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November 10, 2023

Board of Commissioners of Public Utilities
Prince Charles Building
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St. John's, NL A1A 5B2

Attention: Jo-Anne Galarneau
Executive Director and Board Secretary

Re: *Reliability and Resource Adequacy Study Review – 2023–2024 Winter Readiness Planning Report*

Further to correspondence received from the Board of Commissioners of Public Utilities (“Board”) on October 13, 2016 directing Newfoundland and Labrador Hydro (“Hydro”) to provide an annual report detailing its winter readiness planning, and correspondence received on March 5, 2020 requesting additional detail, please find enclosed Hydro’s update to its 2023–2024 Winter Readiness Planning Report.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

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2023–2024 Winter Readiness Planning Report

November 10, 2023

A report to the Board of Commissioners of Public Utilities



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Appendix G: Critical Spares Status Listing for Hydraulic Generation

1.0 Background and Introduction

The Board of Commissioners of Public Utilities (“Board”), in correspondence dated October 13, 2016,¹ directed Newfoundland and Labrador Hydro (“Hydro”) to provide an annual report detailing its winter readiness (“WR”) planning. This report, for the 2023–2024 winter season, addresses the following items as requested by the Board:

- The status of annual work plan² items, 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 [2023] capital projects for Hydro’s generating plant and transmission and terminal stations, including progress on completion status to date and expected completion date.
- Identification of all equipment and plant testing to be carried out in advance of the winter period (generation plant, emergency diesels, black start generators, fire systems, transmission system equipment), including progress on completion status to date.
- The planned generation outage schedule for the period September 1 to December 31, [2023], including an explanation for any planned outages extending beyond December 1, [2023].³
- An update of critical spares assessment and procurement.
- Identification of any risks that could impact the winter readiness of assets as of December 1, [2023] 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 October 31, 2023.⁵

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, p. 2, item iii).

² Annual work plan (“AWP”).

³ In previous years, Hydro’s WR report included a Near-Term Reliability and Resource Adequacy section. The Board approved the removal of the duplicate information in “Newfoundland and Labrador Hydro - Reliability and Resource Adequacy Study Review – Schedule for Future Updates,” Board of Commissioners of Public Utilities, August 17, 2023. The information will be provided in Hydro’s November 2023 Near-Term Reliability Report.

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 October 20, 2023.

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 the 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 2023, those tagged as WR activities are planned for completion by December 1, 2023.

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 October 20, 2023, 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 the 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 October 20, 2023 in relation to AWP
9 and WR activities (i.e., Green: On Target, Yellow: Caution – Recovery Required, Orange: Target Will Not
10 be Fully Met). Relevant highlights are also provided.

11 Hydro’s WR plan reflects the status of Hydro’s regulated assets and historically has not included Muskrat
12 Falls assets,⁶ as Hydro’s WR preparations have previously focused on completing the necessary
13 operations and maintenance work to ensure system readiness and availability without any additional
14 capacity from Muskrat Falls assets. As the LIL was commissioned on April 14, 2023, Hydro has provided
15 overall statistics on AWP and WR status for the Muskrat Falls assets in Section 2.6.

16 Since commissioning, the LIL has performed as expected and has been operating reliably; the LIL is
17 expected to be available for capacity up to 700 MW during the winter season. Hydro has operational
18 protocols in place to ensure reliable operation of the current software version of the LIL, and has
19 performed supply adequacy analysis to confirm its sufficiency to meet forecasted load expectations for
20 the coming winter at this capacity.⁷ Hydro will continue to address remaining punchlist items, including
21 delivery of a final version of LIL software and execution of a 900 MW pole overload test.⁸

22 Section 3.0 and Appendix A provide the status of capital projects that include additional WR tasks.

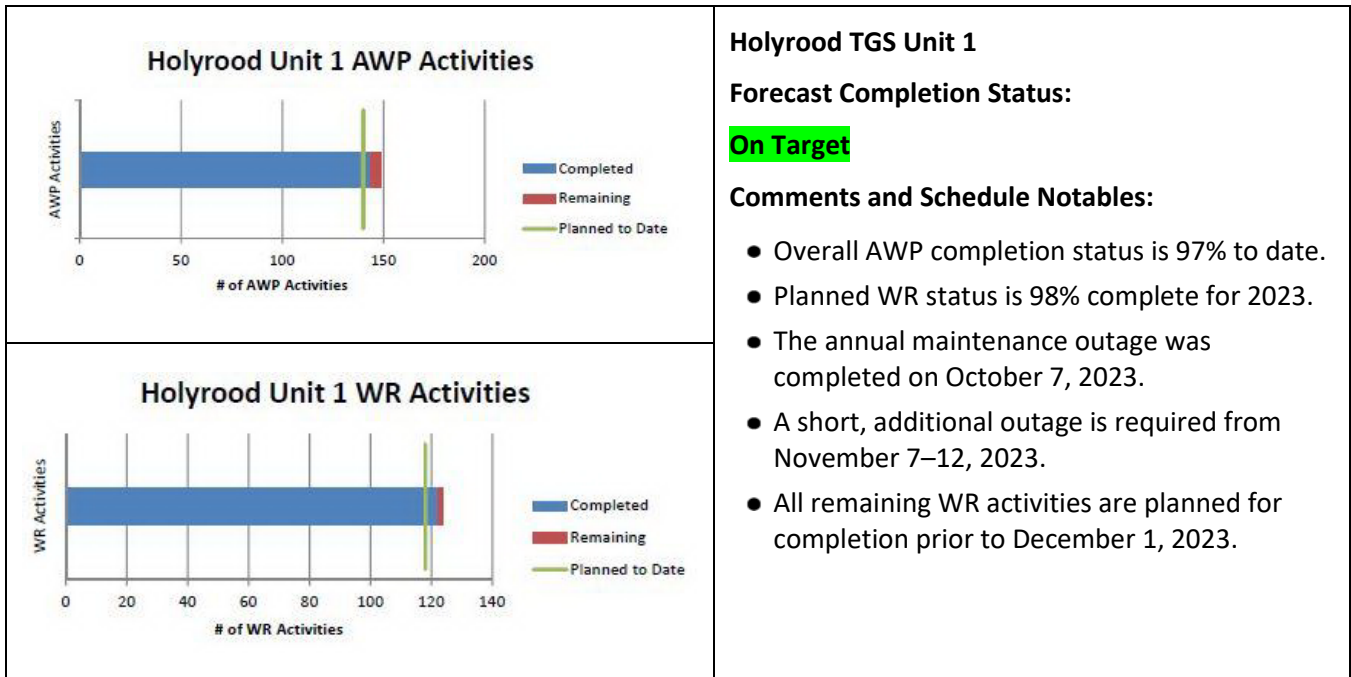
⁶ The Muskrat Falls assets are comprised of the Labrador-Island Link (“LIL”), Labrador Transmission Assets and the Muskrat Falls Hydroelectric Generating Facility.

⁷ “Reliability and Resource Adequacy Study - 2023 Update - Volume II: Near-Term Reliability Report – May Report,” Newfoundland and Labrador Hydro, June 2, 2023.

⁸ Due to supply limitations associated with generators that are currently scheduled to be out of service this fall, particularly Holyrood TGS Unit 2, and the extended outage that would be required for the installation and testing of the new software version, Hydro has decided to delay the installation of the new software version until spring 2024.

1 **2.1 Thermal Generation**

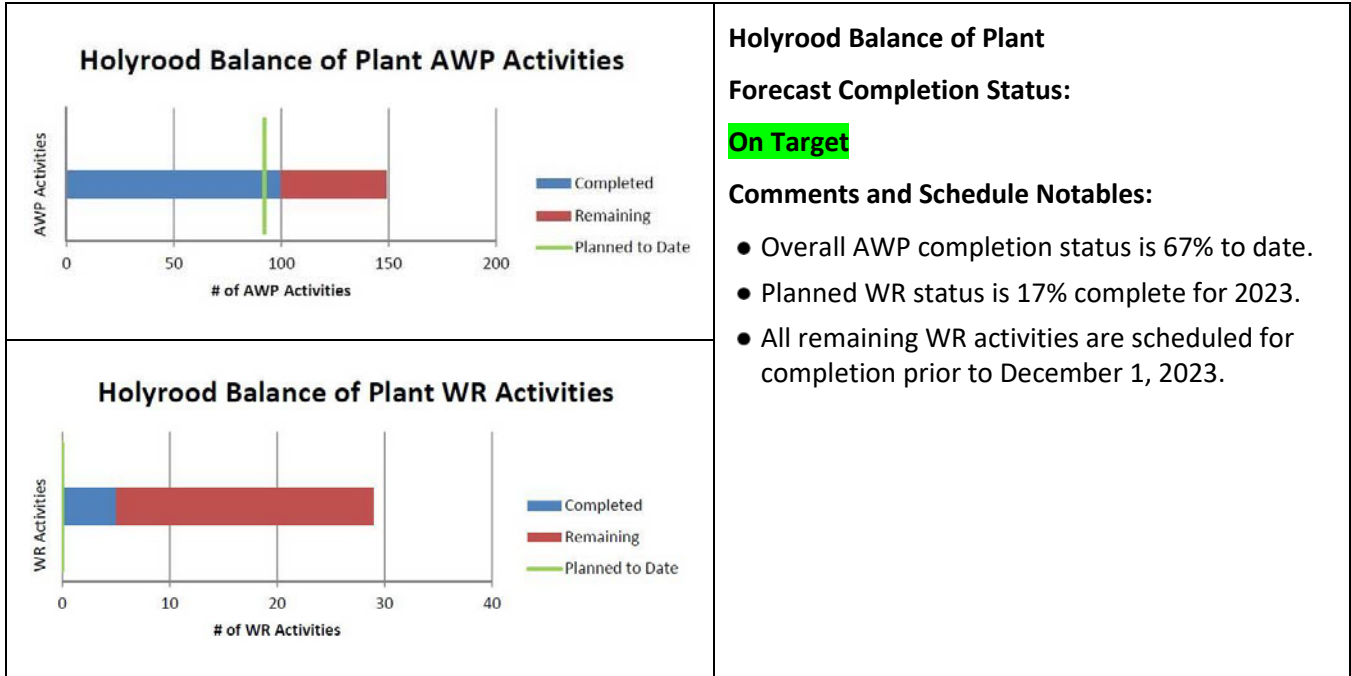
2 The status of AWP and WR execution at the Holyrood TGS is summarized in the following charts. All
 3 planned 2023 WR work is on target for completion by December 1, 2023, aside from activities related to
 4 Unit 2. As discussed in Section 7.2.4, Unit 2’s return to service is delayed until March 2024 due to the
 5 required replacement of the low pressure blades on Unit 2 turbine.



| | |
|--|--|
| <h3 style="text-align: center;">Holyrood Unit 2 AWP Activities</h3> <p style="text-align: center;"># of AWP Activities</p> | <h3>Holyrood TGS Unit 2</h3> <p>Forecast Completion Status: Target Will Not be Fully Met</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 54% to date. ● Planned WR status is 47% complete for 2023. ● The unit is currently unavailable, and will not return to service for the remainder of 2023 due to the required replacement of the low pressure blades on the Unit 2 turbine.⁹ ● The return to service date for this unit is tentatively scheduled for mid-March 2024; as such, while some progress has been made on the completion of Unit 2 work activities, maintenance efforts have focused on Unit 1 and 3. ● All AWP and WR items are scheduled to be completed prior to the unit being returned to service in March 2024. |
| <h3 style="text-align: center;">Holyrood Unit 2 WR Activities</h3> <p style="text-align: center;"># of WR Activities</p> | |

| | |
|--|---|
| <h3 style="text-align: center;">Holyrood Unit 3 AWP Activities</h3> <p style="text-align: center;"># of AWP Activities</p> | <h3>Holyrood TGS Unit 3</h3> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 88% to date. ● Planned WR status is 88% complete for 2023. ● The annual maintenance outage was completed on July 1, 2023. ● Unit 3 was taken off synchronous condenser mode on October 16, 2023, and returned to service in generation mode on October 28, 2023. ● All remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <h3 style="text-align: center;">Holyrood Unit 3 WR Activities</h3> <p style="text-align: center;"># of WR Activities</p> | |

⁹ As stated in Hydro’s response to CA-NLH-057 of the 2024 Capital Budget Application (“CBA”) proceeding, this issue was found during the regularly scheduled Unit 2 turbine overhaul, as approved in Hydro’s 2023 CBA. These are the low pressure next-to-last stage (“L-1”) blades, a separate stage of blades from the last stage blades (“L-0”), which are being repaired under a separate supplemental CBA.



1 **2.2 Gas Turbine Generation**

2 The status of AWP and WR execution at the Holyrood Gas Turbine (“Holyrood GT”), Hardwoods Gas
 3 Turbine (“Hardwoods GT”), Stephenville Gas Turbine (“Stephenville GT”), and Happy Valley Gas Turbine
 4 (“Happy Valley GT”) is summarized in the following charts. Planned WR work for all gas turbines is on
 5 target for completion by December 1, 2023. As discussed in Section 7.4.1, the Stephenville GT is not
 6 expected to return to service until mid- to late-January 2024 due to the current alternator cooling fan
 7 repair schedule.

| | |
|--|---|
| <p style="text-align: center;">Holyrood GT AWP Activities</p> | <p>Holyrood GT</p> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 66% to date. ● Planned WR status is 69% complete for 2023. ● The fall maintenance outage was originally planned for October 23–November 3, 2023; however, has been rescheduled for November 2–5, 2023. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <p style="text-align: center;">Holyrood GT WR Activities</p> | |

| | |
|---|--|
| <p style="text-align: center;">Hardwoods GT AWP Activities</p> | <p>Hardwoods GT</p> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 87% to date. ● Planned WR status is 69% complete for 2023. ● The fall maintenance outage was completed October 16–22, 2023.¹⁰ ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <p style="text-align: center;">Hardwoods GT WR Activities</p> | |

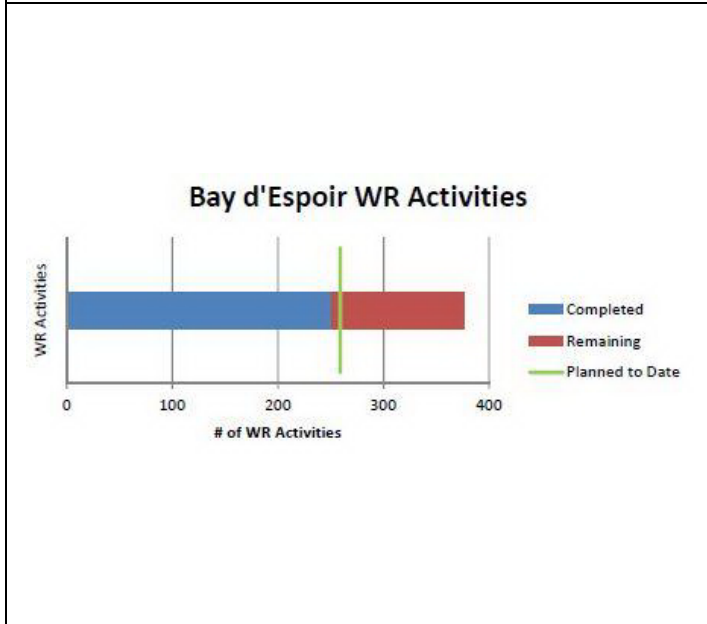
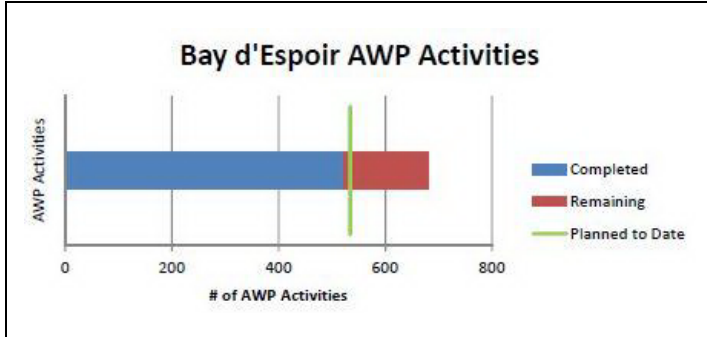
¹⁰ The majority of the outstanding activities were completed during the fall maintenance outage; however, these completed activities are not reflected in the AWP and WR activity charts, as this data was as of October 20, 2023.

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|--|---|
| <h3 style="text-align: center;">Stephenville GT AWP Activities</h3> <p style="text-align: center;"># of AWP Activities</p> | <h3>Stephenville GT</h3> <p>Forecast Completion Status: Target Will Not be Fully Met</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 58% to date. ● Planned WR status is 33% complete for 2023. ● The unit is currently unavailable and is not expected to return to service until mid- to late-January 2024. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. ● Remaining AWP items are scheduled to be completed prior to returning the unit to service. |
| <h3 style="text-align: center;">Stephenville GT WR Activities</h3> <p style="text-align: center;"># of WR Activities</p> | |

| | |
|--|--|
| <h3 style="text-align: center;">Happy Valley GT AWP Activities</h3> <p style="text-align: center;"># of AWP Activities</p> | <h3>Happy Valley GT</h3> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 81% to date. ● Planned WR status is 82% complete for 2023. ● All annual maintenance outages have been completed. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <h3 style="text-align: center;">Happy Valley GT WR Activities</h3> <p style="text-align: center;"># of WR Activities</p> | |

1 **2.3 Hydraulic Generation**

2 The status of AWP and WR execution at hydraulic generation facilities is summarized in the following
 3 charts. WR work for hydraulic generation units is on target for completion by December 1, 2023.



Bay d'Espoir

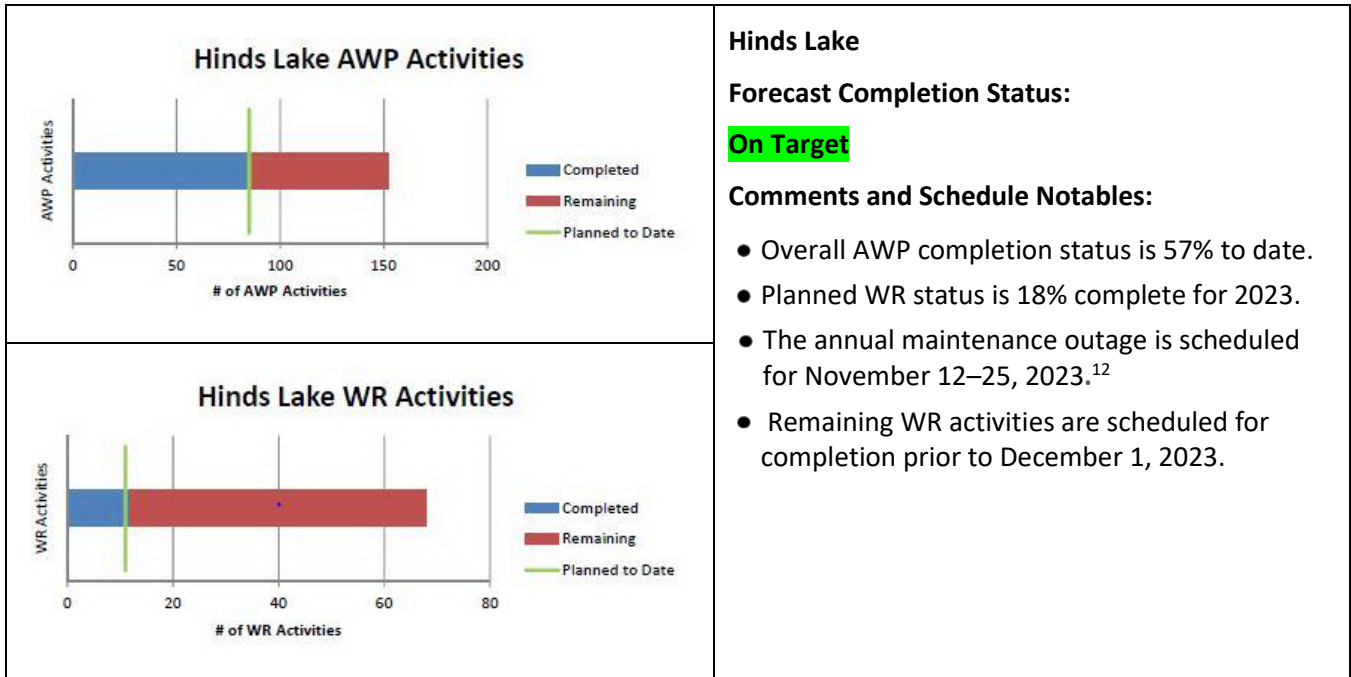
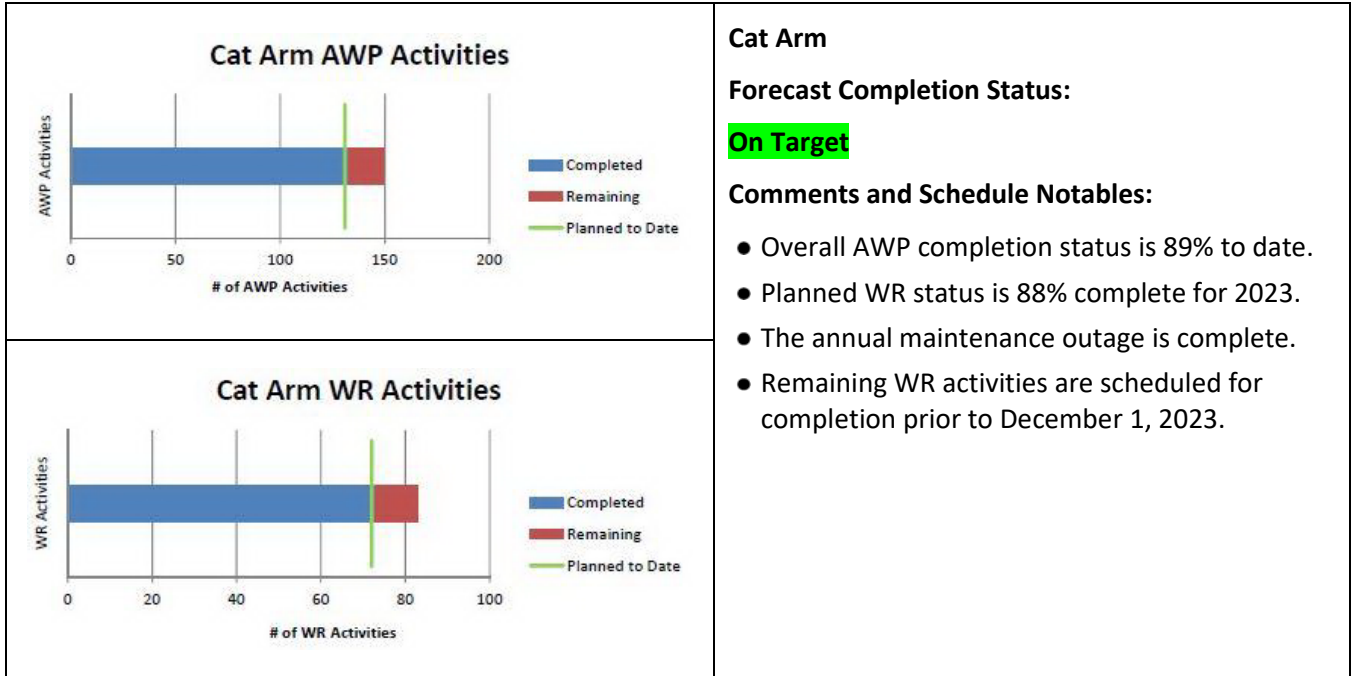
Forecast Completion Status:

Target Will Not be Fully Met

Comments and Schedule Notables:

- Overall AWP completion status is 77% to date.
- Planned WR status is 67% complete for 2023.
- Annual maintenance outages are complete for Units 3, 4, 5, 6, and 7.
- The annual maintenance outage for Unit 1 was originally scheduled for October 8–29, 2023; however, the duration of this outage has been extended to November 11, 2023.
- The annual maintenance outage for Unit 2 was originally scheduled for October 15–27, 2023; however, the duration of this outage has been extended to November 11, 2023.
- Remaining WR activities for all generating units are scheduled for completion prior to December 1, 2023; however, due to ongoing capital projects at Burnt Dam and Ebbegunbaeg, WR activities at the spillways associated with these structures are unable to be completed until mid-December 2023.¹¹

¹¹ WR activities at Burnt Dam are planned for completion during the first week of December 2023. WR activities at the Ebbegunbaeg hydroelectric structure are planned for completion by mid-December 2023.



¹² The annual maintenance outage was originally scheduled for October 29–November 17, 2023, but will now occur November 12–25, 2023 to accommodate the extension of the annual maintenance outages for Units 1 and 2 in Bay d’Espoir.

| | |
|--|---|
| <p style="text-align: center;">Paradise River AWP Activities</p> <p style="text-align: center;"># of AWP Activities</p> | <p>Paradise River</p> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 93% to date. ● Planned WR status is 93% complete for 2023. ● The annual maintenance outage is complete. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <p style="text-align: center;">Paradise River WR Activities</p> <p style="text-align: center;"># of WR Activities</p> | |

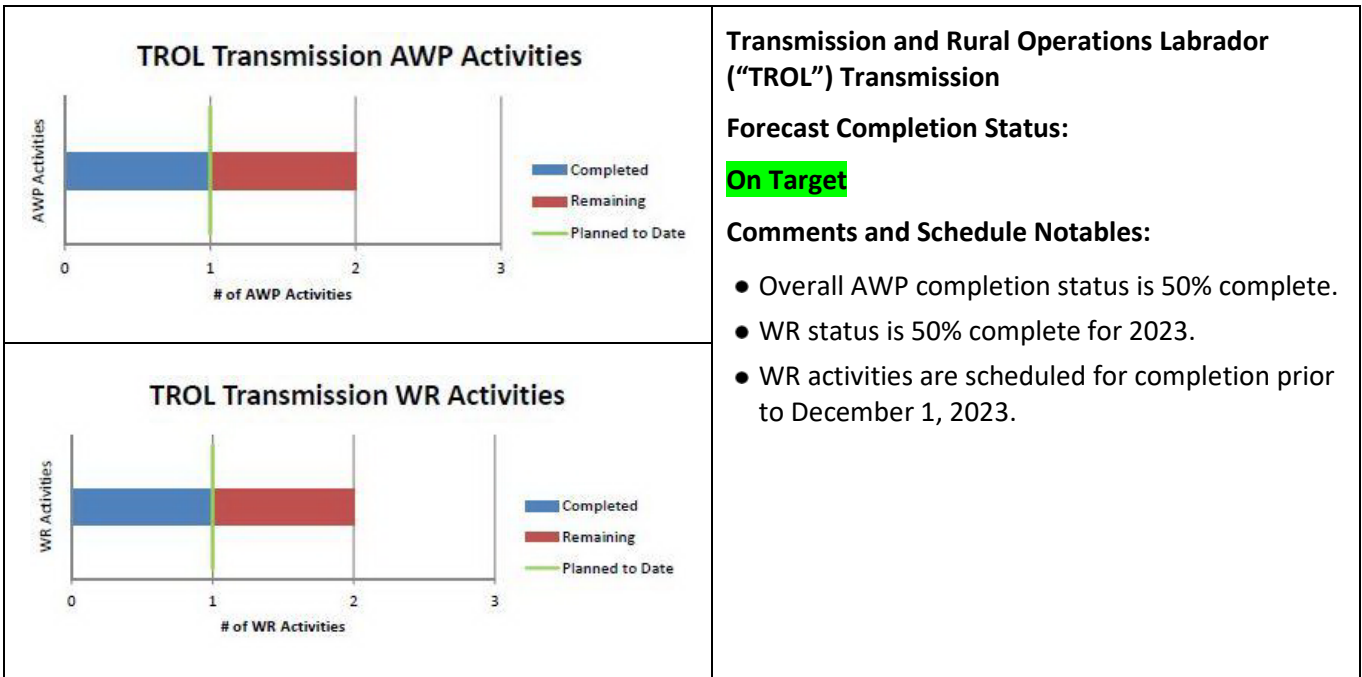
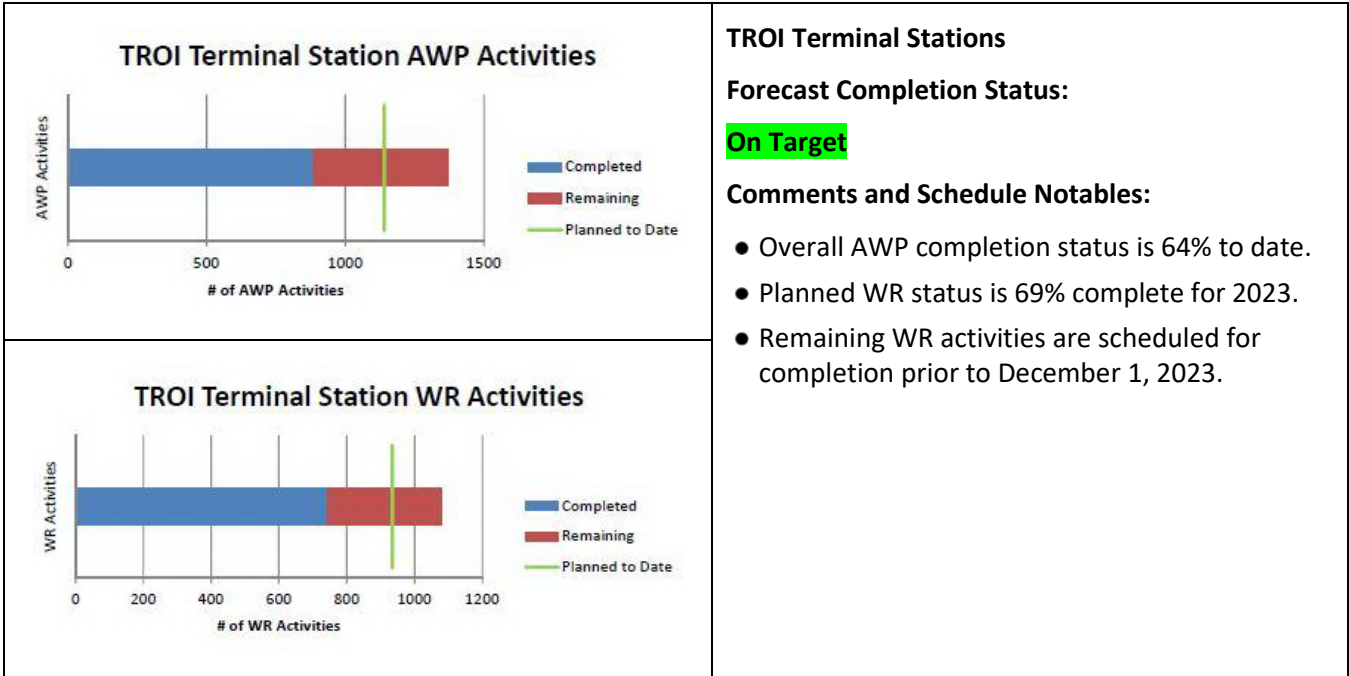
| | |
|--|--|
| <p style="text-align: center;">Upper Salmon AWP Activities</p> <p style="text-align: center;"># of AWP Activities</p> | <p>Upper Salmon</p> <p>Forecast Completion Status: Target Will Not be Fully Met</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 70% to date. ● Planned WR status is 61% complete for 2023. ● The annual maintenance outage is ongoing; all tasks are forecast for completion and the unit returned to service by November 30, 2023. ● Remaining WR activities for this unit are scheduled for completion prior to December 1, 2023; however, due to the ongoing annual maintenance outage, WR activities at the North Salmon Dam Spillway are unable to be completed until the first week of December 2023. |
| <p style="text-align: center;">Upper Salmon WR Activities</p> <p style="text-align: center;"># of WR Activities</p> | |

