

October 12, 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

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.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO



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

Encl.

ecc: **Board of Commissioners of Public Utilities**
Jacqui H. Glynn
Maureen P. Greene, Q.C.
PUB Official Email

Newfoundland Power
Dominic J. Foley
Lindsay S.A. Hollett
Regulatory Email

Consumer Advocate

Dennis M. Browne, Q.C., Browne Fitzgerald Morgan & Avis
Stephen F. Fitzgerald, Browne Fitzgerald Morgan & Avis
Sarah G. Fitzgerald, Browne Fitzgerald Morgan & Avis
Bernice Bailey, Browne Fitzgerald Morgan & Avis
Bernard M. Coffey, Q.C.

Industrial Customer Group

Paul L. Coxworthy, Stewart McKelvey
Denis J. Fleming, Cox & Palmer
Dean A. Porter, Poole Althouse

Labrador Interconnected Group

Senwung F. Luk, Olthuis Kleer Townshend LLP
Julia K.G. Brown, Olthuis Kleer Townshend LLP



2021–2022 Winter Readiness Planning Report

October 12, 2021

A report to the Board of Commissioners of Public Utilities



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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^[3] 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.⁴

Except where otherwise noted, information presented in this report covers both the Island Interconnected System and the Labrador Interconnected System for the period ending September 30, 2021.⁵

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 Will be provided with the November 10, 2021 Winter Readiness Planning Report. See Section 5.0 for more information.

⁴ “Request to Hydro to file Winter Readiness Planning 2016-2017,” Board of Commissioners of Public Utilities, September 13, 2016.

⁵ The data used to generate the status charts in Section 2.0 reflect a data cutoff date of September 17, 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 September 17, 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:
 - 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; and
- 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 September 17, 2021 in relation to
9 AWP and WR activities (i.e., Green: On Target, Yellow: Caution – Recovery Required, Red: Target Will
10 Not be Fully Met). Relevant highlights are also provided.

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

12 Hydro’s WR plan reflects the status of Hydro’s assets and does not include the Muskrat Falls Project
13 assets. Hydro’s WR preparations have focused on completing the necessary operations and
14 maintenance work to ensure system readiness and availability without any additional capacity from the
15 Muskrat Falls Project assets. Hydro anticipates that, at a minimum, the Labrador-Island Link is expected
16 to be largely available for capacity up to 312 MW during the winter season. Hydro is closely monitoring
17 the status of the Muskrat Falls Project commissioning and the associated schedule.

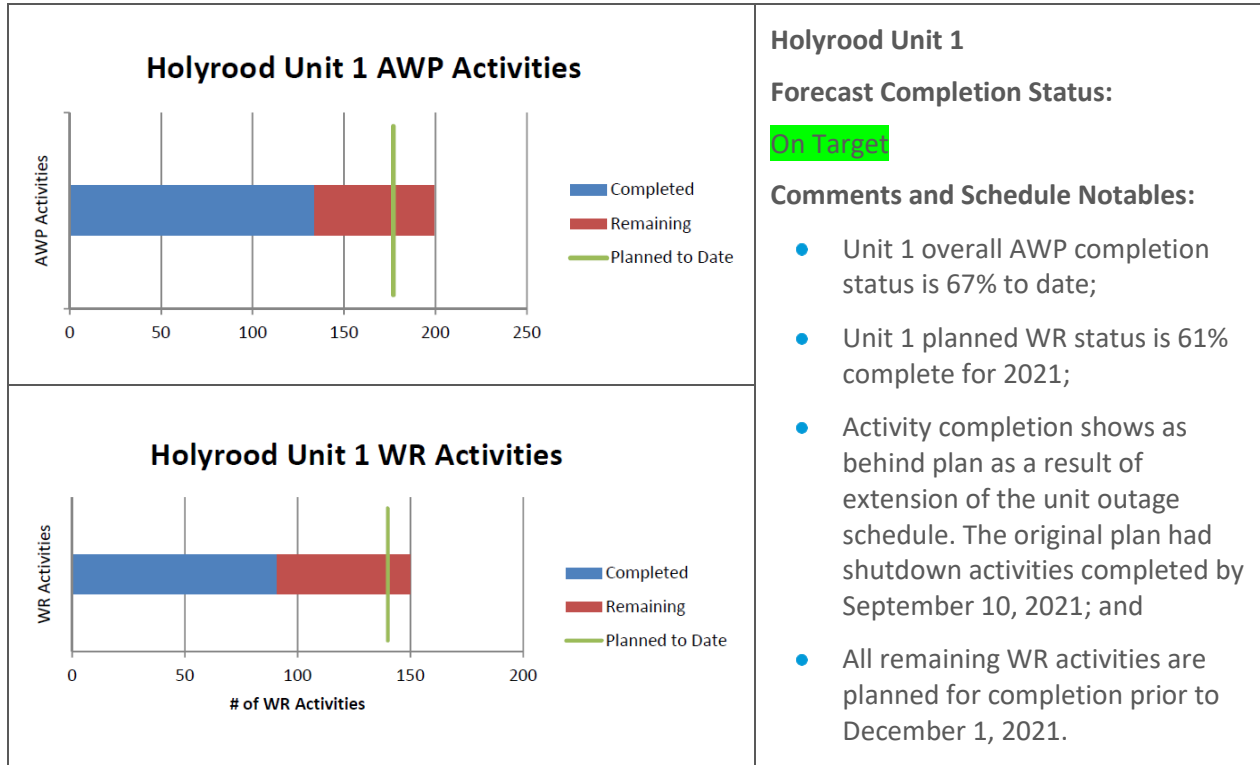
18 **2.1 COVID-19**

19 The 2021 AWP was established with consideration to the ongoing COVID-19 pandemic and lessons
20 learned from 2020. Business Continuity Plans remain in place to ensure that work activities continue
21 safely. Hydro is closely monitoring the COVID-19 pandemic situation, particularly the recent increase in
22 cases in central Newfoundland. Hydro’s Upper Salmon and Bay d’Espoir sites have been impacted by the
23 emergence of cases in the central region and some WR work has been adjusted as a result. Hydro
24 continues to monitor the situation and its impact on resource availability and execution for other
25 hydraulic generation work.

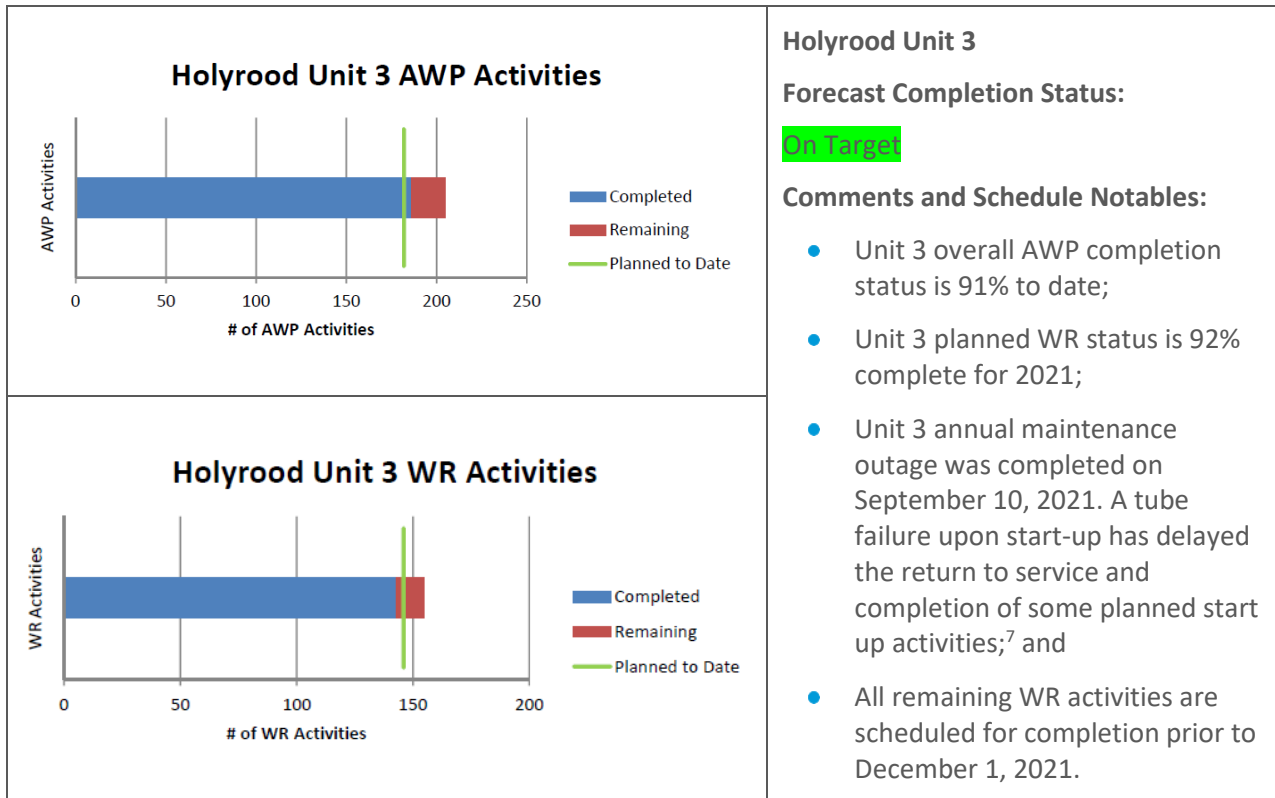
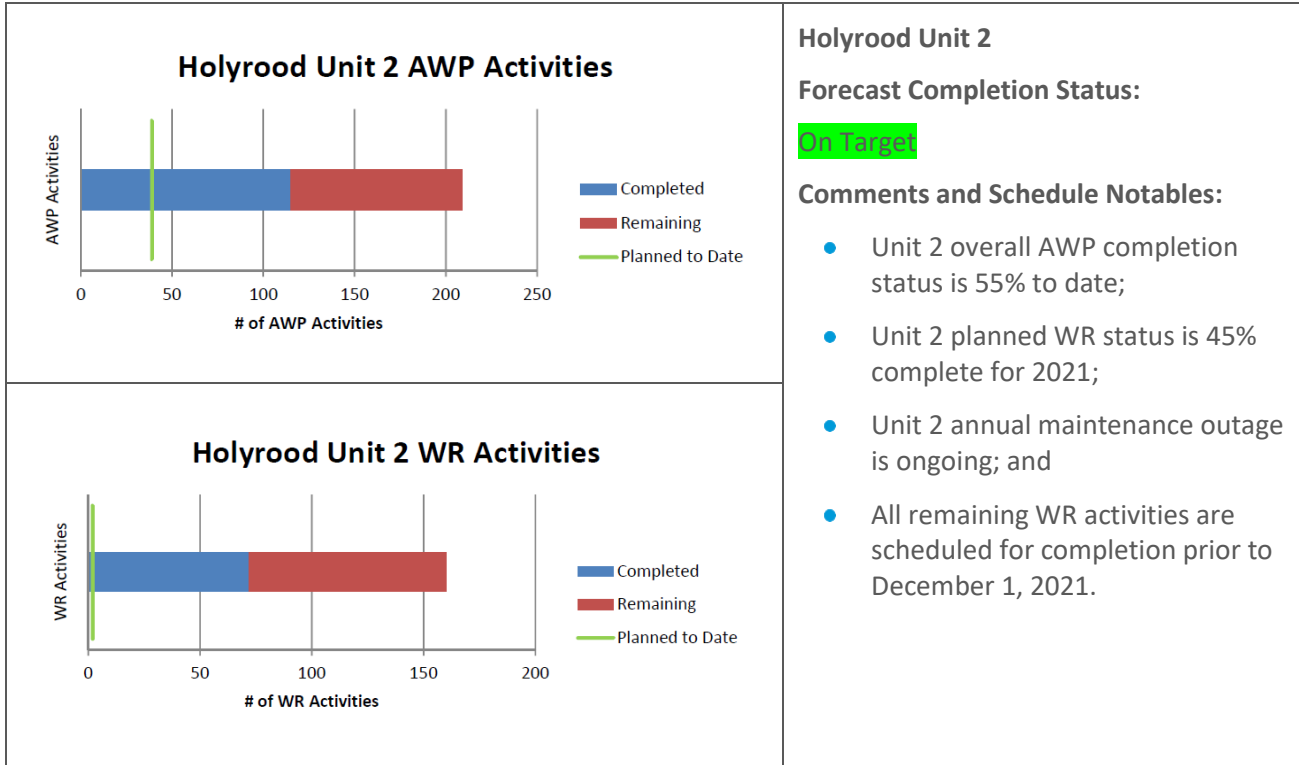
26 Hydro has continued to complete critical work in a planned and measured way in adherence with Public
27 Health orders and advice to ensure the safety of its staff and contractors and to minimize disruption to
28 work progress.

1 **2.2 Thermal Generation**

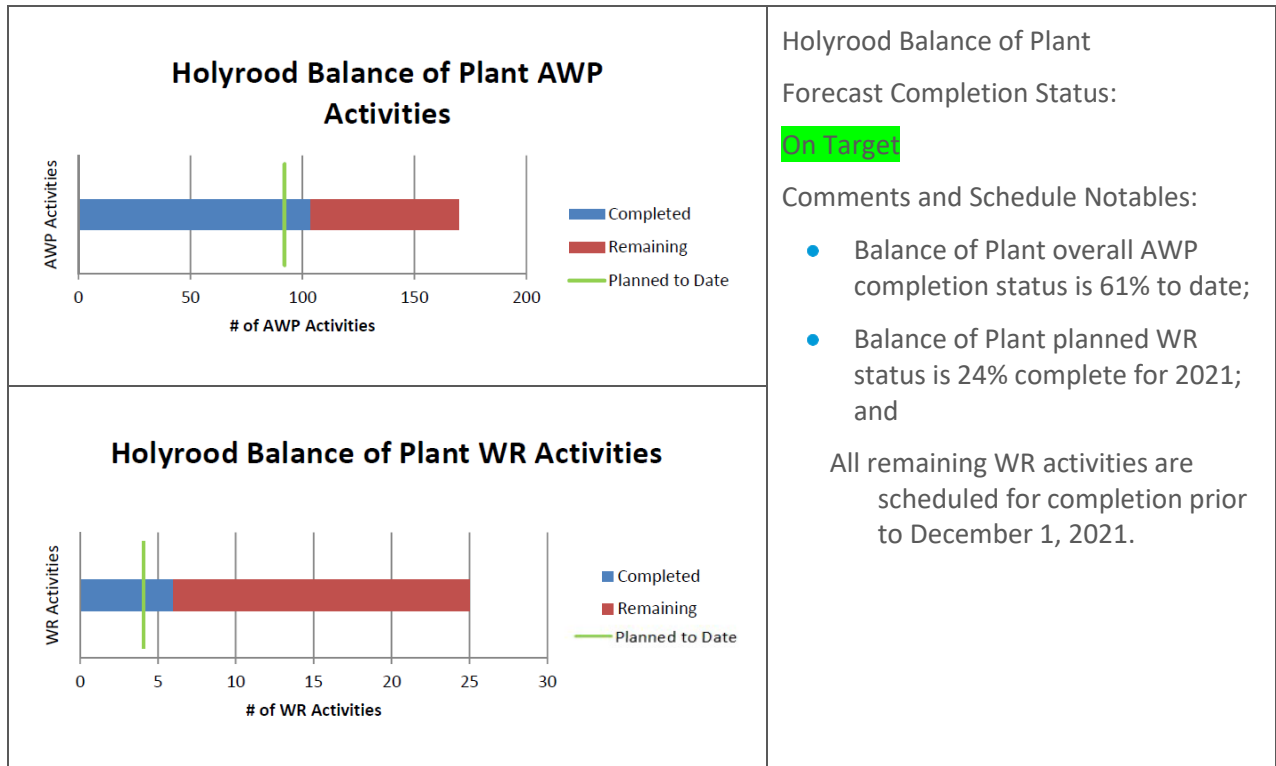
2 The status of AWP and WR execution at the Holyrood TGS is summarized in the charts below. A tube
 3 failure on Unit 3 has delayed its return to service;⁶ however, all planned 2021 WR work is on target for
 4 completion by December 1, 2021.



⁶ See Section 8.0 for further information.

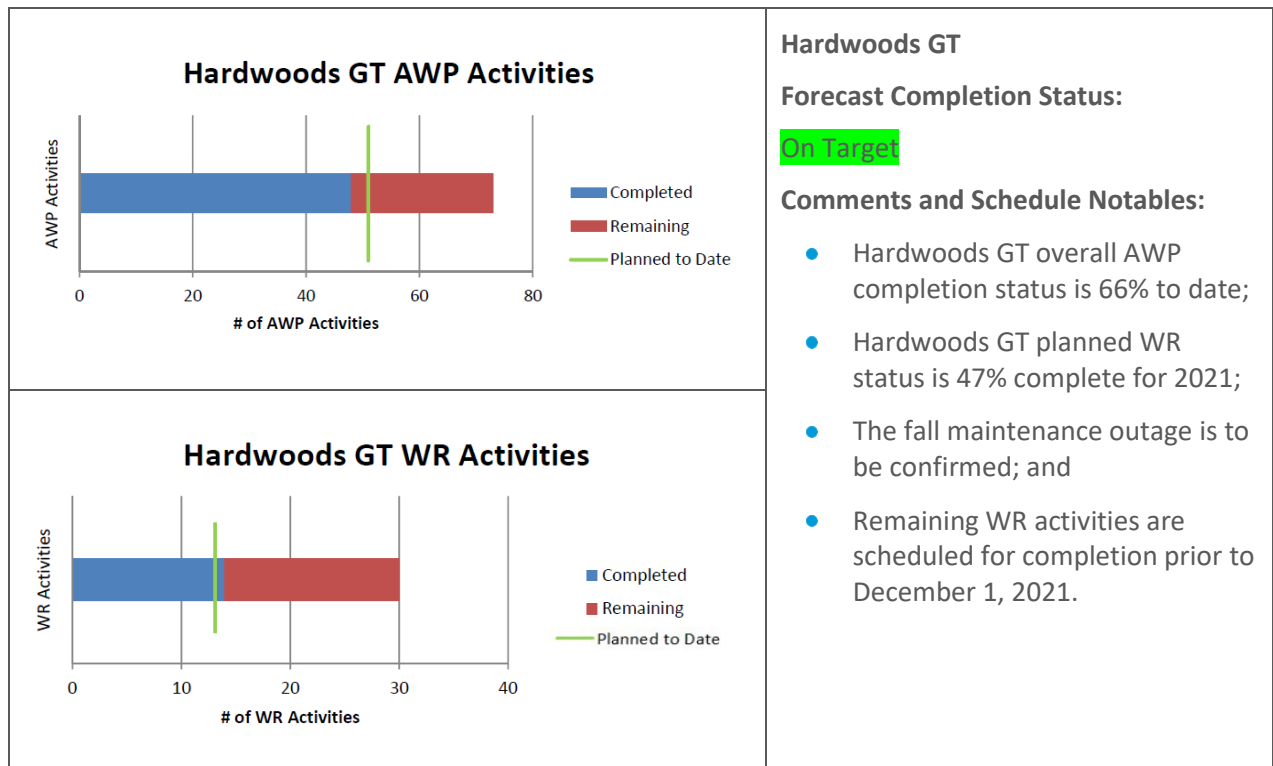
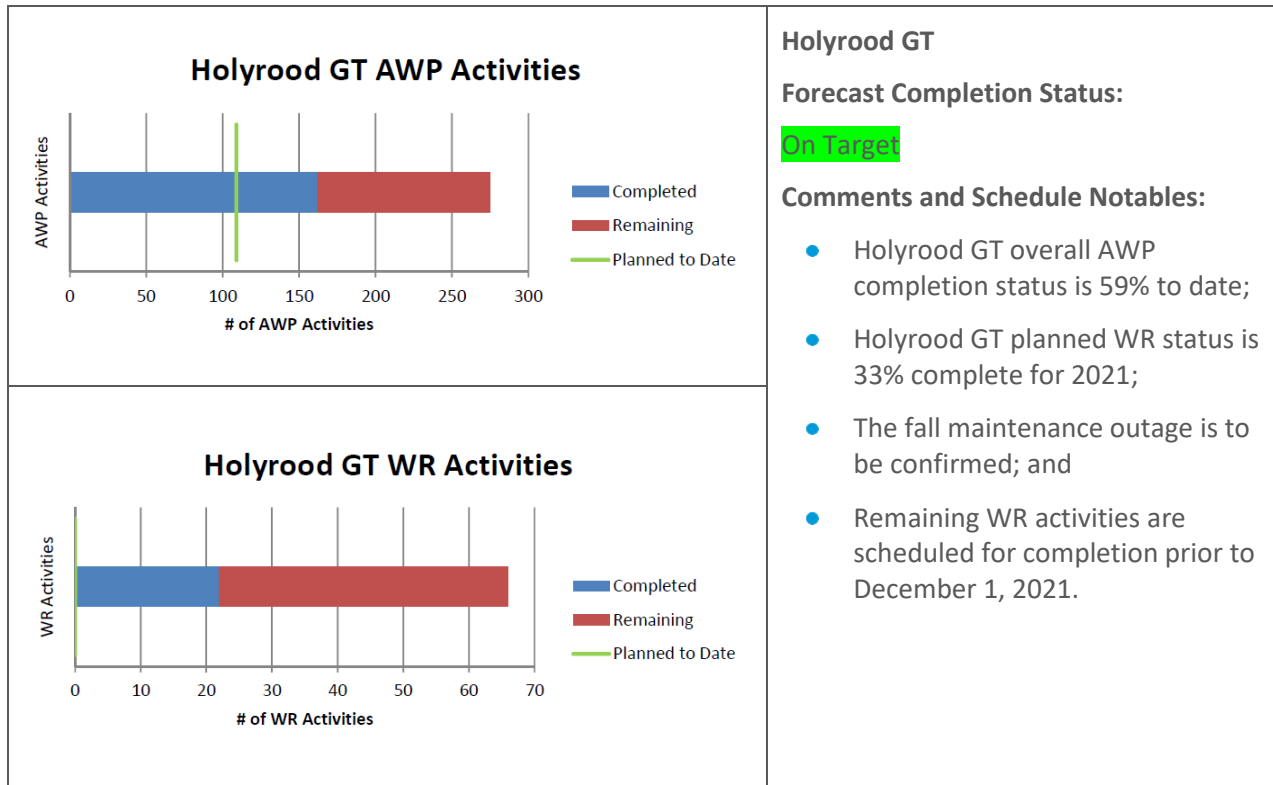


