
USL - BRIDGE,THYRISTOR EG	In Stock		N/A	N/A
USL - BUSHING,IMPELLER TAPERLOCK	In Stock		N/A	N/A
USL - BUSHING,IMPELLER TAPERLOCK	In Stock		N/A	N/A
USL - BUSHING,SIDE ROLLER	In Stock		N/A	N/A
USL - BUSHING,SMALL END COM#LE02130	In Stock		N/A	N/A
USL - BUSHING,SMALL END COM#LE02130	In Stock		N/A	N/A
USL - BUSHING,WHEEL	In Stock		N/A	N/A
USL - COIL,SULL 250018-971	In Stock		N/A	N/A
USL - CROWBAR,ES	In Stock		N/A	N/A
USL - FILTER,COOLANT (ELEMENT ONLY)	In Stock		N/A	N/A
USL - GASKET KIT,IR X1453T47	In Stock		N/A	N/A
USL - GASKET,COMPAIR E05516	In Stock		N/A	N/A
USL - GASKET,COMPAIR E05516	In Stock		N/A	N/A
USL - GASKET,COMPAIR J201671	In Stock		N/A	N/A
USL - GASKET,COMPAIR J201671	In Stock		N/A	N/A
USL - GASKET,FLEXMASTER 250007-559	In Stock		N/A	N/A
USL - GASKET,SULL 040517	In Stock		N/A	N/A
USL - GOVERNOR PUMP	In Stock		N/A	N/A
USL - GOVERNOR PUMP	In Stock		N/A	N/A
USL - HEATER,GAIN 3.2 KW 575 V	In Stock		N/A	N/A
USL - HEATER,GATE (DUCT BLOWE	In Stock		N/A	N/A
USL - HEATER,SHEAVE BLOCK 1366 W	In Stock		N/A	N/A
USL - JOINT KIT,COMPAIR 98504/1172	In Stock		N/A	N/A
USL - JOINT KIT,COMPAIR 98504/1172	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202284	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202284	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202285	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202285	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September, 2021	Expected Delivery Date
USL - JOINT,COMPAIR C202285-100	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202285-100	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202286	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202286	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202287	In Stock		N/A	N/A
USL - JOINT,COMPAIR C202287	In Stock		N/A	N/A
USL - POWER DISTRIBUTOR, ASSY	In Stock		N/A	N/A
USL - REGULATOR KIT,SULL 250019-453	In Stock		N/A	N/A
USL - RING KIT,COMPAIR 98477/1131	In Stock		N/A	N/A
USL - RING KIT,COMPAIR 98477/1131	In Stock		N/A	N/A
USL - RING,PISTON 1ST STAGE	In Stock		N/A	N/A
USL - RING,PISTON 1ST STAGE	In Stock		N/A	N/A
USL - ROTOR RIM DRIVE KEYS	In Stock		N/A	N/A
USL - SEAL,FLAT 22' LENGTH	In Stock		N/A	N/A
USL - SEAL,J 22' LENGTH	In Stock		N/A	N/A
USL - SEAL,J C/W 2 CORNERS	In Stock		N/A	N/A
USL - SEAL,J C/W 4 CORNERS	In Stock		N/A	N/A
USL - SWITCH,OIL LEVEL	In Stock		N/A	N/A
USL - SWITCH,OIL LEVEL	In Stock		N/A	N/A
USL - TRANSMITTER,PRESS 0-2.5MH20	In Stock		N/A	N/A
USL - VALVE,REED 1ST STAGE	In Stock		N/A	N/A
USL - VALVE,REED 1ST STAGE	In Stock		N/A	N/A
USL - VALVE,REED 2ND STAGE	In Stock		N/A	N/A
USL - VALVE,REED 2ND STAGE	In Stock		N/A	N/A
USL - VARISTOR,EXCITER	In Stock		N/A	N/A
GCL - CMU	In Stock		N/A	N/A
GCL - Power Supply	In Stock		N/A	N/A
BDE - Unit 5/6 Rotor Pole	In Stock		N/A	N/A
BDE - Unit 7 Spare Pole	In Stock		N/A	N/A
CAT - Lightning Arrestor - Surge Suppressor	In Stock		N/A	N/A
	On Order	In transit. Impacted by Trans-Canada Highway closure on West Coast.		30-Nov-21
USL - Transformer T2	On Order	Capital Plan 2021. Arrived on site August 2021. Field testing revealed an internal grounding issue. Manufacturer shipped the transformer to the USA for repairs. Expected delivery back to USL to be determined.	N/A	TBD