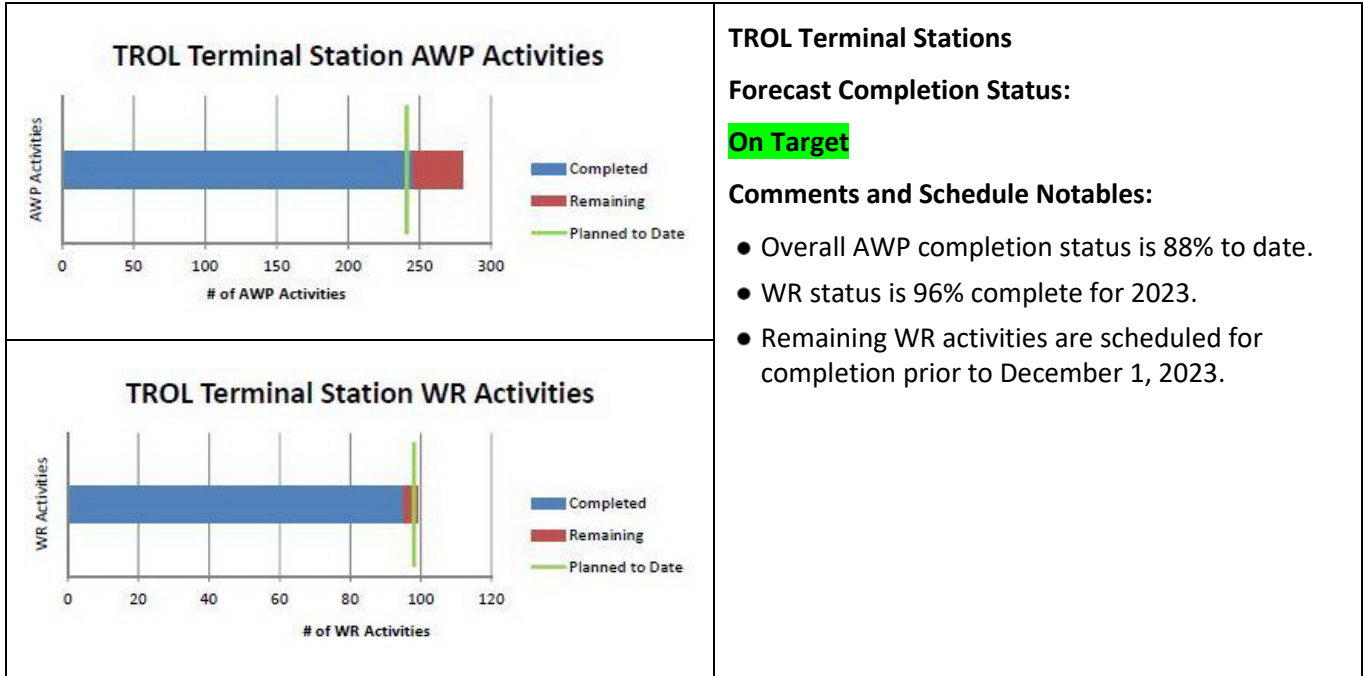
| | |
|--|--|
| <p style="text-align: center;">Granite Canal AWP Activities</p> | <p>Granite Canal</p> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 93% to date. ● Planned WR status is 89% complete for 2023. ● The annual maintenance outage is complete. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <p style="text-align: center;">Granite Canal WR Activities</p> | |

1 **2.4 Transmission and Terminal Stations**

- 2 The status of AWP and WR execution for transmission line and terminal station facilities on both the
- 3 Island Interconnected System and the Labrador Interconnected System is summarized in the following
- 4 charts. All planned WR activities are scheduled for completion by December 1, 2023.

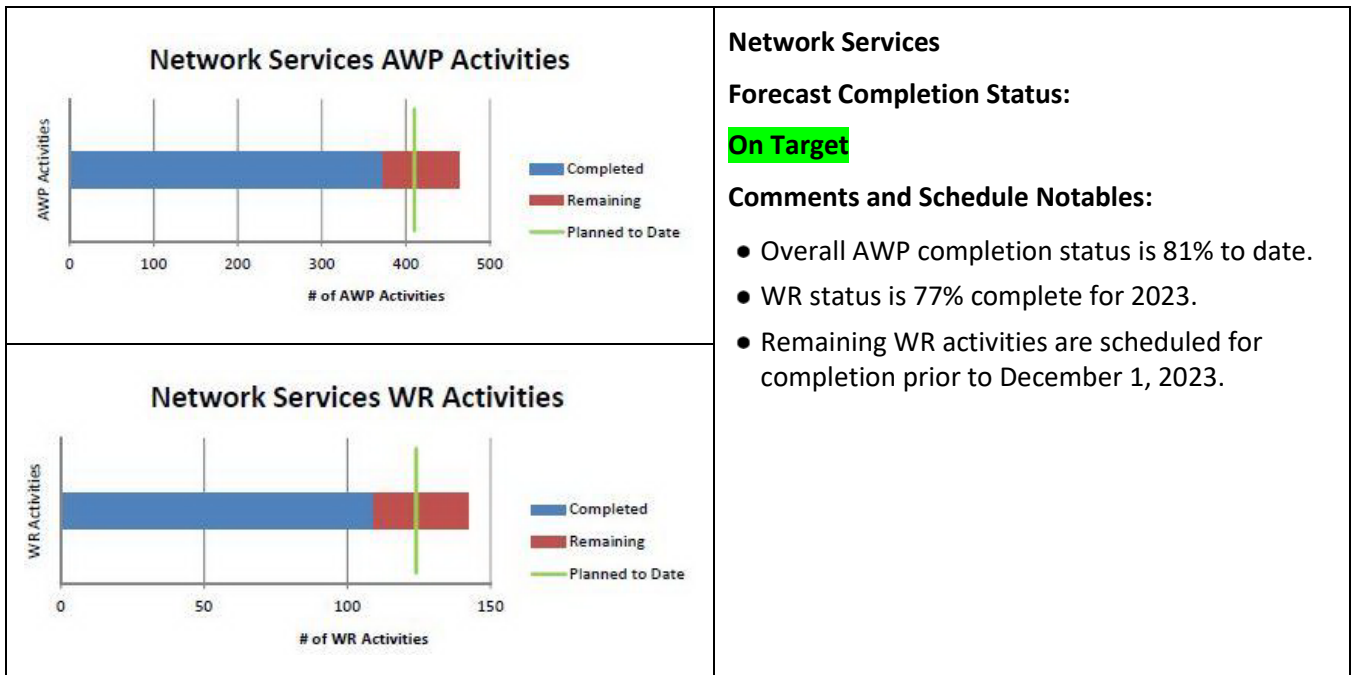
| | |
|--|---|
| <p style="text-align: center;">TROI Transmission AWP Activities</p> | <p>Transmission and Rural Operations Island (“TROI”) Transmission</p> <p>Forecast Completion Status: On Target</p> <p>Comments and Schedule Notables:</p> <ul style="list-style-type: none"> ● Overall AWP completion status is 89% to date. ● Planned WR status is 91% complete for 2023. ● Remaining WR activities are scheduled for completion prior to December 1, 2023. |
| <p style="text-align: center;">TROI Transmission WR Activities</p> | |





1 **2.5 Network Services**

- 2 The status of AWP and WR execution for Network Services is summarized in the following charts. All
 3 planned WR activities are scheduled for completion by December 1, 2023.



2.6 Muskrat Falls Assets

2.6.1 Transmission Assets

For the LIL, Labrador Transmission Assets and synchronous condensers at Soldiers Pond, the status of overall AWP completion is 66%,¹³ and planned WR activities are 64%¹⁴ complete to date for 2023.

Some low- and medium-risk work orders associated with the LIL high-voltage direct current (“HVdc”) and alternating current (“AC”) terminal stations have been deferred to 2024 as a result of the stop work order placed on the use of non-insulated aerial lifts by Service NL (Occupational Health and Safety). Hydro made use of insulated lifts that were available in other regions to complete the highest priority work and minimize the impact to WR.

2.6.2 Generation Assets

The status of the Muskrat Falls Hydroelectric Generating Facility (Units 1 to 4) overall AWP completion is 51%¹⁵ to date, and planned WR activities are 73%¹⁶ complete for 2023.

3.0 Status of Winter Readiness for Capital Projects

3.1 Regulated Hydro Capital Projects

The status of 2023 planned capital projects that include scope related to 2023–2024 WR for the Island Interconnected System and the Labrador Interconnected System is provided in Appendix A. Table 1 summarizes the status of the WR scope of these projects by asset category.

Table 1: Status of Capital Projects with WR Scope

| Asset Category | Complete as of | Incomplete, Expected | Incomplete, Expected | Total |
|------------------------|------------------|-----------------------------------|--------------------------------------|-----------|
| | November 1, 2023 | Completion by December 1, 2023 | Completion after December 1, 2023 | |
| Hydraulic Generation | 1 | 1 | 0 | 2 |
| Thermal Generation | 2 | 1 | 4 ¹⁷ | 7 |
| Gas Turbine Generation | 1 | 1 | 0 | 2 |
| Terminal Stations | 2 | 0 | 3 | 5 |
| Telecontrol | 1 | 0 | 0 | 1 |
| Total | 7 | 3 | 7 | 17 |

¹³ AWP activity status is as of September 29, 2023.

¹⁴ WR activity status is as of October 20, 2023.

¹⁵ AWP activity status is as of September 15, 2023.

¹⁶ WR activity status is as of October 20, 2023.

¹⁷ One of these four projects and programs is the Holyrood – Fuel Tank 1 Fuel Inspection and Refurbishment project, for which the expected completion date is to be determined, as discussed in Section 7.2.7.

1 As of November 1, 2023, the WR scope for 7 of the 17 capital projects and programs is complete, and
2 the WR scope for an additional 3 projects and programs is expected to be completed by
3 December 1, 2023. A portion of the WR scope within 7 projects and programs is expected to be
4 completed after December 1, 2023. The statuses of those 7 projects and programs are as follows:

5 **1) Holyrood – Overhaul Unit 2 Turbine and Valves Program**

6 The WR scope in this program is to overhaul the turbine and turbine valves, and to complete
7 electrical testing on the generator for Unit 2 at the Holyrood TGS.

- 8 • **Turbine Overhaul:** The planned overhaul work is complete; however, the planned turbine
9 rotor inspection at the original equipment manufacturer’s (“OEM”) shop identified cracking
10 on the L-1 blades on the Unit 2 turbine, resulting in the unanticipated requirement to
11 replace that set of blades. New blades have been ordered and will be installed at the OEM
12 shop prior to returning the turbine to the plant for installation and commissioning.
- 13 • **Turbine Valves Overhaul:** This activity is complete; final commissioning will occur during the
14 start up and return to service of Unit 2.
- 15 • **Generator Electrical Testing:** Testing is expected to be completed in January 2024 prior to
16 the start up and return to service of Unit 2.

17 The expected return to service date for this generating unit is mid-March 2024; the delay is a
18 result of the unanticipated requirement to replace the L-1 blades on the Unit 2 turbine as
19 discussed above.¹⁸

20 **2) Holyrood – Upgrade Unit 2 Turbine Controls Project**

21 The WR scope in this project is to replace the obsolete turbine control system hardware for
22 Unit 2 at the Holyrood TGS. The construction activity is substantially complete; final
23 commissioning will be completed during the start up and return to service of Unit 2, which is
24 delayed due to the aforementioned Overhaul Unit 2 Turbine and Valves Program.

25 **3) Holyrood – Overhaul Pumps**

26 The WR scope in this program is to overhaul the west boiler feedwater pump and the west
27 cooling water pump for Unit 2 at the Holyrood TGS. Construction activities for both pumps, and
28 final commissioning of the west cooling water pump, are expected to be completed by

¹⁸ Please refer to Section 7.2.4 for a summary of the risk and risk mitigation associated with this activity.

December 1, 2023. Final commissioning of the west boiler feedwater pump will be completed during the start up and return to service of Unit 2, which is delayed due to the aforementioned Overhaul Unit 2 Turbine and Valves Program.

4) Holyrood – Fuel Tank 1¹⁹ Fuel Inspection and Refurbishment Program

The WR scope in this program is to refurbish Fuel Tank 1. Construction activity was completed in 2023; however, during initial filling of Tank 1 following the work, a small leak was identified on the north side of the tank. The return to service date for Tank 1 cannot yet be determined; tank cleaning was required before an assessment could be made to determine the scope of repairs. The tank cleaning was completed in October and an assessment is in progress.²⁰

5) Various Locations – Refurbishment and Modernization of Power Transformers²¹

The WR scope in this program is to refurbish the tap changer for Transformer 1 (“T1”) at the St. Anthony Diesel Plant. Planned refurbishments were completed in June 2023, but an additional issue was discovered with the tap changer that prevented it from being placed back into service. Further work was completed by the OEM in late July 2023; however, the cause of the issue was unable to be determined. Additional testing is planned for November 2023 to determine the next course of action; however, it is expected that refurbishment work could surpass December 1, 2023.²²

6) Various Locations – Upgrade Circuit Breakers Program

The WR scope in this program is to replace five circuit breakers and refurbish three circuit breakers. The status of this work is as follows:

- 62.5% of the WR scope of this program is complete;
- 12.5% of the WR scope of this program is expected to be complete by December 1, 2023; and
- 25% of the WR scope of this program is expected to be completed after December 1, 2023, which includes the following work:
 - Replacement of Bay d'Espoir Circuit Breaker B1T1; and

¹⁹ This was originally proposed as Fuel Tank 2, but changed to Fuel Tank 1 in “Request for Change or Modification to Board Order No. P.U. 24(2022) – Approval of Various Supplemental Capital Projects at the Holyrood Thermal Generation Station,” Newfoundland and Labrador Hydro, September 26, 2022 and approved in *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 30(2022), October 7, 2022.

²⁰ Please refer to Section 7.2.7 for a summary of the risk and risk mitigation associated with Fuel Tank 1.

²¹ This program is part of the Terminal Station Renewal Program (2023–2024).

²² Please refer to 7.5.2 for a summary of the risk and risk mitigation associated with this transformer.

- Refurbishment of Roddickton Wood Chip Circuit Breaker B1L57.

The Bay d'Espoir Circuit Breaker B1T1 replacement has carried over to 2024 due to restricted generating unit outage availability²³ prior to the start of the WR period.²⁴

The refurbishment of Roddickton Wood Chip Circuit Breaker B1L57 commenced in July 2023; however, its completion is delayed due to issues discovered with the circuit breaker during the refurbishment. Addressing these issues requires the replacement of parts that neither Hydro nor the OEM have in stock; the parts have been ordered and the refurbishment completion date is estimated to be December 9, 2023.²⁵

7) Various Locations – Replace Disconnect Switches²⁶

The WR scope in this program is to replace two disconnect switches. One of these replacements is complete, while the other, the replacement of Bay d'Espoir Disconnect Switch B1B10-2, is expected to be completed after December 1, 2023. This work has carried over to 2024 due to late delivery of the new disconnect switch, which delayed construction to the fall of 2023, and subsequent restricted generating unit outage availability²⁷ prior to the start of the WR period.²⁸

3.2 Muskrat Falls Assets Capital Projects

3.2.1 Transmission Assets

1) Various Locations – Replace Turnbuckles and Install Airflow Spoilers Program

With regards to capital programs for transmission assets impacting WR, Hydro is actively addressing the recommendations resulting from four types of failures last winter on different sections of the LIL. These failures were localized issues each affecting specific transmission line components in local areas.²⁹ The compounding effect of these failures has had a relatively minor impact on LIL key reliability metrics and Hydro has taken proactive steps to mitigate the risk of customer and/or system impact resulting from similar failures in the upcoming winter season.

²³ Restricted unit outage availability is primarily a result of the Bay d'Espoir Transformer 6 ("T6") failure, which resulted in subsequent delays in other unit outages.

²⁴ Please refer to Section 7.1.3 for a summary of the risk and risk mitigation associated with Bay d'Espoir circuit breakers.

²⁵ Please refer to Section 7.5.3 for a summary of the risk and risk mitigation associated with this circuit breaker.

²⁶ This project is part of the Terminal Station Refurbishment and Modernization Project (2022–2023).

²⁷ Restricted unit outage availability is primarily a result of the Bay d'Espoir T6 failure, which resulted in subsequent delays in other unit outages.

²⁸ Please refer to Section 7.5.1 for a summary of the risk and risk mitigation associated with this circuit breaker.

²⁹ "Reliability and Resource Adequacy Review – Summary of Findings from L3501/2 Failure Investigations," Newfoundland and Labrador Hydro, October 4, 2023.

1 In preparation for the upcoming winter season, Hydro has advanced its capital programs to
2 replace turnbuckles and install airflow spoilers to reduce galloping, prioritizing the high-priority
3 areas of the LIL.³⁰ Hydro has completed all planned year one turnbuckle replacements and
4 installed airflow spoilers in the high-priority zones.³¹ As the capital project for turnbuckle
5 replacement is a four-year project, there is some residual risk of failure on the remaining scope;
6 however, Hydro has mitigated the risk of a prolonged customer outage as a result of turnbuckle
7 failures by focusing on the priority areas which represent the most remote locations on the LIL
8 where galloping has been observed.

9 The remaining issues were related to communications and electrode conductor systems, and
10 similar damage in the future would not cause a prolonged power interruption. To address these
11 issues, Hydro has increased real-time monitoring of the ice conditions along the transmission
12 line by installing a weather station in the Labrador Straits, and has also increased line patrols
13 and the collection of field observation data, as maintenance activities are performed.

14 **3.2.2 Generation Assets**

15 At this time, there are no capital programs impacting WR related to the Muskrat Falls Hydroelectric
16 Generating Facility.

17 **4.0 Plant and Equipment Testing**

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

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

³⁰ Based on the outcome of its galloping study, Hydro is installing airflow spoilers on priority areas of the LIL to control galloping and mitigate further damage to turnbuckles.

³¹ The total percent complete of the turnbuckles and airflow spoiler project scopes are 26% and 40%, respectively.

1 **4.1 Thermal Generation**

2 WR testing of generating equipment in thermal generation is focused primarily around annual unit
3 maintenance outages. Following these annual outages, units are run up and synchronized and all
4 systems are verified before the unit’s operating status is determined and preparedness is confirmed.
5 Unit load tests are performed at this time as well; however, all required load testing is not completed
6 until later in the fall when system conditions allow. The WR testing protocol includes the testing of
7 appropriate Balance of Plant components, including the black start diesel generators.³² The current
8 status of equipment/plant testing for thermal generation is indicated in Appendix B.

9 Unit 3 has been in operation in generation mode since October 28, 2023; as such, many of the start-up
10 checks for Unit 3 and Balance of Plant equipment have been completed, but will be reflected in the
11 December 2023 filing of the 2023–2024 Winter Readiness Planning Report. The remainder of these
12 checks will be completed when the unit is operational in generation mode. This unit is derated to
13 50 MW due to a damaged east forced draft fan motor;³³ load constraint issues are expected to be
14 resolved prior to December 1, 2023.

15 Unit 1 came online following its annual maintenance outage on October 8, 2023, and is available up to
16 122 MW. As indicated in Appendix B, the majority of checks are complete on this unit. The remainder
17 will be completed during operation when systems are commissioned online, all burners in the Unit 1
18 boiler are made available,³⁴ and a full load test can be completed.

19 Unit 2 will remain on a forced extension of the annual outage until March 2024 due to the required
20 replacement of the L-1 blades on the Unit 2 turbine. As indicated in Appendix B, the start-up checks
21 have not been completed on this unit due to the extended outage. The start-up checks will commence
22 in preparation to return the unit to service, with the remainder completed when the unit is started up
23 for system generation needs.

24 With the exception of Unit 2, Hydro does not anticipate any concerns regarding completion of the start-
25 up checks for all units by December 1, 2023.

³² 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.

³³ Please refer to Section 7.2.9 for additional information on this issue.

³⁴ Please refer to Section 7.2.10 for additional information on this issue.

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 2.2.

9 The Happy Valley GT was black started several times in 2023 as a result of unplanned line outages.
10 Hydro anticipates that completion of planned black start tests for the Hardwoods GT and Holyrood GT
11 will occur before December 1, 2023 during upcoming planned maintenance outages and planned
12 monthly operational testing. Hydro does not anticipate completion of black start testing of the
13 Stephenville GT prior to December 1, 2023 due to the current alternator cooling fan repair schedule.

14 Operational testing of all gas turbines has been carried out throughout the year as planned and all WR
15 capital upgrades and refurbishments have been or will be completed by December 1, 2023.

16 **4.3 Hydraulic Generation**

17 WR testing of generating equipment in hydraulic generation is focused primarily around annual unit
18 maintenance outages. Following these annual outages, units are run up and synchronized and all
19 systems are verified before the unit’s operating status is determined and preparedness is confirmed.
20 Unit load tests are also performed as system conditions permit. The WR testing protocol includes the
21 testing of appropriate Balance of Plant components.

22 The status of equipment and plant testing for hydraulic generation is indicated in Appendix C. All
23 inspection and testing of hydraulic generating facilities is scheduled for completion by
24 December 1, 2023.

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.”³⁵ 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,
10 refurbishment, and replacement criteria used by Hydro for terminal station assets. Version 7 of
11 “Terminal Station Asset Management Overview” was included in the 2024 Capital Budget Overview,
12 filed as part of Hydro’s 2024 CBA.³⁶

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 provided in Section 2.4. All WR activities are planned for
24 completion by December 1, 2023.

³⁵ “Transmission System and Terminal Station Asset Management Execution Report,” Newfoundland and Labrador Hydro, April 25, 2022.

³⁶ “2024 Capital Budget Application,” Newfoundland and Labrador Hydro, rev. September 21, 2023 (originally filed July 12, 2023), sch. 1, app. F.

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 2.5.
 4 All WR activities are planned for completion by December 1, 2023.

5 5.0 Generation Outage Schedule

6 As reflected in Section 2.0, a number of generating unit annual maintenance programs have been
 7 completed across the fleet and Hydro plans to complete annual maintenance on all of its units in
 8 advance of the winter season, with the exception of Holyrood TGS Unit 2, Stephenville GT, Muskrat Falls
 9 Unit 3, and the LIL. Given that the LIL has been commissioned, its maximum contribution at peak to the
 10 Island system is now included in Hydro’s Island reserve calculations.³⁷

11 Since the previous report, maintenance programs have been completed on Bay d’Espoir Unit 7,
 12 Hardwoods GT, Holyrood GT and Muskrat Falls Generating Facility Units 1 and 2. At this time,
 13 maintenance activities are continuing on Upper Salmon, Bay d’Espoir Units 1 and 2, Star Lake, and
 14 Muskrat Falls Unit 3. Annual maintenance activities remain to be completed on Hinds Lake.

15 Currently, Holyrood Unit 1 is available up to 122 MW;³⁸ it is anticipated that all load constraint issues will
 16 be resolved prior to December 1, 2023.³⁹ Holyrood Unit 3 was placed online in generation mode on
 17 October 28, 2023; this unit is derated to 50 MW due to a damaged east forced draft fan motor.⁴⁰ Load
 18 constraint issues are expected to be resolved by the end of November, 2023. Additionally, the return to
 19 service of Bay d’Espoir Units 1 and 2 has been delayed to November 11, 2023 as a higher percentage of
 20 crack indications which require refurbishment was discovered during penstock inspections.⁴¹

21 The following assets have planned outages extending beyond December 1, 2023:

- 22 • Muskrat Falls Unit 3: The planned outage of this unit from October 31–December 5, 2023 does
 23 not impact WR, as energy from Muskrat Units 1, 2, and 4 is available to the Island
 24 Interconnected System via the LIL.

³⁷ The maximum LIL contribution to Island Reserves at peak is a function of Island load, the LIL operating mode (i.e., monopole or bipole), the number of available Muskrat Falls units and contractual Maritime Link exports. It is measured at Soldier’s Pond.

³⁸ At time of filing, Unit 1 is currently on a forced outage to repair an economizer piping leak, and is planned to return to service on November 12, 2023. Hydro does not consider this issue to be a risk for the 2023–2024 WR period.

³⁹ Please refer to Section 7.2.10 for additional information on this issue.

⁴⁰ Please refer to Section 7.2.9 for additional information on this issue.

⁴¹ Please refer to Section 7.1.2 for additional information on this issue.

- LIL: The planned outage on the LIL from late November to mid December 2023⁴² is required to replace four DC current transformers (“DCCT”).⁴³

The following generating units have unplanned outages extending beyond December 1, 2023:

- Holyrood TGS Unit 2: This unit is currently unavailable, and will not return to service for the remainder of 2023 due to the unexpected replacement of the L-1 blades on the Unit 2 turbine. The return to service date for this unit is tentatively scheduled for mid-March 2024 due to lead times for specialized parts and services.
- Stephenville GT: This unit is currently unavailable due to alternator cooling fan repair, and is not expected to return to service until mid- to late-January 2024 due to lead times for specialized repair services.

The Master Generation Outage Schedule for October 1, 2023–March 31, 2024 is provided as Appendix D.

6.0 Critical Spares

6.1 Overview

In 2014, Hydro completed extensive reviews of its critical spares requirements in all three areas of its generation operations: hydraulic generation, thermal generation (Holyrood TGS), and the gas turbines in Hardwoods and Stephenville. These reviews included a detailed analysis of asset criticality and spare parts in reference to several factors, including the impact on generation reliability and the availability of replacement parts. A second phase of spares analysis was completed in 2017 for Hydro’s hydraulic generating facilities and 569 additional items were added to the critical spares list. In 2021, Hydro included details on its critical spares status for the Happy Valley GT.

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

⁴² For the duration of the outage period, the LIL will be on monopole outages with intermittent bipole outages.

⁴³ The DCCT replacement is necessary to ensure LIL reliability through the winter period, as discussed in Section 7.6.1.

1 A full update on the status of Hydro’s critical spares, as of October 31, 2023, for the 2023–2024 winter
2 season is provided in Appendices E through G. This update includes a detailed listing of critical spares
3 requirements for each area of generation operations and the status of each item.

4 **6.2 2023–2024 Winter Season**

5 Hydro’s critical spares status leading into the 2023–2024 winter season is strong. For thermal generation
6 (Appendix E), gas turbines (Appendix F), and hydraulic generation (Appendix G), 2,521 critical spares
7 have been identified by Hydro’s three generation operations areas. Of this total, 2,514 items are in stock
8 (>99%) and 7 items are in the procurement process.

9 **6.2.1 Thermal Generation**

10 As summarized in Table 2, there are six critical spare stock items currently not in stock. All of these items
11 are on order through Hydro’s Supply Chain Department and are in varying stages of procurement. One
12 item is being refurbished at a specialized maintenance facility out of province, and is expected to be
13 returned to site by December 13, 2023.⁴⁴ A Purchase Order has been issued for one item, with an
14 expected delivery date of November 22, 2023. A Purchase Order has been issued for the final item with
15 an expected delivery date of November 14, 2023.⁴⁵ An update on all outstanding items will be provided
16 in the December 2023 filing of the 2023–2024 Winter Readiness Planning Report.

17 The complete list of critical spares for the Holyrood TGS is provided in Appendix E. This list contains
18 three inventory status descriptions:

- 19 **1) In Stock:** Part is in inventory;
- 20 **2) Non-Stock:** Part is critical but it is not necessary to keep it in stock (e.g., because the part is
21 readily available locally⁴⁶); and
- 22 **3) On Order:** Part is required to be in stock but is not.

⁴⁴ This item is a spare component for the Stage 1 (Unit 1 and 2) boiler feed pumps, which covers four operating pumps. While failure of these pumps is unlikely, it would result in derating of the affected unit to approximately 50% load until the refurbishment can be completed and installed.

⁴⁵ This item is listed as a critical spare for four different components. For reporting purposes, this is counted as four items.

⁴⁶ For the Non-Stock parts, an explanation of the reason why it is Non-Stock is provided in the Notes column in Appendix E.

Table 2: Critical Spares for Thermal Generation

| Status | Quantity |
|------------------|-----------------|
| In Stock | 752 |
| On Order | 6 |
| Not Yet On Order | 0 |
| Total | 758 |

1 **6.2.2 Gas Turbines**

2 Table 3 summarizes the status of spare parts for the Hardwoods GT, Stephenville GT, Holyrood GT, and
 3 Happy Valley GT and Appendix F contains detailed lists for each gas turbine.

Table 3: Critical Spares for Gas Turbine Generation⁴⁷

| Status | Hardwoods/ Stephenville | Holyrood | Happy Valley | Total | |
|------------------|------------------------------------|-----------------|---------------------|--------------|---------------|
| In Stock | 90 | 403 | 53 | 546 | 100.0% |
| On Order | 0 | 0 | 0 | 0 | 0.0% |
| Not Yet On Order | 0 | 0 | 0 | 0 | 0.0% |
| Total | 90 | 403 | 53 | 546 | 100.0% |

4 Hydro has utilized a number of its spare parts to address deficiencies found during the 2023
 5 maintenance season. These items have been identified and the spare components have been
 6 replenished. Fall maintenance outages may result in the requirement to replenish additional spare
 7 components.