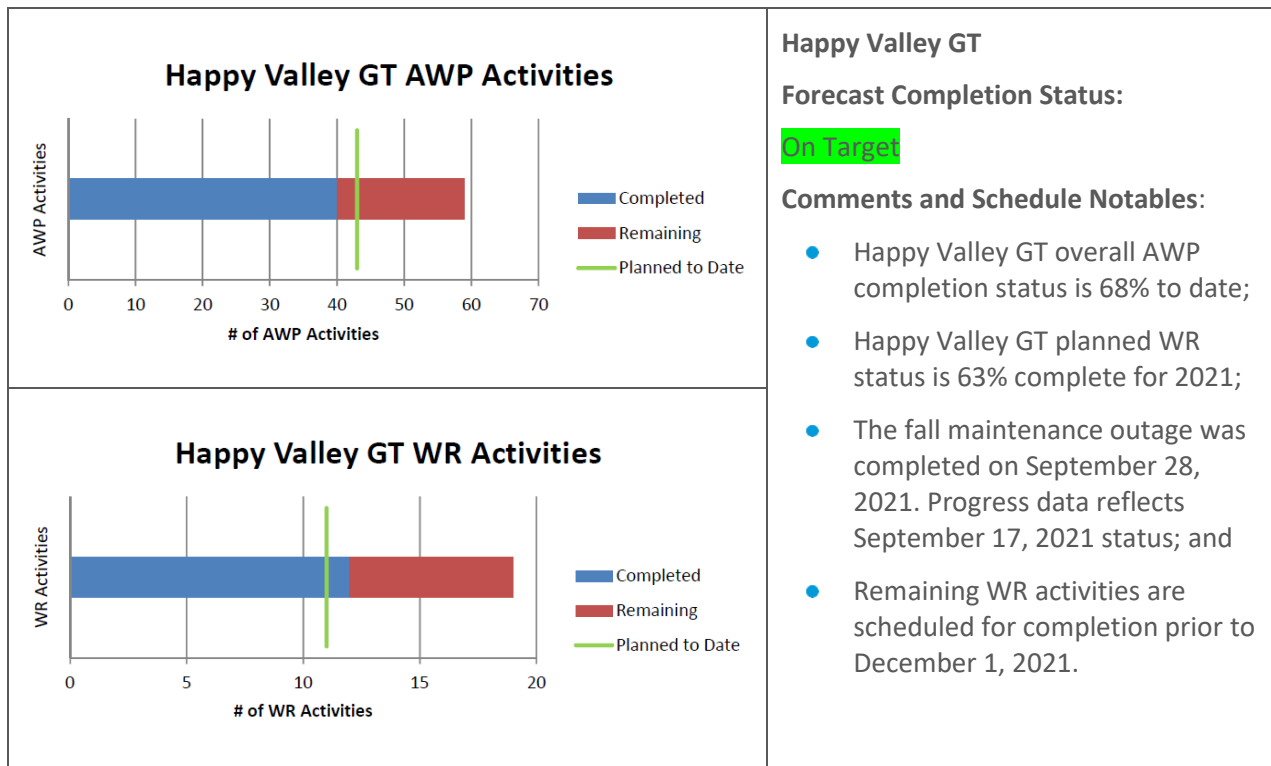
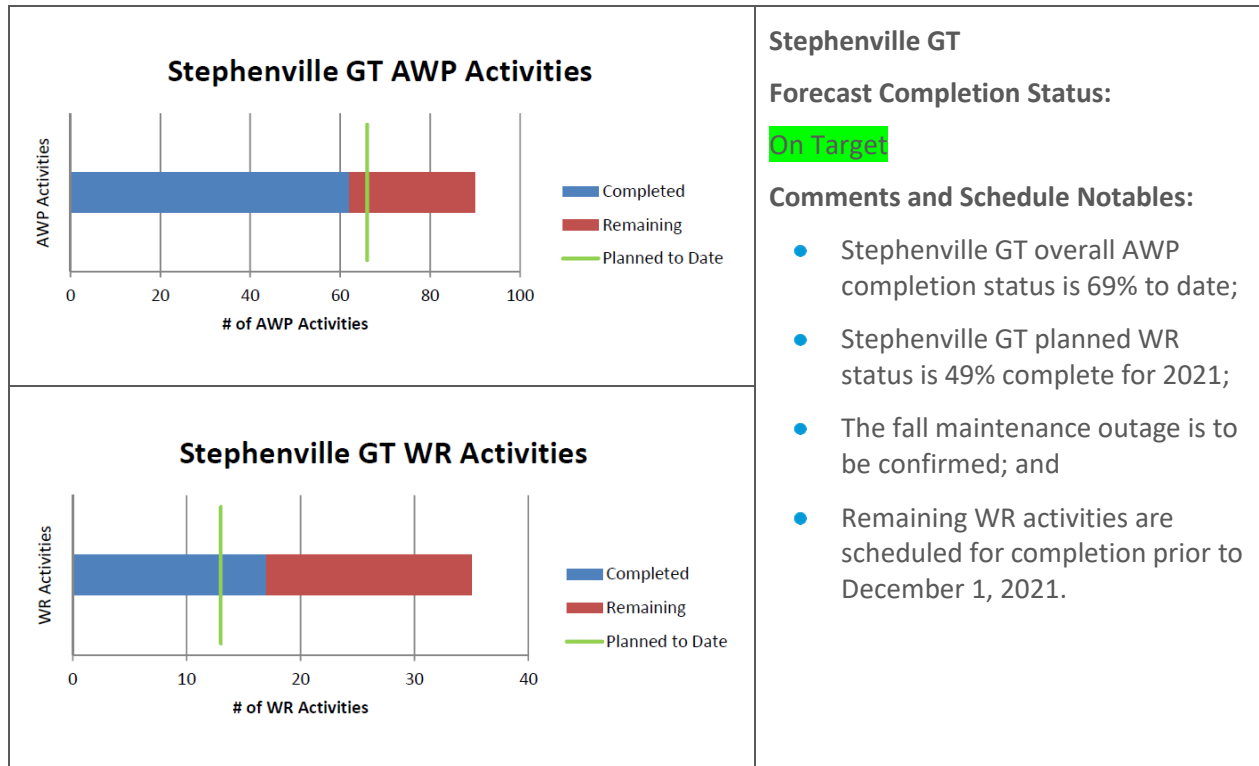
⁷ See Section 8.0 for further information.



1 **2.3 Gas Turbine Generation**

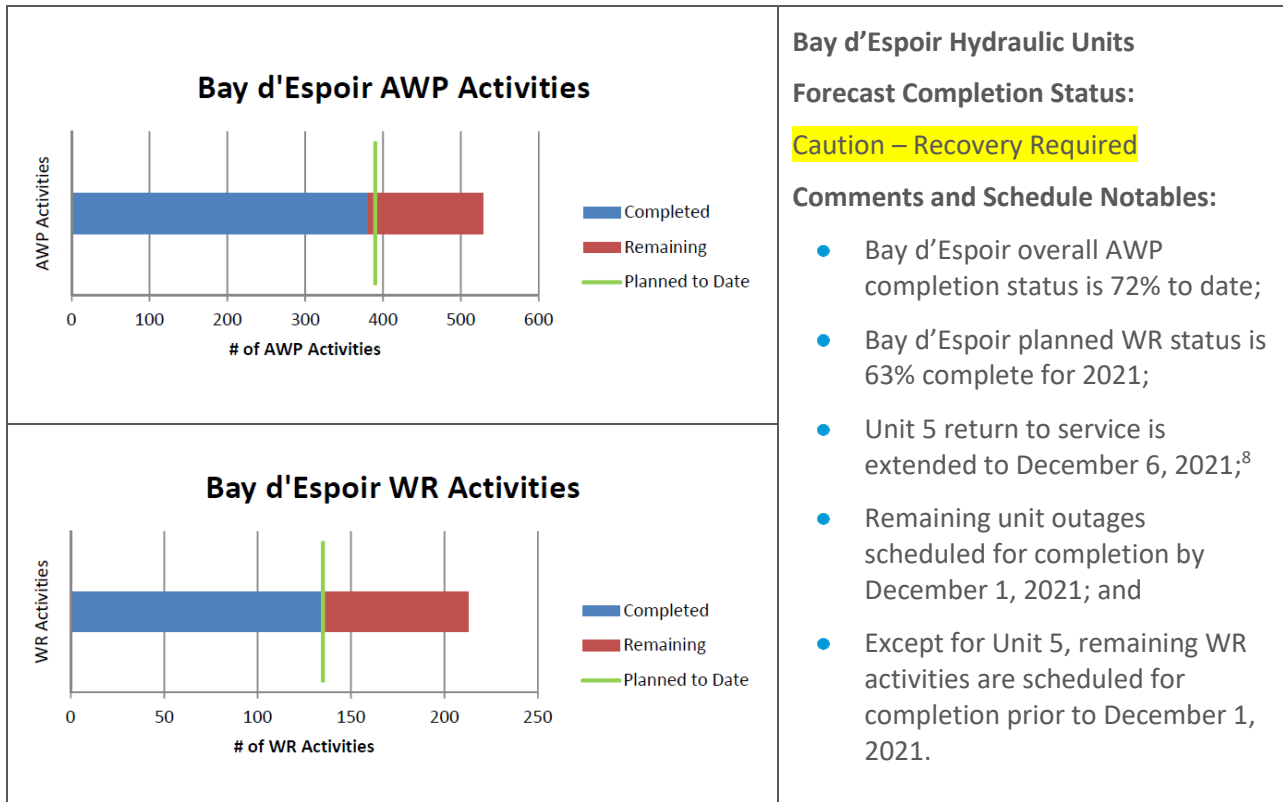
2 The current status of AWP and WR execution at the Holyrood Gas Turbine (“Holyrood GT”), Hardwoods
 3 Gas Turbine (“Hardwoods GT”), Stephenville Gas Turbine (“Stephenville GT”), and Happy Valley Gas
 4 Turbine (“Happy Valley GT”) is summarized in the following charts. Planned work for all gas turbines is
 5 on target for completion by December 1, 2021; however, unplanned work required elsewhere on the
 6 Island Interconnected System could change the planned fall outage schedule for the gas turbines on the
 7 Island. Should the outage schedule change for one or more gas turbines, Hydro will review and adjust its
 8 work plan as required.



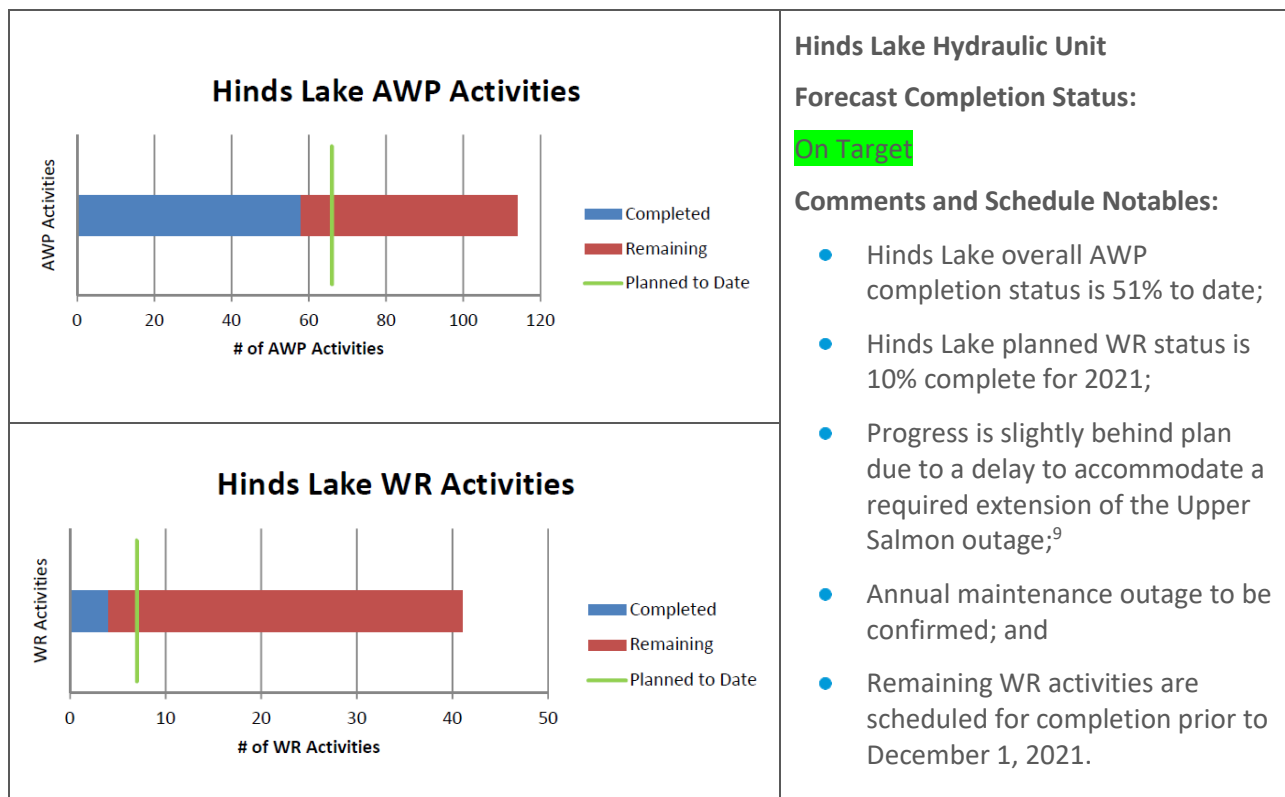
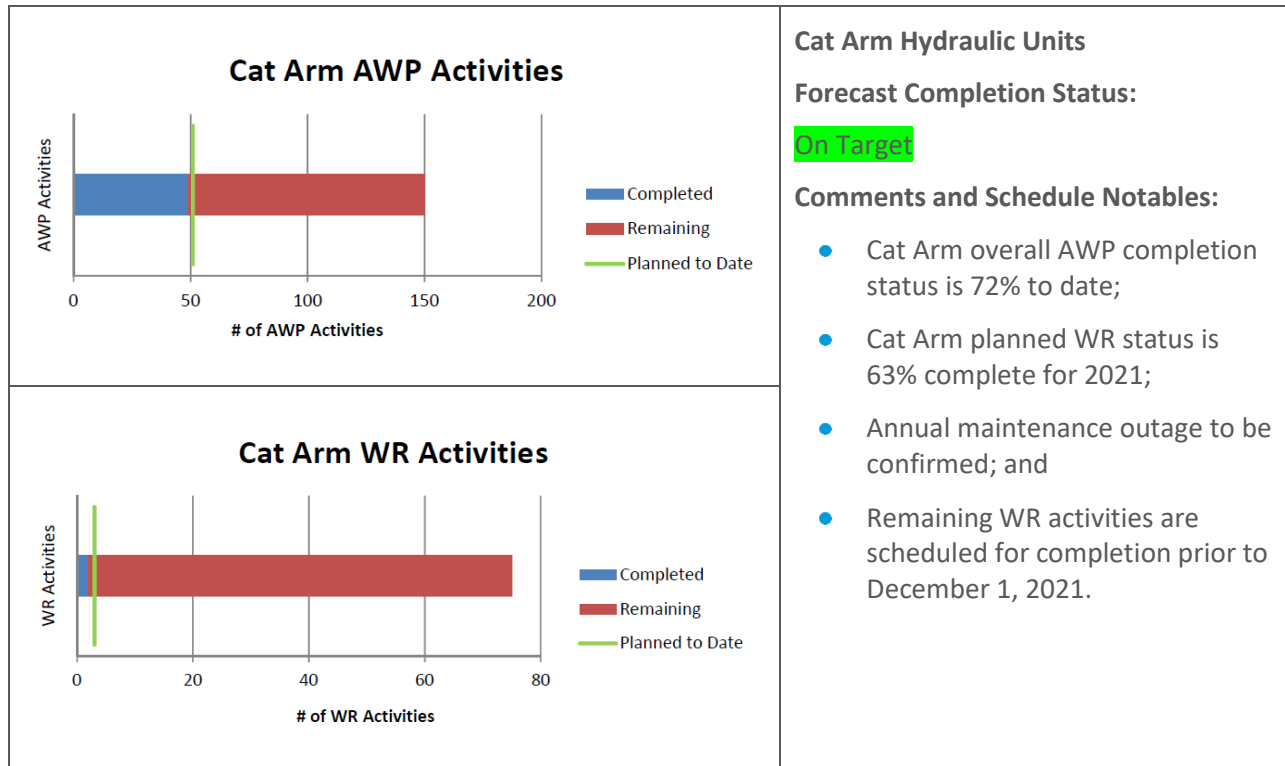


1 **2.4 Hydraulic Generation**

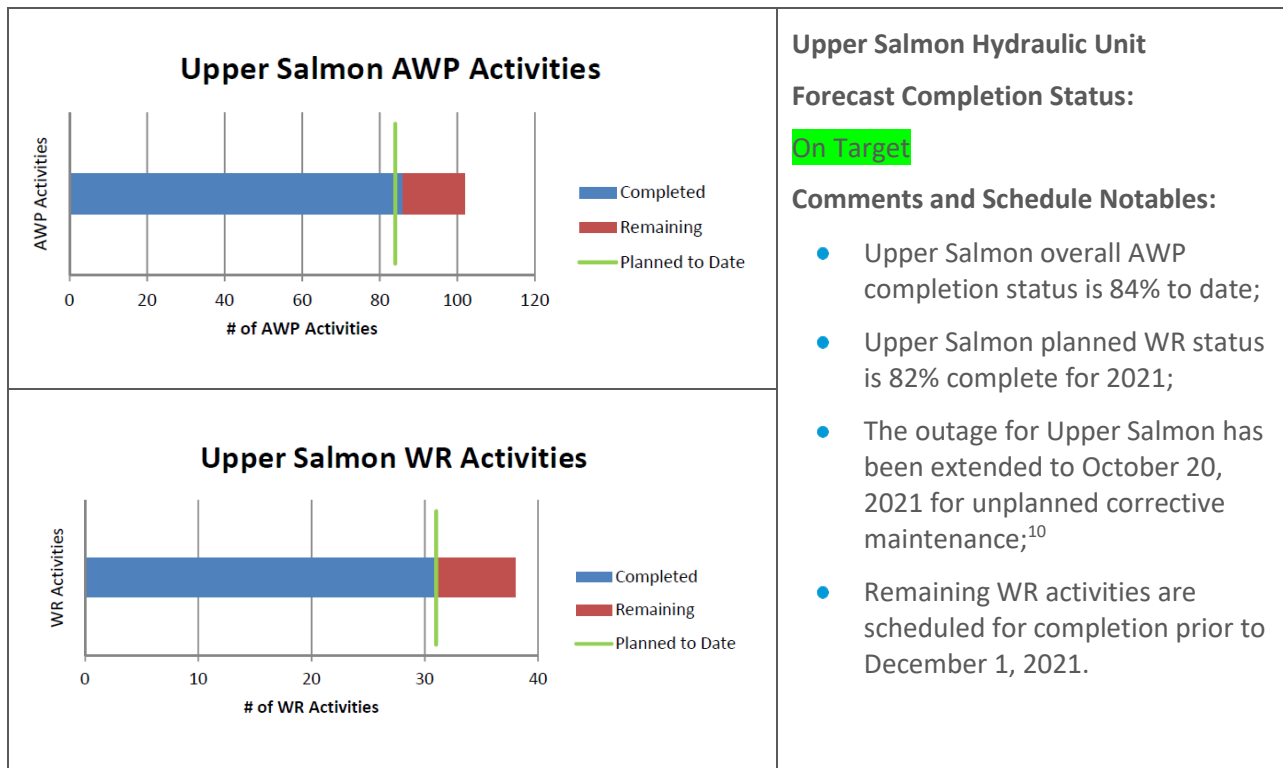
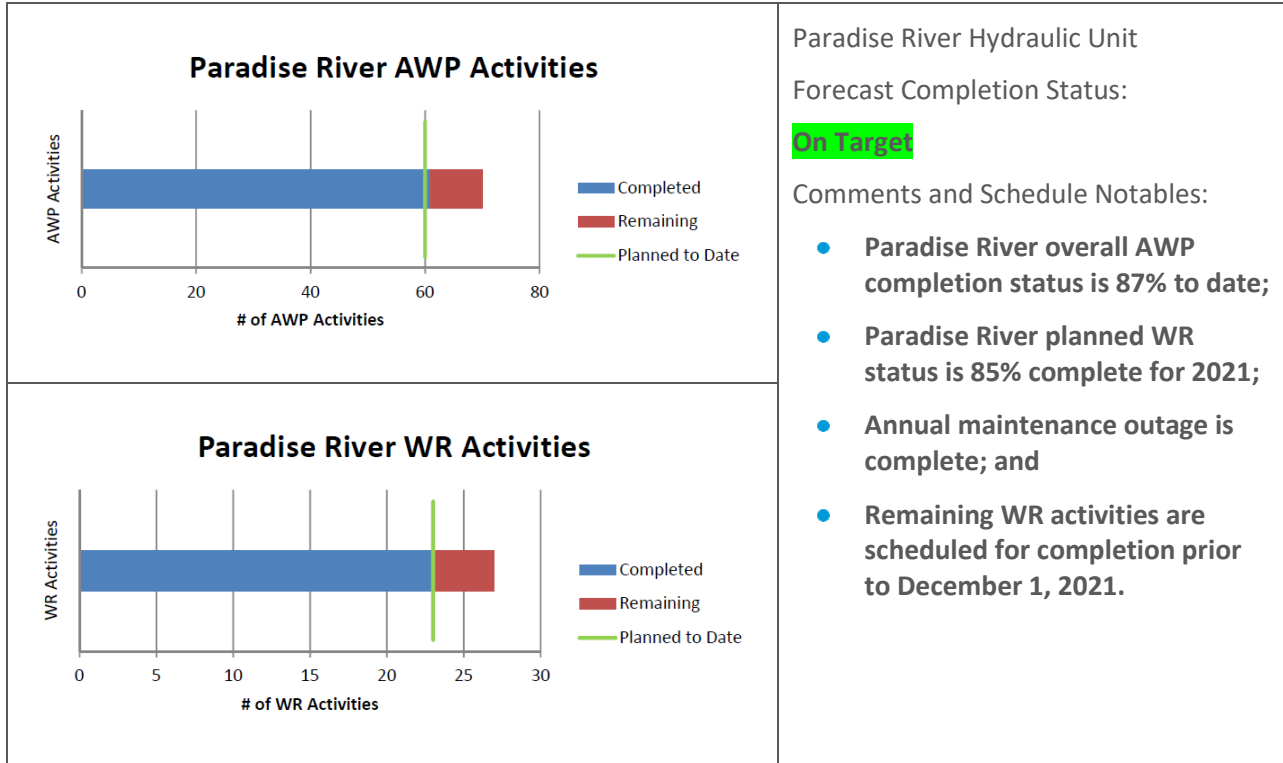
2 The current status of AWP and WR execution at Bay d’Espoir and other hydraulic generation facilities is
 3 summarized in the charts below. With the exception of Bay d’Espoir Unit 5, WR work for hydraulic
 4 generation facilities is on target for completion by December 1, 2021. See Section 8.0 for more
 5 information on Bay d’Espoir operation’s risks and mitigation.



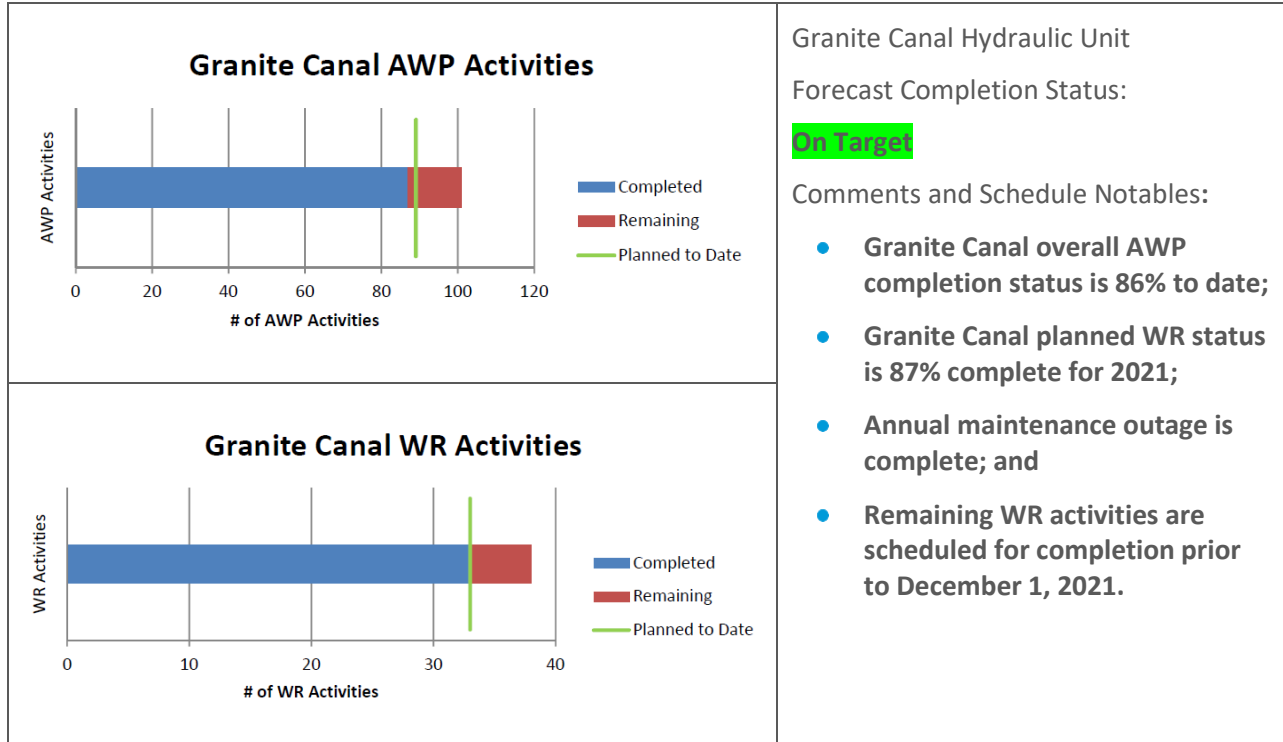
⁸ See Section 8.0 for further information.