8 **6.2.3 Hydraulic Generation**

9 Table 4 provides an overview of the critical spares program for hydraulic generation and Appendix G
 10 contains detailed spares lists for the various facilities.

Table 4: Critical Spares for Hydraulic Generation

| Status | Quantity |
|------------------|-----------------|
| In Stock | 1,216 |
| On Order | 1 |
| Not Yet On Order | 0 |
| Total | 1,217 |

⁴⁷ Items listed as On Order are expected to be in stock prior to December 1, 2023.

1 The Upper Salmon T2 spare transformer remains outstanding but does not present a risk to WR.⁴⁸ This
2 spare transformer was delivered to Upper Salmon in August 2021 from a factory in Turkey; however, the
3 unit was not accepted by Hydro due to unit damage most likely caused by an impact event that occurred
4 during shipping from the factory.⁴⁹ The transformer was returned to Turkey in 2022 to be repaired and
5 tested; however, challenges have been encountered with FAT⁵⁰ throughout 2023. Hydro continues to
6 work with the supplier to expedite repairs and deliver the transformer back to Upper Salmon and
7 expects the transformer to be returned to Upper Salmon in the first quarter of 2024.

8 **7.0 Risk and Risk Mitigation**

9 Hydro’s readiness planning for the 2023–2024 winter season is progressing towards completion. Hydro
10 anticipates that all regulated generating assets will be available by December 1, 2023, with the
11 exception of Unit 2 at the Holyrood TGS, and the Stephenville GT. Additionally, Muskrat Falls Unit 3 and
12 the LIL have planned outages extending beyond December 1, 2023. Potential system risks and
13 associated mitigation plans are provided in the sections that follow.

14 **7.1 Bay d’Espoir Operations**

15 Bay d’Espoir generation is expected to be fully available by December 1, 2023. Three risks to winter
16 readiness and/or reliable operations are identified in Sections 7.1.1 to 7.1.3.

17 **7.1.1 Upper Salmon Rotor Key Cracking and Rotor Rim Guidance Block Defects**

18 In 2021, Hydro completed replacement of all rotor rim guidance blocks on the Upper Salmon unit
19 following the discovery of cracking through the completion of non-destructive testing (“NDT”) during
20 the 2021 annual maintenance outage, as previously reported. In consultation with the OEM, Hydro
21 performed regularly scheduled NDT inspections throughout 2022 and part of 2023.

22 An inspection in March 2023 revealed rotor rim lamination failures and guidance block cracking which,
23 following consultation with the OEM, resulted in the recommendation that the unit could no longer
24 support the safe and reliable generation of electricity. The Upper Salmon Unit was subsequently

⁴⁸ The existing transformer is in good condition. A failure of T2 would not impact available generation from Upper Salmon; it provides power to some upcountry structures for which there are other contingencies.

⁴⁹ The unit was initially shipped off site to a manufacturer-affiliated repair facility in the United States of America (“USA”) for inspection, testing and repair.

⁵⁰ Factory Acceptance Testing (“FAT”).

1 removed from service, upon which Hydro proceeded with capital life extension activities⁵¹ required to
2 remediate the issue. Since the commencement of supplemental activities, in consultation with the OEM,
3 Hydro has expanded the project scope to include the required corrections to the alignment of the
4 turbine and generator assembly. The construction on the unit commenced in the second quarter of 2023
5 and is planned for completion prior to the WR target date of December 1, 2023.

6 **7.1.2 Bay d’Espoir Penstocks**

7 As a result of previous ruptures of the Bay d’Espoir Penstocks, with the most recent being September
8 2019, Hydro has continued to complete annual inspections of Bay d’Espoir Penstocks 1, 2, and 3 to
9 monitor penstock condition and ensure reliability in the short term.

10 Penstock 3 was inspected in May 2023; during the inspection, nine new weld indications were
11 discovered in areas which had not been previously repaired. Weld repairs were completed and the
12 penstock was returned to service. The inspection of Penstock 2 was also completed in May 2023. During
13 the inspection, three new weld indications were discovered in areas which had not been previously
14 repaired. Weld repairs were completed and the penstock was returned to service.

15 The inspection of Penstock 1 commenced on October 17, 2023. During the initial inspection, 19 weld
16 indications were found after testing approximately 30 cans⁵² in the area between Can 1 and Can 160.
17 This number represented a higher percentage of indications than was typically found in this area in the
18 past; as a result, it was recommended to expand the inspection scope to include additional cans in the
19 same area. The second round of inspections and testing found 14 new weld indications in 30 cans, which
20 was similar to the results from the initial inspection. Based on these results, it was recommended to
21 inspect all remaining cans in the same area. In parallel with these inspections, a contractor has been
22 mobilized to the site to refurbish all welds which exhibited indications. Refurbishment activities are
23 planned for completion by mid-November 2023.

24 Hydro has used the information obtained through the inspection and refurbishment process to inform
25 its long-term plan for the penstocks; the details of which were filed in a supplemental capital application

⁵¹ “Application for Approval for Rotor Rim Shrinking and Stator Recentering at the Upper Salmon Hydroelectric Generating Station,” Newfoundland and Labrador Hydro, April 26, 2022, approved by the Board in *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 18(2022), Board or Commissioners of Public Utilities, May 20, 2022.

⁵² Each penstock is constructed of many cans, each of which were constructed individually by welding two halves together horizontally along the longitudinal axis of the can, then welded end-on-end using a circumferential weld.

1 to the Board on December 7, 2022,⁵³ which has since been approved.⁵⁴ Although Hydro has mitigated
2 risk of failure to the extent possible, there is residual risk that a failure could occur before further life
3 extension work is completed. Modifications remain in place to the Automatic Generator Control
4 application in Hydro’s Energy Management System, designed to limit the amount of rough zone
5 operation, as well as the more prescriptive operating regime for Units 1 and 2.⁵⁵

6 Hydro has estimated a 13- to 23-day repair timeline depending on circumstances, should a new failure
7 occur, and has continued to take proactive measures to reduce generating unit downtime in the event
8 of failure. In order to minimize response time in the event of a penstock rupture, Hydro has maintained
9 its inventory of pre-rolled steel plate, consulted with third-party contractors to confirm priority
10 availability of local welding resources, and will ensure heavy equipment availability and readiness to
11 avoid potential transportation issues during winter months when access roads can be snow covered and
12 icy.

13 **7.1.3 Bay d’Espoir Terminal Station Circuit Breaker Failures**

14 Since October 2018, Hydro has experienced four failures of 230 kV General Electric (“GE”) dead tank
15 circuit breakers at the Bay d’Espoir Terminal Station.⁵⁶ Hydro has developed plans to minimize outage
16 duration in the event of another failure by ensuring the availability of a spare breaker and spare breaker
17 phases. In the event of a failure, the associated outage duration to complete repairs is estimated to be
18 three to four days. Hydro is also continuing with its new generator operating instructions, supplemented
19 with additional breaker protection, to reduce the risk of failure.

20 Hydro has developed a plan for replacement of the five GE generator breakers installed at Bay d’Espoir.
21 Hydro included the replacement of three of the Bay d’Espoir Terminal Station unit circuit breakers in its
22 Replace Circuit Breaker (2022–2023) project,⁵⁷ with one originally planned for installation in 2022, and

⁵³ “Application for Approval of Capital Expenditures for Section Replacement and Weld Refurbishment for Bay d’Espoir Hydroelectric Generating Facility Penstock 1,” Newfoundland and Labrador Hydro, December 7, 2022.

⁵⁴ *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 6(2023), Board or Commissioners of Public Utilities, April 12, 2023.

⁵⁵ Under this operating regime, once dispatched, Units 1 and 2 are limited to a minimum loading of 50 MW and are not cycled or shut down as part of normal system operations.

⁵⁶ “2022 Capital Budget Application,” Newfoundland and Labrador Hydro, rev. September 17, 2021 (originally filed August 2, 2021), vol. II, sch. 8, tab 18, att. 1.

⁵⁷ “2022 Capital Budget Application,” Newfoundland and Labrador Hydro, rev. September 17, 2021 (originally filed August 2, 2021), vol. II, sch. 8, tab 18.

1 two in 2023. Hydro included the replacement of the remaining two unit circuit breakers in its Circuit
2 Breakers Renewal Program 2023–2024⁵⁸ with installation planned for 2024.

3 Two of these five unit circuit breakers have been installed so far.⁵⁹ Subject to unit outage availability,
4 Hydro plans to install the final three breakers in 2024. The circuit breaker for Unit 1 was planned for
5 installation in 2023 but has carried over to 2024; the circuit breakers for Unit 4 and Unit 6 remain
6 planned for 2024. The Unit 1 circuit breaker replacement has carried over to 2024 due to uncertainty in
7 unit outage availability prior to the start of the WR period, primarily due to the Bay d’Espoir T6 failure,
8 which resulted in delays in other unit outages.

9 While one of the 2023 circuit breaker replacements has carried over to 2024, there is no change to the
10 risk of failure. Hydro’s mitigation plan remains in place to ensure a limited impact to the system should a
11 failure occur.

12 **7.2 Holyrood Thermal Generating Station Operations**

13 Hydro completed a Condition Assessment and Life Extension Study of the Holyrood TGS in 2021, and
14 concluded that, as per the 2022 update to the Reliability and Resource Adequacy Study,⁶⁰ the
15 Holyrood TGS shall remain available for a “Bridging Period”⁶¹ until 2030, or until such time that sufficient
16 alternative generation is commissioned, adequate performance of the LIL is proven, and generation
17 reserves are met. It is recognized that the majority of the Holyrood TGS assets are 40 to 50 years old;
18 increased age can result in an increased risk of in-service failures. Recent age-related failures have been
19 experienced on the boilers, turbines, and electrical equipment at the Holyrood TGS. Hydro mitigates this
20 risk through regular overhaul programs on major components including the boilers, turbines,
21 generators, major pumps, loading arms, increased condition assessment work, and a robust critical
22 spares program.

23 Hydro anticipates that Units 1 and 3 at the Holyrood TGS will be fully available by December 1, 2023. As
24 discussed in Section 7.2.4, Unit 2’s return to service is delayed until March 2024 due to the required

⁵⁸ “2023 Capital Budget Application,” Newfoundland and Labrador Hydro, July 13, 2022, vol. II, sch. 6, prog. 1.

⁵⁹ The circuit breakers for Unit 3 and Unit 5 are installed.

⁶⁰ “Reliability and Resource Adequacy Study – 2022 Update,” Newfoundland and Labrador Hydro, October 3, 2022.

⁶¹ Hydro considers the Bridging Period to be from 2023 to 2030. During the Bridging Period, the system would rely primarily on existing sources of generation capacity to maintain reliability while new generation capacity is being built. The primary, readily available supply options in this period are extending the retirements of the Holyrood TGS and the Hardwoods GT until their capacities can be adequately replaced.

1 replacement of the L-1 blades. Ten items influencing WR and/or reliable operations are identified in
2 Sections 7.2.1 to 7.2.10.

3 **7.2.1 Variable Frequency Drives**

4 Variable frequency drives (“VFD”) on the Holyrood TGS units’ forced draft fans present a risk for forced
5 outages. Since they were installed approximately eight years ago, they have been prone to cause unit
6 trips due to failures of power cells, an internal component of the drives. In 2021, the VFDs on Unit 3
7 were bypassed, eliminating the risk of a Unit 3 trip due to VFD failures. Unit 1 and Unit 2 continued to
8 operate on VFD control. During the 2022 outage season, the Unit 2 VFDs were also bypassed. Final
9 commissioning of this work was successfully completed when the unit was returned to service on
10 October 30, 2022. Hydro plans to bypass the Unit 1 VFDs in 2024. With the elimination of the VFDs on
11 Unit 3 and now Unit 2, Hydro has a good supply of spare power cells to support operation of Unit 1.

12 **7.2.2 Unit 3 Steam Chest Crack**

13 Hydro has been monitoring a crack in the Unit 3 turbine steam chest since 1998. A repair completed by
14 the OEM in 2001 was expected to prevent further crack growth for approximately 15 to 25 years. In
15 2019, some growth was observed, and a study completed by the OEM in February 2023 recommended
16 re-inspection of the crack after nine start-stop cycles. As the 2023 inspection found no crack growth, the
17 unit is cleared for operation for the 2023–2024 winter. Should stop-start cycles be kept within the
18 normal range for this unit, no further inspection of the crack will be required until summer 2024.⁶²

19 **7.2.3 Unit Boiler Tubes**

20 Each of the three thermal generating units at the Holyrood TGS has a boiler that contains tubes, the
21 failure of which are a common issue in thermal power plants.⁶³ To mitigate the possibility of tube
22 failures, Hydro conducts a thorough annual tube inspection and test program, which was executed
23 during the 2023 annual outage season, and is scheduled to reoccur in 2024. Hydro has determined that
24 the boiler tube sections as a whole are in good condition; however, tube failures continue to pose a risk.
25 Hydro maintains a thorough selection of spare tube material and a contract with an experienced boiler
26 contractor for the provision of emergency repairs in the event of tube failures.

⁶² It is highly unlikely that the number of start-stop cycles will surpass the normal range for this unit; however, if they do, another inspection of the crack will be required, resulting in a unit outage of approximately two to three weeks.

⁶³ Boiler tube failures are a common issue in thermal power plants due to the inherent design, which requires relatively thin walls for heat transfer to be subjected to high temperatures and stresses.

1 A tube failure occurred on Unit 3 at the Holyrood TGS in February 2023. A leak developed inside the
2 furnace in a lower water wall tube, where the tube attaches to the side wall tubes and the lower header.
3 The failed section of tube was subsequently replaced by the boiler service contractor, using new tube
4 material drawn from inventory. The unit was offline for 12 days, from February 6 to 18, 2023, to
5 complete the repair. The failed tube section was sent to a metallurgical lab for failure analysis to
6 determine if there are any specific remedial actions to be taken. The results found the primary and
7 secondary cause of failure was thermal fatigue and corrosion fatigue, respectively. Based on
8 recommendations from the failure analysis and the planned 2023 boiler condition assessment, the other
9 three corner tubes were inspected. Three sections of tube were identified for replacement, which has
10 since been completed.

11 **7.2.4 Unit 1 and 2 Turbine Last Stage Blades**

12 During the major overhaul of the Unit 1 steam turbine in 2021, a crack was discovered in one of the L-0
13 blades on the turbine rotor. The OEM, GE, determined that this crack was an indicator that the L-0
14 blades are approaching end of life and that further cracking would be expected. GE successfully
15 completed a weld repair of the crack as a short-term fix to return the unit to service. There were no
16 plans to replace the L-0 blades during the 2021 overhaul due to no known issues which would require
17 replacement, and no spare set of blades available.⁶⁴

18 Hydro completed a rotor in-situ inspection of the L-0 blades in 2022, which confirmed no further
19 cracking. Due to similar age and operating history, GE identified both Unit 1 and Unit 2 as being at risk of
20 L-0 blade failure. Rotor in-situ inspections were completed during spring 2023 to determine which unit
21 was at a higher risk of failure. These inspections found Unit 2 to be at higher risk, as three cracks were
22 found on Unit 2, and none on Unit 1.

23 In 2023, Hydro proceeded with the approved project to overhaul the Unit 2 turbine and replace the L-0
24 blades on this unit at the GE shop in the USA.⁶⁵ Subsequent turbine rotor inspection at the GE shop
25 identified additional and unexpected cracking on the L-1 blades, resulting in the required replacement of

⁶⁴ It is not uncommon to be without a spare set of L-0 blades due to the significant cost associated with the purchase of one set. A spare set of LSBs were ordered when it was determined that Holyrood TGS operation would be extended; this set was delivered in May 2023 and are currently being installed in the Unit 2 turbine rotor.

⁶⁵ Approved in *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 17(2022), Board of Commissioners of Public Utilities, May 20, 2022.

1 that set of blades. As a result of the additional work and required component manufacturing, Unit 2 will
2 not return to service until March 2024.⁶⁶

3 Hydro submitted a supplemental capital project application to purchase a second set of L-0 blades for
4 Unit 1, which are expected to arrive in spring 2024.⁶⁷ Unit 1 came online for the 2023–2024 operating
5 season on October 8, 2023 following successful inspection. The Unit 1 L-0 blades will be replaced in 2024
6 during the summer outage season with potential further repairs required upon inspection.⁶⁸

7 **7.2.5 Unit 1 Electrical Issues**

8 On February 3, 2023, Hydro experienced a failure of the phase C bottom potential transformer (“PT”) on
9 Unit 1. After replacement, issues continued, with a series of voltage fluctuations and subsequent PT
10 failures. The issues were investigated to establish the root cause, and as a result, Unit 1 was either
11 offline, or held at 70 MW until March 15, 2023.

12 The investigation identified a number of problems; the first finding was that a 180Ω resistor had a crack
13 in the porcelain, causing the resistance to fluctuate. A direct replacement for the resistor was not
14 available as it is no longer manufactured due to the age of the equipment, and a temporary resistor was
15 put in place on the secondary of the PTs.⁶⁹ Further testing found a failed resistor in the secondary of the
16 generator grounding transformer, which was replaced with a temporary resistor as a direct replacement
17 could not be sourced with a reasonable lead time.⁷⁰

18 Corrective actions have been completed prior to bringing Unit 1 back online, including replacing the
19 temporary resistors on the secondary of the PTs and the grounding transformer with proper industrial
20 resistors. The PM program on the secondary resistors, grounding transformer and PT cabinet have also
21 been reviewed and updated with additional testing and frequency for Unit 1 and Unit 2.⁷¹

⁶⁶ Until the work is complete, there remains a risk of further delay related to global supply chains and repair facility workloads.

⁶⁷ Approved in *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 12(2023), Board of Commissioners of Public Utilities, May 5, 2023.

⁶⁸ There remains a risk that the Unit 1 rotor will also require replacement of the second-last stage blades. Hydro plans to purchase spare blades within the Thermal In-Service Failures program to expedite replacement should it be deemed necessary.

⁶⁹ The cracked 180Ω resistor was in series with the primary of the PTs. The purpose of this resistor is to mitigate the effect of ferroresonance, which can lead to voltage fluctuations and subsequently the failure of the PTs.

⁷⁰ Testing showed a voltage signal that followed a pattern typical of a floating ground reference, which upon further investigation identified the failed resistor.

⁷¹ Unit 3 is a different generator design with a different electrical arrangement; however, the Unit 3 PTs were replaced in 2023. The primary resistors and the grounding transformer resistor on Unit 2 have been inspected with no findings; in the unlikely event of a failure on Unit 2, new spare resistors are available on site for installation.

1 **7.2.6 Air Compressors**

2 As a result of recent failures, Hydro reported in its October 2023 filing of the 2023–2024 Winter
3 Readiness Planning Report that it had one of its three air compressors available for service for the 2023–
4 2024 operating season. Since that time, repair work has been completed on one of these compressors,
5 meaning that Hydro now has two air compressors available for service.

6 In order to supply the necessary compressed air to the various systems for which it is required, and
7 provide system redundancy, Hydro has secured a 375 CFM⁷² and 900 CFM portable air compressor to
8 temporarily connect to the system.⁷³ The portable air compressors create minimal risk to operational
9 reliability, but are not ideal for long-term use. These units will stay on site and in service, as required,
10 until the necessary repairs are completed on the remaining compressor, which is expected to be after
11 the 2023–2024 operating season.

12 **7.2.7 Fuel Tank 1 Inspection and Refurbishment**

13 In the early morning on September 14, 2023, as crews were transferring oil from the tanker to Tank 1 at
14 Holyrood TGS, a small leak was identified on Tank 1. Once containment was complete, offloading
15 recommenced, with the fuel oil being pumped to Tanks 2, 3 and 4.⁷⁴ Holyrood TGS is a three-tank
16 operation, and Hydro must utilize Tank 2 to facilitate repairs to Tank 1 and to ensure adequate fuel
17 supply for this winter. The utilization of Tank 2 is an emergency measure, taken after consultations with
18 stakeholders. Hydro is actively working to execute the repair and return to service of Tank 1⁷⁵ to ensure
19 it is available for future fuel shipments, upon which Hydro will proceed with plans to retire Tank 2.⁷⁶
20 Hydro has taken all practical measures to mitigate risk, to ensure reliable service to customers this
21 winter.

⁷² Cubic feet per minute (“CFM”).

⁷³ Hydro reported in its October 2023 filing of its 2023–2024 Winter Readiness Report that it had secured a 375 CFM and 900 CFM portable air compressor for the 2023–2024 operating season. Upon the completion of repair work on one of Hydro’s own air compressors, the 375 CFM portable air compressor was returned.

In order to supply the necessary compressed air to the various systems for which it is required, and provide system redundancy, Hydro has secured a 375 CFM and 900 CFM portable air compressor to temporarily connect to the system.

⁷⁴The oil remaining in Tank 1 was also transferred to Tank 2.

⁷⁵ Upon initial investigation, it appears the leak stemmed from a structural issue within the tank; however, a more detailed internal investigation is required.

⁷⁶ “Request for Change or Modification to Board Order No. P.U. 24(2022) – Approval of Various Supplemental Capital Projects at the Holyrood Thermal Generation Station,” Newfoundland and Labrador Hydro, September 26, 2022.

1 **7.2.8 Fuel Oil Contamination**

2 Since the return to service of Unit 1 on October 8, 2023, Hydro has experienced issues with fuel oil
3 contamination, resulting in the need for more frequent cleaning of fuel oil strainers and burner tips. The
4 fuel delivered to the Holyrood TGS in September 2023 met Hydro’s fuel specification;⁷⁷ as such, the
5 likely source of contamination is considered to be from residual material stirred up from the bottom of
6 Tank 2. As discussed in Section 7.2.7, Hydro had intended to retire Tank 2 prior to the identification of a
7 small leak on Tank 1 in September 2023. As Tank 2 had already been drained to minimum storage levels
8 in preparation for clean-out and decommissioning in spring 2024, it is possible that the fuel added to
9 Tank 2 in September 2023 stirred up sludge from the bottom of the tank. Tank 2 was the first to be put
10 in service when Unit 1 was started up; as a result, sludge may have been carried down to the day tank,
11 causing the contamination issue. A switch of fuel supply from Tank 2 to Tank 3 seemed to improve the
12 situation, but there have still been occasional periods where the fuel strainers have fouled more quickly
13 than normal.

14 To date, this condition has not resulted in any interruptions to service; Hydro is managing the situation
15 by completing additional maintenance as required and through controlling the consumption of fuel from
16 Tank 2. Currently, Hydro plans to continue to use fuel from Tank 3 until its level is the same as Tank 2, at
17 which time the Tanks will be put in service in parallel to allow a controlled consumption of the fuel in
18 Tank 2. A further update will be provided in the December 2023 filing of the 2023–2024 Winter
19 Readiness Planning Report.

20 **7.2.9 Unit 3 East Forced Draft Fan Motor**

21 During the startup of Unit 3 on October 23, 2023, a suspected failure of the east forced draft fan motor
22 occurred. Subsequent electrical testing confirmed that the motor must be removed from the unit for
23 refurbishment; this has resulted in the deration of Unit 3 to 50 MW until the fan can be returned to
24 service. Refurbishment work is ongoing with an estimated completion date of November 27, 2023.
25 Hydro continues to prioritize this refurbishment work and will investigate the cause of this failure,
26 providing an update on the status of Unit 3 in the December 2023 filing of the 2023–2024 Winter
27 Readiness Planning Report.

⁷⁷ Ash content was slightly higher than most deliveries, but was still within specification.

1 **7.2.10 Unit 1 Flame Scanners**

2 Since Unit 1 returned to service on October 8, 2023, load constraint issues have been experienced due
3 to the unavailability of two burners in the Unit 1 boiler, caused by a shortage of functioning flame
4 scanners.⁷⁸ The flame scanners on the Unit 1 boiler had not yet been upgraded to the latest model; this
5 upgrade was planned after its return to service this fall, and commenced upon Unit 3’s return to service
6 in generation mode.⁷⁹ Hydro successfully completed this upgrade in early November 2023, and all 12
7 burners in the Unit 1 boiler are now available. Flame scanners will be commissioned following the return
8 to service of Unit 1 on November 12, 2023.

9 **7.3 Generator Step-Up Transformer Spares**

10 In July 2023, Hydro experienced a failure of the generator step-up transformer T6 in Bay d’Espoir.
11 Following the failure, Hydro’s spare generator step-up transformer, which is located in Bay d’Espoir, was
12 released for service in the T6 slot on October 7, 2023.⁸⁰ With this spare transformer being placed in
13 service in Bay d’Espoir, Hydro does not currently have a spare generator step-up transformer for Bay
14 d’Espoir, Granite Canal or Upper Salmon. Hydro also does not currently have a spare for the
15 Holyrood TGS generator step-up transformers, and has recently received approval for a supplemental
16 capital budget proposal for the purchase of such.⁸¹ This spare is estimated to be delivered in the third
17 quarter of 2026.

18 Hydro is working with the OEM to refurbish the failed T6 to be used as a spare generator step-up
19 transformer.⁸² It is expected that the refurbishment of T6 will be completed in December 2023;
20 however, modification of bus duct adaptor kits is required to enable the utilization of this transformer as
21 a spare for Bay d’Espoir T4, Bay d’Espoir T7 (derated to 50 MVA due to rough zone on Bay d’Espoir
22 Unit 7), Granite Canal and Upper Salmon. No bus duct adaptor kits are required for Bay d’Espoir T1, T2,

⁷⁸ Unit 1 contains 12 burners. Each burner requires a flame scanner, which monitors the flame and will shut off the fuel to the burner in the event of a flame out.

⁷⁹ Upgrade of the flame scanners requires the unit to be online, with the ability to cycle load, so that the scanners can be calibrated. The flame scanners on the Unit 2 and Unit 3 boilers have both been upgraded.

⁸⁰ Replacement of T6 is ongoing within Hydro’s Terminal Station In-Service Failure program. The estimated cost is approximately \$1.6 million.

⁸¹ “Purchase Spare Generator Step-Up Transformer,” Newfoundland and Labrador Hydro, September 21, 2023, approved in *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 28(2023), Board of Commissioners of Public Utilities, October 18, 2023.

⁸² Refurbishment of T6 is intended to be completed within Hydro’s Terminal Station In-Service Failure program. The estimated cost is approximately \$1.7 million.

1 T3, T5 and T6. Hydro is continuing to work with the manufacturer to have the existing bus duct adaptor
2 kits modified as required,⁸³ and is planning to complete any necessary procurement by December 2023.

3 **7.4 Gas Turbine Operations**

4 Hydro anticipates that all gas turbines will be fully available by December 1, 2023, with the exception of
5 the Stephenville GT. This risk to WR and/or reliable operations is discussed in Section 7.4.1.

6 **7.4.1 Stephenville Gas Turbine – Alternator Cooling Fan Failure**

7 On July 14, 2023, the Stephenville GT tripped due to high vibration while operating in synchronous
8 condense mode. During subsequent test runs, the alternator tripped again due to high exciter and
9 alternator temperatures. A visual inspection of the unit determined the vibration trip was caused by the
10 failure of one of the alternator cooling fans.⁸⁴ The OEM was engaged to complete more thorough
11 inspections and testing; it was confirmed the alternator cooling fan had failed, and additional damage
12 was observed on the stators winding insulation.

13 Based on their inspections, the OEM recommended that the alternator be removed from the unit. The
14 rotor will be removed from the alternator and sent to the OEM’s facility in the USA for inspection and
15 repair in mid-November 2023. Work to inspect, clean and repair the stator has begun on site. The return
16 to service date for this unit is expected to be mid- to late-January 2024.

17 **7.5 Transmission and Terminal Stations**

18 Existing risk to WR and/or reliable operations related to Hydro’s Transmission and Terminal Station
19 assets are discussed in Sections 7.5.1 through 7.5.3.

20 **7.5.1 Bay d’Espoir B1B10-2 Replacement**

21 The Bay d’Espoir Disconnect Switch B1B10-2 replacement has carried over to 2024 due to late delivery
22 of the new disconnect switch, which delayed construction to the fall of 2023, and subsequent restricted
23 generating unit outage availability⁸⁵ prior to the start of the WR period. An infrared scan completed of
24 the existing disconnect did not identify any immediate concerns for 2024 operation; as a result, this

⁸³ Bus duct adaptor kit modification will only be completed if and when needed in the case of an additional transformer failure.

⁸⁴ The alternator at the Stephenville GT has the cooling fan shrunk onto the rotor shaft which forces air through the rotor and stator air gap, then through the stator coils and core to remove heat from the alternator. The warm air is then cooled by the alternator cooling system and then recirculates through the generator.

⁸⁵ Restricted unit outage availability is primarily a result of the Bay d’Espoir T6 failure, which resulted in subsequent delays in other unit outages.

1 disconnect was deemed to be low risk to remain in service through this coming winter for replacement
2 in 2024.

3 **7.5.2 St. Anthony Diesel Plant Transformer T1 Tap Changer Refurbishment**

4 The planned refurbishment of St. Anthony T1 tap changer was completed by the OEM in June 2023, but
5 an additional issue was discovered that prevented it from being placed back into service. Further work
6 was completed by the OEM in late July 2023; however, the cause of the issue was unable to be
7 determined. Additional testing at the OEM’s factory is planned for November 2023 to determine the
8 next course of action; however, it is expected that the refurbishment work could surpass
9 December 1, 2023. Hydro’s mobile substation will remain in service until the issue with the St. Anthony
10 T1 tap changer is resolved to minimize customer reliability risks this winter.

11 **7.5.3 Roddickton Wood Chip Terminal Station Circuit Breaker B1L57 Refurbishment**

12 The planned refurbishment of Roddickton Wood Chip Terminal Station circuit breaker B1L57 was
13 planned for July 2023. Work began in July 2023, but completion was delayed due to issues discovered
14 with the circuit breaker during the refurbishment. Addressing these deficiencies required the
15 replacement of components that neither Hydro, nor the circuit breaker’s OEM, have in stock. The
16 completion of this refurbishment is now estimated to be December 13, 2023 due to the lead time
17 required to procure the components. The circuit breaker remains out of service until its refurbishment is
18 complete. Customers are supplied via a bypass switch during this time, which increases the probability
19 of a short, unplanned outage to all customers connected to the Main Brook Distribution System.

20 **7.6 Muskrat Falls Assets**

21 Hydro anticipates that all Muskrat Falls assets will be fully available by December 1, 2023, aside from
22 planned outages to Muskrat Falls Generating Facility Unit 3 and the LIL. Existing risk to WR and/or
23 reliable operations related to these assets is discussed in Section 7.6.1

24 **7.6.1 Muskrat Falls HVdc Converter Station– Replace DCCTs**

25 Multiple trips on the LIL occurred in early 2023; investigations into these trips by the OEM and Hydro’s
26 Engineering teams indicated that low ambient temperatures in the Muskrat Falls HVdc Converter Station
27 were influencing the measurement accuracy of DC Current Transformers (“DCCTs”). This issue resulted
28 in false protection trips and power control issues on the LIL. Mitigating measures were implemented to
29 allow safe and reliable operation of the LIL while the OEM continued to investigate, identify the root
30 cause and implement the required permanent solution to this issue.

1 The OEM has since identified the root cause of the issue to be a manufacturing defect with the Delay
2 Coil Fiber Optical Cable located within the DCCTs; this issue occurred with a select batch of fiber optic
3 cables, affecting five DCCTs at the Muskrat Falls HVdc Converter Station. One DCCT was replaced in
4 September 2023, and the remaining four will be replaced from late-November to mid-December 2023.⁸⁶

5 **8.0 Conclusion**

6 Hydro is progressing towards completion of its AWP and WR activities. Hydro anticipates the completion
7 of all WR activities and full availability of regulated generating sources by December 1, 2023, with the
8 exception of Unit 2 at the Holyrood TGS, and the Stephenville GT. Unit 2's return to service is delayed
9 until March 2024 due to the required replacement of the L-1 blades on the Unit 2 turbine; the
10 Stephenville GT is not expected to return to service until mid- to late-January 2024 due to the current
11 alternator cooling fan repair schedule. Hydro will continue to monitor progress and mitigate work
12 execution risks. Additionally, Muskrat Falls Unit 3 and the LIL have planned outages extending beyond
13 December 1, 2023. The planned outage of Muskrat Falls Unit 3 until December 5, 2023 does not impact
14 WR, as energy from other Muskrat Falls generating units is available via the LIL; the planned outage on
15 the LIL until mid-December is required to replace four DCCTs to ensure LIL reliability through the winter
16 period.

17 The filing of the next 2023–2024 Winter Readiness Planning Report is scheduled for December 11, 2023.

⁸⁶ This work is scheduled to conclude after the WR date of December 1, 2023 due to the time required by the OEM to identify the root cause of the issue, implement the proposed solution, and subsequently test each replaced DCCT. Mitigations remain in place to prevent protection misoperation until the replacement has occurred.

Appendix A

Status of Capital Projects Related to Winter Readiness





**Status of Winter Readiness Scope
in 2023 Capital Projects and Programs
on the Island and Labrador Interconnected Systems**

| Asset Category | Project or Program Title | Expected Completion of Winter Readiness Scope (1-Nov-2023 Update) |
|------------------------|---|--|
| Hydraulic Generation | Various Locations – Hydraulic Unit Overhauls | Complete |
| Hydraulic Generation | Upper Salmon – Rotor Rim Shrink and Stator Recentering | 30-Nov-2023 |
| Thermal Generation | Holyrood – Unit 1 and Unit 2 Turbine Last Stage Blades | Complete |
| Thermal Generation | Holyrood – Inspect and Refurbish Day Tank | Complete |
| Thermal Generation | Holyrood – Boiler Condition Assessment and Miscellaneous Upgrades | 3-Nov-2023 |
| Thermal Generation | Holyrood – Overhaul Unit 2 Turbine and Valves | Mar-2024 |
| Thermal Generation | Holyrood – Upgrade Unit 2 Turbine Controls | Mar-2024 |
| Thermal Generation | Holyrood – Overhaul Pumps | Mar-2024 |
| Thermal Generation | Holyrood – Fuel Tank 1 Fuel Inspection and Refurbishment | TBD |
| Gas Turbine Generation | Holyrood – Control System Replacement | Complete |
| Gas Turbine Generation | Happy Valley – Replace Human Machine Interface | 30-Nov-2023 |
| Terminal Stations | Wabush – Major Condition Assessment and Miscellaneous Refurbishments Synchronous Condensers 1 and 2 | Complete |
| Terminal Stations | Various Locations – Upgrade Reclosing for Circuit Breakers ¹ | Complete |
| Terminal Stations | Various Locations – Refurbishment and Modernization of Power Transformers ² | 28-Dec-2023 |
| Terminal Stations | Various Locations – Upgrade Circuit Breakers | 30-Sep-2024 |
| Terminal Stations | Various Locations – Replace Disconnect Switches ¹ | 30-Sep-2024 |
| Telecontrol | Various Locations – Replace 48 V Battery Banks and Chargers | Complete |

¹ This project is part of the Terminal Station Refurbishment and Modernization Project (2022–2023).

² This program is part of the Terminal Station Renewal Program (2023–2024).

Appendix B

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





**Holyrood Thermal Generating Station
Winter Readiness Testing**

26-Oct-23

| 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 Systems Verified Before Operating Status Determined, as per Energy Control Centre ("ECC"), Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at This Time. | S/U | S/U | S/U | N/A |
| Black Start Test of the Black Start Systems is Performed Prior to the Winter Operating Season | N/A | N/A | N/A | Y |
| Perform Megger Testing of 600 V Motors Prior to the Winter Operating Season | Y | Y | Y | Y |

| Safety | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|--|--------|--------|--------|------------------|
| Boiler Service Pressure Test Performed as Required by Regulator | Y | S/U | Y | 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 | Y | S/U | S/U | N/A |
| Hydrogen ("H ₂ ") Emergency Venting Valving | Y | S/U | Y | N/A |
| Breaker and Disconnect Operation Verified by Operations Department and Whitbourne Crew | Y | S/U | S/U | N/A |

| Service Air and Instrument Air Systems | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|---|--------|--------|--------|------------------|
| All Stationary Air Compressors Available | N/A | N/A | N/A | N |
| All Portable Air Compressors Available | N/A | N/A | N/A | Y |
| 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 | Y | Y | Y | N/A |
| 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.



Holyrood Thermal Generating Station
 Winter Readiness Testing

26-Oct-23

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

| Raw and Makeup Water System and Water Treatment Plant | | | | |
|--|-----|-----|-----|-----|
| Instrumentation and Controls Operational | Y | S/U | S/U | N/A |
| Analytical Rack Sample Cooler Filters Cleaned/Replaced as Required | Y | S/U | S/U | N/A |
| Analytical Rack Sample Coolers Cooling Water In Service | Y | S/U | S/U | N/A |
| 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 |
| Demineralization 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 |

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Holyrood Thermal Generating Station
Winter Readiness Testing

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

| Reserve Feedwater System ("RFW") | | | | |
|--|---|-----|-----|-----|
| RFW Transfer Pump Oil Normal Operating Level | Y | S/U | S/U | N/A |
| RFW Transfer Pumps Operational | Y | S/U | S/U | N/A |

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

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

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

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

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Winter Readiness Testing**

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

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

| Low Pressure ("LP") Feedwater System | | | | |
|---|---|-----|-----|-----|
| Condenser | | | | |
| Condenser Hotwell Makeup/Surplus Control Valves Operation Verified | Y | S/U | S/U | N/A |
| Condenser Hotwell Makeup Motorized Isolating Valve Operation Verified | Y | S/U | S/U | N/A |
| Condenser Dye Test for Leaks, as Required | Y | S/U | S/U | N/A |

| Ammonia and Control System | | | | |
|-------------------------------------|---|---|---|-----|
| Adequate Supply in Place | Y | Y | Y | N/A |
| Pumps Operational | Y | Y | Y | N/A |
| Control Instrumentation Operational | Y | Y | Y | N/A |

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

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|----------------|--------|--------|------------------|
| Unit 1 | Unit 2 | Unit 3 | Balance of Plant |

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

| LP Heaters | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|--|--------|--------|--------|------------------|
| Low Load Recirculation Control Valve Operation | Y | S/U | S/U | N/A |

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

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

| Bled Steam and Heater Drains System | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|---|--------|--------|--------|------------------|
| LP and HP Instrumentation and Control Operational | Y | S/U | S/U | N/A |
| LP and HP Heater Level Control Operational | Y | 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 |

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|----------------|--------|--------|------------------|
| Unit 1 | Unit 2 | Unit 3 | Balance of Plant |

| Air and Flue Gas System | Y | S/U | S/U | N/A |
|---|---|-----|-----|-----|
| Instrumentation and Control Operational | | | | |

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

| Rotary Air Heaters | Y | S/U | S/U | N/A |
|--|---|-----|-----|-----|
| Rotary Air Heaters Operational | Y | S/U | S/U | N/A |
| Rotary Air Heaters Bearing Oil (Top and Bottom) Normal Operating Level | Y | S/U | S/U | N/A |
| Rotary Air Heaters Bearing Cooling Water On | Y | S/U | S/U | N/A |
| Rotary Air Heaters Electric Motor Drives Operational | Y | S/U | S/U | N/A |
| Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open | Y | S/U | S/U | 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 | Y | S/U | S/U | N/A |
| Rotary Air Heaters Steam Supply Control Valves Operational (*Note: Two Steam Supplies on Units 1 and 2) | Y | S/U | S/U | N/A |
| Rotary Air Heaters Sootblowers Operational | Y | S/U | S/U | N/A |

| Boiler Sootblowing System | Y | S/U | S/U | N/A |
|---|---|-----|-----|-----|
| Sootblower Control Panel Operational | Y | S/U | S/U | N/A |
| Sootblowers Steam Supply Control Valve Operational | Y | 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 Online | Y | S/U | S/U | N/A |

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

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

| | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|--|--------|--------|--------|------------------|
| Fuel Oil Delivery System, Auxiliary Steam and Fuel Oil Piping System | | | | |
| Adequate Heavy Oil Storage | N/A | N/A | N/A | Y |
| Heavy Oil Piping from Dock to Tankfarm, Tankfarm to Plant Day Tank and Day Tank to Heavy Oil Sets | N/A | N/A | N/A | Y |
| Adequate Light Oil Storage | N/A | N/A | N/A | Y |
| Light Oil Piping from Road Tanker Transfer Pump to Tanks and from Tanks to Light Oil Sets in Plant | N/A | N/A | N/A | N/A |
| All Storage Tanks Suction Heaters Available when Required | N/A | N/A | N/A | Y |
| All Storage Tanks Flatform Heaters Available when Required | N/A | N/A | N/A | N/A |
| Auxiliary Steam for Suction Heaters Available | N/A | N/A | N/A | Y |
| Auxiliary Steam for Flatform Heaters Available | N/A | N/A | N/A | N/A |
| Auxiliary Steam for Heat Tracing Available | N/A | N/A | N/A | Y |
| Electrical Heat Tracing for Fuel Oil Lines Available | N/A | N/A | N/A | Y |
| Day Tank Supply Line Trip Valve Tested | N/A | N/A | N/A | Y |
| Day Tank Available to Receive Oil | N/A | N/A | N/A | Y |
| Day Tank Steam Coil Available | N/A | N/A | N/A | Y |

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|----------------|--------|--------|------------------|
| Unit 1 | Unit 2 | Unit 3 | Balance of Plant |

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

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

| | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|---|--------|--------|--------|------------------|
| Burners | | | | |
| All Burners Cleaned, Securely in Place with Associated Lines Securely Fastened | Y | S/U | S/U | 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) | Y | S/U | N/A | N/A |

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|----------------|--------|--------|------------------|
| Unit 1 | Unit 2 | Unit 3 | Balance of Plant |

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

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

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

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

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

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

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| 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 | Y | S/U | Y | N/A |
| Portable Centrifuge Operational | N/A | N/A | N/A | N/A |
| Lube Oil Tank Vapor Extractor Operation | Y | S/U | Y | N/A |
| Bowser Oil Conditioner Vapor Extractor Operation (Units 1 and 2) | Y | S/U | N/A | N/A |
| Two ac Lube Oil Pumps Available and Tested for Standby 'Auto-Start' (Units 1 and 2) | Y | S/U | N/A | N/A |
| Direct Current ("DC") Pump Testing and Starting from UCB (Units 1 and 2) | Y | S/U | N/A | N/A |
| Verify Discharge Pressure of Each AC Lube Oil Pumps (Locally and UCB) (Units 1 and 2) | Y | S/U | N/A | N/A |
| Verify Discharge Pressure of DC Lube Oil Pump (Locally and UCB) (Units 1 and 2) | Y | 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 | Y | 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 and 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 | Y | S/U | Y | N/A |
| Perform Trip Test of Turning Gear | Y | S/U | Y | N/A |

| Miscellaneous | | | | |
|---|---|-----|-----|-----|
| Steam Seal Regulator Operational | Y | S/U | S/U | N/A |
| Operational Online/Offline Overspeed Trip Tests | Y | 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

26-Oct-23

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

| H ₂ and Carbon Dioxide ("CO ₂ ") System | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|---|--------|--------|--------|------------------|
| H₂ Generation and Storage System | | | | |
| System in Operation | N/A | N/A | N/A | Y |
| Electrolyzer/H ₂ Generator Operational | N/A | N/A | N/A | N/A |
| Chiller Operational | N/A | N/A | N/A | N/A |
| DI Water Purifier Operational | N/A | N/A | N/A | N/A |

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

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

26-Oct-23

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

Powerhouse and Switchyard Single Line

| Plant 129 V System | Unit 1 | Unit 2 | Unit 3 | Balance of Plant |
|---|--------|--------|--------|------------------|
| 129 V Battery Banks Checked Stage I and II | Y | S/U | S/U | S/U |
| 129 V Battery Chargers Checked Stage I and II | Y | S/U | S/U | S/U |

Plant 258 V System

| | | | | |
|---|---|-----|-----|-----|
| 258 V Battery Banks Checked Stage I and II | Y | S/U | S/U | S/U |
| 258 V Battery Chargers Checked Stage I and II | Y | S/U | S/U | S/U |

Plant Uninterrupted Power Supplies ("UPS")

| | | | | |
|---|---|-----|-----|---|
| Nos. 1, 2, 3 and 4 UPS including Batteries, Cooling Fans, etc., Checked | Y | S/U | S/U | Y |
|---|---|-----|-----|---|

Emergency Diesel Generators

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

Fire Protection System

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

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

Y - Test completed.

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



Holyrood Thermal Generating Station
 Winter Readiness Testing

26-Oct-23

| 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 |
| UPS #1 Room | N/A | N/A | N/A |
| Generator Excitation and UPS #'s 2, 3 and 4 Room (Unit 3) | N/A | N/A | N/A |

| Plant Heating Steam | | | |
|---|-----|-----|-----|
| All Systems Operational for When Required | N/A | N/A | N/A |
| | | | 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 for 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 | Balance of Plant Powerhouse 1 | Balance of Plant Powerhouse 2 | |

| | | | | | | | | | |
|---|--------|--------|-----|-----|-----|-----|---|-----|---|
| 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. | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |

| | | | | | | | | | |
|--|---|---|---|---|---|---|-----|-----|-----|
| Spherical Valves | | | | | | | | | |
| Turbine Main Stop Valve Annual PM Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Turbine Main Stop Valve Operational | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 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 | ✓ | N/A | ✓ |
| Air Compressor Operational Checks Performed (e.g., Oil Levels, Cooling Water, etc.) | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |
| Air Compressor Sequencing Capability Available | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |
| High Pressure Compressors Available | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |
| Low Pressure Compressor Available | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |
| Instrumentation Control and Alarms Operational | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A | ✓ |

| | | | | | | | | | |
|---|--------|--------|---|---|---|---|-----|-----|-----|
| Turbine/Generator ("TG") Cooling Water Systems | | | | | | | | | |
| Cooling Water Pumps Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Emergency Cooling Water Available Penstock Supply | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Cooling Water System Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Shaft seal System Available | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Cooling Water Strainers Inspected and Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

| | | | | | | | | | |
|---|--------|--------|---|---|---|---|---|-----|-----|
| TG Governor System | | | | | | | | | |
| Hydraulic System Accumulators Operational | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Governor System Annual PM Complete | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Governor System Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Hydraulic Pump(s) Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

| | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|---|-----|-----|
| Generator | | | | | | | | | |
| Generator Exciter Operation Checked Offline and Online | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Generator Exciter Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Brush Condition Verified | 11-Nov | 11-Nov | 26-Oct | 30-Nov | 30-Nov | 30-Nov | ✓ | 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 | |

| Lubricating System | | | | | | | | | |
|--|-----|-----|-----|-----|-----|---|-----|-----|-----|
| Portable Oil Pump (Jacking) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Oil Level System Generator Metering Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Oil Level System Turbine Metering Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 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 | N/A | N/A |

| Switchyard/Terminal Station | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|-----|-----|
| Breakers and Disconnects Operational | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Operate Breaker PM Complete (TRO) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |

| Intake | | | | | | | | | |
|------------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Water Elevation | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ | ✓ |
| Trashrack System | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Gate Operation | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |

| Surge Tank | | | | | | | | | |
|----------------|--------|--------|---|---|---|---|-----|-----|-----|
| Heating System | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| Alarm Systems | 11-Nov | 11-Nov | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |

| Spillway | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|--------|---|---|
| Water Elevation | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ | ✓ |
| Gate Heating/Ice Away Unit | N/A | N/A | N/A | N/A | N/A | N/A | 30-Nov | ✓ | ✓ |
| Gate Operation | 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 | ✓ | ✓ | ✓ |
| Emergency Lift Operation and Tested | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ | ✓ |

| Battery Banks And Battery Chargers | | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|---|---|---|
| Plant 129 V System | | | | | | | | | |
| 129 V Battery Banks Checked | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ | ✓ |
| 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 Uninterrupted Power Supplies ("UPS") | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|---|---|---|
| UPS Power Supplies (Inverter NWS) | 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 | | | | | | | Balance of Plant Powerhouse 1 | Balance of Plant Powerhouse 2 |
|--|----------------|--------|--------|--------|--------|--------|--------|-------------------------------|-------------------------------|
| | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | | |
| Emergency Diesel Generators | | | | | | | | | |
| Emergency Diesel Generators Tested for Emergency Stop | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Emergency Diesel Generators Tested for Manual and Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ |
| Alternate Alternating Current Sources Available | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ |
| Station Services Available | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ |
| Transfer Alternate Source | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ |
| Plant Air Conditioning System | | | | | | | | | |
| Control Rooms | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Communications Rooms | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Plant Heating Steam | | | | | | | | | |
| All Systems Operational for when Required | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ✓ | ✓ |

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 | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant |

| | | | | | | | | | | | |
|---|-----|-----|-----|--------|--------|--------|-----|-----|-----|-----|-----|
| Following Annual Outages, Unit is Run Up, Synchronized and all Systems Verified Before Operating Status Determined, as per Energy Control Centre, Prior to Coming Winter Operating Season to Ensure Preparedness. A Unit Load Test is Performed at this Time. | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| | N/A | N/A | ✓ | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | ✓ |

| Spherical Valves | | | | | | | | | | | |
|--|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Turbine Main Stop Valve Annual PM Complete | ✓ | ✓ | 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 | | | | | | | | | | | |
|---|-----|-----|---|-----|---|-----|---|-----|---|-----|---|
| 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 Sequencing Capability Available | 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 | ✓ | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Emergency Cooling Water Available Penstock Supply | ✓ | ✓ | N/A | N/A | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Cooling Water System Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| TG Pumps Available and Tested for Auto/Manual Start | N/A | N/A | N/A | 17-Nov | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Shaft Seal System Available | N/A | N/A | ✓ | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Rotary Strainer Inspected and Available | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |

| TG Governor System | | | | | | | | | | | |
|---|---|---|-----|--------|-----|--------|-----|---|-----|---|-----|
| Hydraulic System Accumulators Operational | ✓ | ✓ | N/A | ✓ | N/A | N/A | N/A | ✓ | N/A | ✓ | N/A |
| Governor System Annual PM Complete | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Governor System Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Hydraulic Pump(s) Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | 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 | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant | Unit 1 | Balance of Plant |

| Generator | | | | | | | | | | | |
|--|---|---|-----|--------|-----|--------|-----|---|-----|---|-----|
| Generator Exciter Operation Checked Offline and Online | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Generator Exciter Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Brush Condition Verified | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |

| Lubricating System | | | | | | | | | | | |
|--|---|---|-----|---|-----|--------|-----|---|-----|---|-----|
| Oil Level System Generator Metering Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Oil Level System Turbine Metering Available | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Alternating Current High Pressure Jacking Oil Pump Available Automatic | ✓ | ✓ | N/A | ✓ | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |

| Miscellaneous | | | | | | | | | | | |
|--------------------------------------|---|---|-----|---|-----|---|-----|---|-----|---|-----|
| Breakers and Disconnects Operational | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |
| Operate Breaker PM Complete (TRO) | ✓ | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A |

| Control Structure | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|
| Water Elevation | N/A | N/A | N/A | N/A | 17-Nov | N/A | N/A | N/A | N/A | N/A | N/A |
| Gate Operation | N/A | N/A | N/A | N/A | 17-Nov | N/A | N/A | N/A | N/A | N/A | N/A |

| Intake | | | | | | | | | | | |
|------------------|-----|-----|-----|--------|--------|--------|--------|-----|-----|-----|-----|
| Water Elevation | N/A | N/A | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ |
| Trashrack System | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |
| Gate Operation | ✓ | ✓ | N/A | 17-Nov | N/A | 30-Nov | N/A | ✓ | N/A | ✓ | N/A |

| Spillway/Bypass | | | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|--------|-----|---|-----|---|-----|-----|
| Water Elevation | N/A | N/A | N/A | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | N/A |
| Gate Heating/Ice Away Unit | N/A | N/A | N/A | N/A | 17-Nov | N/A | ✓ | N/A | ✓ | N/A | N/A |
| Gate Operation | N/A | N/A | N/A | N/A | 17-Nov | 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 | 17-Nov | 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 | 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 | ✓ |

| Emergency Diesel Generators | | | | | | | | | |
|--|-----|-----|---|-----|---|-----|---|-----|---|
| Emergency Diesel Generators Tested for Emergency Stop | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |
| Emergency Diesel Generators Tested for Manual and Auto-Start Operation along with Auto Breaker Closure as well as Emergency Manual Closing of Breakers | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |
| Alternate Alternating Current Sources Available | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |
| Station Services Available | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |
| Transfer Alternate Source | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |

| Plant Air Conditioning System | | | | | | | | | |
|-------------------------------|-----|-----|---|-----|---|-----|---|-----|---|
| Control Rooms | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |
| Communications Rooms | | | | | | | | | |
| N/A | N/A | N/A | ✓ | N/A | ✓ | N/A | ✓ | N/A | ✓ |

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

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

Appendix D

Master Generation Outage Schedule



| Month | 2023–2024 Generation Outage Schedule ¹ | | | | | | | | | | | | Scheduled Annual Maintenance Outages | | | | |
|--|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------------------------|---------|---------|---------|---------|
| | 1 | 8 | 15 | 22 | 29 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | | 24 | | | |
| BAK | | | | | | | | | | | | | | | | | |
| Haywood GT ² | | | | | | | | | | | | | | | | | |
| Haywood GT ³ | | | | | | | | | | | | | | | | | |
| Haywood GT ⁴ | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G1 ⁵ | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G3 | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G4 | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G5 | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G6 | | | | | | | | | | | | | | | | | |
| Bay #1 Spool - G7 | | | | | | | | | | | | | | | | | |
| Upper Salmon ⁶ | | | | | | | | | | | | | | | | | |
| Granite Canal | | | | | | | | | | | | | | | | | |
| Hind Lake | | | | | | | | | | | | | | | | | |
| Cal Ann 1 | | | | | | | | | | | | | | | | | |
| Cal Ann 2 | | | | | | | | | | | | | | | | | |
| Paradise River | | | | | | | | | | | | | | | | | |
| Hardwood GT | | | | | | | | | | | | | | | | | |
| Stephensville GT ⁷ | | | | | | | | | | | | | | | | | |
| Haywood GT | | | | | | | | | | | | | | | | | |
| Star Lake | | | | | | | | | | | | | | | | | |
| Exploits | | | | | | | | | | | | | | | | | |
| CBPP Colson | | | | | | | | | | | | | | | | | |
| N-1 Diesel ⁸ | | | | | | | | | | | | | | | | | |
| Newfoundland Power | | | | | | | | | | | | | | | | | |
| CBPP BONE | | | | | | | | | | | | | | | | | |
| Muskrat Falls Unit 1 | | | | | | | | | | | | | | | | | |
| Muskrat Falls Unit 2 | | | | | | | | | | | | | | | | | |
| Muskrat Falls Unit 3 | | | | | | | | | | | | | | | | | |
| Muskrat Falls Unit 4 | | | | | | | | | | | | | | | | | |
| Happy Valley Gas Turbine | | | | | | | | | | | | | | | | | |
| LE ¹¹ | | | | | | | | | | | | | | | | | |
| Maximum LC Contribution to Island Reserves at Peak ¹² | 227.0 | 238.0 | 248.0 | 261.0 | 271.0 | 279.0 | 287.0 | 294.0 | 300.0 | 306.0 | 312.0 | 318.0 | 324.0 | 330.0 | 336.0 | 342.0 | 348.0 |
| Forecasted Gross Island Peak Load ¹³ | 984.8 | 1,036.6 | 1,076.4 | 1,122.2 | 1,168.0 | 1,217.5 | 1,287.0 | 1,346.5 | 1,406.0 | 1,505.0 | 1,604.0 | 1,703.0 | 1,802.0 | 1,802.0 | 1,802.0 | 1,802.0 | 1,802.0 |
| Total Island Reserve ¹⁴ | 404.0 | 333.8 | 325.9 | 325.7 | 228.8 | 338.9 | 515.4 | 492.9 | 236.0 | 335.0 | 285.0 | 679.0 | 588.0 | 638.0 | 638.0 | 638.0 | 638.0 |
| Largest Operating Unit | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 170.0 | 170.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 | 206.0 |
| Island N-1 Reserves | 198.0 | 172.8 | 120.9 | 149.7 | 22.8 | 132.8 | 329.4 | 286.9 | 115.0 | 215.0 | 116.0 | 473.0 | 382.0 | 432.0 | 432.0 | 432.0 | 432.0 |

| | |
|---------------------|------------|
| Legend | White |
| Unit Unavailable | Dark Blue |
| Unit Deselected | Light Blue |
| Unplanned/Extension | Grey |

¹ Preventive maintenance items that require short-duration outages are not reflected in this chart. They are planned in conjunction with other operations for an appropriate time.

² Haywood GT annual outage has concluded and unit is currently unavailable on a forced outage due to a repair economizer inlet piping leak. Anticipated return to service date is November 12, 2023.

³ Haywood GT will be on an unplanned outage for the remainder of 2023 due to cracks identified on the L-1 blades. Return to service date is estimated to be mid-March.

⁴ Haywood Unit 3 was brought online in generation mode on October 28, 2023. The unit is de-rated to 90 MW due to a damaged forced draft fan motor (root cause) Anticipated return to service date is November 27, 2023.

⁵ Bay #1 Spool - G1 return to service date has been delayed due to crack indications discovered during portable inspection.

⁶ Upper Salmon return to service date is November 30, 2023.

⁷ Stephensville GT is unavailable due to damaged generator cooling fan. Return to service date is mid-January 2024.

⁸ N-1 Diesel is unavailable due to a failed generator cooling fan. Return to service date is mid-January 2024.

⁹ CBPP Colson is unavailable due to a failed generator cooling fan. Return to service date is mid-January 2024.

¹⁰ 247 MW includes Hawks Bay (5 MW), WEED Diesel (10 MW) and S1 Anthony (9.7 MW).

¹¹ Labrador Island Line ("L-1").

¹² Based on the latest available data from the Island Reserves report, which is updated weekly, and includes the latest available data from the Island Reserves report and is measured at 5:00 AM.

¹³ Based on the latest available data from the Island Reserves report, which is updated weekly, and includes the latest available data from the Island Reserves report and is measured at 5:00 AM.

¹⁴ November to March Total Island Reserves include CBPP Capacity Assistance (80 MW), COGEN (8 MW), and System Voltage Reduction (10 MW).