⁹ See Section 8.0 for further information.

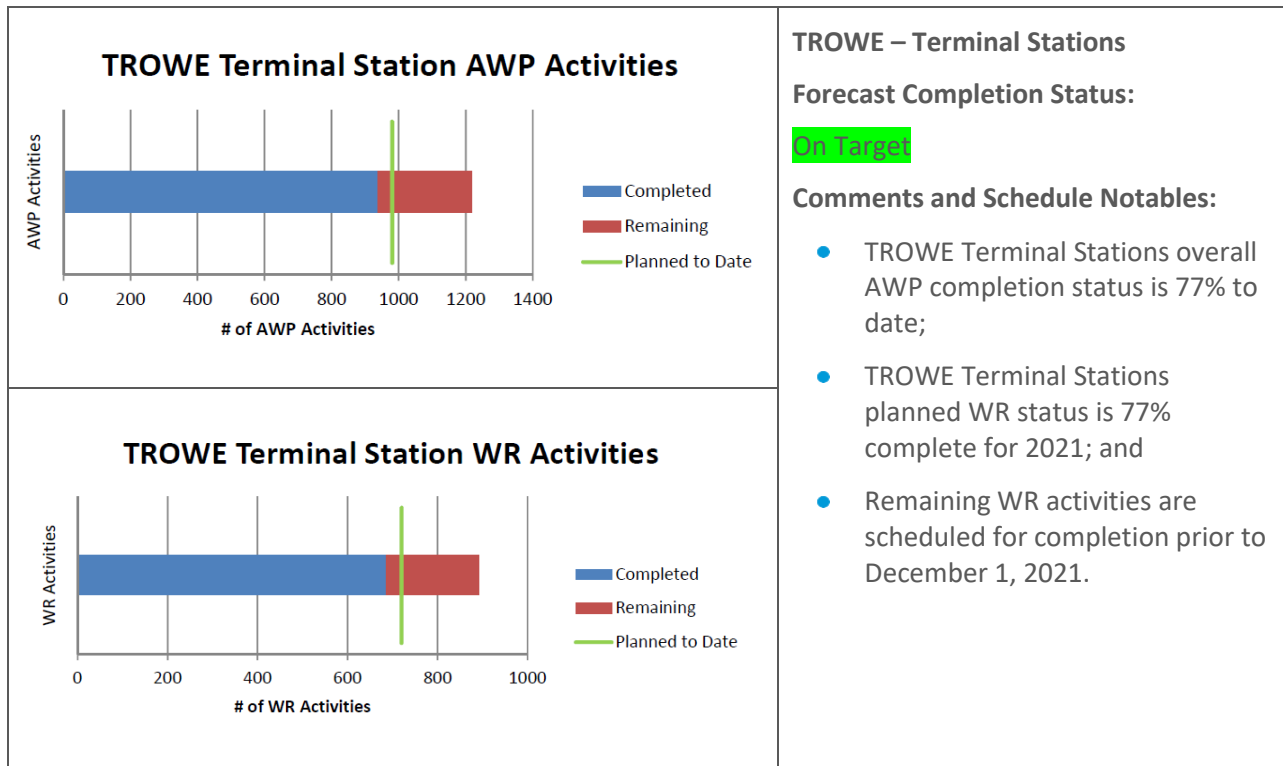
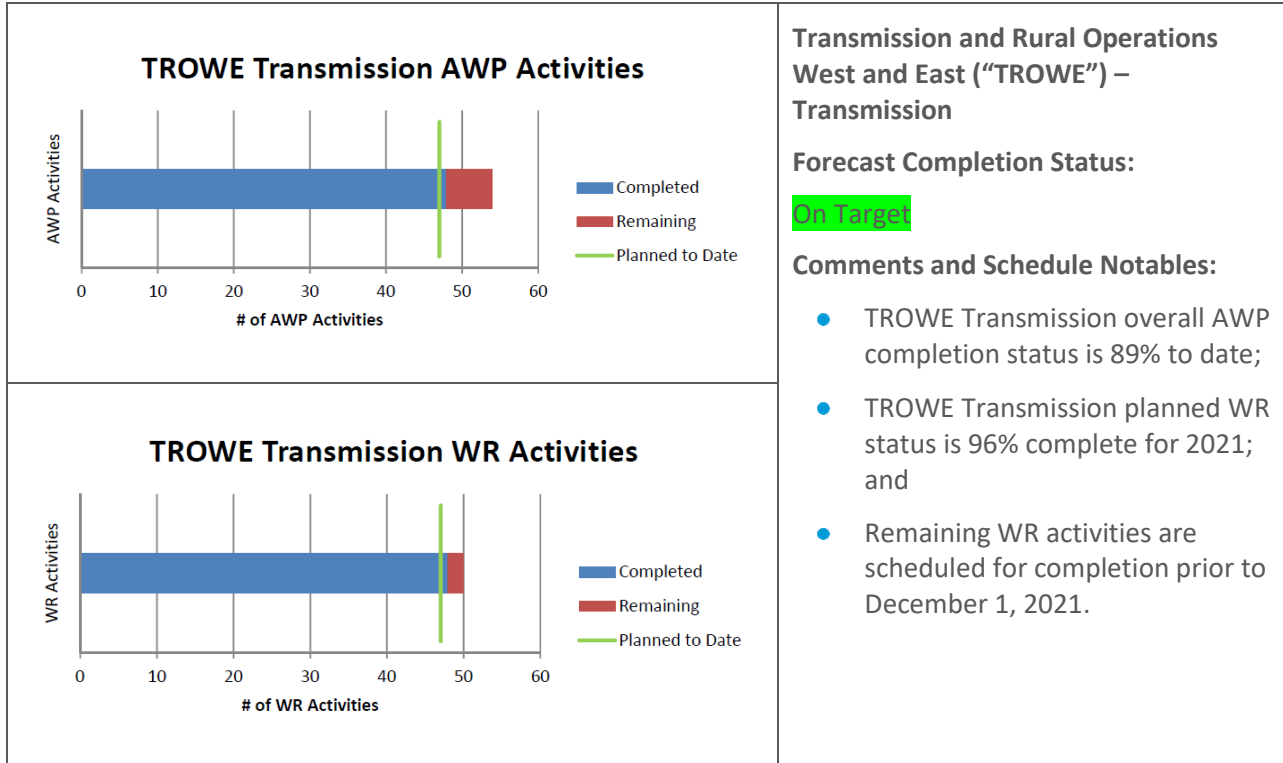


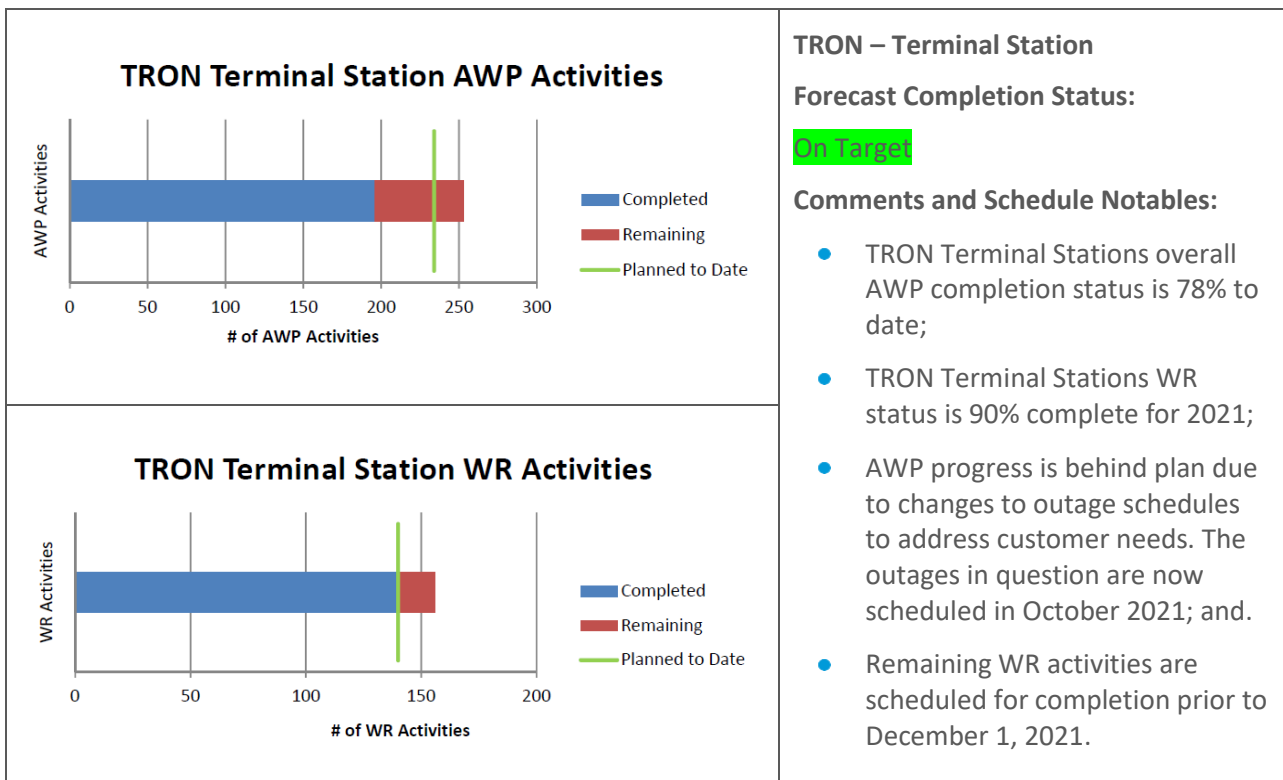
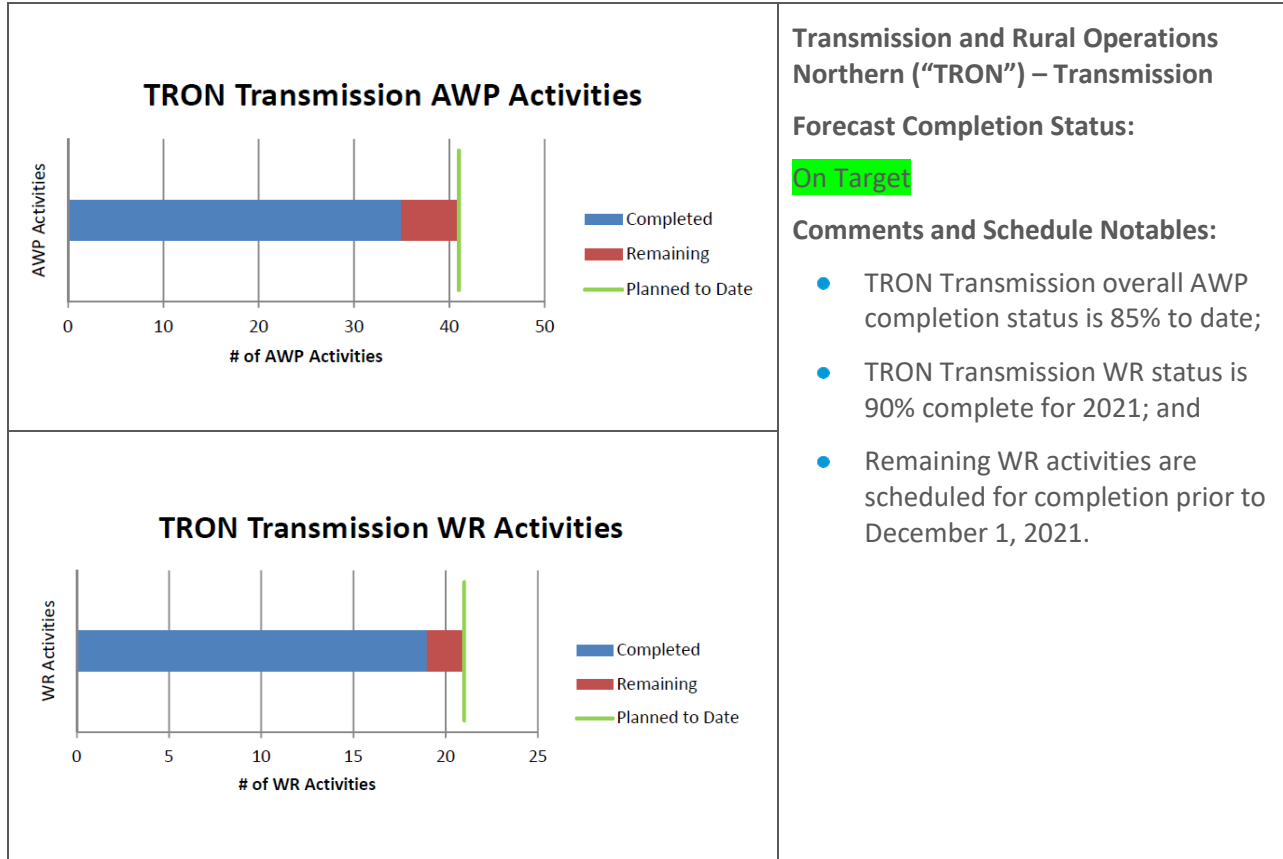
¹⁰ See Section 8.0 for further information.

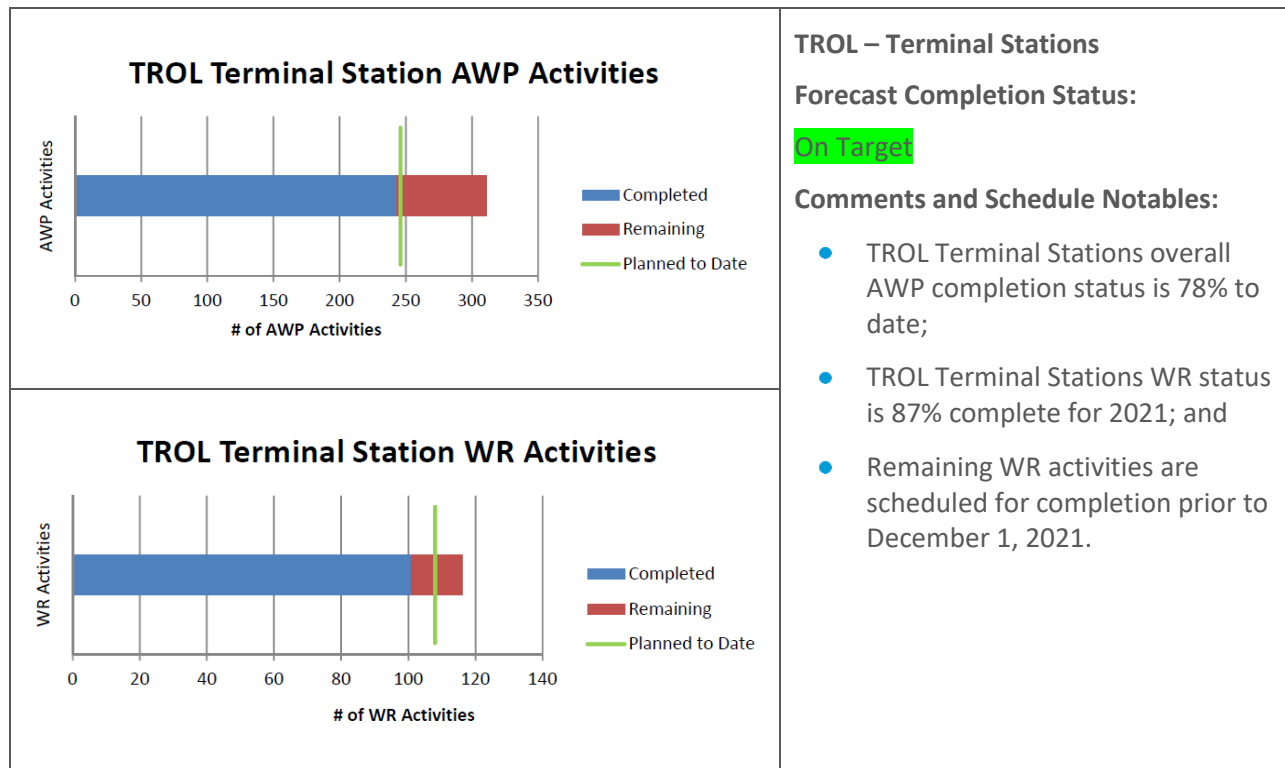
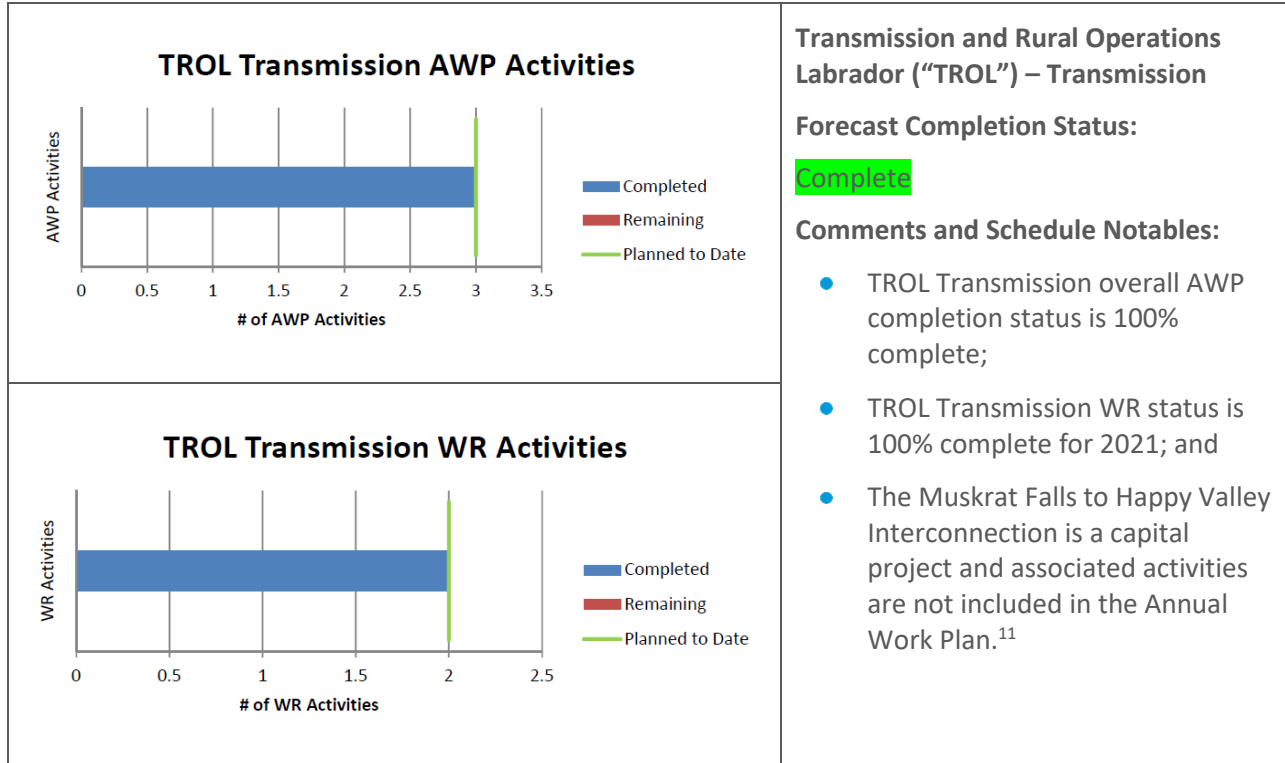


1 **2.5 Transmission and Terminal Stations**

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 charts
 4 below. All planned WR activities are scheduled for completion by December 1, 2021.



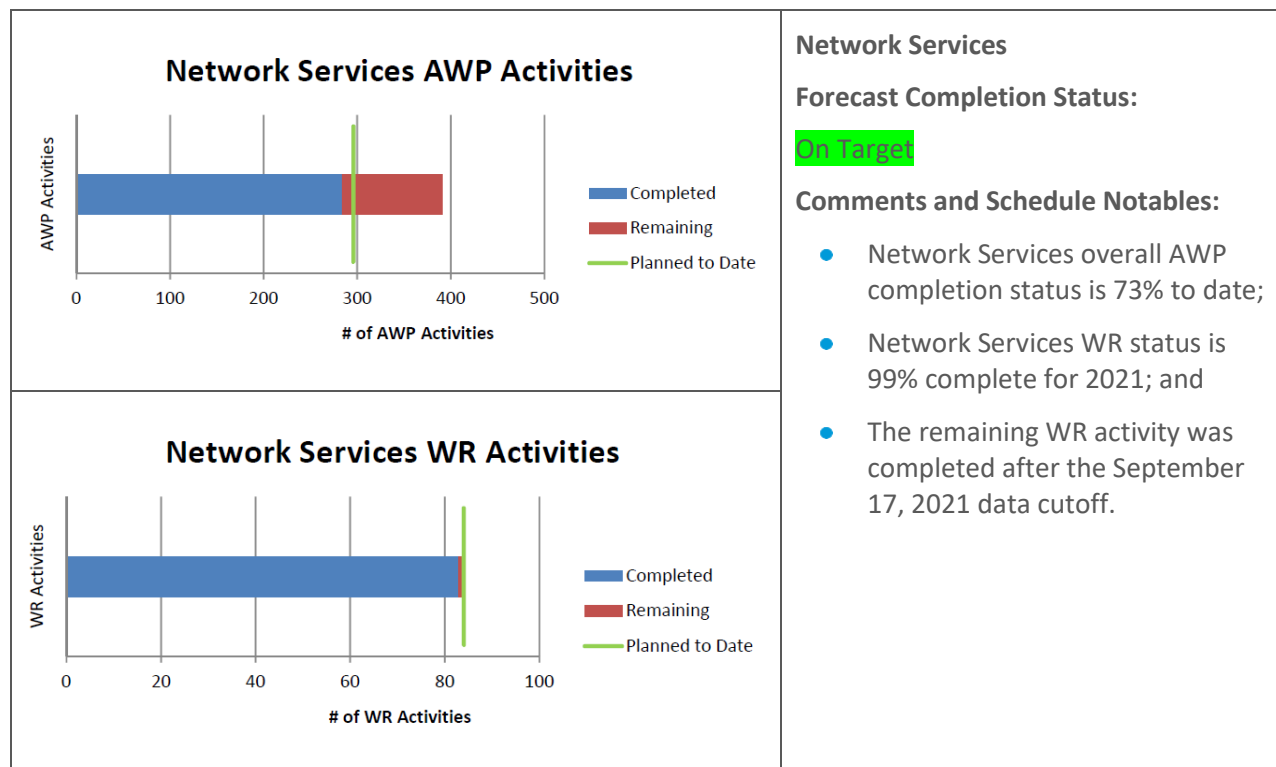




¹¹ See Section 8.0 for further information.

2.6 Network Services

- 2 The current status of AWP and WR execution for Network Services is summarized in the charts below.
- 3 All planned WR activities are scheduled for completion by December 1, 2021.