Appendix E

Critical Spares Status Listing for 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 |
|---|------------------------|----------------------------------|--|----------------|--------------------------------|------------------|------------------|
| | 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 | Electrical 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 Line Fill Line Control Valve | 6" Control Valve | | VALVE,CONTROL 6" FISHER | In Stock | |
| Hydrogen Generation and Storage | Valves | Motorized Valves | 1/2" Valve | | SOLENOID,VALVE ASCO 8316 | In Stock | |
| Powerhouse and Switchyard Single Line | Tubing | Charger | Tubing | | TUBING,SS 1" OD X.083 316 | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | 129V DC System | Instrumentation/Controls | Control Unit | | CONTROL UNIT, BATTERY CHG 129V | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2205C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2206C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3205C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3206C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2203C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2207C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2202C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Cation Valve - KV2208C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3203C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3207C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3202C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Anion Valve - KV3208C | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4003B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4004A | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4005B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4006B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4007B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4008B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4009B | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4010A | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - KV4011A | | VALVE,ITT | In Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Mixed Bed Valve - PCV4071 | | VALVE,PRESS REGULATING | Non-Stock | |
| Raw and Makeup Water System & Water Treatment Plant | Deminerlization System | Instrumentation/Controls | Sodium Monitor | | 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 | |



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 | Sub-System | Asset | Critical Spare | | | Inventory Status |
|---|------------------------|--------------------------------------|--|--|--------------------------------|------------------|
| | | | Defined Spare | Notes | Inventory Description | |
| Raw and Makeup Water System & Water Treatment Plant | Clearwell | Cleanwell Pump | Pump, single stage, 750GPM | Critical repair parts stocked for this pump. No need to stock the entire pump. | PUMP ASSY, KSB 6" | Non-Stock |
| Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping | | Dock Quick Closing Valves | 18" Butterfly Valve | | VALVE,BTFY 18" 150# | In Stock |
| Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping | | Dock Capstan | Gear Box | | CAPSTAN GEARBOX,SADI | In Stock |
| Fire Protection System | Electrical Driven Pump | Control Panel | Fire Pump Controller | Spare Controller on site in Warehouse | N/A | Non-Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | 129 VDC Panel - Unit 1, 2, 3, Common | 30A DC Breaker | | BREAKER,DC HFD2030 30A | In Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | 129 VDC Panel - Unit 1, 2, 3, Common | 25A DC Breaker | | BREAKER,DC HFD2025 25A | In Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | 129 VDC Panel - Unit 1, 2, 3, Common | 15A DC Breaker | | BREAKER,DC HFD2015 15A | In Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | 129 VDC Panel - Unit 1, 2, 3, Common | 400A DC Breaker | | BREAKER,DC KD3400 400A | In Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | 129 VDC Panel - Unit 1, 2, 3, Common | 50A DC Breaker | | BREAKER,DC HFD2050 50A | In Stock |
| Powerhouse and Switchyard Single Line | 129V DC System | Charger | Control Unit | | CONTROL UNIT,BATTERY CHG 129V | In Stock |
| Circulating Water and Screen Wash System | CW Discharge Valves | Butterfly Valve | 36" Butterfly Valve | | VALVE,BUTTERFLY 36" | In Stock |
| Circulating Water and Screen Wash System | CW Discharge Valves | Butterfly Valve | Actuator | | ACTUATOR ASSY, ROTORK | In Stock |
| Circulating Water and Screen Wash System | CW Pumps | Motor | Coils | | WINDING COILS | In Stock |
| Combustion Air & Gas Instruments | Burner Management | Burner Automation | Network Interface Modules | | MODULE,NETWORK INTERFACE | In Stock |
| Combustion Air & Gas Instruments | Burner Management | Burner Automation | Master Fuel Trip Relays | | RELAY,AB TYPE P | In Stock |
| Combustion Air & Gas Instruments | Burner Management | Burner Automation | DCS Control Processor | | MODULE,PROCESSOR FOXBORO | In Stock |
| Combustion Air & Gas Instruments | Burner Management | Flame Scanners | 24Vdc Scanner Power Supply | | POWER SUPPLY,WELDMULLER | 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 | Exciter | See Parts List #U1&2 - 1 from Service Contractor | | HYDROGEN SEAL RINGS,GE | In Stock |
| Generator | Exciter | Controls | ArCNet Coupler | | CARD,ABB UNS0672 | In Stock |
| Generator | Exciter | Controls | Conduction Monitor | | CARD,ABB UNS0673 | In Stock |
| Generator | Exciter | Controls | Crowbar | | CARD,ABB UNS0017A/AR1 | In Stock |
| Generator | Exciter | Controls | Digital ArcNet | | CARD,ABB UFG090 | In Stock |
| Generator | Exciter | Controls | Binary Input | | CARD,ABB UFC092 | In Stock |
| Generator | Exciter | Controls | Output Relay | | CARD,ABB ARCO93 | In Stock |
| Generator | Exciter | Controls | Measuring Card | | CARD,ABB UNIC4672 | In Stock |
| Generator | Exciter | Controls | Measuring Card | | CARD,ABB UNIC4673 | In Stock |
| Generator | Exciter | Controls | I/O Connection | | CARD,ABB UNIC4674 | 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 HIEE00900R0001 | In Stock |
| Generator | Exciter | Controls | Power Supply | | CARD,ABB KUC321 | In Stock |



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 |
|---|---|------------------------------|------------------------------------|---|-----------------------------|-----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Generator | Exciter | Controls | Pulse Gen | | CARD,ABB GDB021 | In Stock | |
| Generator | Exciter | Controls | Combined I/O | | CARD,ABB UAC326 | In Stock | |
| Generator | Exciter | Controls | Control Panel | | CARD,ABB AFC094 | In Stock | |
| Generator | Exciter | Controls | Breaker | | BREAKER,FIELD,ABB F3/SE | In Stock | |
| Generator | Exciter | Transformer | Transformer | On Site | N/A | Non-Stock | |
| Generator | Stator | PT Cubicle | Primary Contact for Generator P.T. | | CONTACT ASSY,PT | In Stock | |
| Generator | Seal Oil System | Regulator | 1.5" Regulating Valve | | SEAL OIL REG KIT, RK | 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) | | Level Transmitter | | TRANSMITTER,LEVEL | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Aquarian Alarm Modules | | MODULE,AQUARIAN | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Relays | | RELAY,PLUG-IN 12 PIN AC | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Solenoid | | SOLENOID,ASCO 8300 125 VDC | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Conductivity Probe | | PROBE,GUIDED WAVE RADAR 26" | In Stock | |
| L.P. Feedwater System | Deaerator System | Level Control | Level Switch | | SWITCH,LEVEL,MOBREY | In Stock | |
| L.P. Feedwater System | Deaerator System | Level Control | Level Transmitter | | TRANSMITTER,LEVEL | In Stock | |
| L.P. Feedwater System | Deaerator System | Level Control | Relay | | RELAY,PLUG-IN 12 PIN AC | In Stock | |
| L.P. Feedwater System | Ammonia System | | Bulk Chemical | | AMMONIUM HYDROXIDE,20% TOTE | In Stock | |
| L.P. Feedwater System | Deaerator System | NRV Valves | 12"-150# Gasket Kit | | GASKET,S&K 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 | NRV Valves | | PACKING,S&K 16" | In Stock | |
| L.P. Feedwater System | Deaerator System | NRV Valves | Packing | | PACKING,S&K 12" | In Stock | |
| L.P. Feedwater System | Deaerator System | NRV Valves | Seal washers | | SEAL,S&K 7560181V0020 | In Stock | |
| L.P. Feedwater System | L.P. Heaters | NRV Valves - #1&2 LP Heaters | Gasket | | GASKET,S&K 6750064V0010 | In Stock | |
| L.P. Feedwater System | L.P. Heaters | NRV Valves | O-Rings | | O-RING,S&K 7550144V0100 | In Stock | |
| L.P. Feedwater System | L.P. Heaters | NRV Valves | Packing | | O-RING,S&K 7550144V0090 | In Stock | |
| L.P. Feedwater System | L.P. Heaters | NRV Valves | NRV Valves | | PACKING,S&K 75G0100V0040 | In Stock | |
| L.P. Feedwater System | L.P. Heaters | NRV Valves | Seal washers | | SEAL,S&K 7560181V0050 | 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 | | Pressure Transmitter - Unit 1 | | TRANSMITTER,PRESS-30-0" | In Stock | |



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'.

| Asset | | | Critical Spare | | | | Inventory Status |
|----------------------------------|------------------------|------------------------|--|--|----------------------------|------------------|------------------|
| System | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| 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 | Governor | RES,500OHM,5% 40 WATT | | RESISTOR,500OHM | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | DIODE MOD,1200V,45A,SKDP46/12 | | DIODE MOD,1200V | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | RELAY | | RELAY,12HGAI1J52 | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | CPF MK5 CONTROL POWE | | CONTROL,MK5 POWER | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | TERMINATOR,93 OHMS | | TERMINATOR,93 OHMS | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | RESISTOR | | RESISTOR,323A2354P2 | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | RES,100 OHM 5% 40W | | RESISTOR,100 OHM | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | CAP,METALLIZED-MYLAR | | CAP,METALLIZED MYLAR | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | MKV, C-Core Terminal Board | | TERMINAL BOARD,MKV C-CORE | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | MKV, Terminal Board, Digital I/O | | TERMINAL BOARD,DIGITAL I/O | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | MKV, Terminal Board, Digital I/O | | TERMINAL BOARD,DIGITAL I/O | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | MKV, Terminal Board, Relay/Solenoid | | TERMINAL BOARD,MKV RELAY | In Stock | |
| Turbine Generator System Stage 1 | Turbine Control System | Turbine Control System | MKV, Terminal Board, Relay/Solenoid | | TERMINAL BOARD,MKV RELAY | In Stock | |
| Turbine Generator System Stage 1 | Governor | Governor | MKV, P-Core Terminal Board | | TERMINAL BOARD,MKV P-CORE | In Stock | |
| Turbine Generator System Stage 1 | Governor | Governor | TERMI. BOARD (R-5-T) | DS200QTTBAG1A is superseded by DS200QTTBAG3A | TERMINAL BOARD,(R-5-T) | In Stock | |



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 |
|----------------------------------|-------------------------|-----------------------------|--|--|---------------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | Main Control Card | New no longer available, remain only | BOARD,GE DS2005DCCG4A | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, LAN Comm Interface Card | | BOARD,GE DS2005LCC G3A/PS | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV,Thermocouple Terminal Board | | TERMINAL BOARD,TKV | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV/TERM.BD @R-S-T TC | | TERMINAL BOARD,ANALOG I/O | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKVe, Analog I/O Terminal Board | | TERMINAL BOARD,ANALOG I/O | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV/TERM BD (R-S-T) EXT | | TERMINAL BOARD,(R-S-T) EXT | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, Common Analog Card | New no longer available, remain only | BOARD,GE DS200TCCAG1B | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, DIG. I/O BD, CONF. C | | BOARD,GE DS200TCDAH1B/PS | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, Emergency Overspeed Card | New no longer available, remain only, Has age sensitive components | BOARD,GE DS200TCEAG1B | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, COMM. CIRCUITS FOR T | Has age sensitive components | BOARD,GE DS200TCEBG1B | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | PDM, Switch & Fuse Card | | BOARD,GE DS200TCPDGB1B | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, DC INPUT PWR SUPPLY | New no longer available, remain only, Has age sensitive components | BOARD,GE DS200TCPSPG1A | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, Analog I/O Card | | BOARD,GE DS200TCOAG1B | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, (RST) Extended Analog I/O Card | New no longer available, remain only | CARD,EXTENDED MKV (RST) | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MKV, BOARD-(RST) OVERFLOW | New no longer available, remain only | BOARD,GE 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, remain only | BOARD,GE DS200TCTSG1A | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | MODULE,AC TO DC | DS2020DACAG1 has been superseded by DS2020DACAG2 | MODULE,AC TO DC | In Stock | |
| Turbine Generator System Stage 1 | Governor | Turbine Control System | (Commissioning Kit) Fuses, Resistors, Diodes, Relays | | SPARE KIT,MKV | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | DC Oil Pump | Pump | | PUMP,DC LUBE OIL | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | DC Motor | Motor | | MOTOR,DC LUBE OIL PUMP | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | Pressure Switches | Switch | | SWITCH,PRESS 0-150 PSI | In Stock | |
| Turbine Generator System Stage 1 | Hydraulic Fluid System | Fluid Pumps | Pump | | PUMP,HYD FLUID POWER UNIT | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | AC Oil Pumps | Shaft | | SHAFT,IR ID (TYPE 2 ERVH) | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | AC Oil Pumps | Impeller | | IMPELLER,IR 2RVHDX1-813 | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | AC Oil Pumps | Sleeve | | SLEEVE,I,RAND 1,75B1,35NX1B-204 | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | AC Oil Pumps | Key | | KEY,IMPELLER,IR 1TA9C37 | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | AC Motor | Motor | | MOTOR,ELECT 20HP 575VAC | In Stock | |
| Turbine Generator System Stage 1 | Turbine Lube Oil System | Oil Pressure Regulator | Diaphragm | | DIAPHRAGM,GE 9-20B10612 | 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 | |



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 | |
| 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 RPACXK00011 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Main Steam Valve - Body | Positioner | | POSITIONER, FISH DVC6200 | On Order | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Actuator | Diaphragm | | DIAPHRAGM, FISH 2N130902202 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Actuator | Repair Kit | | ACTUATOR KIT, FISH R667X000702 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Body | Gasket | | GASKET SET, FISH RGASKETX232 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Body | Plug/Stem | | PLUG/STEM, FISH 27A3965X052 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Body | Cage | | CAGE, FISH 20A3245X092 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Body | Ring | | RING, FISH 17A3991X022 | In Stock | |
| Turbine Generator System Stage 1 | Steam Seal Regulator | Dump Control Valve - Body | Seat Ring | | RING, FISH 20A3260X152 | In Stock | |
| Units 1 & 2 Air & Flue Gas | Furnace Pressure TX (Trip) | Pressure Transmitter | Pressure Transmitter | | TRANSMITTER, DP - 800D-8000KPA | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Baskets | Basket Set | To be ordered & stocked as required | BASKET SET, AIR HEATER 21-1/2" | Non-Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Baskets | Basket Set | To be ordered & stocked as required | BASKET SET, AIR HEATER U1 | Non-Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Rotating Element & Bearings | Bearing | | BEARING, BALL 23034CCK/C3W33 | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Rotating Element & Bearings | Seal | | SEAL, HOWDEN 68-01-615 | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Drive System | Coupling | | COUPLING, STEELFLEX 1-1/8 S-4 | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Drive System | Air Motor | | AIR MOTOR, ING RAND | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Drive System | Motor | | MOTOR, HEATER 1/3HP (XL GEAR) | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Soot Blowers | Sleeve | | SLEEVE, RELIANCE 411629-6A | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Soot Blowers | Coupling | | COUPLING, BORE 3/4X5/8 | In Stock | |
| Units 1 & 2 Air & Flue Gas | Rotary Air Heaters | Soot Blowers | Roller assembly | | ROLLER ASSEMBLY | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Gasket | | GASKET SET, FISH RGASKETX182 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Stud | | STUD, DEW 0282336 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Repair Kit | | ACTUATOR KIT, FISH R667X000402 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Cage | | CAGE, FISH 2U224033272 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Plug/Stem | | PLUG ASSY, FISH 1V6575X0052 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Ring | | RING, FISH 1U222646172 | In Stock | |
| Units 1 & 2 Fuel Oil System | Combustion Control Valve | Combustion Control Valve | Bushing | | BUSHING, FISH 1E682814012 | In Stock | |
| Units 1 & 2 Fuel Oil System | Atomizing Steam Valve | Atomizing Steam Valve | 2" Flanged Valve | | VALVE, FISH ATOM STEAM | In Stock | |
| Units 1 & 2 Fuel Oil System | Main Fuel Oil Trip Valve | Main Fuel Oil Trip Valve | Flanged Valve | | VALVE, FISH F. O. TRIP | In Stock | |
| Units 1 & 2 Fuel Oil System | Header Pressure Control Valve | Header Pressure Control Valve | Repair Kit | | PACKING KIT, FISH RPACXK00012 | In Stock | |
| Units 1 & 2 Fuel Oil System | Header Pressure Control Valve | Header Pressure Control Valve | Diaphragm | | DIAPHRAGM, FISH 2E670002202 | In Stock | |
| Units 1 & 2 Fuel Oil System | Fuel Oil Pumps | Fuel Oil Pumps | PUMP, IMO C324 | | PUMP, IMO C324 (COMPLETE) | In Stock | |
| Units 1 & 2 Fuel Oil System | Mechanical Seal | Mechanical Seal | Seal | | SEAL, MECHANICAL FUEL C324 | In Stock | |
| Units 1 & 2 Fuel Oil System | Short Recirculation Valve | Short Recirculation Valve | Gasket Set | | GASKET SET, FISH RGASKETX312 | In Stock | |
| Units 1 & 2 Fuel Oil System | Short Recirculation Valve | Short Recirculation Valve | Packing | | PACKING KIT, FISH RPACXK00012 | In Stock | |
| Units 1 & 2 Fuel Oil System | Short Recirculation Valve | Short Recirculation Valve | Ring | | RING, FISH 1U222935072 | In Stock | |
| Units 1 & 2 Fuel Oil System | Short Recirculation Valve | Short Recirculation Valve | Plug/stem | | PLUG/STEM, FISH 1U8350X0022 | In Stock | |
| Units 1 & 2 Fuel Oil System | Short Recirculation Valve | Short Recirculation Valve | Cage | | CAGE, FISH 2U221503272 | In Stock | |
| Units 1 & 2 Fuel Oil System | Long Recirculation Valve | Long Recirculation Valve | Gasket | | GASKET, FISH 10A4154X012 | In Stock | |
| Units 1 & 2 Fuel Oil System | Long Recirculation Valve | Long Recirculation Valve | Ring | | RING, FISH 1U222835072 | In Stock | |



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 |
|-----------------------------------|--------------------------|--|--|--|---|-----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Units 1 & 2 Fuel Oil System | Long Recirculatoin Valve | Long Recirculatoin Valve | Diaphragm Cage | | DIAPHRAGM,FISH 2N126902202 | In Stock | |
| Units 1 & 2 Fuel Oil System | Long Recirculatoin Valve | Long Recirculatoin Valve | Gaskets | Repair Parts Stocked Ref ON116597 | CAGE,FISH 2U231833272 | In Stock | |
| Units 1 & 2 Fuel Oil System | Fuel Oil Heaters | Fuel Oil Heaters | Tube Bundles | Annual Inspection plus online Check. To be ordered as required. | GASKET,FUEL OIL HEATER HEATER,FUEL OIL STAGE 1 | In Stock | |
| Units 1 & 2 Fuel Oil System | Fuel Oil Heaters | Fuel Oil Heaters | Oil Valve | | VALVE,BALL 3/4 C/W PNEU | Non-Stock | |
| Units 1 & 2 Fuel Oil System | Burners | Oil Valve | Oil, Steam & Scavange Valves - All Same | | | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve - Unit 1 | Cage | | CAGE,FISH 42B3570X012 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve - Unit 1 | Plug/stem | | PLUG/STEM,FISH 36A5366X062 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve - Unit 1 | Ring | | RING,FISH 26A5285X012 | In Stock | |
| 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,DWVG 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 | Shoe | | SHOE ASSY,BI 631163-KD | On Order | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps - Unit 1 E & W | Cover | | COVER,BI 308952-SA | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | 3000HP Motor, 4160Vac (two styles of motor for Stage 1, one each stocked off-site) | Motor stored off site via service contract | SCIM, s/n# 1026366788, frame MGP500B, 3000HP, 4160Vac, 60Hz | Non-Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Main Feedwater Low Load Control Valve | Gasket | | GASKET,FISH 12B7100X082 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Main Feedwater Low Load Control Valve | Seal | Repair Parts stocked Ref ON12054568 | SEAL,FISH 10A4215X012 | In Stock | |



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 |
|-----------------------------------|---|---------------------------------------|------------------------|-------------------------------------|----------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| 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.2289344X012 | 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 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heater Controls (Water Induction Protection) | Unit 1 & 2 | Solenoid | | SOLENOID,ASCO 8300 125 VDC | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Suction Valve Limit Switch | Oil Tight Limit Switch | | SWITCH,LIMIT AB 802T-B | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Suction Valve | Packing | | PACKING,GRAFOL 1IDX1-1/2OD | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Gasket | | GASKET,HOP 30037592 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Spindle | | SPINDLE,HOP 44574-011 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Nut | | NUT,HOP 35224-508 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Stop | | STOP,HOP 8 VALVE 24930W | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Belt | | BELT ASSY,HOP 44511-001 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | NRV Valves - Heater # 4 | 8"-150# Gasket Kit | | GASKET,S&K 7450397V0010 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | NRV Valves - Heater # 5 | 8"-300# Gasket Kit | | GASKET,S&K 7450397V0010 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | H.P. Heaters | NRV Valves - Heater # 6 | 8"-600# Gasket Kit | | GASKET,S&K 7450397V0010 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Steam Drum | Level Control Transmitters | Level Transmitter | | TRANSMITTER,PRESS 5-800 | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Suction Line Safety Valve | 1/2" x 1" Valve | | VALVE,RELIEF 1/2" 110H SE | In Stock | |
| Units 1 & 2 H.P. Feedwater System | Boiler Feed | Boiler Feed Recirculation Valve to DA | 4" Valve | | VALVE,GATE 4 CS BW 300# | In Stock | |
| Combustion Air & Gas Instruments | Burner Management | Positioner | 2.5" x 5" Pneumatic | | 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 | BEARING,JOURNAL MP 215878E | Non-Stock | |
| | | | | Flowserve for bearing spec. | | | |



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



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 |
|----------------------------------|---|------------------------|---------------------------------------|----------------|--------------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Generator | Synchronous Condenser | Thrust Bearing | Thrust bearing | | BEARING,THRUST U3 SYNC COND | In Stock | |
| Generator | Synchronous Condenser | Thrust Bearing | Thrust bearing | | BEARING,THRUST U3 SYNC COND | In Stock | |
| Generator | Synchronous Condenser | Thrust Bearing | Seal Ring | | RING,SEAL U3 SYNC COND | In Stock | |
| Generator | Synchronous Condenser | Thrust Bearing | Thrust Bearing | | THERMOCOUPLE,U3 SYNC COND | In Stock | |
| Generator | Seal Oil System | Seals | BelloWS | | BELLOWS,HITACHI | In Stock | |
| Generator | Seal Oil System | Seals | Gaskets | | GASKET,HITACHI | In Stock | |
| Generator | Seal Oil System | Seals | Gaskets | | GASKET,HITACHI | In Stock | |
| Generator | Seal Oil System | Seals | Gaskets | | GASKET,HITACHI | In Stock | |
| Generator | Exciter | Exciter Control System | Converter | | CONVERTER,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | ECT Panel | | ECT PANEL,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Controller | | CONTROLLER,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Computer | | COMPUTER,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Firing Board | | BOARD,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Message Module | | MODULE,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Input Coupling | | INPUT COUPLING UNIT,ABB | In Stock | |
| Generator | Exciter | Exciter Control System | Power Supply | | POWER SUPPLY,ABB | In Stock | |
| Generator | Exciter | Exciter Control System | Crowbar | | CROWBAR,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Murr | | MURR,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | Resistor | | RESISTOR,ABB EXCITER | In Stock | |
| Generator | Exciter | Exciter Control System | I/O Board | | BOARD,ABB COMBINED I/O | In Stock | |
| Generator | Exciter | Exciter Control System | Field Breaker | | BREAKER,FIELD ABB E2/E | In Stock | |
| Generator | Stator | Stand Off Insulators | Insulator Bushing | | BUSHING,HIGH VOLTAGE HIT | In Stock | |
| Generator | Stator | PT Cubicle | Potential Transformer (PT) | | VOLTAGE TRANSFORMER, ABB VIZZ- | In Stock | |
| Generator | Stator | PT Cubicle | Fuse | | FUSE GE EID-1-C5881405G1 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Trip Valve | 1-1/2" Valve | | VALVE KIT,JAMES RK65SMT | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Light Oil / Air Supply Solenoid Valve | | SOLENOID,ASCO 8342C1 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Purge Solenoid Valve | | SOLENOID,ASCO 8262G232 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Pneumatic Actuator | | ACTUATOR,PNEU R16C | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Ignition Transformer | | XFMR,IGNITION 120V 60C | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Relay | | BOX,IGNITOR C/W CABLES N-6 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Sunspot - Scanner | | SCANNER,FOSSIL 9100-1000 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | Snap Action Switch | | MICROSWITCH,16CX12-D01 | In Stock | |
| Ignitor Light Oil and Air Supply | Light Oil | Igniter Control Box | 1/4" Light Oil Air Ball Valves | | VALVE,BALL 1/4" U3,IGNITOR | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Level Transmitter LP Heater #1 | | TRANSMITTER,LEVEL | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Aquarian Alarm Modules | | MODULE,AQUARIAN | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Solenoid | | SOLENOID,ASCO 8300 125 VDC | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Relay | | RELAY,OMRON M4M4XP-DC125 | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Conductivity Probe | | PROBE,CONDUCTIVITY | In Stock | |
| L.P. Feedwater System | L.P. Heater Controls (Water Induction Protection) | | Gauge Glasses | | GAUGE,GLASS 3/4X48 | In Stock | |
| L.P. Feedwater System | Deaerator System | | Deaerator | | | In Stock | |



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 |
|---|--------------------------------------|---------------------------|-------------------|----------------|------------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| L.P. Feedwater System | Deaerator System | Level Control | Level Switch | | SWITCH ASSY, MAG 89-7401-052 | In Stock | |
| L.P. Feedwater System | Deaerator System | Level Control | Solenoid | | SOLENOID, ASCO 8320G184M0 | In Stock | |
| L.P. Feedwater System | Deaerator System | Level Control | Level Transmitter | | TRANSMITTER, DP 0-120" H2O | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Repair Kit | | VALVE KIT, BALL 8" | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Repair Kit | | ACTUATOR KIT, WORCH C-38 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Valve | | VALVE, FISH 8560-1052-36105 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Disc | | DISC, FISH 75B1036X102 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Pin | | PIN, FISH 75B1122X052 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Pin | | PIN, FISH G13725K0022 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Ring | | RING, FISH 75B0311X032 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Shaft | | SHAFT, FISH 75B0014X012 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Spring | | SPRING, FISH 75B0012X012 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Packing | | PACKING, FISH 12A8951X022 | In Stock | |
| L.P. Feedwater System | Condensate Polishers (Units 1, 2, 3) | Control Valves | Bearing | | BEARING, FISH 75B1076X012 | In Stock | |
| L.P. Feedwater System | LP Heaters | NRV Valves - #2 LP Heater | 20" Dia | | GASKET, COVER HIT | In Stock | |
| L.P. Feedwater System | LP 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 | Vacuum Unloading Device | Belows | | | BELLOW ASSY, HIT L1000-1 | In Stock | |
| Powerhouse and Switchyard Single Line | 258V DC System | Charger | 400A DC Breaker | | BREAKER, DC KFD2040 400A | In Stock | |
| Turbine Generator System Stage 2 | 258V DC System | Governor | 40A DC Breaker | | BREAKER, DC KFD2040 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 | |



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 |
|----------------------------------|---------------------------|-----------------------------|----------------------------|---|-------------------------------|----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Packing | | PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Piston | | PISTON RING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Washer | | WASHER,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Washer | | WASHER,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Washer | | WASHER,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Washer | | WASHER,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | Electrical Trip Test Device | Seat Packing | | SEAT PACKING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Governor | DC Lube (Flushing) Oil Pump | Bearing | Parts common to AC Pump | BEARING,PLANE HIT ITEM 35 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | DC Lube (Flushing) Oil Pump | Bearing | Parts common to AC Pump | BEARING,PLANE HIT ITEM 36 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | DC Lube (Flushing) Oil Pump | Auto Start Pressure Switch | | SWITCH,PRESS 10-300 TYPE ACM2 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Seal Ring | | SEALRING,10P-067-551-17 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Seal Ring | | SEALRING,10P-067-551-18 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | O-Ring | | O-RING,HITACHI | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Ring | | RING,HIT 10P 067-551-13 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Ring | | RING,HIT 10P 067-551-17 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Ring | | RING,HIT 10P 067-551-18 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Shaft Driven Oil Pump | Brush | | BRUSH,HIT 10P 067-551-38 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Auxiliary Oil Pump | Bearing | | BEARING,PLANE HIT ITEM 35 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Auxiliary Oil Pump | Bearing | | BEARING,PLANE HIT ITEM 36 | In Stock | |
| Turbine Generator System Stage 2 | Turbine Lube Oil System | Auxiliary Oil Pump | Motor | Refurbishable item. If it is not in stock, it is out for refurbishment. | 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 | Main Steam Chest Assembly | Stop Valves | Bushing | | BUSHING,HIT 10P-038-197/18 | In Stock | |



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 |
|----------------------------------|-----------------------------|--|---|-------------------------------------|-------------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Bushing | | BUSHING,HIT_10P0611582 | In Stock | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Bushing | | BUSHING,HIT_10P0611586 | In Stock | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Bushing | | BUSHING,HIT_10P06115814 | In Stock | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Rivet | | RIVET,HIT_10P-061-158-63 | In Stock | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Stem | | STEM,HIT_10P06115877 | In Stock | |
| Turbine Generator System Stage 2 | Reheat Steam Chest Assembly | Reheat/ICV Valves | Pin | | PIN,HIT_10P06115872 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | 2" Valve | Pressure Transmitter - Unit 3 | | TRANSMITTER,PRESS 0-200 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Main Steam Control Valve - | Bushing | | BUSHING,FISH 1E845714012 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Main Steam Control Valve - | Diaphragm | | DIAPHRAGM,FISH 2E859602202 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Main Steam Control Valve - | Actuator repair kit | | ACTUATOR KIT,FISH R667X000502 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Main Steam Control Valve - | Packing Kit | | PACKING KIT,FISH RPACCKX0011 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Main Steam Control Valve - | Positioner | | POSITIONER,FISH DVC6200 | On Order | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Auxiliary Steam Control Valve - actuator | Aux Steam Control Valve - Actuator - Unit 3 | | ACTUATOR KIT,FISH R470X00032 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Aux Steam Control Valve - Body - Unit 3 | | BODY,VALVE FISH 3M1920292022 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Dump Control Valve - Actuator - Repair Kit - Unit 3 | | ACTUATOR KIT,FISHER R667 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Ring | | RING,FISH 17A3990X022 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Ring | | RING,FISH 1U508039102 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Pin | | PIN,FISH_1V3276035072 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Cage | | CAGE,FISH 2U505939102 | In Stock | |
| Turbine Generator System Stage 2 | Steam Seal Regulator | Steam Seal Regulator | Plug | | PLUG,FISH 27A3953X012 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Series 8500 size 95 w/ 95" @ | Thrust Plate | | THRUST PLATE KIT,DODGE 132221 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Drive Motor | Formed Coils | | COLL,WINDING U3 FD FAN | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Fan Assembly | Liner | | LINER ASSY,DODGE 132423 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Fan Assembly | Collar | | COLLAR,DODGE 132154 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Fan Assembly | Opposite side bearing | | LINER ASSY,DODGE 132951 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Fan Assembly | 2 - Temperature probes installed in bearings | | THERMOCOUPLE,TYPE T | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Fan Assembly | Falk Steelflex coupling | | COUPLING,STEEFLEX GRID | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | 2 - Independent bearing pedestals | Gasket | | GASKET,DODGE 132170 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Outlet damper | Damper | To be ordered & stocked as required | DAMPER,STOCKBRIDGE 0.866" | Non-Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | Outlet damper | Damper | To be ordered & stocked as required | DAMPER,STOCKBRIDGE 1.004" | Non-Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | variable inlet vanes | Actuator Repair Kit | | DRIVE KIT,BAILEY 532694C1 | In Stock | |
| Unit 3 Air & Flue Gas | F.D. Fans | variable inlet vanes | Actuator repair kit | | DRIVE KIT,BAILEY 256111A0 | In Stock | |
| Unit 3 Air & Flue Gas | Rotary Air Heaters | Gearbox | Gearbox | | GEARBOX,AIR HEATER U3 | In Stock | |
| Unit 3 Air & Flue Gas | Rotary Air Heaters | Pneumatic Drive System | Air Drive Motor | | AIR MOTOR,ING RAND | In Stock | |
| Unit 3 Air & Flue Gas | Rotary Air Heaters | Baskets | Basket Set | To be ordered & stocked as required | BASKET SET,AIR HEATER 22-1/2" | Non-Stock | |
| Unit 3 Air & Flue Gas | Rotary Air Heaters | Baskets | Basket Set | To be ordered & stocked as required | BASKET SET,HOT END 22-1/2" | Non-Stock | |



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 |
| 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 | Gasket | | | GASKET SET, FISH RGASKETX362 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Packing | | | PACKING KIT, FISH RPACCKX0002 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Actuator | | | ACTUATOR KIT, FISH R667X000502 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Regulator | | | REGULATOR KIT, FISH WR67AFR0011 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Bushing | | | BUSHING, FISH 1E845714012 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Diaphragm | | | DIAPHRAGM, FISH 2E859802202 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Trip Valve | Cage | | | CAGE, FISH 2U236033272 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Ring | | | RING, FISH 1U222046172 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Seat | | | SEAT, FISH 1U222046172 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Plug/Stem | | | PLUG/STEM, FISH 1V6571X0042 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Cage | | | CAGE, FISH 2U215333272 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Gasket | | | GASKET SET, FISH RGASKETX242 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Packing | | | PACKING KIT, FISH RPACCKX00012 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Bushing | | | BUSHING, FISH 1E682814012 | In Stock |
| Unit 3 Fuel Oil System | Combustion Control Valves | Diaphragm | | | DIAPHRAGM, FISH 2E669902202 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Cage | | | CAGE, FISH 2U223733272 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Ring | | | RING, FISH 1U222646172 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Plug/Stem | | | PLUG ASSY, FISH 1V6575X0052 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Packing | | | PACKING KIT, FISH RPACCKX0002 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Gasket | | | GASKET SET, FISH RGASKETX182 | In Stock |
| Unit 3 Fuel Oil System | Atomizing Steam Valve | Diaphragm | | | DIAPHRAGM, FISH 2E670002202 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Packing | | | PACKING KIT, FISH RPACCKX0002 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Repair Kit | | | ACTUATOR KIT, FISH R667X000402 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Bushing | | | BUSHING, FISH 1E682814012 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Retainer | | | RETAINER, FISH 1V710935072 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Disc | | | DISC, FISH 1V71006242 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Seat | | | SEAT, FISH 1V711135072 | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Trip Valves (3) | Diaphragm | | | DIAPHRAGM, FISH 2E669902202 | In Stock |
| Unit 3 Fuel Oil System | Header Pressure Control Valve | Repair Kit | | | CAGE, FISH 2U227633272 | In Stock |
| Unit 3 Fuel Oil System | Header Pressure Control Valve | Bushing | | | ACTUATOR KIT, FISH R667X000402 | In Stock |
| Unit 3 Fuel Oil System | Header Pressure Control Valve | Diaphragm | | | BUSHING, FISH 1E682814012 | In Stock |
| Unit 3 Fuel Oil System | Fuel Oil Pumps | Pump | | | DIAPHRAGM, FISH 2E669902202 | In Stock |
| Unit 3 Fuel Oil System | Main Fuel Oil Recirculation Valve | 1" Welded Flange Valve w/ Actuator | | | PUMP, MAIN FUEL OIL KRAL | In Stock |
| Unit 3 Fuel Oil System | Level Fuel Oil Recirculation Valves | 3/4" Welded Valve w/ Actuator | | | VALVE ASSY, JAMES 1052 1" | In Stock |
| Unit 3 Fuel Oil System | Burners | Oil Valve | | | VALVE KIT, JAMES RK85MT | In Stock |
| Unit 3 Fuel Oil System | Burners | Steam Valve | | | GASKET SET, FISH RGASKETX312 | In Stock |
| Unit 3 Fuel Oil System | Burners | Steam Valve | | | PACKING KIT, FISH RPACCKX00012 | In Stock |
| Unit 3 Fuel Oil System | Burners | Steam Valve | | | PLUG/STEM, FISH 1U2161X0082 | In Stock |
| Unit 3 Fuel Oil System | Burners | Steam Valve | | | RING, FISH 1U225246172 | In Stock |
| Unit 3 Fuel Oil System | Burners | Steam Valve | | | CAGE, FISH 2U215033272 | In Stock |
| Unit 3 Fuel Oil System | Burners | Scavenge Valve | | | GASKET SET, FISH RGASKETX312 | In Stock |



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 |
|------------------------------|-----------------------------|-------------------------------|--------------------------------------|--|--|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Unit 3 Fuel Oil System | Burners | Scavenge Valve | Packing | | PACKING KIT,FISH RPACXK00012 | In Stock | |
| Unit 3 Fuel Oil System | Burners | Scavenge Valve | Plug/Stem | | PLUG/STEM,FISH 1U2161X0082 | In Stock | |
| Unit 3 Fuel Oil System | Burners | Scavenge Valve | Ring | | RING,FISH 1U222546172 | In Stock | |
| Unit 3 Fuel Oil System | Burners | Scavenge Valve | Cage | | CAGE,FISH 2U215033272 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Rotating Assembly | | CASE ASSY,BWL (INNER) | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Shoe Assembly | | SHOE ASSY,K100166-A-3 740 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Throttle bushing [2 req'd] | | BUSHING,BWL 3106181 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Bearing | | BEARING,HIT 9-60-1 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Bearing | | BEARING,HIT 9-60-2 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Balance bushing | | BUSHING,BWL 3106181 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Thrust bearing | | BEARING ASSY,THRUST JH1-5 | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | Gaskets | | GASKET,BWL T-101204IG | In Stock | |
| Unit 3 H.P. Feedwater System | Boiler Feed | Boiler Feed Pumps | 2350HP Motor, 4160Vac | Motor stored off site via service contract | SCIM, sn# 1026842642, frame MGP450D, 2350HP, 4160Vac, 60Hz | Non-Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 6" - EHT valve,1500lb - Welded | | DIAPHRAGM,FISH 2R6376X00 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 10A5411X022 - Seal Ring | | RING,FISH 10A5411X022 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 13A5599X052 - O Ring | | O-RING,FISH 13A5599X052 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 26A5299X052 - Seat Ring Retainer | | RING,FISH 26A5299X052 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 27A2798X042 - Seat Ring, O-Ring | | RING,FISH 27A2798X042 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 42B3570X012 - Cage, Eq% | | CAGE,FISH 42B3570X012 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 36A5366X062 - Plug/Stem Bal | | PLUG/STEM,FISH 36A5366X062 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 2 - 26A5314X012 - Gasket | | GASKET,FISH 26A5314X012 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 11872906332 - Upper Wiper | | WIPER,FISH 11872906332 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 11873435072 - Packing Box Ring | | RING,FISH 11873435072 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 1R290601012 - Packing Set | | PACKING,FISH 1R290601012 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 1H7441X0022 - Bushing Seal | | SEAL,FISH 1H7441X0022 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - 2R6376X0082 - Diaphragm | | DIAPHRAGM,FISH 2R6376X00 | In Stock | |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | Main Feed Water Control Valve | 1 - R667X000802 - Repair Kit | | ACTUATOR KIT,FISHER R667 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heater Controls (Water | All HP Heaters | Conductivity Probe | | PROBE,CONDUCTIVITY | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heater Controls (Water | H.P. Heater Controls (Water | Aquarian Alarm Module | | PROBE,AQUARIAN | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heater Controls (Water | H.P. Heater Controls (Water | Level Transmitter | | TRANSMITTER, DP O-120" H2O | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heater Controls (Water | H.P. Heater Controls (Water | Relay | | RELAY,OMRON MM4XR-DC125 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Solenoid | | SOLENOID,ASCO 8300 125 VDC | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Bushing | | BUSHING,DEW 0800109 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Clip | | CLIP,DEW 0540097 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Ring | | RING,DEW 0760093 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Ring | | RING,DEW 668215DEW | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Screw | | SCREW,DEW 0440024 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Spacer | | SPACER,DEW 0660065 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Spring | | SPRING,DEW 6580312 (3/SET) | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Stem | | STEM,DEW 0040851 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Stud | | STUD,DEW 0282351 | In Stock | |
| Unit 3 H.P. Feedwater System | H.P. Heaters | Motorized Bypass Valves | Stud | | STUD,DEW 0280514 | In Stock | |



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 |
|------------------------------|----------------------------|------------------------------|--------------------------------|---|--------------------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | |
| 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 - #4 HP Heater | 8" Dia | | GASKET,COVER HIT | In Stock |
| Unit 3 H.P. Feedwater System | H.P. Heaters | NRV Valves - #4 HP Heater | 10" Dia | | GASKET,COVER HIT | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Stud | | STUD,DEW 0280443 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Stud | | STUD,DEW 0280513 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Disc | | DISC,DEW 051095 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Ring | | RING,DEW 0760072 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Ring | | RING,DEW 2004920 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Stud | | STUD,DEW 0440024 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Nut | | NUT,DEW #2003863 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Nut | | NUT,DEW 2000006 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Motorized Discharge Valves | Nut | | NUT,KEYSTONE 903-735 | In Stock |
| Unit 3 H.P. Feedwater System | Steam Drum | Level Control Transmitters | Transmitter | | TRANSMITTER, PRESS 5-800 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Cage | | CAGE ASSY,FISH 22A3525X022 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Packing | | PACKING,FISH 1R290601012 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Plug/Stem | | PLUG,STEM,FISH 22A3527X052 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Gasket | | GASKET,FISH 10A415X012 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Gasket | | GASKET,FISH 10A415X012 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Ring | | RING,FISH 10A4210X012 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Ring | | RING,FISH 12A3529X012 | In Stock |
| Unit 3 H.P. Feedwater System | Feed Water Flow Controls | LL Control Valve | Ring | | RING,FISH 11A3306X012 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | Suction Line Safety Valve | 1/2" Dia | | VALVE,RELIEF 1/2"110# SF | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Body | | BODY,VALVE MASON 37-79264 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Ring | | RING KIT,MASON 01148734399 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Gasket | | GASKET,MASON 356154-152-825 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Seal | | SEAL,MASON 354810-034-779 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Retainer | | RETAINER,MASON 358754-000-163 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Seal | | SEAL,MASON 358753-000-210 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Pin | | PIN,MASON 971342-023-250 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Stem | | STEM,MASON 358738-113-210 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Plug | | PLUG,MASON 011508398-206-0000 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Seat | | SEAT,MASON 358748-000-596 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Liner | | LINER,MASON 011509395-213-0000 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Diaphragm | | DIAPHRAGM,MASON 010275-040-77 | In Stock |
| Unit 3 H.P. Feedwater System | Boiler Feed | DA Recirculation Block Valve | Stem | | STEM,MASON 770354-027-152 | In Stock |
| Station Board SB12 (S581) | Aux Transformer ATC - S583 | Power Center C SAB12 (C1) | Feeder to MCC E1 - breaker C4 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | | In Stock |
| Station Board SB12 (S581) | Aux Transformer ATC - S583 | 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 |



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 |
|---------------------------|----------------------------|---|--------------------------------------|---|-----------------------|----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | Feeder to Power Centre - breaker C14 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | Feeder to Power Centre - breaker C15 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C3 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C5 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C6 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C8 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C9 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C10 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C11 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C12 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | breaker C13 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | Circuit Breaker to Bus - breaker C16 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | Circuit Breaker to Bus - breaker C17 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | Feeder to MCC - breaker C18 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | In Stock | |



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 |
|---------------------------|---------------------------------|--|---|---|----------------------------|----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Station Board SB12 (SB81) | 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 (SB81) | | | SSB-3 Relay | Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL551C | In Stock | |
| Station Board SB12 (SB81) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | Relays | Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL551C | In Stock | |
| Station Board SB12 (SB81) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15) | Relays | Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL551C | In Stock | |
| Station Board SB12 (SB81) | | | 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 (SB81) | | | SSB-4 Relay | Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL551C | In Stock | |
| Station Board SB12 (SB81) | | | SSB-4 Relay | Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL551C | In Stock | |
| Station Board SB12 (SB81) | | | 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 (SB81) | | | 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 | |



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 |
|---------------------------|---|---------------------------|---|---|---------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| 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 SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | breaker ST34 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | breaker TB12 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | breaker TB12 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | breaker SAT34 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | breaker SAT34 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | 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 SEL551C | 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 SEL551C | In Stock | |
| Station Board SB34 (ST34) | | | Feeder to Station Board - breaker ST34 & relays | Shares spare with Feeder to Station Board - breaker SSB-1, 5HK VR-250-2000A | BREAKER,EATON 4160V 2000A | In Stock | |
| Station Board SB34 (ST34) | | | Feeder to Station Board - breaker TB12 & relays | Shares spare with Feeder to Station Board - breaker SSB-1, 5HK VR-250-2000A | BREAKER,EATON 4160V 2000A | In Stock | |
| Station Board SB34 (ST34) | TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3) | | Circuit Breaker TB3 | Shares spare with Feeder to Station Board - breaker SSB-1, 5HK VR-250-2000A | BREAKER,EATON 4160V 2000A | In Stock | |
| 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 | |



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 |
|--|---|---|---|---|----------------------------|--|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| 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 |



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 |
|------------------------|----------------------------|--|---|---|-----------------------------|----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) | A5 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER, EATON 600V | In Stock | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) | A6 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER, EATON 600V | In Stock | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) | A7 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER, EATON 600V | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-4 relay | Shares spare with all other P&B Golds devices. | RELAY, RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-9 relay | Shares spare with all other P&B Golds devices. | RELAY, RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-11 relay | Shares spare with all other P&B Golds devices. | RELAY, RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-2 relays | Shares spare with CGE HFA devices | RELAY, AUXILIARY RXMA-2 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-2 relays | Shares spare with CGE HFA devices | RELAY, AUXILIARY RXMA-1 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-2 relays | Shares spare with CGE HFA devices | RELAY, AUXILIARY RXMS-1 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-2 relays | Shares spare with CGE HFA devices | RELAY, AUXILIARY RXMH-2 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-3 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL 551C | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-3 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL 551C | In Stock | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9) | Relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY, OVERCURRENT SEL 551C | In Stock | |
| Unit Board UB1 (UB1-2) | | | Feeder to Unit Board UB1 - breaker UB1-2 | 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 | |



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 |
|------------------------|----------------------------|--------------------------|---|---|----------------------------|--|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| 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 |
| Unit Board UB1 (UB1-2) | | | UB1-2 relays | Shares spare with other Westinghouse relays - replaced by ABB SPAU121C | RELAY,VOLTAGE ABB SPAU121C | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | Feeder to Power Centre B - breaker B1 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | Feeder to transformer LT-B - breaker B4 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | Feeder to MCC B1 - breaker B5 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | B2 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | B6 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | B7 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | Aux Transformer ATB (UB22) | Power Center B UAB2 (B1) | B8 | Shares spare re-build kit/critical spares kit with other CGE AK breakers. | BREAKER,EATON 600V | | In Stock |
| Unit Board UB2 (UB2-1) | | | UB2-3 relay | Shares spare with all other P&B Golds devices. | RELAY,RETRO. P&B3E5N11 | | In Stock |



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 |
|------------------------|------------|-------|---|---|---------------------------|----------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| Unit Board UB2 (UB2-1) | | | UB2-4 relay | Shares spare with all other P&B Golds devices. | RELAY,RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-9 relay | Shares spare with all other P&B Golds devices. | RELAY,RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-10 relay | Shares spare with all other P&B Golds devices. | RELAY,RETRO. PBSJ3E5N11 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-1 relays | Shares spare with CGE HFA devices | RELAY,AUXILIARY RXMA-2 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-1 relays | Shares spare with CGE HFA devices | RELAY,AUXILIARY RXMA-1 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-1 relays | Shares spare with CGE HFA devices | RELAY,AUXILIARY RXMS-1 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-1 relays | Shares spare with CGE HFA devices | RELAY,AUXILIARY RXMH-2 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-2 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-2 relays | Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C | RELAY,OVERCURRENT SEL551C | 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 | |
| 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 | |



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 |
|------------------------|-----------------------------|--------------------------|---|---|----------------------------|--|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | | |
| 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) | AC12 | 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. PBSJ35N11 | | 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 |



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 |
|---------------------------|-----------------------------|---------------------------|--|---|-----------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Unit Board UB3 (UT3) | | | Feeder to Unit Board - breaker UT3 | Shares spare with Feeder to Station Board - breaker SSB-1. | BREAKER, EATON 4160V 2000A | In Stock | |
| Unit Board UB3 (UT3) | | | Feeder to transformer UAT3 - breaker UAT3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | BFE3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | BFW3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | FDE3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | FDW3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | CEN3 | Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A | BREAKER, EATON 4160V 1200A | In Stock | |
| Unit Board UB3 (UT3) | | | CE33 | 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 UA83 (UA83) | 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) | | | Relays | Replaced by SEL701 | RELAY, PROTECTION SEL701 | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | 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, I Relay | Replaced by ABB SYN5201-0271 | SYNCHROTECT, SYN5201 | In Stock | |
| Station Board SB12 (SSB1) | | | SSB-1, I 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 | |



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 |
|-----------------------------|---------------------------------|----------------------------------|-------------------------------------|---|----------------------------|------------------|------------------|
| | Sub-System | Asset | Defined Spare | Notes | Inventory Description | Inventory Status | |
| Station Board SB12 (SSB1) | | | SSB-1 Relay | Replaced by ABB RXMA/RXMH | RELAY,AUXILIARY RXMS-1 | In Stock | |
| Station Board SB12 (SSB1) | | | SSB-1 Relay | Replaced by ABB RXMA/RXMH | RELAY,AUXILIARY RXMH-2 | In Stock | |
| Station Board SB34 (ST34) | | | breaker PSM3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-5 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-6 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-7 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-8 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB1 (UB1-2) | | | UB1-10 relay | | 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 | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB2 (UB2-1) | | | UB2-7 relay | | 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 | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | BFW3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | FDE3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | FDW3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | CEN3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | CE33 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | CWE3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Board UB3 (UT3) | | | CWW3 relay | | RELAY,PROTECTION SEL701 | In Stock | |
| Unit Aux Transformer (UAT3) | | Aux Board UAB3 (UAB3) | Relays | | RELAY,PROTECTION SEL701 | In Stock | |
| Station Board SB12 (SSB1) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | Feeder to Power Centre - breaker C1 | Purchasing re-build kit/critical | 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 | BREAKER,EATON 600V | In Stock | |
| Station Board SB34 (ST34) | Aux Transformer ATC - SSB3 | Power Center C SAB12 (C1) | Feeder to transformer SAT34 - | Direct replacement breaker 5HK- | BREAKER,EATON 4160V 1200A | In Stock | |
| Station Board SB34 (ST34) | Station Aux Transformer (SAT34) | Station Aux Board (SAB34) | Feeder to Station Board - breaker | Purchasing re-build kit/critical | BREAKER,SCHNEIDER 600V | In Stock | |
| Station Board SB34 (ST34) | Station Aux Transformer (SAT34) | Station Aux Board (SAB34) | Feeder to Station Board - breaker | Purchasing re-build kit/critical | BREAKER,SCHNEIDER 600V | In Stock | |
| Station Board SB34 (ST34) | Station Aux Transformer (SAT34) | Station Aux Board (SAB34) | WAM34 | Purchasing re-build kit/critical | BREAKER,SCHNEIDER 600V | In Stock | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) | Relays | Purchasing re-build kit/critical | RELAY,RETRO. P8S3E5N11 | In Stock | |
| | | (Alternate Feed Transfer Bus A9) | | Shares spare with all other P&B Golds devices. | | | |
| Unit Board UB1 (UB1-2) | UB13 (Aux Transformer ATA) | Power Center A UAB1 (A1) | Relays | Shares spare with CGE JAC51 and | 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 | RELAY,RETRO. P8S3E5N11 | In Stock | |

Appendix F

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



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 | Medium | N/A | |
| Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | Medium | N/A | |
| Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | Medium | N/A | |
| NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems | In Stock | High | N/A | |
| Combustion Chamber, Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems | In Stock | High | N/A | |
| Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems | In Stock | High | N/A | |
| Pressure Switch, Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | Medium | N/A | |
| Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | High | N/A | |
| Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | Medium | N/A | |
| Oil Pump - Complete, Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems | In Stock | Low | N/A | |
| LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems | In Stock | Low | N/A | |
| Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems | In Stock | Medium | N/A | |
| Heater Control Temperature Switch (TS-GLO-1), Gas Generator Lube Oil System, Auxiliary Systems | In Stock | Medium | N/A | |
| Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems | In Stock | Medium | N/A | |
| Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems | In Stock | Medium | N/A | |
| Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems | In Stock | Medium | N/A | |
| Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | Medium | N/A | |
| Proximity Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT | In Stock | Low | N/A | |
| Vibration accelerometer (181571), Power Turbine Model CT2, Prime Mover Systems | In Stock | Medium | N/A | |
| Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems | In Stock | Medium | N/A | |
| 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, HWDGT | In Stock | Medium | N/A | |
| Pressure Switch, Gas Generator Lube Oil System, Auxiliary System, HWDGT | In Stock | Medium | 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, HWD GT | In Stock | Low | N/A | |
| Oil Drain Alternator Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | Low | N/A | |
| Oil Drain Clutch Bearing Thermocouple, Main Lube Oil System, Auxiliary Systems, SVL GT | In Stock | Low | N/A | |
| Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD 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 | Medium | N/A | |

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|---------------------------------|------------|-------------------|----------|
| TURBINE EXHAUST TUNNEL - THERMAL DETECTOR, KIDDE-FENWAL-12-H27121-020-08 | Provided Under Service Contract | Medium | N/A | |
| FIRE CONTROL PANEL TROUBLE ALARM TO DCS, DET-TRONICS:U9500A | Provided Under Service Contract | Low | N/A | |
| FIRE CONTROL PANEL DISCHARGE -ALARM TO DCS, NOTIFIER-APP-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 | On Hand - Under Parts | | | |
| Control Module with ControlNet communication | Management-Agreement | High | N/A | |
| IFM, Analog, 16 channel - Fusible 16 Channel Analog IFM, | On Hand - Under Parts | | | |
| 24V Blown Fuse Indicators, 5 Terminals per Input, Analog Interface Module | Management-Agreement | Medium | N/A | |
| IFM, analog, 8 channel - Feed-Through 8 Channel Analog IFM, | On Hand - Under Parts | | | |
| 3 Terminals per Input, Analog Interface Module | Management-Agreement | Medium | N/A | |
| IFM, digital, 40 point - 40-Point Isolated Fusible Digital IFM, | On Hand - Under Parts | | | |
| 5 x 20mm Fuse Clips, 24V AC/DC Blown Fuse Indicators, | Management-Agreement | Medium | N/A | |
| 4 Terminals per Input, Digital Interface Module | Management-Agreement | Medium | N/A | |
| Module, relay expander - Relay Expander Module, | On Hand - Under Parts | | | |
| 24V DC, 16 Relays with Fusing | Management-Agreement | Medium | N/A | |
| 10 Slot ControlLogix Chassis | On Hand - Under Parts | Medium | N/A | |
| 4 Slot ControlLogix Chassis | Management-Agreement | Medium | N/A | |
| ControlNet Interface Module (100 connections) | On Hand - Under Parts | | | |
| ControlNet Interface Module (100 connections) | Management-Agreement | Medium | N/A | |
| ControlNet Redundant Interface Module (100 connections) | On Hand - Under Parts | | | |
| ControlNet Redundant Interface Module (100 connections) | Management-Agreement | Medium | N/A | |
| ControlNet Redundant Bridge Module (40-48 connections) | On Hand - Under Parts | | | |
| EtherNet 10-100M Interface Module | Management-Agreement | Medium | N/A | |
| (supports 128 TCP/IP connections) | Management-Agreement | Medium | N/A | |
| EtherNet 10-100M Interface Module | On Hand - Under Parts | | | |
| (supports 64 TCP/IP connections) | Management-Agreement | Medium | N/A | |
| 10-30 VDC Isolated Input 16 Pts (36 Pin) | On Hand - Under Parts | | | |
| 10-30 VDC Individually Isolated Input 16 Pts (36 Pin) | Management-Agreement | Medium | N/A | |
| Analog Input - Current/Voltage 16 Pts (36 Pin) | On Hand - Under Parts | | | |
| Controller, controlLogix 5570, 2MB | Management-Agreement | Medium | N/A | |
| ControlLogix 5570 Controller with 2 MB Memory, | On Hand - Under Parts | | | |
| USB Port, 4 Character Alpha/Numeric Display. | Management-Agreement | High | N/A | |
| Controller, ControlLogix 5570, 4MB | On Hand - Under Parts | | | |
| ControlLogix 5570 Controller with 4 MB Memory, USB Port, 4 Character Alpha/Numeric Display. | Management-Agreement | High | N/A | |
| 10-31 VDC Output 32 Pts (36 Pin) | On Hand - Under Parts | | | |
| 10-31 VDC Output 32 Pts (36 Pin) | Management-Agreement | Medium | N/A | |
| Analog Output - Current/Voltage 8 Pts (20 Pin) | On Hand - Under Parts | | | |
| Analog Output - Current/Voltage 8 Pts (20 Pin) | 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 (10 Amp @ 5V) | On Hand - Under Parts Management Agreement | Medium | N/A | |
| ControlLogix, 85-265 VAC Power Supply (13 Amp @ 5V) | On Hand - Under Parts Management Agreement | Medium | N/A | |
| Redundancy Module | On Hand - Under Parts Management Agreement | Medium | N/A | |
| ControlLogix Position and Time Services | On Hand - Under Parts Management Agreement | Medium | N/A | |
| Stratix 5700 Switch, Managed, 16 Fast Ethernet Copper Ports, 2 Fast Ethernet Fiber SFP Slots, Lite Software, DLR | On Hand - Under Parts Management Agreement | Low | N/A | |
| Networks and Communication Products, ControlNet Repeater Adapter Module | On Hand - Under Parts Management Agreement | Low | N/A | |
| Networks and Communication Products, Long-distance Fiber Ring Repeater Module | On Hand - Under Parts Management Agreement | Low | N/A | |
| Networks and Communication Products, Long-distance Fiber Ring Repeater Module | On Hand - Under Parts Management Agreement | Low | N/A | |
| Networks and Communication Products, Right-angle T-tap | On Hand - Under Parts Management Agreement | Low | N/A | |
| Networks and Communication Products, Right-angle Y-tap | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, ControlNet FLEX I/O Adapter Module | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 16 Sink Inputs | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 24VDC, 32 Sink Inputs | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Modules, 8 Single-Ended Inputs | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Analog Input Module, 16 Bit, 4 Point Isolated | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 2-Channel High Resolution Frequency | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, 8 Point RTD | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Non-Isolated, Thermocouple / RTD / Mv | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Input Module, Thermocouple, 8 Point | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Output Module, 24V DC, 16 Source Outputs | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Output Module, 24V DC, 32 Source (2 groups of 16)Outputs, Protected | On Hand - Under Parts Management Agreement | Low | N/A | |
| 1794 Flex, Flex Ex, Flex XT I/O System, Analog Output Module, 16 Bit, 4 Point Isolated | On Hand - Under Parts Management Agreement | Low | N/A | |
| PF750-24V I/O Module-2AI,2AO,6DI,2RO | On Hand - Under Parts Management Agreement | Low | N/A | |



Critical Spares Status
Holyrood – Gas Turbine

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

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|----------|------------|-------------------|----------|
| MODULE, POWER INPUT LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA:133300-01 | In Stock | Medium | N/A | |
| MANUAL, POWER SUPPLY MODULE POWER SUPPLY MODULE, MANUAL, BENTLY NEVADA:129767-01 | In Stock | Medium | N/A | |
| E-CELL 55A CURRENT TRANSDUCER, PHOENIX CONTACT:3062518 | In Stock | Low | N/A | |
| E-CELL 32A CONTACTOR, GENERAL ELECTRIC:3060877 | In Stock | Low | N/A | |
| PANEL HEATER 120V 60HZ 400W, PH40011 | In Stock | Low | N/A | |
| SOLAR SPARK PLUG IGNITER, CENTAUR:903316C1 | In Stock | Low | N/A | |
| SHAFT, FISHER | In Stock | Low | N/A | |
| SHAFT, FISHER:7000400800 | In Stock | Low | N/A | |
| PUMP, CONVERTER CHARGING TORQUE CONVERTER CHARGING PUMP, KOENIG:X216228-J | In Stock | Low | N/A | |
| REPAIR KIT, SSS CLUTCH MINOR KOENIG:SL17998MINKT | In Stock | Medium | N/A | |
| VALVE, CHECK 3" 3MB60-6047-WR | In Stock | Medium | N/A | |
| VALVE, SS POPPET CHECK SS POPPET CHECK VALVE, SWAGELOCK:SS-6C-1 | In Stock | Low | N/A | |
| VALVE, FUEL CHECK FUEL LINE CHECK VALVE, PARKER:10A-CBG8L-10-PF-SS, VOGT:SW9871T, | In Stock | High | N/A | |
| VALVE, CHECK CHECK VALVE, SUN HYDRAULICS:CXDA-XAN | In Stock | Low | N/A | |
| VALVE, SOLENOID SOLENOID VALVE, SUN HYDRAULICS:DIDA-MCN | In Stock | Low | N/A | |
| VALVE, FUEL BYPASS MANUFACTURER:FISHER, MODEL:1008 HANDWHEEL ACTUATOR W/LOCKING MECHANISM, SIZE 40, TRAVEL LENGTH:3/4", CAPABLE OF GIVING PRECISE MANUAL - THROTTLING CONTROL, TRAVEL INDICATOR MOUNTED ON ACTUATOR - YOKE FOR VISUAL VALVE PLUG POSITION | In Stock | High | N/A | |
| REPAIR KIT, BYPASS VALVE REPAIR KIT FOR FUEL START-UP BYPASS VALVE, MANUFACTURER:FISHER, MODEL:EZ, SIZE:1", TRIM:1/4" M-FORM, USED FOR THROTTLING ON-OFF CONTROL OF LIQUID OR GASES, SINGLE PORT, GLOBE-STYLE BODY FOR - QUICK CHANGE TRIM & POST GUIDED UNBALANCED VALVE PLUG | In Stock | High | N/A | |
| VALVE, PUMP DISCHARGE PUMP DISCHARGE PRESSURE REGULATING VALVE, MOOG/FISHER:ET-657-DVC-6200, SERIAL # F000642304, TYPE:ET CAV 111, SIZE 1-1/2, PORT SIZE:1-5/16, RATING:CL600/1500 PSI CWP, PLUG:SST, STEM:SST, BODY:STL, SEAT:SST | In Stock | Low | N/A | |
| VALVE, PRESSURE RELIEF 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 FISHER 3", 560lit:TH66 QS1600-4 DXP-L21GNB | In Stock | Low | N/A | |
| FILTER, WATER - CLARK RELIANCE 2500PW INST AIR DEW POINT ANALYZER, MICHELL INSTRUMENTS:EA-XP-TX-EX1-CI-D1-E2-F1-G1-H1 | In Stock | Medium | N/A | |
| ACTUATOR, TYPE PNEUMATIC RACK & PINION, FLOWSERVE:20E39SMZ24D | In Stock | Low | N/A | |