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	Incomplete, Expected	Total
	October 1, 2021	Completion by December 1, 2021	Completion after December 1, 2021	
Hydraulic Generation	1	0	2	3
Thermal Generation	1	4	0	5
Gas Turbine Generation	0	1	0	1
Terminal Stations	2	2	0	4
Transmission	0	0	0	0
Total	4	7	2	13

1 As of October 1, 2021, the WR scope for 4 of the 13 capital projects is complete. The WR scopes for 7 of
2 the 9 remaining projects are expected to be completed by November 23, 2021. The completion of 2
3 projects for Bay d’Espoir Unit 5 are delayed and the return to service of this generating unit is currently
4 expected to be on December 6, 2021. Please refer to Section 8.0 for more details on Bay d’Espoir Unit 5.

5 **4.0 Plant and Equipment Testing**

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

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

14 **4.1 Thermal Generation**

15 WR testing of generating equipment in Thermal Generation is focused primarily around annual unit
16 maintenance outages. Following these annual outages, units are run up and synchronized and all
17 systems are verified before the unit’s operating status is determined and preparedness is confirmed.
18 Unit load tests are performed at this time as well. It can take a period of time for system conditions to
19 allow for all required load testing. The WR testing protocol includes the testing of appropriate Balance of
20 Plant components, including the black start diesel generators.¹²

21 The current status of equipment/plant testing for Thermal Generation is indicated in Appendix B. Units
22 have not yet been returned to service for the winter operating season although Unit 3 was briefly run at
23 30 MW on September 11, 2021 until it was forced off line due to a boiler tube failure. Most of the start-
24 up checks for that unit and Balance of Plant equipment were completed at that time but, as indicated in
25 Appendix B, the unit was not online for a sufficient amount of time to complete several of the tests,
26 which are still indicated as items to be completed during start-up of the unit.

¹² 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.

1 **4.2 Gas Turbine Generation**

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

- 4 • PMs and CMs for major components and auxiliary systems;
- 5 • Black start testing;
- 6 • Monthly operational testing; and
- 7 • Execution of capital upgrades and refurbishment.

8 AWP charts, which include WR activities, are shown in Section 2.3 of this report. Black start testing has
9 been completed at the Happy Valley GT. The planned black start tests for the remaining gas turbines are
10 anticipated to be completed before December 1, 2021 during upcoming planned maintenance outages.

11 Operational testing of all gas turbines has been carried out throughout the year as planned and all WR
12 capital upgrades and refurbishments have been or will be completed by December 1, 2021.

13 **4.3 Hydraulic Generation**

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

19 The current status of equipment/plant testing for Hydraulic Generation is indicated in Appendix C. All
20 inspection and testing of the Hydraulic Generation facilities is scheduled to be completed by December
21 1, 2021 with the exception of Bay d’Espoir Unit 5. A capital project to rewind the stator on this unit is
22 taking longer than anticipated and the return to service date for that unit has been revised to December
23 6, 2021.

1 **4.4 Transmission and Terminal Stations**

2 **4.4.1 Transmission**

3 The summary of maintenance, refurbishment, and replacement criteria that Hydro uses for its
4 transmission lines was included in the “Transmission and Terminal Station Asset Management Execution
5 Report.”¹³ The report includes criteria for Wood Pole and Steel Structure Line Management Programs,
6 helicopter patrols, ground patrols, infrared inspections, wood pole treatment, and right-of-way
7 maintenance.

8 **4.4.2 Terminal Stations**

9 The Terminal Station Asset Management Overview document includes the maintenance, refurbishment,
10 and replacement criteria used by Hydro for Terminal Station assets. Version 6 of this document was
11 included in the Terminal Station Refurbishment and Modernization project report in Hydro’s “2022
12 Capital Budget Application.”¹⁴

13 **4.4.3 Transmission and Terminal Station Testing**

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

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

23 AWP charts, which include WR activities, are shown in Section 2.5 of this report. All WR activities are
24 planned for completion by December 1, 2021.

¹³ “Transmission System and Terminal Station Asset Management Execution Report,” Newfoundland and Labrador Hydro, April 12, 2021.

¹⁴ “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. As of the filing date, all WR activities are complete.

5 **5.0 Generation Outage Schedule**

6 As part of its WR reporting, Hydro typically provides its Master Generation Outage Schedule for the
7 period September 1 to December 31 of the reporting year. At this time, a rework of the schedule for
8 remaining maintenance activities is underway given the emergence of unplanned extension
9 requirements for Unit 1 and the forced outage state of Unit 3 at the Holyrood TGS, combined with the
10 unplanned extension of outages to Bay d’Espoir Unit 5 and Upper Salmon. Given that the plan remains
11 in development, Hydro is unable to share the Master Generation Outage Schedule at this time.

12 As reflected in Section 2.0, a number of unit annual maintenance programs have been completed across
13 the fleet and Hydro plans to complete annual maintenance on all its units in advance of the winter
14 season. At this time, maintenance activities remain underway on all three units at the Holyrood TGS,
15 Upper Salmon, and Units 5 and 6 in Bay d’Espoir. Annual maintenance programs remain to be
16 completed on the following: Cat Arm, Hinds Lake, Hardwoods GT, Holyrood GT, and Stephenville GT.
17 Note that with the exception of Bay d’Espoir Unit 5, there are no planned outages of generation
18 equipment extending beyond December 1, 2021. Bay d’Espoir Unit 5 is expected to return to service on
19 December 6, 2021.¹⁵ Hydro will provide its Master Outage Schedule in the November 2021 filing of the
20 2021–2022 Winter Readiness Planning Report.

21 **6.0 Critical Spares**

22 **6.1 Overview**

23 In 2014, Hydro completed extensive reviews of its critical spares requirements in all three areas of its
24 generation operations: hydraulic generation; thermal generation (Holyrood TGS); and the gas turbines in
25 Hardwoods and Stephenville. These reviews included a detailed analysis of asset criticality and spare
26 parts in reference to several factors, including impact on generation reliability and replacement part
27 availability. A second phase of spares analysis was completed in 2017 for Hydro’s hydraulic generation

¹⁵ See Section 8.0 for further information.

1 facilities and 569 additional items were added to the critical spares list. This year, Hydro has included
2 details on its critical spares status for the Happy Valley GT.

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

7 Included in this report is a full update on the status of Hydro's critical spares, as of September 30, 2021,
8 for the 2021–2022 winter season. This update includes a detailed listing of critical spares requirements
9 for each area of generation operations and the status of each item.

10 **6.2 2021–2022 Winter Season**

11 Hydro's critical spares status leading into the 2021–2022 winter season is strong. For Thermal
12 Generation (Appendix E), Gas Turbines (Appendix F), and Hydraulic Generation (Appendix G), a total of
13 2,518 critical spares have been identified by Hydro's three generation operations areas. Of this total,
14 2,500 items are in stock (>99%) and 18 items are in the procurement process.

15 **6.2.1 Thermal Generation**

16 As summarized in Table 2, there are nine critical spare stock items currently not in stock. All of these
17 items are on order through Hydro's Supply Chain Department and are in varying stages of procurement.
18 One item is being refurbished and is expected to ship November 9, 2021, while another is expected on
19 site October 15, 2021. The remaining seven items are currently out for quote.¹⁶ Supply Chain is
20 expediting the purchase of these items and an update on these and all other outstanding items will be
21 included in the November 2021 filing of the 2021–2022 Winter Readiness Planning Report.

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

¹⁶ Hydro is awaiting quotes for five items, one of which 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	749
On Order	9
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 and Appendix F contains detailed lists for each gas turbine.

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 of these are on order. All
11 items are expected to be in stock prior to December 1, 2021.

12 Hydro has utilized a number of its spare parts to address deficiencies found during the 2021
13 maintenance season. These items have been identified and the spare components have been
14 replenished. Fall maintenance outages may result in the requirement to replenish additional spare
15 components.

6.2.3 Hydraulic Generation

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

Table 4: Critical Spares for Hydraulic Generation

Critical Spare Items	Quantity
In Stock	1,211
On Order	6
Not Yet On Order	0
Total	1,217

The six outstanding items for 2021 include:

- 1) Bay d’Espoir Unit 5/6 spare rotor pole;
- 2) Bay d’Espoir Unit 7 spare rotor pole;
- 3) Cat Arm lightning arrestor;
- 4) Granite Canal computer management unit;
- 5) Granite Canal power supply; and
- 6) Upper Salmon T2 transformer.

Items 1 through 3 have been ordered and are expected to be delivered by November 30, 2021. Items 4 and 5 have been ordered and are expected to be delivered by October 31, 2021. Item 6 was successfully delivered in August 2021; however, on site field testing revealed an internal grounding issue. The manufacturer is in the process of packaging the unit to ship to the United States of America for repairs. The expected delivery of the transformer back to Upper Salmon is to be determined upon delivery to the repair facility.

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.”¹⁷

¹⁷ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 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 EUE¹⁸ for the period of December 1, 2021
 3 to 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.”¹⁹

8 Hydro intends to file an update of its assessment of near-term reliability and resource adequacy on
 9 November 15, 2021.

10 **7.1 Assumptions**

11 **7.1.1 Asset Performance**

12 Hydro updates its assumptions for forced outage rates for all generation assets on an annual basis.²⁰

13 Table 5 presents the forced outage rates used in this analysis.

Table 5: Forced Outage Rates for Hydro-Owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR ²¹ = 2.6%
Holyrood Thermal Units – Base Assumption	DAFOR = 15%
Holyrood Thermal Units – Sensitivity Assumptions	DAFOR = 18%, 20%
Holyrood Gas Turbine	DAUFOP ²² = 4.9%
Happy Valley Gas Turbine	DAUFOP = 12%
Stephenville Gas Turbine	DAUFOP = 30%
Hardwoods Gas Turbine	DAUFOP = 30%
Diesels	DAUFOP = 8%

¹⁸ 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.

¹⁹ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 2021.

²⁰ Forced outage rates are updated consistent with the Forced Outage Rates Methodology presented in “Reliability and Resource Adequacy Study – 2019 Update,” Newfoundland and Labrador Hydro, November 15, 2019.

²¹ Derated Adjusted Forced Outage Rate (“DAFOR”).

²² 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.²³ Forced outage rates used in this analysis are presented in Table 6.

Table 6: Forced Outage Rates – Third-Party Owned Assets

Asset	Reliability Metric
Hydraulic Units	DAFOR = 5.7%
Gas Turbines	DAUFOP = 8%
Corner Brook Cogen	DAUFOP = 17.48%

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 Labrador-Island Link (“LIL”) is shown to provide significant system reliability
 6 benefits even at low power transfer levels. Given the completion of Interim Bipole Trial Operations it is
 7 likely that the LIL will be available for some level of power transfer throughout the 2021–2022 winter
 8 operating season; however, to provide a fulsome view of potential system reliability, Hydro has
 9 prepared this analysis in a manner consistent with prior analysis by considering and analyzing system
 10 reliability through the entire reporting period with an assumption that the LIL will not be available for
 11 the reporting period. Please note that since the filing of Hydro’s “Near-Term Reliability Report,”²⁴ the LIL
 12 has been successfully tested and operated at 315 MW, an increase from the prior established
 13 operational limit of 225 MW.

14 With respect to the LIL, once modelled as in-service, the forced outage rate is modelled with a declining
 15 forced outage rate (i.e., improving performance) in order to capture any testing activities and potential
 16 operational unknowns during the first years of operation.²⁵ For the purpose of this analysis, the LIL is
 17 assumed to be available at its full capacity on the in-service date, supported by the full availability of the
 18 Muskrat Falls generating units. The delivery of the Nova Scotia Block²⁶ is also assumed. Please note that
 19 as per the Energy and Capacity Agreement, in instances where the LIL is fully unavailable, Hydro is not

²³ As provided in the Canadian Electricity Association Generating Equipment Reliability Information System and the North American Electric Reliability Corporation Generating Availability Data System.

²⁴ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 2021.

²⁵ In year one of operation, the monopole forced outage rate is assumed to be 10% for each pole. The forced outage rate assumption decreases to 2.5% in year two, 1% in year three, and finally to the long-term forced outage rate of 0.556% per pole from year four onwards.

²⁶ 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, to be supplied from the Muskrat Falls Hydroelectric Generating Facility on peak.

1 obligated to deliver the Nova Scotia Block. In instances where the LIL is partially available, the Nova
2 Scotia Block is delivered on a *pro-rata* basis.

3 **7.1.3 Availability of Capacity Assistance Agreements**

4 Capacity assistance refers to curtailable loads and customer generation available to the utility under
5 contract to provide capacity on an as needed basis. Hydro currently has an agreement with Corner
6 Brook Pulp and Paper Limited (“CBPP”) for capacity assistance. The current agreement expires April 30,
7 2023 ensuring the availability of this agreement to increase system reliability should the LIL be
8 unavailable in the 2021–2022 winter operating season. Following unplanned extensions of the
9 maintenance outages for Holyrood TGS Unit 1 and Upper Salmon, as well as a prolonged forced outage
10 of Holyrood TGS Unit 2, Hydro and CBPP entered into an agreement for capacity assistance outside of
11 the winter period defined in the agreement pursuant to Section 2.06 of the Amended and Restated
12 Capacity Assistance Agreement. Under this agreement, CBPP is providing Hydro with up to 60 MW of
13 capacity assistance from September 24 to October 8, 2021 and 80 MW of capacity assistance from
14 October 9 to October 31, 2021.

15 Since 2014, Hydro has engaged Vale Newfoundland and Labrador Limited (“Vale”) through various
16 agreements to provide capacity assistance from its diesel generators. Hydro has engaged Vale to provide
17 7.6 MW of capacity assistance through the 2021–2022 winter operating season.

18 **7.2 System Energy Capability**

19 In order to reliably serve its customers, Hydro maintains minimum storage limits to ensure that it is
20 capable of meeting customer energy requirements. In the current system, these limits represent the
21 point at which Holyrood generation would be required to be maximized to ensure Hydro could continue
22 to meet customer requirements in consideration of the historical dry sequence. In early 2021, Hydro
23 established minimum storage limits to April 30, 2022 in consideration of the event that the LIL is unable
24 to deliver energy to the Island Interconnected System for three months during winter 2022.²⁷ This will
25 help ensure sufficient storage to reliably serve customers should the LIL become unavailable during the
26 months that have historically high customer loads and low inflows into the system.

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

²⁷ The three winter months are January to March 2022, inclusive.

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

5 Upper Salmon was scheduled to return to service from its annual planned maintenance on August 20,
6 2021. However, during inspections the rotor rim guidance blocks exhibited defects resulting in integrity
7 concerns. As a result of the extended outage, it was determined that bypass of Upper Salmon was
8 required to support storage in the Long Pond reservoir. On August 27, 2021 bypass of Upper Salmon
9 commenced and is expected to continue until Upper Salmon returns to service.²⁸ Planned bypass
10 volumes are such that they offset generation at Bay d’Espoir, with adjustments to bypass flow to
11 maintain Long Pond reservoir storage in response to inflows and deliveries to the Island Interconnected
12 System via the LIL.

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

16 As of September 30, 2021, Hydro’s total system energy in storage was 1,573 GWh; 665 GWh above the
17 minimum storage limit of 908 GWh for September 2021. Figure 1 plots the 2020 and 2021 storage
18 levels, minimum storage limits, maximum operating level storage, and 20-year average aggregate
19 storage for comparison.

²⁸ See Section 8.0 for further information.

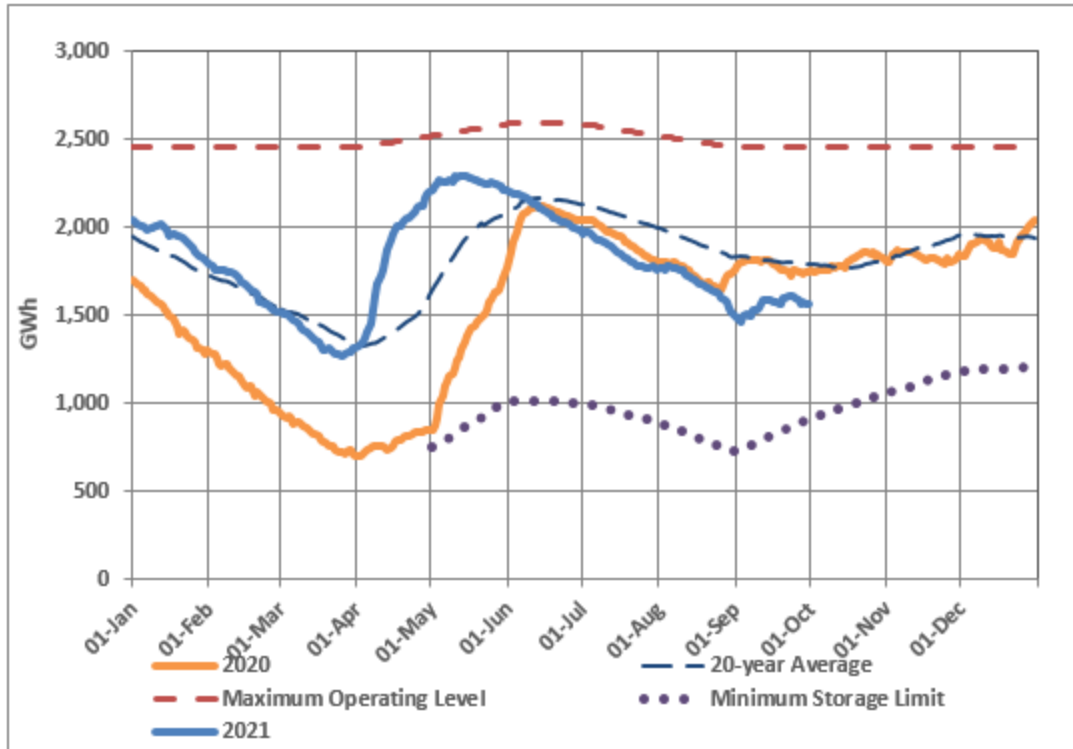


Figure 1: Total System Energy Storage for September 30, 2021

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.”²⁹ Newfoundland and Labrador’s economic growth was greatly affected by the global
 4 economic impacts of the COVID-19 pandemic in 2020. The Island Interconnected System utility and
 5 industrial load requirements remain largely unchanged for the 2021–2022 winter operating season
 6 compared to the previous winter operating season and continue to reflect a mostly stagnant outlook for
 7 the provincial economy in the near term. The total Labrador Interconnected System customer coincident
 8 demand forecast requirements remained largely unchanged compared to the previous year. Details of
 9 Hydro’s current forecasts for the 2021–2022 winter operating season are provided in Table 7 through
 10 Table 9.

11 An update to Hydro’s near-term load forecast will be provided in Hydro’s Near-Term Reliability Report,
 12 anticipated to be filed by November 15, 2021. The update will include a reduction in demand for North

²⁹ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 2021.

- 1 Atlantic Refining Limited (“NARL”), as Hydro has received indication the plant will remain in a warm idle
- 2 state through winter 2021-2022.

Table 7: 2021–2022 Island Interconnected System Load Forecast

	MW
Utility Requirements	1,476
Industrial Customers ³⁰	180
Island Interconnected System Customer Coincident Demand	1,656
Island Interconnected System Transmission Losses and Station Service Requirements	103
Total Island Interconnected System Requirements (P50)	1,759
P90 Demand Adjustment	60
Total Island Interconnected System Requirements (P90)	1,819

Table 8: 2021–2022 Labrador Interconnected System Load Forecast

	MW
Utility Requirements	143
Industrial Customers	278
Labrador Interconnected System Customer Coincident Demand	421
Labrador Interconnected System Transmission Losses and Station Service Requirements	24
Total Labrador Interconnected System Requirements	445

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

	MW
Newfoundland and Labrador Interconnected System Customer Coincident Demand	2,044
Newfoundland and Labrador Interconnected System Transmission Losses and Station Service Requirements	125
Total Newfoundland and Labrador Interconnected System Requirements	2,169
Island Interconnected System P90 Demand Adjustment	60
Total Newfoundland and Labrador Interconnected System Requirements (including Island Interconnected System P90 Demand Adjustment)	2,229

³⁰ Note that the forecasted Island Industrial customer requirements presented include demand requirements consistent with prior established full operational requirements at NARL. Since filing its “Near-term Reliability Report” in May 2021, Hydro has received indication that NARL will remain in warm idle mode through winter 2021–2022. This will result in a reduction in Industrial customer coincident demand requirements of approximately 25 MW. Given that the results presented in subsequent sections have been prepared using the forecast provided in Table 7, Hydro did not adjust the forecast presented.

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). Note
4 that the results presented for Scenarios 1–10 include the potential for lost load assuming Hydro serves
5 the demand and energy requirements previously forecast for NARL. Since filing its “Near-Term Reliability
6 Report,”³¹ Hydro has received indication that NARL will remain in warm idle mode through winter 2021–
7 2022. This will have a positive impact on LOLH and EUE for Scenarios 1–10, comparable to the benefit
8 that can be observed when comparing results for Scenarios 11 and 12 against results for Scenarios 6 and
9 8, respectively.

10 7.4.1 Scenarios

11 Twelve scenarios were analyzed to assess system reliability under a range of potential system
12 conditions.

- 13 • **Scenario 1:** Assumes that the LIL will be available at full capacity in November 2021. This case
14 assumes a DAFOR of 15% for the Holyrood TGS as well as the retirement of the Holyrood TGS,
15 Hardwoods GT, and Stephenville GT on March 31, 2023. No LIL deliveries are contemplated in
16 advance of November 2021.
- 17 • **Scenario 2:** Varies from Scenario 1 by increasing the Holyrood TGS DAFOR to 20%.
- 18 • **Scenario 3:** Assumes that the LIL will be available at up to 225 MW³² for November 2021
19 through June 2022 and available at full capacity thereafter. This case assumes a DAFOR of 15%
20 for the Holyrood TGS as well as the retirement of the Holyrood TGS, Hardwoods GT, and
21 Stephenville GT on March 31, 2023. No LIL deliveries are contemplated in advance of November
22 2021.
- 23 • **Scenario 4:** Varies from Scenario 3 by increasing the Holyrood TGS DAFOR to 18%.
- 24 • **Scenario 5:** Varies from Scenario 3 by increasing the Holyrood TGS DAFOR to 20%.

³¹ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 2021.

³² As noted in Section 7.1.2, since the filing of the “Near-Term Reliability Report” in May 2021, the LIL has been successfully operated up to 315 MW. Given that the results presented in subsequent sections have been prepared using Scenarios 3–5 as described above, Hydro did not adjust the scenario presented. Operation of the LIL at higher levels will have a positive impact on system reliability, reducing LOLH and EUE. Given that the results presented in subsequent sections have been prepared using the forecast provided in Table 7, Hydro did not adjust the forecast presented.

- 1 • **Scenario 6:** Varies from Scenario 1 by assuming that the LIL is not available through the study
2 period (2021 through the end of 2025). The operation of Holyrood TGS, Hardwoods GT, and
3 Stephenville GT is extended through the study period at baseline forced outage rates.
- 4 • **Scenario 7:** Varies from Scenario 6 by increasing the Holyrood TGS DAFOR to 18%.
- 5 • **Scenario 8:** Varies from Scenario 6 by increasing the Holyrood TGS DAFOR to 20%.
- 6 • **Scenario 9:** Varies from Scenario 8 by including 50 MW of imports during the winter season.
- 7 • **Scenario 10:** Varies from Scenario 8 by including 100 MW of imports during the winter season.
- 8 • **Scenario 11:** Varies from Scenario 6 by excluding industrial load from NARL.
- 9 • **Scenario 12:** Varies from Scenario 8 by excluding industrial load from NARL.

10 For Scenarios 6–12 it is assumed that the contract for capacity assistance with Vale is renewed for the
11 winter season in the study period. Note that this agreement has been renewed as detailed in Section
12 7.1.3.