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| 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 | | | | |
| ELECTRONIC OVERSPEED TRIP, 9501W38 | In Stock | High | N/A | |
| TORQUE CONVERTER MAGNETIC SPEED PICK-UP COIL, KOENIG:9501W14 | In Stock | High | N/A | |
| 1 SERIES NEEDLE VALVE, SWAGELOCK:B-1VM4-S4/SS-1VM4-S4 | In Stock | Low | N/A | |
| FEMALE NEEDLE VALVE, MCMASTER CARR:4644K33, 3/8"NPT | In Stock | Low | N/A | |
| PARKER VALVE, MODEL# 6Z-PR4-BNT-SS | In Stock | Low | N/A | |
| GLOBE VALVE, STEEL, VOGT:SW9871T, LUBE OIL FILTER TOWER #1 VENT VALVE | In Stock | Low | N/A | |
| INDICATOR, SIGHT | | | | |
| 1-1/2", JACOBY:100-S(NF) | In Stock | Low | N/A | |
| PILLOT VALVE ASSEMBLY, CLIPPARD FV-SP W/M/PA-3P, CLIPPARD:LWT3732 | 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-1CN | In Stock | Low | N/A | |
| GASKET, FILTER HOUSING | | | | |
| GASKET, CLARK RELIANCE:A10137455, NFS# 10117455 | In Stock | Low | N/A | |
| O-RING, BUNA | | | | |
| HEAD TO BOWL O-RING BUNA, PALL:UK19672 | In Stock | Low | N/A | |
| O-RING, FISHER | | | | |
| O-RING, FISHER:T1205106562 | In Stock | Low | N/A | |
| BUSHING ASSY, FISHER POT | | | | |
| POT/BUSHING ASSEMBLY, FISHER:27B6208X012 | In Stock | Low | N/A | |
| FILL KIT, SF6 | | | | |
| ABB BREAKER SF6 FILL KIT, (HECS 80S), S/N 1HC211015861 | In Stock | Low | N/A | |
| BELT, ECODYNE:1320-BLT-S-EHX19-90 | In Stock | Medium | N/A | |
| COUPLING, PUMP/MOTOR | | | | |
| JOHN CRANE:A045-3578-1270, 1-1/2" - 2-3/8", ROUGH BORE | In Stock | Low | N/A | |
| PUMP, GEAR | | | | |
| DANFOSS:BERENDEN FLUID POWER SNP 2/11 | In Stock | Medium | N/A | |
| COUPLING, PUMP-MOTOR | | | | |
| COUPLING, REKNORD-OMEGA: REX ELASTOMER-ES-4(STANDARD ORANGE),PUMP-MOTOR | In Stock | Low | N/A | |
| COUPLING, PUMP-MOTOR | | | | |
| COUPLING, REKNORD-OMEGA: ELASTOMER-ES-5 (STANDARD ORANGE) PUMP-MOTOR | In Stock | Low | N/A | |
| REPAIR KIT, INJ: PUMP | | | | |
| CHEMICAL INJECTION PUMP REPAIR KIT, GRAINGER:K4PTC1 | In Stock | Medium | N/A | |
| FILTER, FUEL CAT IR0749 | | | | |
| FOR USE ON STAGE I AND II, EMERGENCY DIESEL MANUAL PRIMING PUMPS, CATERPILLAR #1R-0749 | In Stock | Medium | N/A | |
| ELEMENT 0180MA0003BN (3um), P/N 2059438, SPIN ON ELEMENT, MANUFACTURER:HYDAC | In Stock | Low | N/A | |
| FILTER, LIQUID FUEL | | | | |
| CLARK RELIANCE 2200A3 | In Stock | High | N/A | |
| FILTER, AIR (ELEMENT) | | | | |
| INGERSOLL RAND 32012957 | In Stock | Low | N/A | |

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|----------|------------|-------------------|----------|
| ELEMENT, PRE-FILTER | | | | |
| PRE-FILTER ELEMENT .105 SCFM, INGERSOLL RAND 85565679 | In Stock | Low | N/A | |
| FILTER, AIR | | | | |
| GEN AIR FILTERS, COMPACT FILTER G4/F7 287 X 292 X 300, SIEMENS | In Stock | Medium | N/A | |
| FILTER, AIR | | | | |
| GEN AIR FILTERS, COMPACT FILTER, G4/F7 592 X 292 X 300, SIEMENS | In Stock | Medium | N/A | |
| FILTER KIT, FUEL | | | | |
| LOW PRESSURE FUEL FILTER REPLACEMENT KIT, CENTAUR:912555C3 | In Stock | High | N/A | |
| KIT, OIL FILTER & O-RING | | | | |
| LUBE OIL FILTER & O-RING KIT, CENTAUR:9161283C1 | In Stock | Low | N/A | |
| FILTER, FUEL BOOST KIT - LOW PRESSURE, 912343C1 | In Stock | Low | N/A | |
| FILTER, IGV ACTUATOR - MOOG:B64567-1V | In Stock | Medium | N/A | |
| FILTER, TMP-95 FINAL | | | | |
| PNEUMAFIL:55253881, V-CELL STMPM16 STATIC BARRIER FILTER, 24"X24"X12", INJECTION MOULDED PLASTIC FRAME, 100% | | | | |
| SYNTHETIC MEDIA, NEOPRENE SPONGE RUBBER GASKET - DOWN STEAM SIDE | | | | |
| PRE-FILTER, Z-100 | In Stock | Medium | N/A | |
| PNEUMAFIL:552709C1, PRE-FILTER PANEL, 24"X24"X4"73 (FT) SYNTHETIC MEDIA, PLASTIC FRAME FOR HIGHER PERFORMANCE AND LOWER PRESSURE DROP | In Stock | Medium | N/A | |
| PRE-FILTER, PARKER AIR DRYER | | | | |
| PARKER AIR DRYER PRE-FILTER, PARKER FILTER CARTRIDGE# 6C10-050 | In Stock | Low | N/A | |
| AFTER-FILTER, AIR DRYER | | | | |
| AIR DRYER AFTER FILTER, PN 25-178-50C, PARKER FILTER CARTRIDGE # 10C10-050 | In Stock | Low | N/A | |
| FILTER, PRESSURE | | | | |
| PALL: ELEMENT HC9600FCP4H | In Stock | Medium | N/A | |
| ELEMENT, POST FILTER | | | | |
| POST FILTER ELEMENT .105 SCFM, INGERSOLL RAND 85565661 | In Stock | Medium | N/A | |
| TRANSMITTER, PRESSURE | | | | |
| ROSEMOUNT:3051S2TG3A2A11A1AM5Q4 | In Stock | Medium | N/A | |
| FILTER, LUBE OIL | | | | |
| LUBE OIL FILTER, CLARKE RELIANCE:A2200A4, NFS:2200A4 | In Stock | High | N/A | |
| SOFT PARTS KIT, CLARKE RELIANCE:A10400107, NFS:10400107 | In Stock | Medium | N/A | |
| FILTER AUTOMATIC FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 240GPM, PENTAIR:LWT 3949 | In Stock | Medium | N/A | |
| FILTER AUTOMATIC BACKWASH FLOW CONTROL, 4" FNPT, MODEL:ST-400-25, 245GPM, MODULAR PIPING SUPPLY INC: LWTS430 | In Stock | Medium | N/A | |
| CARTRIDGE, DESICCANT | | | | |
| PNEUMATIC PRODUCTS:3153517 | In Stock | Low | N/A | |
| FILTER, OIL 275-2604 | | | | |
| OIL FILTER, CAT:275-2604 | In Stock | Low | N/A | |
| FILTER, AIR 4P0710S | | | | |
| AIR FILTER, CAT: 4P0710 | In Stock | Low | N/A | |
| PRE-FILTER, AIR COOLING | | | | |
| PRE-FILTER, AIR COOLING | In Stock | Low | N/A | |
| METER, FLOW | | | | |
| ROSEMOUNT:30515FC1CS030N0065-T33EA1A5Q4E6M5 | In Stock | Medium | N/A | |
| LIQUID FUEL TEMPERATURE TRANSMITTER, ROSEMOUNT 644HAK6M5Q416 | In Stock | Medium | N/A | |
| PUMP SUPPLY PRESSURE SWITCH, CCS 646GGZEM1 | In Stock | Medium | N/A | |
| PUMP DISCHARGE PRESSURE TRANSMITTER, ROSEMOUNT 3051CG5A22A1AS5B4C6M5Q4 | In Stock | Medium | N/A | |
| PNEUMATICALLY ACTUATED THROTTLE VALVE, FISHER ET-677-DVC-6200 | In Stock | Medium | N/A | |

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| PUMP DISCHARGE PRESSURE SWITCH, CCS 646GZEM5 | In Stock | Medium | N/A | |
| METER, FLOW | | | | |
| ROSEMOUNT:30515FC1CS030NXT33DAJA5DQ4E6M5 | In Stock | Medium | N/A | |
| CONTROLLER, STEP LIFO | | | | |
| 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, | | | | |
| ROSEMOUNT:30515ZCD3A2A11A1AL1L2L4M5Q4 | In Stock | Low | N/A | |
| DIFFERENTIAL PRESSURE SWITCH,JOHNSON CONTROLS:JCI P 233 A-10-AAC | In Stock | Low | N/A | |
| FUEL OIL INLINE HEATER SUPPLY FLOW SWITCH, MAGNETROL TD2-7D01-0G0 C/W TEA-A110-004, THERMAL DISPERSION FLOW SWITCH | In Stock | Low | N/A | |
| FUEL UNLOADING PUMPS OUTLET PRESSURE/GAUGE PRESSURE TRANSMITTER, ROSEMOUNT:30515ZTG3A2E11A1AB4K6M5Q4 | In Stock | Low | N/A | |
| FUEL OIL TANK 1 LEVEL RADAR LEVEL TRANSMITTER, ROSEMOUNT:5402AH1E64SPVDM1C1S3 | 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:644HAK6I6M4 | 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 | | | | |
| MICROSWITCH # LSA2B | In Stock | Low | N/A | |
| CABLE,SOLAR, IGNITER | | | | |
| CENTAUR:919340C2 | In Stock | Medium | N/A | |
| PICKUP, MAGNETIC | | | | |
| CENTAUR:P/N 190430-1 | In Stock | Medium | N/A | |
| SWITCH, OVERSPEED | | | | |
| 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-CEXSG | In Stock | Low | N/A | |
| BEARING LUBE OIL HEADER PRESS#1 LOW, PRESSURE SWITCH, UNITED ELECTRIC CONTROLS:J402-146-1521 | In Stock | Medium | N/A | |
| BEARING LUBE OIL PRESSURE CONTROL VALVE, FISHER:ED-655 | In Stock | Medium | N/A | |
| EMERGENCY LUBE OIL PUMP DISCHARGE - PRESSURE SWITCH, UNITED ELECTRIC CONTROLS - J400-146-1521 | In Stock | Medium | N/A | |
| LUBE OIL RESERVOIR VACUUM - PRESSURE INDICATOR, ASHCROFT:45-118775S-04B | In Stock | Low | N/A | |
| LUBE OIL RESERVOIR TEMPERATURE SWITCH, HONEYWELL:T775A2009 | In Stock | Low | N/A | |
| MAIN LUBE OIL PUMP #1 - DISCHARGE PRESSURE SWITCH, UNITED ELECTRIC CONTROLS:J402-164-1521 | In Stock | Medium | N/A | |
| OVERSPEED TRIP SENSOR #1, ELECTRO CORP:3090A35 | In Stock | High | N/A | |
| INLET AIR MANIFOLD PRESSURE SWITCH, UNITED ELECTRIC CONTROLS:J400K-455-1520 | In Stock | Low | N/A | |
| DIFFERENTIAL PRESSURE SWITCH, PNEUMAFIL:552033-B1 | In Stock | Medium | N/A | |
| INTAKE AIR STATIC FILTER DIFFERENTIAL PRESSURE SWITCH, SOR:107AL-K12-PL-F1A | In Stock | Low | N/A | |
| INLET SCROLL TEMPERATURE TRANSMITTER #1, YOIKAGAWA:YTA320-EA2NN/FUJ1/D2/Z | In Stock | Low | N/A | |
| RTD: #1 PRIMARY SIGNAL | | | | |
| 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 | |



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| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| 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 OAX/63/12 | In Stock | Low | N/A | |
| HYD FLUID RESERVOIR - LEVEL TRANSMITTER, GEMIXT-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: 305.1TG4A2A21AM5Q4 | In Stock | Low | N/A | |
| HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (OFF), UNITED ELECTRIC CONTROLS: C402-120-1070-M202.135/120F | In Stock | Low | N/A | |
| HYD FLUID COOLER FAN MOTOR - TEMPERATURE SWITCH (ON), UNITED ELECTRIC CONTROLS: C402-120-1070-M202.135/120F | In Stock | Low | N/A | |
| HYD FLUID RESERVOIR HEATER - TEMPERATURE SWITCH, UNITED ELECTRIC CONTROLS: C402-120-1070-M202.73/86F | In Stock | Low | N/A | |
| HYD FLUID SUPPLY FILTER - DIFFERENTIAL PRESSURE SWITCH, PALL:RC0113CZ097H | In Stock | Low | N/A | |
| HYD FLUID RESERVOIR THERMOCOUPLE, OMEGA:NB1-CASS-14U-12" DUAL | In Stock | Low | N/A | |
| CHLORINE INJECTION FLOW SWITCH, DWYER INSTRUMENTS:FS2 | In Stock | Low | N/A | |
| DOUBLE ACTING PNEUMATIC ACTUATOR, KEYSTONE MORIN, TYCO:MRP 004 | In Stock | Low | N/A | |
| 0-500 PRESSURE TRANSMITTER - RO SKID, AUTOMATION DIRECT:PTD25-20-0500H | In Stock | Medium | N/A | |
| PRESSURE TRANSMITTER, AUTOMATION DIRECT:PTD25-20-0100H, 0-100 PSI - VARIOUS SKIDS | In Stock | Medium | N/A | |
| ANALOG INPUT CARD FOR PLC, VARIOUS SKIDS, AUTOMATION DIRECT:FO-04AS1 | In Stock | Medium | N/A | |
| VALVE, BALL | | | | |
| 1.5", STAINLESS STEEL, MCMASTER CARR: 45995K84 | In Stock | Low | N/A | |
| PRESSURE SWITCH, BARKSDALE:XIT-4100-25 | In Stock | Medium | N/A | |
| PRESSURE SWITCH, DRUCKSCHALTER: DI TM80 SS | In Stock | Medium | N/A | |
| 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:30I9638 | 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 | | | | |
| ROSEMOUNT 0305RC22B11 | In Stock | Low | N/A | |
| ATOMIZING AIR HEADER PRESSURE GAUGE, PRESSURE TRANSMITTER, ROSEMOUNT:305.1S2TG3A2A11A1AM5Q4 | In Stock | Low | N/A | |
| BLUE MOISTURE INDICATOR, INGERSOLL RAND 705001-5P | In Stock | Low | N/A | |
| THERMOMETER, RESISTANCE | | | | |
| SIEMENS:WQ 0233 2XPT100, INSTALLATION LENGTH 250MM, HAN 8D | In Stock | Low | N/A | |
| THERMOCOUPLE, SHELL | | | | |
| SIEMENS:MQ 0206-PVDF8 3XTCK(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 | |



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| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| RAW WATER FLOW MAGNETIC FLOWMETER, ROSEMOUNT:87051SA060C1W0N0G1 | 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: 3051S21G2A2A11A1AB4M5Q4 | 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 | Medium | N/A | |
| LP COMPRESSOR BLEED VALVE SOLENOID, ASCO:JKC8316G034V | In Stock | High | N/A | |
| COMPRESSOR BLADE PATH THERMOCOUPLE, DUPLEX TYPE K | In Stock | Low | N/A | |
| STARTING PACKAGE TORQUE CONVERTER PRESSURE GAUGE, KOENIG:BAC-160-25 | In Stock | Low | N/A | |
| CAPSUHELIC GAUGE 0-6" W.C., PNEUMAFIL:551646-B1 | In Stock | Low | N/A | |
| INTAKE AIR STATIC FINAL-FILTER - DIFFERENTIAL PRESSURE INDICATOR, DWYER INSTRUMENTS:4006 | In Stock | Low | N/A | |
| INTAKE AIR STATIC PRE-FILTER - DIFFERENTIAL PRESSURE INDICATOR, DWYER INSTRUMENTS:4002 | In Stock | Low | N/A | |
| CAPSUHELIC GAUGE 0-2" W.C., PNEUMAFIL:551646-B6 | In Stock | Low | N/A | |
| PRESSURE TRANSMITTER 0-300 PSI 4-20MA, ROSEMOUNT:3051TA3A2B21AES | In Stock | Medium | N/A | |
| PRESSURE REGULATOR - AIR SUPPLY FROM INST AIR COMPRESSOR, FISHER:F564-29 | In Stock | Medium | N/A | |
| INSTR. AIR COMPRESSOR PRESSURE GAUGE, AIR CENTERS OF FLORIDA:5ZP76 | In Stock | Low | N/A | |
| PRESSURE GAUGE - FOR INSTR AIR COMPRESSOR, ASHCROFT:45-13772204b, RANGE:0-200 PSI | In Stock | Low | N/A | |
| PRESSURE REGULATING GAUGE - AIR SUPPLY FROM INSTR AIR COMPRESSOR, FAIRCHILD:4066AT | In Stock | Low | N/A | |
| PRESSURE GAUGE 0-160PSI, LIQUID FILLED BACK MOUNT, STAINLESS STEEL, AUTOMATION DIRECT:G25-SL160-4LB | In Stock | Low | N/A | |
| PRESSURE GAUGE 0-100PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4LS | In Stock | Low | N/A | |
| PRESSURE GAUGE 0-100PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, AUTOMATION DIRECT:G25-SD100-4CS | In Stock | Low | N/A | |
| PRESSURE GAUGE 0-500PSI, LIQUID FILLED BACK MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11142N-GF | In Stock | Low | N/A | |
| PRESSURE GAUGE 0-500 PSI, LIQUID FILLED LOWER MOUNTED, STAINLESS STEEL, DWYER INSTRUMENTS:SGY-D11122N-GF | In Stock | Low | N/A | |
| TRANSMITTER, DEW POINT -100F | In Stock | Medium | N/A | |
| -40F AND -100F, INGERSOLL RAND P/N 23182603 | In Stock | Low | N/A | |
| TRUCK UPLOADING GROUND VERIFICATION MONITOR, 8030-120 GROUND VERIFICATION MONITOR, CIVACON | In Stock | Low | N/A | |
| MOTOR, FLAP ACTUATOR | In Stock | Low | N/A | |
| JOHNSON CONTROLS, JCI M9132-GGA-1 | In Stock | Medium | N/A | |
| BRUSH, CARBON MOTOR | In Stock | Medium | N/A | |
| 1 SET = 2 PIECES, ABB: GPFX052143P0098 | In Stock | Medium | N/A | |
| GENERATOR JACKING OIL - SOLENOID VALVE, SUN HYDRAULICS:DIDA-MCN | In Stock | High | N/A | |
| MOTOR, 10 HP DC TURNING GEAR | In Stock | Medium | N/A | |
| KOENIG: D66711A | In Stock | Low | N/A | |
| MOTOR, BALDOR | In Stock | Medium | N/A | |
| BALDOR:VEM3770T NEMA | In Stock | Low | N/A | |
| TURNING GEAR MOTOR BRUSH SET, 419904-51AC | In Stock | Medium | N/A | |
| COUPLING, PUMP/MOTOR | In Stock | Low | N/A | |
| SIZE 1040T20, FLEXIBLE GRID TYPE, VERTICAL ORIENTATION, MANUFACTURER:FALK | In Stock | Medium | N/A | |
| RELAY, DPDT 120VAC | In Stock | Medium | N/A | |
| RCR8002.120AC | In Stock | Low | N/A | |
| RELAY, TPDT 120VAC | In Stock | Medium | N/A | |
| RCPI103.120AC | In Stock | Medium | N/A | |
| CUT-OUT, AUTO | In Stock | Low | N/A | |
| AUTO CUT-OUT, CHROMOLOX:168-053169-105 | 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 | |



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| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|----------|------------|-------------------|----------|
| FUSE, POWER CLASS J 45A | | | | |
| A4J45 | In Stock | Low | N/A | |
| FUSE, PRIMARY 20A | | | | |
| ATQR20 | In Stock | Low | N/A | |
| FUSE, SECONDARY 8A | | | | |
| ATQR8 | In Stock | Low | N/A | |
| CONTACTOR, 50A 120VAC | | | | |
| 42CF35AF | In Stock | Low | N/A | |
| FUSE, PANEL HEATER 4.5A | | | | |
| PANEL HEATER FUSE 4.5A, ATQR4.5 | In Stock | Low | N/A | |
| FUSE, AC 25A | | | | |
| ATQR25 | In Stock | Low | N/A | |
| FUSE, SIEMENS PG | | | | |
| SIEMENS PG 840C208F01 | In Stock | Low | N/A | |
| FUSE, 15-0A | | | | |
| BUSSMAN:LP-CC-15.0 | In Stock | Low | N/A | |
| FUSE, 5.0A | | | | |
| BUSSMAN:LP-CC-5.0 | In Stock | Low | N/A | |
| FUSE, 1.0A | | | | |
| BUSSMAN:LP-CC-1 | In Stock | Low | N/A | |
| 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, BUSSMANN:1154697 | In Stock | Low | N/A | |
| FUSE, 2A E-CELL | | | | |
| E-CELL FUSE 2A, BUSSMANN:3060755 | In Stock | Low | N/A | |
| FUSE, 6A GMC-6A | | | | |
| 6AMP, GMC-6A, BUSSMANN:LWT7345 | In Stock | Low | N/A | |
| FUSE, 1.25A GMC-1.25A | | | | |
| FUSE 1.25 AMP, GMC-1.25-A, BUSSMANN:LWT9119 | 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 INC, 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 | |

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| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| 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 VELOMITER), 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 VELOMITER), BENTLY NEVADA:135489-02 | In Stock | High | N/A | |
| DISCRETE INTERNAL BARRIERS I/O MODULE WITH INTERNAL TERMINATIONS, BENTLY NEVADA:136703-01 | In Stock | High | N/A | |
| 3500/42M 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: HMT3301A08101CGAB200B01CABAA1 | In Stock | Low | N/A | |
| 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 | N/A | |
| E-CELL SOLENOID VALVE, EMERSON:3022390 | In Stock | Low | N/A | |
| STAGE #3 DISC CAVITY TEMPERATURE - CONTROL VALVE, 3", FISHER:A41-1032425A5 | 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 (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:81T-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 AIMN, EMERSON:LWT21254 | In Stock | Low | N/A | |
| ORP PREAMPLIFIER, RYAN HERCO:5905-273 | In Stock | Medium | N/A | |

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| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| 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 POLISHING LOOP PRESSURE RELIEF VALVE, REXROTH:R00347261 | In Stock | Medium | N/A | |
| HP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/4SPDT | In Stock | Low | N/A | |
| LP BLEED VALVE OPEN LIMIT SWITCH, WESTLOCK:2007XBY/6SPDT | In Stock | Medium | N/A | |
| 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 | In Stock | Low | N/A | |
| ACTUATOR, VALWORX:561055A, ELECT FOR RO INLET VALVE & RINSE VALVE - RO SKID | In Stock | Low | N/A | |
| SENSOR, VIBRATION | In Stock | High | N/A | |
| GENERATOR TURBINE END VIBRATION X, BENTLY NEVADA: 3300 SERIES | In Stock | High | N/A | |
| TURBINE EXHAUST END VIBRATION X | In Stock | High | N/A | |
| RELATIVE SENSOR, BENTLY NEVADA: 3500 SERIES | In Stock | Medium | N/A | |
| ANLZR:COND,8619,24V,4-20MA,;BUR | In Stock | Medium | N/A | |
| WATERTECH SERVICES: 3059496 | In Stock | Medium | N/A | |
| E-CELL INLINE FLOW SENSOR, BURKERT: 3059466 | In Stock | Medium | N/A | |
| E-CELL PRESSURE SWITCH, AUTOMATION DIRECT:3039305 | In Stock | Medium | N/A | |
| PLC-GE, QP+, 7" COLOR, 24VDC. | In Stock | Medium | N/A | |
| WATERTECH SERVICES: 3134672 | In Stock | Medium | N/A | |
| SENSOR-FLOW, BUR, INLINE, SE30 | In Stock | Medium | N/A | |
| WATERTECH SERVICES: 3059466 | In Stock | Medium | N/A | |
| E-CELL FLOW SENSOR 8020 SHORT, BURKERT:3033067 | In Stock | Low | N/A | |
| METER, 30-199.9 MV | In Stock | Low | N/A | |
| E-CELL 30-199.9 MV METER, GENERAL ELECTRIC: 3038073 | In Stock | Medium | N/A | |
| TRANSMITTER, PRESSURE | In Stock | High | N/A | |
| E-CELL PRESSURE TRANSMITTER, BURKERT:3059497 | In Stock | High | N/A | |
| COMBUSTOR SHELL PRESS TRANSMITTER, | In Stock | Low | N/A | |
| SIEMENS:7MF4233-1HA10-1AC1-Z+B21+Y01+Y15 | In Stock | Low | N/A | |
| BEARING OIL PRESSURE TRANSMITTER, | In Stock | Medium | N/A | |
| SIEMENS: 7MF4033-1CA10-1AC7-Z+B21+A02+Y01+Y21+Y15+Y16 | In Stock | Medium | N/A | |
| THERMOCOUPLE, TEMPERATURE | In Stock | Medium | N/A | |
| STARTING PACKAGE MOTOR STATOR - TEMPERATURE THERMOCOUPLE, S102629PD-120T305Z96 | In Stock | Medium | N/A | |
| THERMOCOUPLE, TEMPERATURE | In Stock | Medium | N/A | |
| STARTING PACKAGE MOTOR FORWARD - BEARING TEMPERATURE T/C, S16820PD-300Z96 | In Stock | Medium | N/A | |

Critical Spares Status
Holyrood – Gas Turbine



| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|----------|------------|-------------------|----------|
| SWITCH, AUXILIARY | In Stock | Low | N/A | |
| AUX SWITCH, SIEMENS:A01LD64 | | | | |
| OIL, COMPRESSOR | In Stock | Medium | N/A | |
| ALL SEASON SELECT OIL, INGERSOLL RAND 38436721 | | | | |
| KIT, E-CELL CLAMP SET: 3033064 | In Stock | Low | N/A | |
| PLC-AB, ANLG, 4-20, MA, 4IN, 1762-IF4: 1227751 | In Stock | Medium | N/A | |
| SENSOR, CONDUCTIVITY | | | | |
| SENSOR-COND,PVDF,0.01CEL,BUR,8220: 3059495 | In Stock | Medium | N/A | |
| TERMINAL-FUSE,1P TYPE CG,AB: 1235396 | In Stock | Low | N/A | |
| TERMINAL-FUSE,LED,10-57VAC/VDC,1492-H5: 1152328 | In Stock | Low | N/A | |
| FUSE-DELAY,600V,CLASS CC,6A,BUS: 3054531 | In Stock | Low | N/A | |
| FUSE-BLOCK,600V,100A,MODULAR,BUS: 3020468 | In Stock | Low | N/A | |
| FUSE-FAST,700V,80A,BUS: 3010595 | In Stock | Low | N/A | |
| FUSE-DELAY,600V,CLASS CC,3.5A,LP-CC,BUS: 3126308 | In Stock | Low | N/A | |
| FUSE-DELAY,600V,CLASS CC,2A,BUS: 3060753 | In Stock | Low | N/A | |
| FUSE-DELAY,600V,CLASS CC,4A,LP-CC-4,BUS: 3060754 | In Stock | Low | N/A | |
| FUSE-FAST,250V,CERAMIC,1A,BUS: 3055154 | In Stock | Low | N/A | |
| FUSE-DELAY,600V,CLASS CC,1A,BUS: 3029658 | In Stock | Low | N/A | |
| FUSE-BLOCK,690V,MIDGET,MERSEN,USM1: 31146420 | In Stock | Low | N/A | |
| PLC-GE,QP+,7" COLOR,24VDC,IC755CSW07CDA: 3134672 | In Stock | Medium | N/A | |
| PLC-AB,DIGITAL,24VDC,8 IN,1762-IQ8: 1224240 | In Stock | Medium | N/A | |
| PLC-AB,20D/12D/4A/4A/0/1766-L32BXBA: 3060729 | In Stock | Medium | N/A | |
| XFMR-CONTROL | | | | |
| XFMR-CNTRL,230/575,115-50/60,500VA,SQ-D: 3060802 | In Stock | Medium | N/A | |
| POWER SUPPLY, 24VDC | | | | |
| POWER-SUP,PHOENIX,TRIO,24VDC,5A: 3037802 | In Stock | Low | N/A | |
| SWITCH, PUSH BUTTON | | | | |
| SWITCH-P,B,IEC,INC,MAN,BLK,800FP: 3007466 | In Stock | Low | N/A | |
| SWITCH-PUSH PULL,24VDC,IEC,MUSHRM,IL,RED: 3006380 | In Stock | Low | N/A | |
| RELAY,3PDT,24VDC,10A,700-HA33224: 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 | | | | |
| 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: TLQATS222D24756U | 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 | | | | |
| PERMEATE PUMP SKID: WSEA9-PERM | In Stock | Medium | N/A | |