13 For CBPP capacity assistance, the existing contract is included in the winter season for the study period.

14 7.4.2 Expected Unserved Energy and Loss of Load Hours Analysis

15 Annual Assessment Results

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

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

Reliability Metric	Dec 2021 ³³	Jan–May 2022
LOLH (hours)		
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	0.01	0
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	0.02	0
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	0.01	0.03
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	0.03	0.06
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	0.03	0.07

³³ 2021 results for the month of December only.

LOLH (hours)	LOLH (hours)	LOLH (hours)
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	0.42	2.45
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	0.67	3.73
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	0.83	4.80
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	0.43	2.47
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	0.23	1.25
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted forecast	0.46	1.60
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted forecast	0.80	3.19

EUE (MWh)	Dec 2021	Jan–May 2022
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	0	0
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	1	0
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	1	0
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	1	3
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	1	3
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	24	131
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	39	205
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	48	266
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	24	125
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	11	58
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted forecast	26	82
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted forecast	47	170

Normalized EUE (ppm) ^{34,35}	2021 ³⁶	2022
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	9.86	0.05
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	20.39	0.10
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	9.71	0.13
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	15.69	0.31
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	20.59	0.40
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	12.66	19.83
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	20.27	30.83
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	26.3	39.80
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW imports	12.2	19.47
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW imports	5.68	9.21
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted forecast	N/A	12.95
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted forecast	N/A	26.25

³⁴ Parts per million (“ppm”).

³⁵ Normalized EUE given here in parts per million and it represents lost load as a fraction of total system load. NERC 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.

³⁶ Results for 2021 are from June 1 through December 31.

1 The results of Scenarios 1 through 5 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 6 through 8 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 9 and 10, 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 100 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 As previously noted, the results presented for Scenarios 1–10 include the potential for lost load
10 assuming Hydro serves the demand and energy requirements previously forecast for NARL. Since filing
11 its “Near-Term Reliability Report,”³⁷ Hydro has received indication that NARL will remain in warm idle
12 mode through winter 2021–2022. This will have a positive impact on LOLH and EUE for Scenarios 1–10,
13 comparable to the benefit that can be observed when comparing results for Scenarios 11 and 12 against
14 results for Scenarios 6 and 8, respectively.

15 **Monthly Assessment Results**

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

24 In Scenarios 1 through 5, the availability of the LIL, at partial or full capability, backed up by the Holyrood
25 TGS in 2022, mitigates the risk of lost load and unserved energy.

³⁷ “Near-Term Reliability Report,” Newfoundland and Labrador Hydro, May 17, 2021.

- 1 In Scenarios 6 through 8, the LOLH and EUE remain high throughout the study period, and without
- 2 mitigation, indicate a relatively high probability of lost load on the system until the LIL is found fully
- 3 reliable.

- 4 As seen in Scenarios 9 and 10, the import of firm energy over the Maritime Link produces a significant
- 5 improvement in system reliability. This demonstrates that firm imports could mitigate the increased risk
- 6 of resource shortfalls if the LIL is delayed or if the Holyrood TGS or other generating assets were to
- 7 perform more poorly than expected.

Table 11: Monthly LOLH and EUE for 2021–2022³⁸

LOLH (hours)	Dec	Jan	Feb	Mar	Apr	May
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	0.01	0.00	0.00	0.00	0.00	0.00
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	0.02	0.00	0.00	0.00	0.00	0.00
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	0.01	0.01	0.01	0.01	0.00	0.00
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	0.03	0.03	0.02	0.01	0.00	0.00
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	0.03	0.03	0.02	0.02	0.00	0.00
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	0.42	1.17	0.76	0.52	0.00	0.00
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	0.67	1.78	1.16	0.78	0.01	0.00
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	0.83	2.31	1.48	1.00	0.01	0.00
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW Imports	0.43	1.20	0.74	0.52	0.01	0.00
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW Imports	0.23	0.59	0.39	0.26	0.01	0.00
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted Forecast	0.46	0.78	0.49	0.33	0.00	0.00
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted Forecast	0.80	1.54	0.97	0.68	0.00	0.00

EUE (MWh)	Dec	Jan	Feb	Mar	Apr	May
Scenario 1: Full LIL 2021, Holyrood TGS DAFOR = 15%	0	0	0	0	0	0
Scenario 2: Full LIL 2021, Holyrood TGS DAFOR = 20%	1	0	0	0	0	0
Scenario 3: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 15%	1	0	0	0	0	0
Scenario 4: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 18%	1	1	1	1	0	0
Scenario 5: LIL at 225 MW to June 2022, Holyrood TGS DAFOR = 20%	1	1	1	1	0	0
Scenario 6: No LIL, Holyrood TGS DAFOR = 15%	24	64	39	28	0	0
Scenario 7: No LIL, Holyrood TGS DAFOR = 18%	39	98	63	44	0	0
Scenario 8: No LIL, Holyrood TGS DAFOR = 20%	48	131	80	55	0	0
Scenario 9: No LIL, Holyrood TGS DAFOR = 20%, 50 MW Imports	24	62	36	27	0	0
Scenario 10: No LIL, Holyrood TGS DAFOR = 20%, 100 MW Imports	11	28	18	12	0	0
Scenario 11: No LIL, Holyrood TGS DAFOR = 15%, NARL-Adjusted Forecast	26	40	25	17	0	0
Scenario 12: No LIL, Holyrood TGS DAFOR = 20%, NARL-Adjusted Forecast	47	83	50	37	0	0

³⁸ Monthly results may not add up to annual results; this is due to rounding.

8.0 Risk and Risk Mitigation

Hydro’s readiness planning for the 2021–2022 winter season is progressing; several unplanned events and related work activities are influencing Hydro’s outage schedule and remaining planned work for the next couple of months. While Hydro continues to adjust its plans as necessary, the current outlook anticipates all generation being available by December 6, 2021.

Potential system risks and associated mitigation plans are described in the following sections; updates will be provided in subsequent reports winter readiness reports.

8.1 Bay d’Espoir Operations

Bay d’Espoir generation is expected to be fully available by December 6, 2021. Four risks to winter readiness and/or reliable operations are described below.

8.1.1 Bay d’Espoir Unit 5 Return to Service

As part of the Hydraulic Generation Refurbishment and Modernization projects, Hydro is completing a unit overhaul and generator rewind on Bay d’Espoir Unit 5 and a gate replacement for Intake 3 which serves Units 5 and 6. The return to service of Bay d’Espoir Unit 5 following these capital works was originally planned for October 22, 2021 but is now estimated to be December 6, 2021. The delay is associated with the generator rewind project due to greater than anticipated work associated with the stator bar removal and stator cleaning. The overhaul of Unit 5 and replacement of the gate for Intake 3 are progressing as planned, though their commissioning activities remain on the critical path for returning Unit 5 to service.

The latest update from the contractor completing the generator rewind indicates that completion of their scope of work is delayed to November 17, 2021. Due to the existence of a compound injected into the stator core slots in the 1970s,³⁹ removal of stator bars was difficult and the selected cleaning method was not entirely effective and had to be supplemented with time-consuming manual cleaning. As of September 30, 2021, the existing stator windings have been removed, stator core cleaning work is complete, and the installation of new stator windings is in progress.

Once the contractor's work related to the rewind is complete, the unit will be handed over to Hydro for the remaining generator overhaul and reassembly work, which is expected to be completed by

³⁹ As recommended by the original equipment manufacturer (“OEM”).

1 November 24, 2021. This will be followed by commissioning of the new intake gate and unit start-up
2 commissioning, with the current return to service for Unit 5 expected on December 6, 2021.

3 **8.1.2 Upper Salmon Corrective Maintenance**

4 During the 2021 planned annual preventative maintenance checks in August a significant crack on one of
5 sixteen rotor rim guidance blocks was discovered. The discovery of this crack prompted Hydro to expand
6 its inspection scope to include the use of non-destructive testing (“NDT”) methods to assess the
7 remaining rim guidance blocks. The results from this expanded inspection revealed that over 35% (6 of
8 16) of the rim guidance blocks exhibited cracking.

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

20 Hydro has commenced execution activities to replace the 16 rotor rim guidance blocks with an original
21 planned return to service date of the unit estimated for October 12, 2021. On October 1, 2021 a
22 potential COVID-19 exposure at the Upper Salmon work site led to a temporary suspension of work.
23 Activities resumed on October 6, 2021 and Hydro now anticipates a return to service date of October 20,
24 2021.

25 Although Hydro has mitigated risk of failure to the extent possible in the near term, there is residual risk
26 that a failure could occur before further life extension work is executed. To offset the impact of an
27 unplanned outage Hydro is advancing procurement of long lead materials that would address the
28 underlying root causes.

1 **8.1.3 Bay d’Espoir Penstocks - Update**

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

5 Penstock 1 was inspected in the spring of 2021 and during the inspection, 31 indications of weld
6 deterioration were identified in 16 longitudinal weld seams over an approximately 200 foot span of the
7 penstock, with indications ranging in length from a couple of inches to 8 feet. The indications were
8 similar in condition to those discovered in recent years and were shallow in depth. Weld refurbishment
9 and final inspection was completed and the penstock returned to service. This discovery was not
10 unexpected given the known condition of the Bay d’Espoir Penstocks. Hydro will use the information
11 obtained through the inspection and refurbishment process to inform its long-term plan for the
12 penstocks; the details of Hydro’s long-term plan are expected to be filed with the Board in 2022.

13 The inspection for Penstock 2 was completed in June 2021 and did not identify any major defects or
14 areas of concern for the upcoming WR period. The inspection of Penstock 3 was completed in August
15 2021 and did not identify any major defect of areas of concern for the upcoming WR period.

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

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

1 **8.1.4 Bay d’Espoir Terminal Station Circuit Breaker Failures – Update**

2 Since October 2018, Hydro has experienced four failures of 230 kV General Electric (“GE”) dead tank
3 circuit breakers at the Bay d’Espoir Terminal Station.⁴⁰

4 Hydro has developed plans to minimize outage duration in the event of another failure by ensuring the
5 availability of spare breakers and spare breaker phases. In the event of a failure, the associated outage
6 duration to complete repairs is estimated to be two to three days. Hydro has also implemented new
7 generator operating instructions supplemented with additional breaker protection to reduce the risk of
8 failure. Hydro has developed a plan for replacement of the five GE generator breakers installed at Bay
9 d’Espoir, with one planned for 2022, two replacements planned in 2023, and the final two replacements
10 planned for 2024.

11 **8.2 Holyrood Thermal Generating Station Operations**

12 Hydro anticipates that the Holyrood TGS will be fully available by December 1, 2021. Two risks to WR
13 and/or reliable operations are identified.

14 **8.2.1 Unit 3 Return to Service**

15 On September 11, 2021, Hydro experienced a cold-side tube failure on the Unit 3 boiler. Since the
16 failure, Hydro has been working with the boiler contractor (GE), the original manufacturer (B&W), a
17 metallurgy lab, and specialized NDT companies, to identify the cause of the failure and formulate an
18 inspection and repair plan. This work will ensure that all tube areas that could fail by the same cause are
19 inspected or replaced and that the boiler can safely return to service. It is expected that this work will be
20 complete and the unit back in service in advance of the December 1, 2021 WR date. The work is
21 progressing and a further status update will be provided in the November update to this report.

22 **8.2.2 Variable Frequency Drives**

23 Variable frequency drives (“VFD”) on the Holyrood TGS unit’s forced draft fans continue to present a risk
24 for forced outages. In September 2021, just after completion of the annual PM program by the OEM
25 service technician, 9 out of 24 VFD power cells on Unit 3 failed (each drive utilizes 4 power cells per
26 phase and a failure of two cells on the same phase will cause the drive to trip). The VFD power cells are
27 at highest risk of failure during start-up activities. Hydro has implemented additional OEM

⁴⁰ “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 recommendations for outage periods to keep the drives clean and dry; thus far these efforts have not
2 reduced failures. Global shortages of micro-chips and other electronic components as a result of the
3 pandemic could delay turnaround time for up to a year for some of these cells. Hydro is expediting the
4 repair and return of the failed power cells and exploring the availability of additional cells for purchase
5 to ensure sufficient inventory prior to December 1, 2021. Hydro is also exploring the possibility of
6 bypassing the drives on one or two units this fall and returning to the original inlet vane air flow control
7 as a contingency plan. This action would eliminate the risk on the bypassed units and provide additional
8 spare components to mitigate risk on the other unit or units. A further status update will be provided in
9 the November 2021 update to this report.

10 **8.3 Muskrat Falls to Happy Valley Interconnection Project**

11 Hydro is planning to complete the Muskrat Falls to Happy Valley Interconnection this fall⁴¹ and supply
12 Labrador East with power from Muskrat Falls for the winter of 2021–2022. As a contingency, Hydro
13 plans to maintain its ability to supply Labrador East using the 138 kV interconnection to Churchill Falls
14 via transmission line L1301/1302 should issues arise with the Muskrat Falls to Happy Valley
15 Interconnection.

16 An update on the interconnection will be provided in the November 2021 report.

17 **9.0 Conclusion**

18 Hydro is progressing towards completion of its AWP and WR activities. Several recent unplanned events
19 have resulted in the addition of priority work and related impacts to outage schedule planning across
20 the system. The unplanned work is ongoing and Hydro is working to minimize the potential impact on
21 readiness for winter operations. Hydro's expects all generation to be available by December 1, 2021,
22 with the exception of Bay d'Espoir Unit 5, which is presently scheduled to return to service on December
23 6, 2021.

24 Hydro will continue to monitor progress and mitigate work execution risks. Hydro will file its next 2021–
25 2022 Winter Readiness Planning Report by November 10, 2021.

⁴¹ It is anticipated that the interconnection will proceed after Muskrat Falls Unit 1 returns to service from a planned outage on or around October 21, 2021.



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 (October 1, 2021 Update)
Hydraulic Generation	Paradise River – Overhaul Unit	Complete
Hydraulic Generation	Bay d'Espoir – Rewind Unit 5 Generator Stator	6-Dec-2021
Hydraulic Generation	Bay d'Espoir – Overhaul Unit 5	6-Dec-2021
Thermal Generation	Holyrood – Rewind Unit 3 Stator	Complete
Thermal Generation	Holyrood – Boiler Condition Assessment and Miscellaneous Upgrades	15-Oct-2021
Thermal Generation	Holyrood – Overhaul Unit 1 Turbine and Valves	17-Oct-2021
Thermal Generation	Holyrood – Overhaul Unit 3 Boiler Feed Pump East	15-Nov-2021
Thermal Generation	Holyrood – Overhaul Unit 1 Boiler Feed Pump East	23-Nov-2021
Gas Turbine Generation	Gas Turbines – Purchase Capital Spares	19-Nov-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	8-Oct-2021
Terminal Stations	Various Terminals Stations – Replace Instrument Transformers	24-Oct-2021

Appendix B

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

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

Plant: Holyrood Operations	Unit 1	Unit 2	Unit 3	Balance of Plant
Following Annual Outages, Unit is Run Up, Synchronized and all Aystems Verified Before Operating Status Determined, as per Energy Control Centre ("ECC"), Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at This Time	S/U	S/U	S/U	N/A
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season	N/A	N/A	N/A	Y
Perform Megger Testing of 600 V Motors Prior to the Winter Operating Season	S/U	S/U	Y	N/A

Safety	Unit 1	Unit 2	Unit 3	Balance of Plant
Boiler Service Pressure Test Performed as Required by Regulator	S/U	S/U	S/U	N/A
Safety Valves Testing as Required (Post Start-Up)	S/U	S/U	S/U	N/A
Boiler Operational Offline High/Low Drum Level Trip Tests	S/U	S/U	S/U	N/A
H ₂ Emergency Venting Valving	S/U	S/U	S/U	N/A
Breaker and Disconnect Operation Verified by Operations Department and Whitbourne Crew	S/U	S/U	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	Y
All Portable Air Compressors Available	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	Y
Air Compressor Standby/Sequencing Capability	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	Y
Raw Water Sump Water Supply Control Valve Operational	N/A	N/A	N/A	Y
Raw Water Pumps Operational	N/A	N/A	N/A	Y
Adequate Supply of Chemicals (1172, 1179, Polymer, etc.)	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	Y
Portable Diesel Pump Check of Emergency Plant Water Supply from Quarry Brook Dam	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	Y

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

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

Raw and Makeup Water System and Water Treatment Plant

	Unit 1	Unit 2	Unit 3	Balance of 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, Variable Frequency Drive ("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.

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

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

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

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

Condenser Air Extraction System				
Vacuum Pumps Available and Tested for Standby 'Auto-Start'	S/U	S/U	Y	N/A
Vacuum Pump Seal Water Tank Water Level Controller Operational	S/U	S/U	Y	N/A
Vacuum Pump Seal Water Pump Operational	S/U	S/U	Y	N/A
Condenser Vacuum Breakers Operational	S/U	S/U	Y	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

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

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

	Status of Test			Balance of Plant
	Unit 1	Unit 2	Unit 3	
Miscellaneous				
Economizer 'Manual' Operated Valve Operational	S/U	S/U	Y	N/A
Economizer Motorized Recirculation Valve Operational (Unit 3)	S/U	S/U	Y	N/A
Boiler Drum Level Instrumentation Operational	S/U	S/U	Y	N/A
HP Heater Bled Steam Check Valves Operational	S/U	S/U	S/U	N/A
Start-Up Desuperheater Steam and Water Valving Operation/Position Verified	S/U	S/U	Y	N/A
Main Steam and Reheat Steam Desuperheater Spray Water Isolators and Control Valves Operational	S/U	S/U	Y	N/A
Auxiliary Steam Desuperheater Spray Water Control Valve Operational	S/U	S/U	Y	N/A
Low Pressure ("LP") Feedwater System				
Condenser				
Condenser Hotwell Make-Up/Surplus Control Valves Operation Verified	S/U	S/U	Y	N/A
Condenser Hotwell Make-Up Motorized Isolating Valve Operation Verified	S/U	S/U	Y	N/A
Condenser Dye Test for Leaks, as Required	S/U	S/U	Y	N/A
Ammonia and Control System				
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				
Condensate Extraction Pumps Available	S/U	S/U	Y	N/A
Condensate Extraction Pump Motors Bearing Oil Normal Operating Level	S/U	S/U	Y	N/A
Condensate Extraction Pump Motor Cooling Water Available (Unit 3)	S/U	S/U	Y	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Condensate Polishers				
Resin Integrity Verified	S/U	S/U	Y	N/A
Two Polishers Rinsed and Available	S/U	S/U	Y	N/A
Valve Operation (Normal and Regenerating, etc.)	S/U	S/U	Y	N/A
Regeneration System Skids Available (Valving, Pumps, Plowers, Tanks, etc.)	S/U	S/U	Y	N/A
Condensate Polisher Bypass Control Valve Operational	S/U	S/U	Y	N/A
LP Heaters				
Low Load Recirculation Control Valve Operation	S/U	S/U	Y	N/A
Deaerator				
Deaerator Normal Operating Level	S/U	S/U	Y	N/A
Deaerator Steam Coil Operational	S/U	S/U	Y	N/A
Deaerator Pegging Steam Operational	S/U	S/U	Y	N/A
Deaerator Low Level Trip Test	S/U	S/U	Y	N/A
Miscellaneous				
Condenser Flash Tank Control Valve Operation/Position	S/U	S/U	Y	N/A
Turbine Low Pressure Exhaust Hood Spray Motorized Valve Operation	S/U	S/U	Y	N/A
Start-Up Desuperheater Steam and Water Valving Operational (Units 1 and 2)	S/U	S/U	Y	N/A
LP Heater Bled Steam Check Valves Operational	S/U	S/U	S/U	N/A
Bled Steam and Heater Drains System				
LP and HP Instrumentation and Control Operational	S/U	S/U	S/U	N/A
LP and HP Heater Level Control Operational	S/U	S/U	S/U	N/A
LP Heater Condensate Drains Pumps Operational	S/U	S/U	S/U	N/A
#4 HP Heater Condensate Drains Pump Operational	S/U	S/U	S/U	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Air and Flue Gas System				
Instrumentation and Control Operational	S/U	S/U	Y	N/A

Forced Draft ("FD") Fans and Air Dampers				
Two FD Fans Available	S/U	S/U	Y	N/A
Bearing Oil Normal Operating Level	S/U	S/U	Y	N/A
Cooling Water on to Fans	S/U	S/U	Y	N/A
Stroke Variable Inlet Vanes	S/U	S/U	Y	N/A
Stroke Discharge Dampers	S/U	S/U	Y	N/A
FD Fan Motor Variable Speed Drives Operational	S/U	S/U	Y	N/A
All Burner Auxiliary Air Dampers/Positioners Operation (Units 1 and 2)	S/U	S/U	N/A	N/A
All Elevation Air Flow Dampers/Positioners Operation (Unit 3)	N/A	N/A	Y	N/A

Rotary Air Heaters				
Rotary Air Heaters Operational	S/U	S/U	Y	N/A
Rotary Air Heaters Bearing Oil (Top and Bottom) Normal Operating Level	S/U	S/U	Y	N/A
Rotary Air Heaters Bearing Cooling Water On	S/U	S/U	Y	N/A
Rotary Air Heaters Electric Motor Drives Operational	S/U	S/U	Y	N/A
Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open	S/U	S/U	Y	N/A
Rotary Air Heaters Start-Up of Air Motor Drive Upon Loss of Alternating Current ("ac") Power Supply to the Normal Operating Electric Drive Motor	S/U	S/U	Y	N/A
Rotary Air Heaters Steam Supply Control Valves Operational (* Note: Two Steam Supplies on Units 1 and 2)	S/U	S/U	Y	N/A
Rotary Air Heaters Sootblowers Operational	S/U	S/U	S/U	N/A

Boiler Sootblowing System				
Sootblower Control Panel Operational	S/U	S/U	S/U	N/A
Sootblowers Steam Supply Control Valve Operational	S/U	S/U	S/U	N/A
Sootblowers Overhauled During Annual Outage Verify Operation (e.g., Rotation, Travel Advancing/Retracting from Furnace, Leaks, etc.) First Time Unit is Placed On Line	S/U	S/U	Y	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

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

Light Fuel Oil System			
Hydro Pad Operational	N/A	N/A	N/A
Light Oil Pumps Available	S/U	S/U	Y
Pumps, Valves (Including Control and Trip), Lines, Strainers, Pressure (Locally and UCB)	S/U	S/U	Y
Check Light Oil Supply and Return Lines to/from Plant Respectively	N/A	N/A	N/A
Suction Strainers Cleaned with Covers Secured	S/U	S/U	Y
Ignitors Cleaned, Securely in Place with Associated Lines Securely Fastened	S/U	S/U	Y
Ignitors all Checked for Operation During Unit Start-Up (e.g. ignitor control box, valve operation, lighting, etc.)	S/U	S/U	Y

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

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

27-Sep-21

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

Fuel Oil Supply Control, Trip, Long and Short Recirculation Valves				
Fuel Oil Supply Control Valve Operational	S/U	S/U	Y	N/A
Fuel Oil Trip Valve Operational	S/U	S/U	Y	N/A
Fuel Oil Long Recirculation Valve Operational (Units 1 and 2)	S/U	S/U	N/A	N/A
Fuel Oil Short Recirculation Valve Operational (Units 1 and 2)	S/U	S/U	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

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

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

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

Fuel Additive System				
Adequate Supply Available	S/U	S/U	Y	N/A
Pumps Available	S/U	S/U	Y	N/A
Tanks, Agitators, etc. Available	S/U	S/U	Y	N/A

GS System				
GS Heat Exchangers Backwashed, Cleaned, etc.	S/U	S/U	Y	N/A
Stage I GS Plate Cooler Strainers Cleaned	Y	Y	N/A	N/A
Stage I GS 'Auto-Clean' Strainer Operational	Y	Y	N/A	N/A
Stage I GS Duplex Strainers Cleaned	Y	Y	N/A	N/A
GS Pump Suction Strainers Cleaned	Y	Y	Y	N/A
GS Pump Oil Normal Operating Level	Y	Y	Y	N/A
GS Pumps Available and Tested for Standby 'Auto-Start'	Y	Y	Y	N/A

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

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

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

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

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

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

Barring/Turning Gear				
Turning Gear Operation Verified	S/U	S/U	Y	N/A
Perform Trip Test of Turning Gear	S/U	S/U	S/U	N/A

Miscellaneous				
Stream Seal Regulator Operational	S/U	S/U	Y	N/A
Operational Online/Offline Overspeed Trip Tests	S/U	S/U	Y	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

	Status of Test			
	Unit 1	Unit 2	Unit 3	Balance of Plant
Hydrogen ("H2") and Carbon Dioxide ("CO2") System				
H2 Generation and Storage System				
System in Operation	N/A	N/A	N/A	N/A
Electrolyzer/H2 Generator Operational	N/A	N/A	N/A	N/A
Chiller Operational	N/A	N/A	N/A	N/A
DI Water Purifier Operational	N/A	N/A	N/A	N/A
H2 and CO2 Bulk Packs				
Adequate H2 Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	Y
CO2 Adequate Bulk Packs on Hand	N/A	N/A	N/A	Y
Generator				
Generator Exciter Operation Checked Off- and On-Line	S/U	S/U	Y	N/A
Seal Oil System Tested with 'Air' on Generator in Preparation for Leak Testing	S/U	S/U	Y	N/A
Seal Oil Regulator Operational	S/U	S/U	Y	N/A
AC Seal Oil Pumps Available and Tested for Standby 'Auto-Start' (Units 1 and 2)	S/U	S/U	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'	S/U	S/U	S/U	N/A
Seal Oil Vacuum Pumps Available	S/U	S/U	Y	N/A
Vacuum Tank Level Control Operational	S/U	S/U	Y	N/A
H2 System in Operation and/or Adequate Bulk Packs on Hand for Contingency Purposes	N/A	N/A	N/A	Y
CO2 Adequate Bulk Packs on Hand	N/A	N/A	N/A	Y
Leak Testing Performed Prior to 'Gassing Up' Generator	S/U	S/U	Y	N/A
Purity, Dew Point, etc. Instrumentation Operation Verified	S/U	S/U	Y	N/A

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



Holyrood Thermal Generating Station
Winter Readiness Testing

27-Sep-21

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

Powerhouse and Switchyard Single Line

Plant 129 V System

129 V Battery Banks Checked Stage I and II	Y	N/A	Y	N/A
129 V Battery Chargers Checked Stage I and II	Y	N/A	Y	N/A

Plant 258 V System

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

Plant Uninterrupted Power Supplies ("UPS")

Nos. 1, 2, 3 and 4 UPS including Batteries, Cooling Fans, etc., Checked	Y	Y	Y	N/A
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Emergency Diesel Generators

Stage I and II Emergency Diesel Generators Tested for Emergency Stop	S/U	S/U	S/U	N/A
Stage I and II Emergency Diesel Generators Tested for Manual and Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers	S/U	S/U	Y	N/A
Diesel Bus Tie Breaker Operation Verified	S/U	S/U	Y	N/A

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' & '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	S/U
Electric Fire Pump Controller Check	N/A	N/A	N/A	S/U
Public Address System Status	N/A	N/A	N/A	S/U

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

Y - Test completed.

N/A - Not Applicable for specific unit or Balance of Plant, as indicated.



**Holyrood Thermal Generating Station
Winter Readiness Testing**

27-Sep-21

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

Holyrood Main Powerhouse				
Backup ECC and Guardhouse Propane Generator	N/A	N/A	N/A	Y

Plant Air Conditioning System				
Control and Relay Rooms	N/A	N/A	N/A	Y
UPS #1 Room	N/A	N/A	N/A	Y
Generator Excitation and UPS #s 2, 3 and 4 Room (Unit 3)	N/A	N/A	Y	N/A

Plant Heating Steam				
All Systems Operational for When Required	N/A	N/A	N/A	Y

S/U - Final confirmation completed during Start Up. When possible, test also completed during annual outage.
 Y - Test completed.
 N/A - Not Applicable for specific unit or Balance of Plant, as indicated.

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

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.	✓	✓	✓	✓	28-Oct	✓	N/A	N/A
	N/A	N/A	N/A	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.

Spherical Valves

Turbine Main Stop Valve Testing	✓	✓	✓	✓	✓	✓	N/A	N/A
Turbine Main Stop Valve Operational	✓	✓	✓	✓	✓	✓	N/A	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	✓	✓
Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.)	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	✓	✓
High Pressure Compressors Available	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	✓	✓
Instrumentation Control and Alarms Operational	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

Turbine/Generator ("TG") Cooling Water Systems

Cooling Water Pumps Available	✓	✓	✓	✓	✓	✓	N/A	✓
Emergency Cooling Water Available Penstock Supply	✓	✓	✓	✓	06-Dec	28-Oct	N/A	✓
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
Shaft Seal System Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	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
Rotary Strainer Inspected and Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TG Governor System

Hydraulic System Accumulators Operational	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A
Governor System Testing	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A
Governor System Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A
Hydraulic Pump(s) Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A
Hydraulic Pump Gov Auto-Start Testing	✓	✓	✓	✓	06-Dec	28-Oct	✓	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

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	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A	N/A
Generator Exciter Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	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)	✓	✓	✓	✓	06-Dec	28-Oct	N/A	N/A	N/A
Oil Level System Generator Metering Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	N/A	N/A
Oil Level System Turbine Metering Available	✓	✓	✓	✓	06-Dec	28-Oct	✓	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	✓	✓	✓	✓	28-Oct	28-Oct	✓	N/A	N/A
Gate Operation	✓	✓	✓	✓	28-Oct	28-Oct	✓	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

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 1	Balance of Plant Powerhouse 2

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

Plant Uninterrupted Power Supplies ("UPS")								
UPS Power Supplies (Inverter NWS)	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Emergency Diesel Generators								
Emergency Diesel Generators Tested for Emergency Stop	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
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	✓	N/A
Communications Rooms	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A

Plant Heating Steam								
All Systems Operational for when Required	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓

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.											
12-Nov	27-Nov	N/A	28-Oct	N/A	22-Oct	N/A	✓	N/A	✓	N/A	
Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season. Station Service Transfers Alternate Sources.											
12-Nov	N/A	N/A	28-Oct	28-Oct	22-Oct	N/A	✓	N/A	N/A	N/A	
Spherical Valves											
Turbine Main Stop Valve Testing											
12-Nov	27-Nov	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	✓	22-Oct	22-Oct	TBD	TBD	✓	✓	
Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.)											
N/A	N/A	✓	N/A	✓	22-Oct	22-Oct	TBD	TBD	✓	✓	
Air Compressor Standby/ Sequencing Capability/Lead Lag/Standby											
N/A	N/A	✓	N/A	✓	22-Oct	22-Oct	TBD	TBD	✓	✓	
High Pressure Compressors Available											
N/A	N/A	✓	N/A	✓	22-Oct	22-Oct	N/A	N/A	N/A	N/A	
Low Pressure Compressor Available											
N/A	N/A	✓	N/A	N/A	✓	✓	TBD	TBD	✓	✓	
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											
12-Nov	27-Nov	27-Nov	28-Oct	28-Oct	✓	✓	✓	✓	26-Nov	26-Nov	
Rotary (Water) Strainer											
✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	
TG Governor System											
Hydraulic System Accumulators Operational											
✓	✓	N/A	✓	N/A	22-Oct	N/A	✓	N/A	✓	N/A	
Governor System Testing											
12-Nov	27-Nov	N/A	28-Oct	N/A	N/A	✓	N/A	✓	N/A	✓	
Governor System Available											
✓	✓	N/A	✓	N/A	22-Oct	N/A	✓	N/A	✓	N/A	
Hydraulic Pump(s) Available											
✓	✓	N/A	✓	N/A	22-Oct	N/A	✓	N/A	✓	N/A	
Hydraulic Pump Gov Auto-Start Testing											
12-Nov	27-Nov	N/A	28-Oct	N/A	22-Oct	N/A	N/A	✓	N/A	✓	
Generator											
Generator Exciter Operation Checked Offline and Online											
12-Nov	27-Nov	N/A	28-Oct	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	28-Oct	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											
12-Nov	27-Nov	N/A	28-Oct	28-Oct	✓	N/A	✓	N/A	✓	N/A	
Control Structure											
Water Elevation											
N/A	N/A	N/A	N/A	28-Oct	N/A	✓	N/A	✓	N/A	✓	
Gate Operation											
N/A	N/A	N/A	N/A	28-Oct	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											
12-Nov	12-Nov	N/A	28-Oct	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	28-Oct	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	TBD	N/A	✓	
Emergency Lift Operation and Tested											
N/A	N/A	N/A	N/A	28-Oct	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	26-Nov
Communications Rooms	N/A	N/A	27-Nov	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

1 **Master Generation Outage Schedule**

- 2 Newfoundland and Labrador Hydro’s Master Generation Outage Schedule for the period September 1 to
3 December 31, 2021 will be provided in the November 2021 update to the 2021–2022 Winter Readiness
4 Planning Report. Please see Section 5.0 for further information.



Appendix E

Critical Spares Status Listing – Thermal Generation



Critical Spares - Thermal Generation

Inventory Status

In Stock
Non-Stock

On Order

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 multiple components, resulting in multiple "On Order" Status.

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	1/2" Valve		ACTUATOR,PNEU 1-BSW-5-IJT		In Stock	
Hydrogen Generation and Storage	Tubing	Control Unit	Tubing		SOLENOID,VALVE ASCO 8316		In Stock	
Powerhouse and Switchyard Single Line	129V DC System	Charger	Control Unit		TUBING,55 1" OD X.083 316		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2205C		CONTROL UNIT,BATTERY CHG 129V		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2206C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3205C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3206C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2203C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2207C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2202C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Cation Valve - KV2208C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3203C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3202C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Anion Valve - KV3208C		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4003B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4004A		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4005B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4006B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4007B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4008B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4009B		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4010A		VALVE,IJT		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - KV4011A		VALVE,IJT		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		ANALYZER,ORION 2111LLEN		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Frequency Drive		CONTROLLER,SPEED CLARIFIER		In Stock	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Recirculator - Double Induction Speed Reducer - In Stock		RECIRCULATOR,STERLING 9A6108		In Stock	

System		Asset			Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status		
Raw and Makeup Water System & Water Treatment Plant	Clearwell	Clearwell Pump	Pump, single stage, 750GPM	Critical repair parts stocked for this pump. No need to stock the entire pump.	PUMP ASSY, KSB 6"	Non-Stock		
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Quick Closing Valves	18" Butterfly Valve		VALVE,BTFY 18" 150#	In Stock		
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Capstan	Gear Box		CAPSTAN GEARBOX,SADI	In Stock		
Fire Protection System	Electrical Driven Pump	Control Panel	Fire Pump Controller	Spare Controller on site in Warehouse	N/A	Non-Stock		
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	30A DC Breaker		BREAKER,DC HFD2030 30A	In Stock		
Powerhouse and Switchyard Single Line	129V DC System	129 VDC Panel - Unit 1, 2, 3, Common	25A DC Breaker		BREAKER,DC HFD2025 25A	In Stock		
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	Butterfly Valve	Actuator		ACTUATOR ASSY, ROTORK	In Stock		
Combustion Air & Gas Instruments	Burner Management	Motor	Coils		WINDING COILS	In Stock		
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE,NETWORK INTERFACE	In Stock		
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays		RELAY,AB TYPE P	In Stock		
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE,PROCESSOR FOXBORO	In Stock		
Combustion Air & Gas Instruments	Burner Management	Flame Scanners	24VDC Scanner Power Supply		POWER SUPPLY,WIEDMULLER	In Stock		
Combustion Air & Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter		TRANSMITTER, DP 1 KPA TO 1 KPA	In Stock		
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 1	One spare F.O. Flow TX for both units	FLOWMETER,ROSE	In Stock		
Condenser Air Extraction System	Vacuum Breakers	Seals	6" Flanged		VALVE,AIR & VACUUM 6 FLG	In Stock		
Generator	Seal Oil System	Seals	See Parts List #U182 - 1 from Service Contractor		HYDROGEN SEAL RINGS,GE	In Stock		
Generator	Exciter	Controls	ArcNet Coupler		CARD,ABB UNS0672	In Stock		
Generator	Exciter	Controls	Conduction Monitor		CARD,ABB UNS0673	In Stock		
Generator	Exciter	Controls	Crowbar		CARD,ABB UNS0017AVAR1	In Stock		
Generator	Exciter	Controls	Digital ArcNet		CARD,ABB UPC090	In Stock		
Generator	Exciter	Controls	Binary Input		CARD,ABB UFC092	In Stock		
Generator	Exciter	Controls	Output Relay		CARD,ABB ARC093	In Stock		
Generator	Exciter	Controls	Measuring Card		CARD,ABB UNC4672	In Stock		
Generator	Exciter	Controls	I/O Connection		CARD,ABB UNC4674	In Stock		
Generator	Exciter	Controls	Converter		CARD,ABB UNS3670	In Stock		
Generator	Exciter	Controls	Snubber Bridge		SNUBBER,ABB UNS4681V12	In Stock		
Generator	Exciter	Controls	Control		CARD,ABB HIEE30090R0001	In Stock		
Generator	Exciter	Controls	Power Supply		CARD,ABB KUC321	In Stock		
Generator	Exciter	Controls	Pulse Gen		CARD,ABB GDB021	In Stock		
Generator	Exciter	Controls	Combined I/O		CARD,ABB UAC326	In Stock		
Generator	Exciter	Controls	Control Panel		CARD,ABB AFC094	In Stock		
Generator	Exciter	Controls	Breaker		BREAKER,FIELD ABB F3/SE	In Stock		
Generator	Exciter	Controls	Transformer	On Site	N/A	Non-Stock		
Generator	Stator	PT Cubicle	Primary Contact for Generator P.T.		CONTACT ASSY, PT	On Order		
Generator	Seal Oil System	Regulator	1.5" Regulating Valve		SEAL OIL REG KIT, RK	In Stock		
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Valve		VALVE,FISH F.O. TRIP	In Stock		
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Ignition Transformer		XFMR,FOSSIL S870-542F	In Stock		
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Sunspot		BASE,AMPLIFIER & TERMINAL	In Stock		
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Valve Assembly / Oil Igniter		IGNITER,ASSEMBLY ALSTOM	In Stock		
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Igniter Control Box	Level Transmitter		TRANSMITTER,LEVEL	In Stock		

System		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	Ammonia System	Level Control	Relay		RELAY,PLUG-IN 12 PIN AC	On Order
L.P. Feedwater System	Deaerator 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	O-Rings		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 - #1&2 LP Heaters	Seal washers		SEAL,S&K 75G0181V0020	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	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	On Order
L.P. Feedwater System	L.P. Heaters	NRV Valves	Packing		PACKING,S&K 75G0100V0040	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves	Seal washers		SEAL,S&K 75G0181V0050	In Stock
L.P. Feedwater System	Polisher Bypass Valve		Valve	Non-Stock is OK since there are full rebuild items identified and 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 (scram)		VALVE,SERVO 9.0-11.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Main Stop Valve Servos		VALVE,SERVO 9.0-11.0 GPM	In Stock
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducer for Intercept Control Valve & Main Control Valve		TRANSDUCER,GE	In Stock
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducers for 1 per Main Stop Valve		TRANSDUCER,GE	In Stock
Turbine Generator System Stage 1	Governor	Governor	Cable		CABLE SET,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Valve		VALVE,FLUID POWER PILOT	In Stock
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Go Switch - Limit Switches		SWITCH,LIMIT GO LEVER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Cable Set		CABLE SET,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Valve		VALVE,FLUID POWER PILOT	In Stock
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Governor	O-Ring Kit		O-RING KIT,FLUID POWER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RES,50OHM,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	CPF MKS CONTROL POWE		CONTROL MKS POWER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	TERMINATOR,93 OHMS		TERMINATOR,93 OHMS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR		RESISTOR,323A2354P1	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR		RESISTOR,323A2354P2	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RES.100 OHM 5% .40W		RESISTOR,100 OHM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	CAP-METALLIZED-MYLAR		CAP,METALLIZED MYLAR	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, C-Core Terminal Board		TERMINAL BOARD,MKV C-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD,DIGITAL I/O	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Relay/Solenoid		TERMINAL BOARD,MKV RELAY	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, P-Core Terminal Board		TERMINAL BOARD,MKV P-CORE	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	TERM. BOARD (R-5-T)	DS200QTBAG1A is superseded by DS200QTBAG3A	TERMINAL BOARD,(R-5-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-5-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-5-T) EXT		TERMINAL BOARD,(R-5-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 only, Has age sensitive components,	BOARD,GE DS200TCEAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, COMM. CIRCUITS FOR T	Has age sensitive components	BOARD,GE DS200TCEBG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	PDM, Switch & Fuse Card		BOARD,GE DS200TCDG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DC INPUT PWR SUPPLY	New no longer available, reman only, Has age sensitive components,	BOARD,GE DS200TCEAG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Analog I/O Card		BOARD,GE DS200TCCAG1B	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 DS200TCCCG1B	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 DS200TCTS1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MODULE,AC TO DC	DS2020DACAG1 has been superseded by DS2020DACAG2	MODULE,AC TO DC	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	(Commissioning Kit) Fuses, Resistors, Diodes, Relays		SPARE KIT,MKV	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Oil Pump	Pump		PUMP,DC LUBE OIL	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Motor	Motor		MOTOR,DC LUBE OIL PUMP	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switches	Switch		SWITCH,PRESS 0-150 PSI	In Stock
Turbine Generator System Stage 1	Hydraulic Fluid System	Fluid Pumps	Pump		PUMP,HYD FLUID POWER UNIT	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Shaft		SHAFT,IR.10 (TYPE 2 ERVH)	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Impeller		IMPELLER,IR 2RVH3DX1-813	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Sleeve		SLEEVE,IRAND 175B135NX1B-204	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Key		KEY,IMPELLER,IR.11A9C37	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Motor	Motor		MOTOR,ELECT 20HP 575VAC	In Stock

System		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 RPACGX00011	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Body	Positioner		POSITIONER,FISH DV6G200	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 27A3965X0052	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Cage		CAGE,FISH 20A3245X0092	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Ring		RING,FISH 17A3991X0022	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Seat Ring		RING,FISH 20A3260X152	In Stock	
Turbine Generator System Stage 1	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,STEELEFLEX 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 411679-6A	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 1U2222646172	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 F.O. TRIP	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 RPACGX00012	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	Seal		SEAL,MECHANICAL FUEL C324	In Stock	
Units 1 & 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	PUMP,IMO C324		PUMP,IMO C324 (COMPLETE)	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 RPACGX00012	In Stock	
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Ring		RING,FISH 1U2222535072	In Stock	
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Plug/Stem		PLUG/STEM,FISH 1U2222535072	In Stock	
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Cage		CAGE,FISH 1U215033272	In Stock	
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Gasket		GASKET,FISH 10A4154X012	In Stock	
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Ring		RING,FISH 1U2222835072	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		CAGE,FISH 2U231833272	In Stock	
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets	Repair Parts Stocked Ref	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	Oil Valve	Oil, Steam & Scavenge Valves - All		VALVE,BALL 3/4 C/W PNEU	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Cage		CAGE,FISH 42B3570X012	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Plug/Stem		PLUG/STEM,FISH 36A5366X062	In Stock	

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,BI,DWG C1F-238	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BI 612987-EH	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING,BI 634599-BG	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shoe		SHOE ASSY,BI 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, 4160V ac (two styles of motor for Stage I, one each stocked off-site)	Motor stored off site via service contract	SCIM, sin# 1026366788, frame MGP500B, 3000HP, 4160V ac, 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 CNI2054568	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 CNI2054568	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 CNI2054568	RING,FISH 10A4219X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring		RING,FISH 22B9344X012	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Plug/Stem		PLUG/STEM,FISH 38A0014X062	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #1 - All HP Heaters	Level Transmitter		TRANSMITTER, DP 0-120" 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	
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 1DX1-1/2OD	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Gasket		GASKET, HOP 30037592	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spindle		SPINDLE, HOP 44574-011	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT, HOP 35224-508	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stop		STOP, HOP 8 VALVE 24930W	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Belt		BELT ASSY, HOP 44511-001	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 4	8"-150H Gasket Kit		GASKET, S&K 7450397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 5	8"-300H Gasket Kit		GASKET, S&K 7450397V0010	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 6	8"-600H 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 Power Positioner (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
Powerhouse and Switchyard Single Line	Condensate Extraction Pumps	Cable	Cable		O-RING, MAT PLA 775D	In Stock
Turbine Generator System Stage 1	Governor	258V DC System	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 Rrigging Assembly	Truck V-Fast Cables		CABLE SET, FLUID POWER	In Stock
Units 1 & 2 Air & Flue Gas	F.D. Fans	F.D. 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 (Dodg)	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, 4160V ac	Motor stored off site via service contract	SCIM, sin# 1026842643, Frame MGPS00C, 1500HP, 4160V ac, 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 Cigentec	Rectifier	Individual replacement components stocked	RECTIFIER, CIGENT 323-230	Non-Stock
Circulating Water and Screen Wash System	CW Discharge Valves	Valve	36" Butterfly Valve		VALVE, BUTTERFLY 36"	In Stock

System		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	Master Fuel Trip Relays		RELAY_SD 8501XU00	In Stock		
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Elevation Oil Flow Transmitter		MODULE_PROCESSOR FOXBORO	In Stock		
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Elevation Air Dampers		FLOWMETER, PROMASS 83F40	In Stock		
Combustion Air & Gas Instruments	Vacuum Breakers	Stator and Brush Rigging Assembly	Positioner		POSITIONER, FISH DVC6200	In Stock		
Generator	Synchronous Condenser	Thrust Bearing	Brush		VALVE_AIR & VACUUM 6 FLG	In Stock		
Generator	Synchronous Condenser	Thrust Bearing	Seal Ring		BRUSH GENERATOR U3	In Stock		
Generator	Synchronous Condenser	Thrust Bearing	Thrust Bearing		PAD, BEARING U3 SYNC COND	In Stock		
Generator	Synchronous Condenser	Thrust Bearing	Thrust Bearing		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	Seal Oil System	Seals	Thermocouple		RING, SEAL U3 SYNC COND	In Stock		
Generator	Seal Oil System	Seals	Gaskets		THERMOCOUPLE, U3 SYNCH COND	In Stock		
Generator	Seal Oil System	Seals	Gaskets		BELLOWS, HITACHI	In Stock		
Generator	Exciter	Exciter Control System	Gaskets		GASKET, HITACHI	In Stock		
Generator	Exciter	Exciter Control System	Converter		GASKET, HITACHI	In Stock		
Generator	Exciter	Exciter Control System	ECT Panel		CONVERTER, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Controller		ECT PANEL, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Computer		CONTROLLER, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Firing Board		COMPUTER, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Message Module		BOARD, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Input Coupling		MODULE, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Power Supply		INPUT COUPLING UNIT, ABB	In Stock		
Generator	Exciter	Exciter Control System	Crowbar		POWER SUPPLY, ABB	In Stock		
Generator	Exciter	Exciter Control System	Murr		CROWBAR, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Resistor		MURR, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	I/O Board		RESISTOR, ABB EXCITER	In Stock		
Generator	Exciter	Exciter Control System	Field Breaker		BOARD, ABB COMBINED I/O	In Stock		
Generator	Exciter	Exciter Control System	Insulator Bushing		BREAKER, FIELD ABB E2/E	In Stock		
Generator	Exciter	Exciter Control System	Potential Transformer (PT)		VOLTAGE, HIGH VOLTAGE HIT	In Stock		
Generator	Exciter	Exciter Control System	Fuse		BUSHING, HIGH VOLTAGE HIT	In Stock		
Generator	Exciter	Exciter Control System	Light Oil / Air Supply Solenoid Valve		VOLTAGE TRANSFORMER, ABB VIZZ-	In Stock		
Generator	Exciter	Exciter Control System	Purge Solenoid Valve		FUSE, GE EID-1-C588L405G1	In Stock		
Generator	Exciter	Exciter Control System	Pneumatic Actuator		VALVE KIT, JAMES RK85MT	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SOLENOID, ASCO 8342C1	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SOLENOID, ASCO 8262G232	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		ACTUATOR, PNEU R16C	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		XFMR, IGNITION 120V 60C	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		BOX, IGNITOR C/W CABLES N-6	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SCANNER, FOSSIL 9100-1000	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		MICROSWTCH, 16CX12-D01	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		VALVE, BALL 1/4" U3 IGNITOR	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		TRANSMITTER, LEVEL	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		MODULE, AQUARIAN	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SOLENOID, ASCO 8300 125 VDC	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		RELAY, OMRON M1M4XP-DC125	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		PROBE, CONDUCTIVITY	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		GAUGE, GLASS 3/4X48	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SWITCH ASSY, MAG 89-7401-052	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		SOLENOID, ASCO 8320G184M0	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		TRANSMITTER, DP 0-120" H2O	In Stock		
Generator	Exciter	Exciter Control System	Igniter Control Box		VALVE KIT, BALL 8"	In Stock		

Asset		Critical Spare			Inventory Status	
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Repair Kit		ACTUATOR KIT, WORCH C-38	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Valve		VALVE,FISH 8560-1052-36105	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Disc		DISC,FISH 75B1036X102	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Pin		PIN,FISH 75B1122X052	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Pin		PIN,FISH G13725K0022	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Ring		RING,FISH 75B0311X032	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Shaft		SHAFT,FISH 75B0014X012	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Spring		SPRING,FISH 75B0012X012	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Packing		PACKING,FISH 12A8951X022	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Bearing		BEARING,FISH 75B1076X012	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #2 LP Heater	20" Dia		GASKET,COVER HIT	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	24" Dia		GASKET,COVER HIT	In Stock
L.P. Feedwater System	Deaerator System	NRV Valves (2)	14" Dia on DA		GASKET COVER HIT	In Stock
L.P. Feedwater System	Deaerator System	Safety Valves	Disc		DISC,VALVE SAFETY RELIEF	In Stock
L.P. Feedwater System	Polisher Bypass Valve	Valves	Parts to Repair		VALVE,FISH 8560-1052-36105	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Valve Kit		VALVE KIT,BALL 3	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator Kit		ACTUATOR KIT, WORCH D-38	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Valve Kit		VALVE KIT,BALL 2	In Stock
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator Kit		ACTUATOR KIT, WORCH C-38	In Stock
Main Steam & 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	25.8V DC System	Governor	400A DC Breaker		BREAKER,DC KD2400F 400A	In Stock
Turbine Generator System Stage 2	25.8V 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	Oil Seal		OIL SEAL,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	O-Ring		O-RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,HITACHI LOAD LIMIT	In Stock
Turbine Generator System Stage 2	Governor	Governor	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Sleeve		SLEEVE,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Trunnion		TRUNNION,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Pin		SPLIT PIN,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Packing		PACKING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Piston		PISTON RING,HITACHI	In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING,HITACHI	In Stock

Asset		Critical Spare			Inventory Status	
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
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	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	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	Shaft Driven 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	Locking		LOCKRING,10P-061-226-208	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Locking		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	Reheat/ICV Valves	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P-038-197/18	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P0611582	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P0611586	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Bushing		BUSHING,HIT 10P0611584	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Rivet		RIVET,HIT 10P-061-158-63	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Stem		STEM,HIT 10P0611587/7	In Stock
Turbine Generator System Stage 2	Reheat/ICV Valves	Reheat/ICV Valves	Pin		PIN,HIT 10P06115872	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	2" Valve	Bushing		TRANSMITTER,PRESS 0-200	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Actuator	Diaphragm		BUSHING,FISH 1E845714012	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Actuator	Actuator Repair Kit		DIAPHRAGM,FISH 2E859602202	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Body	Packing Kit		ACTUATOR KIT,FISH R667X000502	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Body	Positioner		PACKING KIT,FISH RPACCKX0011	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Positioner	Auxiliary Steam Control Valve - actuator		POSITIONER,FISH DVC6200	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Auxiliary Steam Control Valve - actuator			ACTUATOR KIT,FISH R470X000032	In Stock

System		Asset		Critical Spare		Inventory Status	
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Turbine Generator System Stage 2	Steam Seal Regulator	Series 8500 size 95 w/ 95" @ 100% width wheel	Aux Steam Control Valve - Body - Unit 3		BODY,VALVE FISH 3N192029022	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Drive Motor	Dump Control Valve - Actuator - Repair Kit - Unit 3		ACTUATOR KIT,FISHER R667	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	F.D. Fans	Ring		RING,FISH 17A3990X022	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	F.D. Fans	Ring		RING,FISH 1U50809102	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	F.D. Fans	Pin		PIN,FISH 1V326035072	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	F.D. Fans	Cage		CAGE,FISH 2U050939102	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	F.D. Fans	Plug		PLUG,FISH 27A3953X012	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	2 - Independent bearing pedestals	Thrust Plate		THRUST PLATE KIT,DODGE 132221	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	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	On Order	
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	2 - Temperature probes installed in bearings		THERMOCOUPLE,TYPE T	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Falk Steelflex coupling		COUPLING,STEEFLIFLEX GRID	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Gasket		GASKET,DODGE 132170	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER,STOCKBRIDGE 0.866"	Non-Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper	Damper	To be ordered & stocked as required	DAMPER,STOCKBRIDGE 1.004"	Non-Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Variable Inlet Vanes	Actuator Repair Kit		DRIVE KIT,BAILEY 532694C1	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Variable Inlet Vanes	Actuator Repair Kit		DRIVE KIT,BAILEY 256111A0	In Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Gearbox	Gearbox		GEARBOX,AIR HEATER U3	In Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor		AIR MOTOR,ING RAND	In Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,AIR HEATER 22-1/2"	Non-Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set	To be ordered & stocked as required	BASKET SET,HOT END 22-1/2"	Non-Stock	
Unit 3 Air & Flue Gas	O2 Analyzers		Probe		PROBE,OXYGEN ANALYZER	In Stock	
Unit 3 Air & Flue Gas	O2 Analyzers		Analyser		ANALYZER,ROSE 3000 OXY	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Gasket		GASKET SET,FISH RGASKETX362	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Packing		PACKING KIT,FISH RPACKX0002	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Actuator		ACTUATOR KIT,FISH R667X000502	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Regulator		REGULATOR KIT,FISH WR67AFR0011	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Bushing		BUSHING,FISH 1E845714012	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Diaphragm		DIAPHRAGM,FISH 2E859802202	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Cage		CAGE,FISH 2U236033272	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Ring		RING,FISH 1U217305092	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Seat		SEAT,FISH 1U222046172	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Plug/Stem		PLUG/STEM,FISH 1V6571X0042	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Cage		CAGE,FISH 2U215333272	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Gasket		GASKET SET,FISH RGASKETX242	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Packing		PACKING KIT,FISH RPACKX00012	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Bushing		BUSHING,FISH 1E682814012	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Diaphragm		DIAPHRAGM,FISH 2E669902202	In Stock	
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Cage		CAGE,FISH 2U223733272	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	Plug/Stem		PLUG ASSY,FISH 1V6575X0052	In Stock	
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Packing		PACKING KIT,FISH RPACKX0002	In Stock	
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock	
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Diaphragm		DIAPHRAGM,FISH 2E670002202	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Level Fuel Oil Trip Valves (3)	Packing		PACKING KIT,FISH RPACKX0002	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 1V71135072	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Diaphragm			DIAPHRAGM,FISH 2E669902202	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Cage			CAGE,FISH 2U227633272	In Stock	
Unit 3 Fuel Oil System	Header Pressure Control Valve	Repair Kit			ACTUATOR KIT,FISH R667X000402	In Stock	
Unit 3 Fuel Oil System	Header Pressure Control Valve	Bushing			BUSHING,FISH 1E682814012	In Stock	
Unit 3 Fuel Oil System	Header Pressure Control Valve	Diaphragm			DIAPHRAGM,FISH 2E669902202	In Stock	
Unit 3 Fuel Oil System	Fuel Oil Pumps	Pump			PUMP,MAIN FUEL OIL KRAL	In Stock	
Unit 3 Fuel Oil System	Main Fuel Oil Recirculation Valve	1" Welded Flange Valve w/ Actuator			VALVE ASSY,JAMES 1052 1"	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Recirculation Valves	3/4" Welded Valve w/ Actuator			VALVE ASSY,JAMES 1052 3/4"	In Stock	
Unit 3 Fuel Oil System	Oil Valve	1/2" Ball Valve			VALVE KIT,JAMES RK85MT	In Stock	
Burners	Steam Valve	Gasket			GASKET SET,FISH RGASKETX312	In Stock	
Burners	Steam Valve	Packing			PACKING KIT,FISH RPACGX00012	In Stock	
Burners	Steam Valve	Plug/Stem			PLUG/STEM,FISH 1U2161X0082	In Stock	
Burners	Steam Valve	Ring			RING,FISH 1U222546172	In Stock	
Burners	Steam Valve	Cage			CAGE,FISH 2U215033272	In Stock	
Burners	Scavenge Valve	Gasket			GASKET SET,FISH RGASKETX312	In Stock	
Burners	Scavenge Valve	Packing			PACKING KIT,FISH RPACGX00012	In Stock	
Burners	Scavenge Valve	Plug/Stem			PLUG/STEM,FISH 1U2161X0082	In Stock	
Burners	Scavenge Valve	Ring			RING,FISH 1U222546172	In Stock	
Burners	Scavenge Valve	Cage			CAGE,FISH 2U215033272	In Stock	
Boiler Feed	Boiler Feed Pumps	Rotating Assembly			CASE ASSY,BWL (INNER)	In Stock	
Boiler Feed	Boiler Feed Pumps	Shoe Assembly			SHOE ASSY,KI-00166-A-3740	In Stock	
Boiler Feed	Boiler Feed Pumps	Throttle bushing (2 req d)			BUSHING,BWL 3106181	In Stock	
Boiler Feed	Boiler Feed Pumps	Bearing			BEARING,HIT 9-60-1	In Stock	
Boiler Feed	Boiler Feed Pumps	Bearing			BEARING,HIT 9-60-2	In Stock	
Boiler Feed	Boiler Feed Pumps	Balance Bushing			BUSHING,BWL 3106181	In Stock	
Boiler Feed	Boiler Feed Pumps	Thrust Bearing			BEARING ASSY,THRUST JHJ-5	In Stock	
Boiler Feed	Boiler Feed Pumps	Gaskets			GASKET,BWL T-101204IG	On Order	
Boiler Feed	Boiler Feed Pumps	2350HP Motor, 4160Vac		Motor stored off site via service contract	SCIM, sin# 1026842642, frame MGP450D, 2350HP, 4160VAc, 60Hz	Non-Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve 1500lb - Welded			DIAPHRAGM,FISH 2R6376X00	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-10A5411X022 - Seal Ring			RING,FISH 10A5411X022	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-13A5599X052 - O-Ring			O-RING,FISH 13A5599X052	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-26A5299X052 - Seat Ring			RING,FISH 26A5299X052	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-27A2798X042 - Seat Ring, O-Ring			RING,FISH 27A2798X042	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-42B3570X012 - Cage, Eq%			CAGE,FISH 42B3570X012	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-36A5366X062 - Plug/Stem Bal			PLUG/STEM,FISH 36A5366X062	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	2-26A5314X012 - Gasket			GASKET,FISH 26A5314X012	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-1872906332 - Upper Wiper			WIPER,FISH 1872906332	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-1873435072 - Packing Box Ring			RING,FISH 1873435072	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-1R290601012 - Packing Set			PACKING,FISH 1R290601012	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-1H7441X0022 - Bushing Seal			SEAL,FISH 1H7441X0022	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1-2R6376X0082 - Diaphragm			DIAPHRAGM,FISH 2R6376X00	In Stock	
Feed Water Flow Controls	Main Feed Water Control Valve	1- R667X00802 - Repair Kit			ACTUATOR KIT,FISHER R667	In Stock	
H.P. Heater Controls (Water Induction Protection)	All HP Heaters	Conductivity Probe			PROBE,CONDUCTIVITY	In Stock	
H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Aquarian Alarm Module			PROBE,AQUARIAN	On Order	
H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Level Transmitter			TRANSMITTER, DP 0-120" H2O	In Stock	
H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Relay			RELAY,OMRON M4XP-DCL25	In Stock	
H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Solenoid			SOLENOID,ASCO 8300 125 VDC	In Stock	

System		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 05-0097	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 1R2-906601012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Plug/Stem		PLUG,STEM,FISH 22A3527X052	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4155X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4154X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 10A4210X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 12A3529X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING,FISH 11A3306X012	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" Dia		VALVE,RELIEF 1/2"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 35-4810-034-779	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 9713-02-023-250	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	Seal		SEAT,MASON 358748-000-596	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Liner		LINER,MASON 011509395-213-0000	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Diaphragm		DIAPHRAGM,MASON 010275-040-77	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Stem		STEM,MASON 770354-027-152	In Stock
Station Board SB12 (5SB1)	Aux Transformer ATC - 5SB3	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 (5SB1)	Aux Transformer ATC - 5SB3	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 (5SB1)	Aux Transformer ATC - 5SB3	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)	Aux Transformer ATC - SSB3	SSB-3 Relay	SSB-3 Relay	Shares spare with CGE IAC51 and ICAS3 devices - replaced by SEL-551C	RELAY/OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Relays	Relays	Shares spare with CGE IAC51 and ICAS3 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 ICAS3 devices - replaced by SEL-551C	RELAY/OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Transformer ATC - Breaker SSB-3	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER,EATON 4160V 2000A	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	SSB-4 Relay	SSB-4 Relay	Shares spare with CGE IAC51 and ICAS3 devices - replaced by SEL-551C	RELAY/OVERCURRENT SEL 551C	In Stock	

System		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 ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			Circuit Breaker UB1-1	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock		
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with MAVS devices - replaced by ABB SYN5201-0271	SYNCHROTRACT,SYN5201	In Stock		
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			Circuit Breaker UB2-12	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock		
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with MAVS devices - replaced by ABB SYN5201-0271	SYNCHROTRACT,SYN5201	In Stock		
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C	RELAY,VOLTAGE ABB SPAU121C	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Feeder to Power Centre A - A1	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Feeder to Power Centre A - A9	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Feeder to Transformer LT-A - Breaker A3	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Feeder to MCC A1 - Breaker A4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		

Asset				Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Unit Board UB1 (UB1-2)			UB1-4 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO - PBSJ3E5N11	In Stock	
Unit Board UB1 (UB1-2)			UB1-9 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO - PBSJ3E5N11	In Stock	
Unit Board UB1 (UB1-2)			UB1-11 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO - PBSJ3E5N11	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-2	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-1	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMS-1	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMH-2	In Stock	
Unit Board UB1 (UB1-2)			UB1-3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C.	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB1 (UB1-2)			UB1-3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C.	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C.	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB1 (UB1-2)			Feeder to Unit Board UB1 - Breaker UB1-2	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER,EATON 4160V 2000A	In Stock	
Unit Board UB1 (UB1-2)			Feeder to Transformer ATA - Breaker UB1-3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-4	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-5	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-6	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-7	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-8	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-9	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)			Breaker UB1-10	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
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. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-4 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-9 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-10 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMAA-2	In Stock	
Unit Board UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMAA-1	In Stock	
Unit Board UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMS-1	In Stock	
Unit Board UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMH-2	In Stock	
Unit Board UB2 (UB2-1)			UB2-2 Relays	Shares spare with CGE IAC51 and 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	Shares 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	Shares 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)	ACT2	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 - PBSJ3E5N11	In Stock	
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB3 (UT3)			Feeder to Unit Board - Breaker UT3	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER,EATON 4160V 2000A	In Stock	

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)			CESS	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	SYNCHROTACTION 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
Unit Board UB1 (UB1-2)			Breaker PSM 3 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)			GEN3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CE33 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CWE3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CWW3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	n/a	RELAY,PROTECTION SEL701	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - Breaker C1	Purchasing re-build kit/critical spares kit for AK-1-50 frame breaker	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Feeder to MCC C1 - Breaker C2	Purchasing re-build kit/critical spares kit for AK-2-25 frame breaker	BREAKER,EATON 600V	In Stock	
Station Board SB34 (ST34)			Feeder to Transformer SAT34 - Breaker SAT34 & Relays	Direct replacement breaker 5HK-VR-250-1200A	BREAKER,EATON 4160V 1200A	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - Breaker SAB34	Purchasing re-build kit/critical spares kit for 65H frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - Breaker ATB12	Purchasing re-build kit/critical spares kit for 50H-2 frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WAM34	Purchasing re-build kit/critical spares kit for 50H-3 frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	



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
High Energy Ignition Unit, Gas Generator, Prime Mover Systems	In Stock	High	N/A	
Bearing (494047), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Bearing (494056), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Vibration Transducer, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Fuel Filter, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Filter (494064), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Proximity Switch, Clutch, Prime Mover Systems	In Stock	Med	N/A	
Alkair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	High	N/A	
Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	High	N/A	
Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Valve (181536), Power Turbine Model CT2, Prime Mover Systems	In Stock	Low	N/A	
Primary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	High	N/A	
Primary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	High	N/A	
Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side	In Stock	High	N/A	
Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side	In Stock	High	N/A	
Ring that the Primary Pawl and spring are installed	In Stock	Med	N/A	
Primary Pawl Spring, Clutch, Prime Mover Systems	In Stock	High	N/A	
Primary Pawl, Clutch, Prime Mover Systems	In Stock	High	N/A	
Secondary Pawl, Clutch, Prime Mover Systems	In Stock	Med	N/A	
Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, Stephenville GT	In Stock	Med	N/A	
Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems	In Stock	High	N/A	
Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems	In Stock	High	N/A	
Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, Hardwoods GT	In Stock	High	N/A	
Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Prefilter, Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems	In Stock	Med	N/A	
Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Unloading Filter, Liquid Fuel System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	
Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	Med	N/A	
Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, Hardwoods GT	In Stock	Med	N/A	
P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems	In Stock	High	N/A	
Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	
Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	
Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	



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

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems	In Stock	Med	N/A	
Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Med	N/A	
Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Med	N/A	
NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Combustion Chamber, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	High	N/A	
Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems	In Stock	High	N/A	
Pressure Switch, Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	
Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	High	N/A	
Oil Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Oil Pump - Complete, Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	In Stock	Low	N/A	
Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	Med	N/A	
Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In Stock	Med	N/A	
Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	Med	N/A	
Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Med	N/A	
Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	In Stock	Med	N/A	
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Med	N/A	
Proximity Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, Hardwoods GT	In Stock	Low	N/A	
Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	In Stock	Med	N/A	
Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	In Stock	Med	N/A	
NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In Stock	High	N/A	
Pressure Switch, Main Lube Oil System, Auxiliary Systems	In Stock	High	N/A	
Pressure Switch, Liquid Fuel System, Auxiliary Systems, Hardwoods GT	In Stock	Med	N/A	
Pressure Switch, Gas Generator Lube Oil System, Auxiliary System, Hardwoods GT	In Stock	Med	N/A	
3-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems	In Stock	Low	N/A	
Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, Hardwoods GT	In Stock	Low	N/A	
Oil Drain Alternator Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Low	N/A	
Oil Drain Clutch Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, Stephenville GT	In Stock	Low	N/A	
Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, Hardwoods GT	In Stock	Low	N/A	
Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems	In Stock	Low	N/A	



Critical Spares Status
Hardwoods and Stephenville – Gas Turbines

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems	In Stock	Low	N/A	
Snow Door Pneumatic Cylinder	In Stock	Med	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)	On Hand - Under Parts Management Agreement	Medium	N/A	
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	
ControlLogix, 85-265 VAC Power Supply (10 Amp @ 5V)	On Hand - Under Parts Management Agreement	Medium	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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-2A, 2A0.6DI, 2RO	On Hand - Under Parts Management Agreement	Low	N/A	
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	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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 IDE=0	In Stock	Low	N/A	
VALVE, SHUTDOWN/PURGE	In Stock	High	N/A	
1", Q50065-4 DXP-L21GNEB JBHC8327G041-125VDC	In Stock	High	N/A	
VALVE, CONTINUOUS PURGE	In Stock	High	N/A	
3", Q50600-4 DXP-L21GNEB EFHC8321G1	In Stock	Low	N/A	
FUSE, LOW VOLTAGE DC	In Stock	Medium	N/A	
REPLACEMENT FUSE (LOW VOLTAGE DC PIM), BENTLY NEVADA: 1720045	In Stock	Medium	N/A	
MODULE, DC POWER SUPPLY	In Stock	Medium	N/A	
HIGH VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:129486-01	In Stock	Medium	N/A	
MODULE, POWER SUPPLY	In Stock	Medium	N/A	
LOW VOLTAGE DC POWER SUPPLY MODULE, BENTLY NEVADA:133292-01	In Stock	Medium	N/A	
MODULE, POWER INPUT	In Stock	Medium	N/A	
LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA:133300-01	In Stock	Medium	N/A	
MANUAL, POWER SUPPLY MODULE	In Stock	Low	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	

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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	Low	N/A	
REPAIR KIT, SSS CLUTCH MINOR	In Stock	Medium	N/A	
KOENIG:5L17998MNMKT	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:CXDA-XAN	In Stock	Low	N/A	
VALVE, SOLENOID	In Stock	Low	N/A	
SOLENOID VALVE, SUN HYDRAULICS:DIDA-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 LENGHT: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	Low	N/A	
REPAIR KIT FOR FUEL START-UP BYPASS VALVE, MANUFACTURER:FISHER, MODEL:Z, 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:SS1, STEM:SS1, BODY:STL, SEAT:SS1	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", 560iit-TH66 QS1600-4 DXP-L2IGNEB	In Stock	Medium	N/A	
FILTER, WATER - CLARK RELIANCE Z500PW	In Stock	Low	N/A	
INST AIR DREW 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:20E395WZ24D	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	
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	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
FEMALE NEEDLE VALVE, MICMASTER 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 1-1/2", JACOBY:100-S(NF)	In Stock	Low	N/A	
PILOT VALVE ASSEMBLY, CLIPPARD FV-SP W/MPA-3P, CLIPPARD:1WT3732	In Stock	High	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-LGN	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 805), S/N 1HC211015861	In Stock	Low	N/A	
BELT, ECODYNE:1320-BLT-S-EHX19-90	In Stock	Medium	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	Low	N/A	
PUMP, GEAR	In Stock	Medium	N/A	
DANFOSS:BERENDEN FLUID POWER SNP 2/11	In Stock	Medium	N/A	
COUPLING, PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, REXNORD-OMEGA: REX ELASTOMER-ES-4 (STANDARD ORANGE), PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, PUMP-MOTOR	In Stock	Low	N/A	
COUPLING, REXNORD-OMEGA: ELASTOMER-ES-5 (STANDARD ORANGE) PUMP-MOTOR	In Stock	Low	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	Medium	N/A	
ELEMENT 0180MA0003BN (3µm), P/N 2059438, SPIN ON ELEMENT, MANUFACTURER:HYDAC	In Stock	Low	N/A	
FILTER, LIQUID FUEL	In Stock	High	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	
FILTER, AIR	In Stock	Medium	N/A	
GEN AIR FILTERS, COMPACT FILTER, G4/F7 592 X 292 X 300, SIEMENS	In Stock	Medium	N/A	
FILTER KIT, FUEL	In Stock	High	N/A	
LOW PRESSURE FUEL FILTER REPLACEMENT KIT, CENTAUR:912555C3	In Stock	High	N/A	
KIT, OIL FILTER & O-RING	In Stock	Low	N/A	
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, IGV ACTUATOR - MOOG:864567-1V	In Stock	Medium	N/A	



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FILTER, TMP-95 FINAL	In Stock	Medium	N/A	
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	In Stock	Low	N/A	
PNEUMAFIL:552709C1, PRE-FILTER PANEL, 24"X24"X4"73 (FT2) SYNTHETIC MEDIA, PLASTIC FRAME FOR HIGHER PERFORMANCE AND LOWER PRESSURE DROP	In Stock	Low	N/A	
PRE-FILTER, PARKER AIR DRYER	In Stock	Low	N/A	
PARKER AIR DRYER PRE-FILTER, PARKER FILTER CARTRIDGE# 6C10-050	In Stock	Low	N/A	
AFTER-FILTER, AIR DRYER	In Stock	Medium	N/A	
AIR DRYER AFTER FILTER, PN 25-178-50C, PARKER FILTER CARTRIDGE # 10C10-050	In Stock	Medium	N/A	
PALL: ELEMENT HC9600FCP4H	In Stock	Medium	N/A	
FILTER, PRESSURE	In Stock	Medium	N/A	
ELEMENT, POST FILTER	In Stock	Medium	N/A	
POST FILTER ELEMENT 105 SCFM, INGERSOLL RAND 85565661	In Stock	Medium	N/A	
TRANSMITTER, PRESSURE	In Stock	High	N/A	
ROSEMOUNT:3051S2TG3A2A11A1AM5Q4	In Stock	Medium	N/A	
FILTER, LUBE OIL	In Stock	Medium	N/A	
LUBE OIL FILTER, CLARKE RELIANCE:A2200A4, NFS:2200A4	In Stock	Medium	N/A	
SOFT PARTS KIT, CLARKE RELIANCE:A10400107, NFS:10400107	In Stock	TBD		
FILTER AUTOMATIC FLOW CONTROL, 4"FNPT, MODEL:ST-400-25, 240GPM, PENTAIR:LWT 3949	In Stock	Medium	N/A	
FILTER AUTOMATIC BACKWASH FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 245GPM, MODULAR PIPING SUPPLY INC: LWT5430	In Stock	Low	N/A	
CARTRIDGE, DESICCANT	In Stock	Low	N/A	
PNEUMATIC PRODUCTS:3153517	In Stock	Low	N/A	
FILTER, OIL 275-2604	In Stock	Low	N/A	
OIL FILTER, CAT:275-2604	In Stock	Low	N/A	
FILTER, AIR 4P07105	In Stock	Low	N/A	
AIR FILTER, CAT: 4P0710	In Stock	Low	N/A	
PRE-FILTER, AIR COOLING	In Stock	Low	N/A	
PRE-FILTER, AIR COOLING	In Stock	Low	N/A	
METER, FLOW	In Stock	Medium	TBD	
ROSEMOUNT:3051SFC1CS030N065-T33EA1A5Q4E6M5	In Stock	Medium	N/A	
LIQUID FUEL TEMPERATURE TRANSMITTER, ROSEMOUNT 644HAK6M5Q416	In Stock	Medium	N/A	
PUMP SUPPLY PRESSURE SWITCH, CCS 646GZEM1	In Stock	Medium	N/A	
PUMP DISCHARGE PRESSURE TRANSMITTER, ROSEMOUNT 3051CG5A22A1A55B4C6M5Q4	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	In Stock	Medium	TBD	
ROSEMOUNT:3051SFC1CS030NX133DA1A5DQ4E6M5	In Stock	Low	N/A	
CONTROLLER, STEP LIFO	In Stock	Low	N/A	
8 STAGES, SCL4000-8	In Stock	Low	N/A	
LIMIT CONTROLLER (0-2502-F), SA100LKA3-MN-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,	In Stock	Low	N/A	
ROSEMOUNT:3051S2CD3A2A11A1AL1L2L4M5Q4	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-A1110-004, THERMAL DISPERSION FLOW SWITCH	In Stock	Low	N/A	
FUEL UNLOADING PUMPS OUTLET PRESSURE/GAUGE PRESSURE TRANSMITTER, ROSEMOUNT:3051S2TG3A2E11A1A84K6M5Q4	In Stock	Low	N/A	



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FUEL OIL TANK 1 LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64SPVDAM1C153	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:644HAK6J6M4	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	Medium	N/A	
CABLE SOLAR, IGNITER	In Stock	Medium	N/A	
CENTAUR:919340C2	In Stock	Medium	N/A	
PICKUP, MAGNETIC	In Stock	Medium	N/A	
CENTAUR:P/N 190430-1	In Stock	Medium	N/A	
SWITCH, OVERSPEED	In Stock	Medium	N/A	
CENTAUR 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-CEX5G	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	Medium	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	Low	N/A	
OVERSPEED TRIP SENSOR #1, ELECTRO CORP:3090A35	In Stock	Medium	N/A	
INLET AIR MANIFOLD PRESSURE SWITCH, UNITED ELECTRIC CONTROLS:J400K-455-1520	In Stock	High	N/A	
DIFFERENTIAL PRESSURE SWITCH, PNEUMAFIL:552033-B1	In Stock	Low	N/A	
INTAKE AIR STATIC FILTER DIFFERENTIAL - PRESSURE SWITCH, SOR:107AL-K12-PL-F1A	In Stock	Medium	TBD	
INLET SCROLL TEMPERATURE TRANSMITTER #1, YOKAGAWA:YTA320-EA2NN/FU1/DZ/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:HCL8316G66MB	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:B1T-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	
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	

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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:FO-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:X1T-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, T631C1012	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 0305RC22B11	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	
STARTING PACKAGE TORQUE CONVERTER PRESSURE GAUGE, KOENIG:BAC-160-25	In Stock	Low	N/A	
CAPSULELIC GAUGE 0-6" W.C., PNEUMAFIL:51646-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	In Stock	Low	N/A	
PRESSURE INDICATOR, DWYER INSTRUMENTS:4002	In Stock	Low	N/A	
CAPSULELIC GAUGE 0-2" W.C., PNEUMAFIL:51646-B6	In Stock	Low	N/A	
PRESSURE TRANSMITTER 0-300 PSI 4-20MA, ROSEMOUNT:3051TA3A2B21AES	In Stock	Low	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:45-4377204b, 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	



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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 UNLOADING 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: GPFK052143P0098	In Stock	Medium	N/A	
GENERATOR JACKING OIL - SOLENOID VALVE, SUN HYDRAULICS:DIDA-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	
FUSE, PANEL HEATER 4.5A	In Stock	Low	N/A	
PANEL HEATER FUSE 4.5A, ATQR4.5	In Stock	Low	N/A	
FUSE, AC 25A	In Stock	Low	N/A	
ATQR25	In Stock	Low	N/A	
FUSE, SIEMENS PG	In Stock	Low	N/A	
SIEMENS PG 840C208F01	In Stock	Low	N/A	
FUSE, 15 0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-15.0	In Stock	Low	N/A	
FUSE, 5.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-5.0	In Stock	Low	N/A	
FUSE, 1.0A	In Stock	Low	N/A	
BUSSMAN:LP-CC-1	In Stock	Low	N/A	



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FUSE, 2.0A 300 VDC BUSSMAN:LP-CC-2	In Stock	Low	N/A	
FUSE, 3.0A BUSSMAN:LP-CC-3.0	In Stock	Low	N/A	
FUSE, 12A FUSE 12A, SIEMENS:S00232012	In Stock	Low	N/A	
FUSE, 2AMP FUSE 2 AMP, GMC-2-A, BUSSMAN:GMC-2-A	In Stock	Low	N/A	
FUSE, 3AMP GMC-R FUSE 3AMP, BUSSMAN:GMC-3-R	In Stock	Low	N/A	
FUSE, 3A E-CELL E-CELL FUSE 3A, BUSSMAN:3060756	In Stock	Low	N/A	
FUSE, 25A E-CELL E-CELL FUSE 25A, BUSSMAN:1154697	In Stock	Low	N/A	
FUSE, 2A E-CELL E-CELL FUSE 2A, BUSSMAN:3060755	In Stock	Low	N/A	
FUSE, 6A GMC-6A GAMP, GMC-6A, BUSSMAN:1WT7345	In Stock	Low	N/A	
FUSE, 1.25A GMC-1.25A FUSE 1.25 AMP, GMC-1.25-A, BUSSMAN:1WT9119	In Stock	Low	N/A	
FUSE, 8A E-CELL E-CELL FUSE 8A, MERSEN ELECTRIC POWER:3060752	In Stock	Low	N/A	
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 I/O MODULE WITH INTERNAL BARRIERS - (INTERNAL TERMINATIONS)(4 X PROX/ACCEL)	In Stock	High	N/A	
MODULE, TMR I/O PROX/SEISMIC TMR I/O WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:126632-01	In Stock	High	N/A	
MODULE, PROX/VELOM I/O PROX/VELOM I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:140471-01	In Stock	High	N/A	
MODULE, PROX/VELOM I/O PROX/VELOM I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:140482-01	In Stock	High	N/A	
MODULE, SHAFT ABSOLUTE SHAFT ABSOLUTE I/O MODULE WITH EXTERNAL TERMINATIONS, BENTLY NEVADA:138708-01	In Stock	High	N/A	
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 VELOMETER), BENTLY NEVADA:135489-03	In Stock	High	N/A	
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 VELOMETER), 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 PROXIMITOR/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:D5N130	In Stock	Low	N/A	
3500/50 MODULE, BENTLY NEVADA:133388-02	In Stock	High	N/A	
WEATHER STATION DRY BULB TEMP A, VAISALA: HMT3301A0B101CGAB200B01CABAA1	In Stock	Low	N/A	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
R-DIODE SIEMENS PG:840C411F04	In Stock	Medium	N/A	
F-DIODE SIEMENS PG:840C411F03	In Stock	Medium	N/A	
CAPACITOR ASSEMBLY,RC SIEMENS PG:153C684	In Stock	Medium	N/A	
DESICCANT, 4-8 GRADE D 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	TBD	
E-CELL SOLENOID VALVE, EMERSON:3022390	In Stock	Low	N/A	
STAGE #3 DISC CAVITY TEMPERATURE - CONTROL VALVE, 3", FISHER:441-1032425AS	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 SIEMENS PG:153C691G02	In Stock	Medium	N/A	
BEARING LUBE OIL SUPPLY TEMPERATURE - THERMOCOUPLE, PYCO:02-3174 W/16-0049 (I TYPE K)	In Stock	Medium	N/A	
TURBINE GENERATOR SPEED PICK UP, BRAUN:ASS08T165C0.5	In Stock	High	N/A	
GENERATOR MAIN JACKING OIL PUMP - PRESSURE SWITCH, BARKSDALE:B1T-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 A1MIN, EMERSON:LWT21254	In Stock	Low	N/A	
ORP PREAMPLIFIER, RYAN HERCO:5905-273	In Stock	Medium	N/A	
THERMOCOUPLE,DISC CAVITY LPG INDUSTRIES INC. P/N: 2335C32-001 (THERMOCOUPLE ONLY)	In Stock	Medium	N/A	
THERMOCOUPLE,DISC CAVITY DISC CAVITY THERMOCOUPLE LPG INDUSTRIES INC. P/N: 2335C32-004 (THERMOCOUPLE ONLY)	In Stock	Medium	N/A	
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 EG5U/AG20	In Stock	Medium	N/A	
POLISHING LOOP PRESSURE RELIEF VALVE, REXROTH:RR00347261	In Stock	Low	N/A	
HP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/4SPDT	In Stock	Medium	TBD	
LP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/6SPDT	In Stock	Medium	TBD	
TORQUE CONVERTER SPEED PICK UP, ELECTRO CORP:725833	In Stock	Medium	N/A	
SWITCH, STAGER 48-03	In Stock	Low	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	

Critical Spares Status
Holyrood – Gas Turbine



Recommended Component	Stock	Risk Score	Expected Delivery	Comments
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:3039305	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-120T305Z96	In Stock	Medium	N/A	
THERMOCOUPLE, TEMPERATURE STARTING PACKAGE MOTOR FORWARD - BEARING TEMPERATURE T/C, S16820PD-300Z96	In Stock	Medium	N/A	
SWITCH, AUXILIARY AUX SWITCH, SIEMENS:A01JLD64	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-IF4: 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 TERMINAL-FUSE,LED,10-57VAC/VDC,1492-H5: 1152328	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,6A,BUS: 3054531 FUSE-BLOCK,600V,100A,MODULAR,BUS: 3020468	In Stock	Low	N/A	
FUSE-FAST,700V,80A,BUS: 3010595 FUSE-DELAY,600V,CLASS CC,3.5A,LP-CC,BUS: 3126308	In Stock	Low	N/A	
FUSE-DELAY,600V,CLASS CC,2A,BUS: 3060753 FUSE-DELAY,600V,CLASS CC,4A,LP-CC-4,BUS: 3060754	In Stock	Low	N/A	
FUSE-FAST,250V,CERAMIC,1A,BUS: 3055154 FUSE-DELAY,600V,CLASS CC,1A,BUS: 3029658	In Stock	Low	N/A	
FUSE-BLOCK,690V,MIDGET,MERSEN,USM1: 3146420 PLC-GE QP+,7" COLOR,24VDC,IC755CSW07CDA: 3134672	In Stock	Medium	N/A	
PLC-AB,DIGITAL,24VDC,8 IN,1762-IQ8: 1224240 PLC-AB,20D/12DO/4AI/4AO,1766-132BXBA: 3060729	In Stock	Medium	N/A	
XFMR-CONTROL XFMR-CNTRL,230/575,115-50/60,500VA,5Q-D: 3060802	In Stock	Medium	N/A	
POWER SUPPLY, 24VDC POWER-SUP,PHOENIX,TRIO,24VDC,5A: 3037802	In Stock	Low	N/A	



Critical Spares Status
Holyrood – Gas Turbine

Recommended Component	Stock	Risk Score	Expected Delivery	Comments
SWITCH, PUSH BUTTON SWITCH-P-B,1NC,1NC,MAN,BLK,800FP: 3007466	In Stock	Low	N/A	
SWITCH-PUSH PULL,24VDC,1EC,MUSHRM,JL,RED: 3006380	In Stock	Low	N/A	
RELAY,3PDT,24VDC,10A,700-HA332Z4: 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	Medium	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: TLQAT52222B4756U	In Stock	Low	N/A	
PLC, PREPROGRAMMED- RO SKID PREPROGRAMMED PLC - RO SKID: DO-06DR-RO	In Stock	Medium	N/A	
SWITCH, 3-POSITION, 22MM 3-POSITION SWITCH 22MM: GCX3320-22	In Stock	Low	N/A	
ACTUATOR ELECT FOR RO INLET VA WATERTECH SERVICES: V561055A	In Stock	Low	N/A	
SWITCH, 2-POSITION, 22MM 2-POSITION SWITCH 22MM: GCX3300	In Stock	Low	N/A	
COLOR TOUCHSCREEN INTERFACE, 6" PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE	In Stock	Medium	N/A	
PERMEATE PUMP SKID: W5EA9-PERM PLC, PREPROGRAMMED - PERMATE SKID PREPROGRAMMED PLC - PERMEATE PUMP SKID: DO-06DR-D-PERM	In Stock	Medium	N/A	
PLC, PREPROGRAMMED - RAW WATER SKID PREPROGRAMMED PLC - RAW WATER PUMP SKID: DO-06DR-RW	In Stock	Medium	N/A	
COLOR TOUCHSCREEN INTERFACE, 6" PREPROGRAMMED 6" COLOR TOUCHSCREEN OPERATOR INTERFACE	In Stock	Medium	N/A	
RAW WATER PUMP SKID: W5EA9-RW COLOR TOUCHSCREEN INTERFACE, 8" PREPROGRAMMED 8" COLOR TOUCHSCREEN OPERATOR INTERFACE	In Stock	Medium	N/A	
REVERSE OSMOSIS SKID: W5EA9-8RO COLOR TOUCHSCREEN INTERFACE, 10" PREPROGRAMMED 10" COLOR TOUCHSCREEN OPERATOR INTERFACE	In Stock	Medium	N/A	
ORP PREAMPLIFIER REVERSE OSMOSIS SKID: W5EA9-10 RO WATERTECH SERVICES: 5909-273	In Stock	Low	N/A	
CONDUCTIVITY MODULE FOR MULTIFUNCTION MONITOR - RO: 5908.494 Exhaust Thermocouples	In Stock	Low	N/A	
	In Stock	High	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
Solenoid Valve (E31-SV3; D2), Fuel System	On Order	Low	1-Nov-21	
Solenoid Valve (E31-SV4; E2), Fuel System	On Order	Low	1-Nov-21	
Solenoid Valve (E31-SV6; D8), Fuel System	Capital Spare On Order	High	1-Nov-21	
DC Motor (M-602; Sheet 2 - Low-Left), Lubrication System				



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
BDE - EXCITATION CONTROLS - CARD, ABB HIEE300661R0001	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 HIEE305988R1	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 500772	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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 A30B-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 2995205	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,SPEED SIGNAL	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,WWW 111006	In Stock		N/A	N/A
BDE - GOVERNOR SPEED GENERATOR - BEARING,WWW 1800125	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
BDE - ISOLATED PHASE BUS - XFMR,CT 1000:	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - XFMR,CT 13.8KV	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - XFMR,CT 30332313	In Stock		N/A	N/A
BDE - ISOLATED PHASE BUS - XFMR,CT 800:5	In Stock		N/A	N/A

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BDE - ISOLATED PHASE BUS - XFMR,PT 14400KV	In Stock		N/A	N/A
BDE - METER, TEMP DIGITAL	In Stock		N/A	N/A
BDE - METER, TEMP DIGITAL	In Stock		N/A	N/A
BDE - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ANALOG QUANTUM	In Stock		N/A	N/A
BDE - MODULE,CPU MODICON	In Stock		N/A	N/A
BDE - MODULE,CPU MODICON	In Stock		N/A	N/A
BDE - MODULE,CPU MODICON	In Stock		N/A	N/A
BDE - MODULE,DISCRETE IN	In Stock		N/A	N/A
BDE - MODULE,DISCRETE IN	In Stock		N/A	N/A
BDE - MODULE,DISCRETE IN	In Stock		N/A	N/A
BDE - MODULE,DISCRETE IN	In Stock		N/A	N/A
BDE - MODULE,DISCRETE OUT	In Stock		N/A	N/A
BDE - MODULE,DISCRETE OUT	In Stock		N/A	N/A
BDE - MODULE,DISCRETE OUT	In Stock		N/A	N/A
BDE - MODULE,DISCRETE OUT	In Stock		N/A	N/A
BDE - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
BDE - MODULE,ETHERNET QUANTUM	In Stock		N/A	N/A
BDE - MODULE,GPS QUANTUM	In Stock		N/A	N/A
BDE - MODULE,GPS QUANTUM	In Stock		N/A	N/A
BDE - MODULE,GPS QUANTUM	In Stock		N/A	N/A
BDE - MODULE,GPS QUANTUM	In Stock		N/A	N/A
BDE - MODULE,HOT STANDBY	In Stock		N/A	N/A
BDE - MODULE,HOT STANDBY	In Stock		N/A	N/A
BDE - MODULE,HOT STANDBY	In Stock		N/A	N/A
BDE - MODULE,HOT STANDBY	In Stock		N/A	N/A
BDE - MODULE,INTERFACE PLC	In Stock		N/A	N/A
BDE - MODULE,INTERFACE PLC	In Stock		N/A	N/A
BDE - MODULE,INTERFACE PLC	In Stock		N/A	N/A
BDE - MODULE,INTERFACE PLC	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,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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 movable	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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
BDE - UNIT 7 EXCITER - INTEG CCT	In Stock		N/A	N/A
BDE - UNIT 7 EXCITER - MODULE,ABB DCSS500B200361	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 EZNE1600W54-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
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

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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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 - 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 SOLND	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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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,I SOLATING	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,MLDT 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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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 UNCO01D-E,	In Stock		N/A	N/A
CAT - EXCITER NO. 2 - CARD ABB UN50026A-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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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 250IB6L-8338	In Stock		N/A	N/A
CAT - RECTIFIER, BRIDGE 35MB60A-8419	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 - Slipping/brush Rigging Assembly - Brush Holder	In Stock		N/A	N/A
CAT - Slipping/brush Rigging Assembly - Brushes	In Stock		N/A	N/A
CAT - Slipping/brush Rigging Assembly - Insulator	In Stock		N/A	N/A
CAT - Slipping/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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 C5411-20	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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 EC30DUJ-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
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, 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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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 226043126X015	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
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(5)	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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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 - SCREW, 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 6201B6815L005	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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card gate pulse	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Anti-pump relay	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Charging motor	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Motor brush kit	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Primary disconnect	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Shunt trip coil	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Spring release coil	In Stock		N/A	N/A
HLK - COIL,AUTO AIR CHARGING SOLIND.	In Stock		N/A	N/A
HLK - CONTACT,AUX GE	In Stock		N/A	N/A
HLK - CONTACTOR,FURNAS	In Stock		N/A	N/A
HLK - Creep detector	In Stock		N/A	N/A
HLK - EXCITATION - Bridge (entire module)	In Stock		N/A	N/A
HLK - EXCITER FIELD BREAKER - Entire unit	In Stock		N/A	N/A
HLK - GASKET KIT, COMPAIR 45244	In Stock		N/A	N/A
HLK - GASKET KIT, COMPAIR 79452	In Stock		N/A	N/A
HLK - GENERATOR - brake shoes	In Stock		N/A	N/A
HLK - GENERATOR - Generator air valve	In Stock		N/A	N/A
HLK - GENERATOR - SOLENOID,GENERATOR AIR VALVE,	In Stock		N/A	N/A
HLK - GENERATOR CIRCUIT BREAKER	In Stock		N/A	N/A
HLK - GOVERNOR ACCUMULATOR TANK - Air admission solenoid	In Stock		N/A	N/A

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
HLK - GOVERNOR ACCUMULATOR TANK - Solenoid valve	In Stock		N/A	N/A
HLK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID ,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLID. ,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET ,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 65SD ,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - filter	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT,ROD,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON,	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634,motor	In Stock		N/A	N/A
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640,MOTOR	In Stock		N/A	N/A
HLK - GOVERNOR SPEED GENERATOR - gear drive	In Stock		N/A	N/A
HLK - GOVERNOR SPEED GENERATOR - GEAR, WOODWARD 1447-640	In Stock		N/A	N/A
HLK - GOVERNOR SPEED GENERATOR - Speed switch bracket	In Stock		N/A	N/A
HLK - GUIDE BEARING SEGMENTS (SET) - BEARING,SEGMENT	In Stock		N/A	N/A
HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER,PRESS 0-375	In Stock		N/A	N/A
HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 M/M,	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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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,IR 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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
PRV - DIODE,GE 6RT44UV698-8841	In Stock		N/A	N/A
PRV - MAGNETROL,D-B10-1GBA-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
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

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
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
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
CAT - Lightning Arrestor - Surge Suppressor	On Order		N/A	30-Nov-21
GCL - CMU	On Order		N/A	31-Oct-21
GCL - Power Supply	On Order		N/A	31-Oct-21
BDE - Unit 5/6 Rotor Pole	On Order		N/A	30-Nov-21

Critical Spare Component	Stock Status	Comments	Status Update September 2021	Expected Delivery Date
BDE - Unit 7 Spare Pole USL - Transformer T2	On Order On Order	Capital Plan 2021. Arrived on site August 2021. Field testing revealed an internal grounding issue. Manufacturer in the process of shipping the transformer to the USA for repairs. Expected delivery back to USL to be determined.	N/A N/A	30-Nov-21 TBD