Critical Spares Status
 Holyrood – Gas Turbine

| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| 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: WSEA9-RW | | | | |
| COLOR TOUCHSCREEN INTERFACE, 8" | | | | |
| PREPROGRAMMED 8" COLOR TOUCHSCREEN OPERATOR INTERFACE | In Stock | Medium | N/A | |
| REVERSE OSMOSIS SKID: WSEA9-8RO | | | | |
| COLOR TOUCHSCREEN INTERFACE, 10" | | | | |
| PREPROGRAMMED 10" COLOR TOUCHSCREEN OPERATOR INTERFACE | In Stock | Medium | N/A | |
| REVERSE OSMOSIS SKID: WSEA9-10 RO | | | | |
| ORP PREAMPLIFIER | | | | |
| WATERTECH SERVICES: 5909-273 | In Stock | Low | N/A | |
| CONDUCTIVITY MODULE FOR MULTIFUNCTION MONITOR - RO: 5908.494 | In Stock | Low | N/A | |
| Exhaust Thermocouples | In Stock | High | N/A | |



Critical Spares Status
Happy Valley – Gas Turbine

| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|---|----------|------------|-------------------|----------|
| Pressure Switch Pressure Switch (PDSH-601; Sheet 1 - Left-Centre), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch High (PSH-620; Sheet 3 - Left), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch High (PSH-621; Sheet 3 - Centre-Left), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch High (PSH-623; Sheet 3 - Top-Left), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch High (PSH-624; Sheet 3 - Top-Left), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch Low (PSL-604; Sheet 2 - Left), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch Low (PSL-609; Sheet 2 - Centre), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch Low (PSL-613; Sheet 3 - Top-Centre), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch Low (PSL-617; Sheet 3 - Low-Centre), Lubrication System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch (E42-PS1; AB4), Glycol Cooling System | In Stock | Medium | N/A | |
| Pressure Switch Pressure Switch (E42-PS2; AB5.6), Glycol Cooling System | In Stock | Medium | N/A | |
| THERMOCOUPLE;P&W 1081998 THERMOCOUPLE, IMMERSION FOR PRATT & WHITNEY FT8 GAS TURBINE P&W #1081998 | In Stock | Medium | N/A | |
| Fuel Filter Fuel Fwd. Skid Fuel Filter (E31-F1; E6) | In Stock | High | N/A | |
| Lube oil filter Lube Oil Skid Fuel Filter (E31-F4; EF4) | In Stock | High | N/A | |
| DC Fuel pump (E31-P1; E7) | In Stock | High | N/A | |
| AC Fuel Pump (E31-P3; C7) | In Stock | High | N/A | |
| Pressure Differential Switch (E31-PDS1; F6) Fuel System | In Stock | Medium | N/A | |
| Pressure Switch (E31-PS1; D7) Fuel system | In Stock | Medium | N/A | |
| Pressure Switch (E31-PS2; D7) Fuel system | In Stock | Medium | N/A | |
| Pressure Switch Low (E31-PSL4; F4), Fuel System | In Stock | Medium | N/A | |
| Pressure Shutdown Low (E31-PSLL1; F4), Fuel System | In Stock | Medium | N/A | |
| Solenoid Valve (E31-SV1; E2), Fuel System | In Stock | High | N/A | |
| Solenoid Valve (E31-SV2; E2), Fuel System | In Stock | High | N/A | |
| Solenoid Valve (E31-SV3; D2), Fuel System | In Stock | Low | N/A | |
| Solenoid Valve (E31-SV4; E2), Fuel System | In Stock | Low | N/A | |
| Solenoid Valve (E31-SV6; D8), Fuel System | In Stock | Low | N/A | |
| Filter (F-601; Sheet 1 - Centre-Left), Lubrication System | In Stock | High | N/A | |
| AC Motor (M-601; Sheet 2 - Left), Lubrication System | In Stock | High | N/A | |
| DC Motor (M-602; Sheet 2 - Low-Left), Lubrication System | In Stock | High | N/A | |
| Pump (MOP-601; Sheet 2 - Left), Lubrication System | In Stock | High | N/A | |
| Pressure Regulator Valve (PDCV-601; Sheet 2 - Low-Right), Lubrication System P&W No. CT113037 | In Stock | Low | N/A | |
| Pressure Safety Valve (PSV-601; Sheet 1 - Right), Lubrication System P&W No. CT112530 | In Stock | Low | N/A | |
| Temperature Control Valve (TCV-601; Sheet 1 - Right), Lubrication System | In Stock | Medium | N/A | |
| Level Switch (LSL-601 & LSIL-601; Sheet 1 - Centre-Right), Lubrication System P&W No. CT110085 | In Stock | Low | N/A | |



Critical Spares Status
Happy Valley – Gas Turbine

| Recommended Component | Stock | Risk Score | Expected Delivery | Comments |
|--|----------|------------|-------------------|----------|
| Temperature RTD (TE-601; Sheet 1 - Centre), Lubrication System P&W No. CT112558 | In Stock | Low | N/A | |
| AC Fan Motor (E42-FM1; C7), Glycol Cooling System | In Stock | Low | N/A | |
| Pump (E42-P1; B5), Glycol Cooling System | In Stock | High | N/A | |
| AC Pump Motor (E42-PM1; B5), Glycol Cooling System | In Stock | High | N/A | |
| Pressure Relief Valve (E42-PRV1; AB3.4), Glycol Cooling System | In Stock | Low | N/A | |
| Self-Actuating Control Valve (E42-TCV1; B6), Glycol Cooling System | In Stock | High | N/A | |
| Fan Vibration Switch (E42-VSH1; C7.8), Glycol Cooling System | In Stock | Medium | N/A | |
| Fan Vibration Switch (E42-VSH2; BC7.8), Glycol Cooling System | In Stock | Medium | N/A | |
| Pneumatic Actuator (E50-PA 1; Sheet 2 - D6), Air Supply System | In Stock | Medium | N/A | |
| Solenoid Valve (E50-SV1; Sheet 1 - A6), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valve (E50-SV2; Sheet 1 - C5.6), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valve (E50-SV3; Sheet 1 - C5.6), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valve (E50-SV4; Sheet 1 - C3.4), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valves (E50-SV5 through E50-SV 35; Sheet 2 - B8), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valve (E50-SV 36; Sheet 2 - C5.6), Air Supply System | In Stock | Low | N/A | |
| Solenoid Valve (E50-SV 37; Sheet 2 - AB5), Air Supply System | In Stock | Low | N/A | |
| Limit Switch (E50-V 31; Sheet 2 - BC6.7), Air Supply System | In Stock | Low | N/A | |
| Limit Switch (E50-V 32; Sheet 2 - B6.7), Air Supply System | In Stock | Low | N/A | |
| Limit Switch (E50-V 33; Sheet 2 - B6.7), Air Supply System | In Stock | Low | N/A | |
| Limit Switch (E50-V 34; Sheet 2 - B6.7), Air Supply System | In Stock | Low | N/A | |

Appendix G

Critical Spares Status Listing for Hydraulic Generation





Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | 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 |



Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | Expected Delivery Date |
|--|--------------|----------|-------------------------------|------------------------|
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE205014R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE300661R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE300686R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE300690R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE300698R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE300766R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE305043R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE305069R0001 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE30598R1 | In Stock | | N/A | N/A |
| BDE - EXCITATION CONTROLS - CARD,ABB HIEE401481R0001 | 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 - VARIATOR,ABB 3ACD5245A003 | In Stock | | N/A | N/A |
| BDE - Exciter POWER ELECTRONICS - BRIDGE,ABB S00772 | In Stock | | N/A | N/A |
| BDE - Exciter POWER ELECTRONICS - FAN ASSY,ABB 500773 | In Stock | | N/A | N/A |
| BDE - Exciter POWER ELECTRONICS - FUSE,ABB 6,6URD32TTF0800 | In Stock | | N/A | N/A |
| BDE - Exciter POWER ELECTRONICS - Pulse Transformers | In Stock | | N/A | N/A |
| BDE - Exciter POWER ELECTRONICS - THYRISTOR,ABB 5STP27F1200 | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - ARC-CHUTE,ABB UXAB269399R012 | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - BREAKER,ABB HIER466757P2331 (entire unit) | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB239299R0003 | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB239260R002 | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - CONTACT,ABB UXAB269399R032 | In Stock | | N/A | N/A |
| BDE - FIELD BREAKER Q02 - PANEL EE - SHUNT,ABB UXAB269350R909 | In Stock | | N/A | N/A |
| BDE - FILTER,AIR (ELEMENT ONLY) | In Stock | | N/A | N/A |
| BDE - FILTER,COOLANT (ELEMENT ONLY) | In Stock | | N/A | N/A |
| BDE - GAS,INERGEN (350F3) | In Stock | | N/A | N/A |
| BDE - GAS,INERGEN (425F3) | In Stock | | N/A | N/A |
| BDE - GASKET KIT,IR X14531747 | 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 |



Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | Expected Delivery Date |
|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 |



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|--|--------------|----------|-------------------------------|------------------------|
| 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 1.1002-71 | In Stock | | N/A | N/A |
| BDE - GOVERNOR - PIN,WOODWARD 1.1002-75 | In Stock | | N/A | N/A |
| BDE - GOVERNOR - PLUNGER,SNAP ACTION | In Stock | | N/A | N/A |
| BDE - GOVERNOR - POTENTIOMETER,12500H 0.24A | In Stock | | N/A | N/A |
| BDE - GOVERNOR - PUMP,OIL IMO A3DB-275 | In Stock | | N/A | N/A |
| BDE - GOVERNOR - RETAINER,SWITCH | In Stock | | N/A | N/A |
| BDE - GOVERNOR - RING,SNAP (PILOT SERVO PLUG) | In Stock | | N/A | N/A |
| BDE - GOVERNOR - ROTOR,BALL HEAD MOTOR | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SOLENOID,125 V DC | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SOLENOID,125VDC 211E | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SPRING,PILOT VALVE LINK | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SPRING,RELIEF | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SPRING,UNLOADER | In Stock | | N/A | N/A |
| BDE - GOVERNOR - STATOR,BALL HEAD MOTOR | In Stock | | N/A | N/A |
| BDE - GOVERNOR - SWITCH,PRESS OIL ALARM | In Stock | | N/A | N/A |
| BDE - GOVERNOR SPEED GENERATOR - BALLARM,SPEED SWITCH | In Stock | | N/A | N/A |
| BDE - GOVERNOR SPEED GENERATOR - BEARING,PMG P/N Z995205 | In Stock | | N/A | N/A |
| BDE - GOVERNOR SPEED GENERATOR - BEARING,SPEED SIGNAL | In Stock | | N/A | N/A |
| BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 111006 | In Stock | | N/A | N/A |
| BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 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 |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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,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 |



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|---|--------------|----------|-------------------------------|------------------------|
| 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,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,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 |
| 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 |



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|--|--------------|----------|-------------------------------|------------------------|
| 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 |
| BDE - PLC,Model Quantum- Modicon - MODULE,ETHERNET QUANTUM | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - MODULE,GPS QUANTUM | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - MODULE,HOT STANDBY | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - MODULE,INTERFACE PLC | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - MODULE,RACK FILLER | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - MODULE,RELAY OUT | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125 VDC | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125VDC 8A | In Stock | | N/A | N/A |
| BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |



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| BDE - PLC,Modul Quantum- Modicon - REMOTE I/O HEAD,MODICON | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,12500H 0.24A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,12500H 0.24A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,12500H 0.24A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,12500H 0.24A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,1K OH .244 A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,1K OH .244 A | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,25W 50 OHMS | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,25W 50 OHMS | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,SPEED | In Stock | | N/A | N/A |
| BDE - POTENTIOMETER,SPEED | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY, 125VDC 8A | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,125VDC 8A | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,125VDC 8A | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,125VDC 8A | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,125VDC 8A | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,24 VDC | In Stock | | N/A | N/A |
| BDE - POWER SUPPLY,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 |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 5/6 Rotor Pole | 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 |



Critical Spares Stock Status

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



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|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 |



Critical Spares Stock Status

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|--|--------------|----------|-------------------------------|------------------------|
| 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 Spare Pole | In Stock | | N/A | N/A |
| BDE - Unit 7 STATOR WINDINGS - Stator Bars | In Stock | | N/A | N/A |
| BDE - Unit 7 STATOR WINDINGS - Wedges | In Stock | | N/A | N/A |
| BDE - Unit 7 SURFACE AIR COOLERS - Tubes | In Stock | | N/A | N/A |
| BDE - Unit 7 THRUST BEARING - Rotating Ring | In Stock | | N/A | N/A |
| BDE - Unit 7 THRUST BEARING - Thrust Pads | In Stock | | N/A | N/A |
| BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers | In Stock | | N/A | N/A |
| BDE - UNIT 7 TURBINE - Carbon Seal | In Stock | | N/A | N/A |
| BDE - UNIT 7 TURBINE - turbine bearing | In Stock | | N/A | N/A |
| BDE - UNIT 7 TURBINE - wicket gate | In Stock | | N/A | N/A |
| BDE - Unit 7 TURBINE GUIDE BEARING - bearing | In Stock | | N/A | N/A |
| BDE - Unit 7 VIBRATION MONITORING - PICK-UP,NON-CONTACT | In Stock | | N/A | N/A |
| BDE - Unit 7 VIBRATION MONITORING - PICK-UP,SPEED SENSING | In Stock | | N/A | N/A |
| BDE - Unit 7 VIBRATION MONITORING - POWER SUPPLY,IRD PCB 29128 | In Stock | | N/A | N/A |
| BDE - Unit 7 WICKET GATES - GATE, WICKET | In Stock | | N/A | N/A |
| BDE - VALVE,1" THERMAL TRIP | In Stock | | N/A | N/A |
| BDE - VALVE,CONT.1/2 4-WAY SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONT.1/2 4-WAY SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONT.1/2"4-WAY SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONT.1/2"4-WAY SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONTROL 1" SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONTROL 1" SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONTROL 2" SS | In Stock | | N/A | N/A |
| BDE - VALVE,CONTROL 2" SS | In Stock | | N/A | N/A |



Critical Spares Stock Status

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|--|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 | | N/A | N/A |
| 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,J SOLATING | In Stock | | N/A | N/A |



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|---|--------------|----------|-------------------------------|------------------------|
| CAT - CONTROLLER, PLC DL05 | 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 |
| 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 |



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|--|--------------|----------|-------------------------------|------------------------|
| 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 UNC001D-E, | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CARD ABB UNS0026A-P, | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CARD BBC UN0077AP, | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CARD,BBC UN2001F-P | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P, | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P, | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - COIL,125 VOLT 60HZ | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - COIL,SHUNT CLOSING | In Stock | | N/A | N/A |
| CAT - EXCITER NO. 2 - CONTROL BOARD, | In Stock | | N/A | N/A |



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|--|--------------|----------------|-------------------------------|------------------------|
| 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 Spares Stock Status

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|--|--------------|----------|-------------------------------|------------------------|
| 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 - Lightning Arrestor - Surge Suppressor | 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 |



Critical Spares Stock Status

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|--|--------------|----------|-------------------------------|------------------------|
| CAT - PISTON/PIN ASSY, IR 30292460 | In Stock | | N/A | N/A |
| CAT - POTENTIAL TRANSFORMER | In Stock | | N/A | N/A |
| CAT - POWER SUPPLY, 110-220 VOLT | In Stock | | N/A | N/A |
| CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door | In Stock | | N/A | N/A |
| CAT - RECTIFIER, BRIDGE 250JB6L-8338 | In Stock | | N/A | N/A |
| CAT - RECTIFIER, BRIDGE 35MB60A-8419 | In Stock | | N/A | N/A |
| CAT - RECTIFIER, BRIDGE 35MB60A-8421 | In Stock | | N/A | N/A |
| CAT - RELAY, ASEA RXSF1, RK271 0 | In Stock | | N/A | N/A |
| CAT - RING SET, IR 32194144 | In Stock | | N/A | N/A |
| CAT - RING SET, IR 32194276 | In Stock | | N/A | N/A |
| CAT - RING SET, IR 37138146 | In Stock | | N/A | N/A |
| CAT - RING/GASKET KIT, IR 32133969 | In Stock | | N/A | N/A |
| CAT - Rotating Ring | In Stock | | N/A | N/A |
| CAT - Rotating Ring | In Stock | | N/A | N/A |
| CAT - Rotating Ring | In Stock | | N/A | N/A |
| CAT - ROTOR - GENERATOR - Pole | In Stock | | N/A | N/A |
| CAT - Rotor Poles - Entire Pole | In Stock | | N/A | N/A |
| CAT - SEAL, OIL IR 32204562 | In Stock | | N/A | N/A |
| CAT - SEAL, SPHERICAL VALVE | In Stock | | N/A | N/A |
| CAT - SEAL, SPHERICAL VALVE | In Stock | | N/A | N/A |
| CAT - SEAL, SPHERICAL VALVE | In Stock | | N/A | N/A |
| CAT - Slipring/brush Rigging Assembly - Brush Holder | In Stock | | N/A | N/A |
| CAT - Slipring/brush Rigging Assembly - Brushes | In Stock | | N/A | N/A |
| CAT - Slipring/brush Rigging Assembly - Insulator | In Stock | | N/A | N/A |
| CAT - Slipring/brush Rigging Assembly - Ring, Collector Assembly | In Stock | | N/A | N/A |
| CAT - STATION SERVICE SYSTEM - Arc Chute | In Stock | | N/A | N/A |
| CAT - STATION SERVICE SYSTEM - COIL,CLOSING 129 V DC | In Stock | | N/A | N/A |
| CAT - STATION SERVICE SYSTEM - Contact 1600Amp | In Stock | | N/A | N/A |
| CAT - STATION SERVICE SYSTEM - Contact Moving Arc | In Stock | | N/A | N/A |
| CAT - STATION SERVICE SYSTEM - Contat 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 |



Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | Expected Delivery Date |
|---|--------------|----------|-------------------------------|------------------------|
| CAT - Stator Assembly - CAP STATOR WINDING END, | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Connector | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR ASM 105 | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR ASM 107 | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR ASM 108 | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR ASM 109 | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - Stator Assembly - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Slider | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Slider | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Slider | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Wedge | In Stock | | N/A | N/A |
| CAT - Stator Assembly - Wedge | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR ASM 105 | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR ASM 107 | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR ASM 108 | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR ASM 109 | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - Stator Windings - JUMPER,STATOR WINDING | In Stock | | N/A | N/A |
| CAT - SURFACE AIR COOLERS - Surface Air Cooler | In Stock | | N/A | N/A |
| CAT - SWITCH,DIFFERENTIAL PRES | In Stock | | N/A | N/A |
| CAT - TEXT DISPLAY,AIR DRYER | In Stock | | N/A | N/A |
| CAT - THRUST BEARING - thrust pads | In Stock | | N/A | N/A |
| CAT - Thrust Bearing Segements - Segments | In Stock | | N/A | N/A |
| CAT - Thrust Pads | In Stock | | N/A | N/A |
| CAT - THYRISTOR, ABB CS411-20 | In Stock | | N/A | N/A |
| CAT - Turbine - Runner | In Stock | | N/A | N/A |
| CAT - Turbine Guide Bearing - Bearing | In Stock | | N/A | N/A |
| CAT - VALVE ASSEMBLY 35 GA | In Stock | | N/A | N/A |
| CAT - VALVE ASSEMBLY 55 GA | In Stock | | N/A | N/A |
| CAT - VALVE/GASKET KIT, IR 32133951 | In Stock | | N/A | N/A |
| Cat- minimal pressure Valve | In Stock | | N/A | N/A |
| Cat- Turbine Bearing Cooler | In Stock | | N/A | N/A |
| EBBE - GEAR,HANDWHEEL | In Stock | | N/A | N/A |
| EBBE - GEAR,HELICAL SET | In Stock | | N/A | N/A |



Critical Spares Stock Status

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



Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | Expected Delivery Date |
|--|--------------|----------|-------------------------------|------------------------|
| 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, MAT | In Stock | | N/A | N/A |
| GCL - FILTER, OIL KAESER | In Stock | | N/A | N/A |
| GCL - FILTER, OIL KAESER | In Stock | | N/A | N/A |
| GCL - FILTER, OIL KAESER | In Stock | | N/A | N/A |
| GCL - Fuse, 1250A 690V 170M6166 | In Stock | | N/A | N/A |
| GCL - Gas, Inergen (350F3) | In Stock | | N/A | N/A |
| GCL - Gas, inergen (425F3) | In Stock | | N/A | N/A |
| GCL - Generator - Bottom Stator Bars (18) | In Stock | | N/A | N/A |
| GCL - Generator - Converter, RTD Temperature | In Stock | | N/A | N/A |
| GCL - Generator - Converter, RTD Universal | In Stock | | N/A | N/A |
| GCL - Generator - Creep Detector ASSY, 129 V | In Stock | | N/A | N/A |
| GCL - Generator - Device, Surge Suppression | In Stock | | N/A | N/A |
| GCL - Generator - Fuse, TEMP Limiter | In Stock | | N/A | N/A |
| GCL - Generator - Fuse, Voltage XFMR | In Stock | | N/A | N/A |
| GCL - Generator - Guide Bearing, GE | In Stock | | N/A | N/A |
| GCL - Generator - Jumper Pole ASM #2 | In Stock | | N/A | N/A |
| GCL - Generator - Jumper Pole ASM #3 | In Stock | | N/A | N/A |
| GCL - Generator - Jumper Pole ASM #4 | In Stock | | N/A | N/A |
| GCL - Generator - Jumper, Pole ASM #1 | In Stock | | N/A | N/A |
| GCL - Generator - Level, Indicator Magnetic | In Stock | | N/A | N/A |
| GCL - Generator - Oil, Turbine 46 (205L) | In Stock | | N/A | N/A |
| GCL - Generator - Packing, V-Type GE | In Stock | | N/A | N/A |
| GCL - Generator - Pin, Taper 25MM x 90MM | In Stock | | N/A | N/A |
| GCL - Generator - Plate, Brake GE | In Stock | | N/A | N/A |
| GCL - Generator - Plate, Locating Pivoted | In Stock | | N/A | N/A |



Critical Spares Stock Status

| Critical Spare Component | Stock Status | Comments | Status Update October 2023 | Expected Delivery Date |
|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 |



Critical Spares Stock Status

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|----------------------------------|--------------|----------|-------------------------------|------------------------|
| GCL - Pole, Wound GE | In Stock | | N/A | N/A |
| GCL - POTENTIAL TRANSFORMER | In Stock | | N/A | N/A |
| GCL - Power Supply | 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(S) | In Stock | | N/A | N/A |
| GCL - RELAY,8 PIN 120V AC/DC | In Stock | | N/A | N/A |
| GCL - RELAY,8 PIN DPDT | In Stock | | N/A | N/A |
| GCL - RELAY,ANTI-PUMP | In Stock | | N/A | N/A |
| GCL - RELAY,AUX 48VDC | In Stock | | N/A | N/A |
| GCL - RELAY,BREAKER FAIL | In Stock | | N/A | N/A |
| GCL - RELAY,BUSHHOLZ 250V 2AMP | In Stock | | N/A | N/A |
| GCL - RELAY,CONTROL 120V 60HZ | In Stock | | N/A | N/A |
| GCL - RELAY,CONTROL 120V 60HZ | In Stock | | N/A | N/A |
| GCL - RELAY,CONTROL 120V 60HZ | In Stock | | N/A | N/A |
| GCL - RELAY,CONTROL 125VDC | In Stock | | N/A | N/A |
| GCL - RELAY,CONTROL 24VDC | In Stock | | N/A | N/A |
| GCL - RELAY,FAST TRIPPING 125V | In Stock | | N/A | N/A |
| GCL - RELAY,INTERPOSING | In Stock | | N/A | N/A |
| GCL - RELAY,LOCKOUT 125V | In Stock | | N/A | N/A |
| GCL - RELAY,LOCKOUT 125V | In Stock | | N/A | N/A |
| GCL - RELAY,OVERCURRENT | In Stock | | N/A | N/A |
| GCL - RELAY,OVERLOAD | In Stock | | N/A | N/A |
| GCL - RELAY,OVERLOAD CH C306DN3B | In Stock | | N/A | N/A |



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|--|--------------|----------|-------------------------------|------------------------|
| 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 |



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|--|--------------|----------|-------------------------------|------------------------|
| GCL - Switch, 20-160 ABB 104-324-46 | In Stock | | N/A | N/A |
| GCL - Switch, Press 200 PSI 15A | In Stock | | N/A | N/A |
| GCL - Switch, Press Actuated | In Stock | | N/A | N/A |
| GCL - Switch, Press Gran 20W | In Stock | | N/A | N/A |
| GCL - Synchronizer | In Stock | | N/A | N/A |
| GCL - Thermometer, ADJ 0-55 | In Stock | | N/A | N/A |
| GCL - THRISTOR, 5STP18F1800 V11 | In Stock | | N/A | N/A |
| GCL - Thrust/Guide Bearing Coolers - Coil, Cooling GE | In Stock | | N/A | N/A |
| GCL - Transducer, Balluff Track | In Stock | | N/A | N/A |
| GCL - TRANSMITTER, FRAZIL ICE | In Stock | | N/A | N/A |
| GCL - Transmitter, PFM | In Stock | | N/A | N/A |
| GCL - Transmitter, Temp 4-20 MA | In Stock | | N/A | N/A |
| GCL - TRANSMITTER, WATER LEVEL | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Packing Ring, Segment | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Pad, Stop GE | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Ring, Rotating GE | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Ring, Sealing C/W Spring | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Ring, Wear | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Seal, Inflatable | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Transmitter, Diff Pressure | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG | In Stock | | N/A | N/A |
| GCL - Turbine Assembly - Transmitter, Pressure -STO55 | 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 |



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|---|--------------|----------|-------------------------------|------------------------|
| GCL - Wicket Gates - Lever, Shear GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Liner, Gate Operating | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Link, GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Pin, Eccentric | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Pin, Shear GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Pin, Taper GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Plate, Retaining GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Plate, Top GE | In Stock | | N/A | N/A |
| GCL - Wicket Gates - Shim, Laminium | 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 |
| HUK - Accumulator tank Sollaroid Valve | In Stock | | N/A | N/A |
| HUK - ADAPTER,REMOTE I/O | In Stock | | N/A | N/A |
| HUK - Ampmeter | In Stock | | N/A | N/A |
| HUK - AUTO AIR CHARGING SOLND. | In Stock | | N/A | N/A |
| HUK - BACKPLANE,10 SLOT MODICON | In Stock | | N/A | N/A |
| HUK - BEARING KIT, | In Stock | | N/A | N/A |
| HUK - BOARD,FIRING ES | In Stock | | N/A | N/A |
| HUK - BREAKER,100 AMP 600 VOLT | In Stock | | N/A | N/A |
| HUK - BREAKER,150A 600V | In Stock | | N/A | N/A |
| HUK - BREAKER,225A 600V 3P | In Stock | | N/A | N/A |
| HUK - BREAKER,600 VOLT 3 PHASE | In Stock | | N/A | N/A |
| HUK - BRIDGE,THYRISTOR EG | In Stock | | N/A | N/A |
| HUK - Card battery charger | In Stock | | N/A | N/A |
| HUK - Card battery charger | In Stock | | N/A | N/A |
| HUK - Card battery charger | In Stock | | N/A | N/A |
| HUK - Card battery charger | In Stock | | N/A | N/A |
| HUK - Card gate pulse | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Anti-pump relay | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Charging motor | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Motor brush kit | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Primary disconnect | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Shunt trip coil | In Stock | | N/A | N/A |
| HUK - CIRCUIT BREAKER - Spring release coil | In Stock | | N/A | N/A |
| HUK - COIL-AUTO AIR CHARGING SOLND. | In Stock | | N/A | N/A |
| HUK - CONTACT,AUX GE | In Stock | | N/A | N/A |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 SOLND ,, | 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 655D , | 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 MM, | In Stock | | N/A | N/A |
| HLK - HEADCOVER-ASSEMBLY - BUSHING GATE STEM - UPPER, | In Stock | | N/A | N/A |
| HLK - HEADCOVER-ASSEMBLY - BUSHING GATE STEM - LOWER, | In Stock | | N/A | N/A |
| HLK - HEADCOVER-ASSEMBLY - Bushing upper | In Stock | | N/A | N/A |
| HLK - HEADCOVER-ASSEMBLY - SEAL TURBINE, | In Stock | | N/A | N/A |
| HLK - HEADCOVER-ASSEMBLY - SEALWICKET GATE, | In Stock | | N/A | N/A |
| HLK - IMPELLER,DEWATERING PUMP | In Stock | | N/A | N/A |
| HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER,TEMPERATURE | In Stock | | N/A | N/A |



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|--|--------------|----------|-------------------------------|------------------------|
| HLK - INSERT, COMPAIR 38275 | In Stock | | N/A | N/A |
| HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure druk | In Stock | | N/A | N/A |
| HLK - ISOLATED PHASE BUS - PT fuse | In Stock | | N/A | N/A |
| HLK - MECHANICAL GOVERNOR CONTROLS - Motor limit | In Stock | | N/A | N/A |
| HLK - MECHANICAL GOVERNOR CONTROLS - Motor speeder | In Stock | | N/A | N/A |
| HLK - MECHANICAL GOVERNOR CONTROLS - Unloader timing valve | In Stock | | N/A | N/A |
| HLK - METER, FLOW BARTON | In Stock | | N/A | N/A |
| HLK - MODULE, ANALOG QUANTUM | In Stock | | N/A | N/A |
| HLK - MODULE, CPU MODICON | In Stock | | N/A | N/A |
| HLK - MODULE, DISCRETE IN | In Stock | | N/A | N/A |
| HLK - MODULE, DISCRETE OUT | In Stock | | N/A | N/A |
| HLK - MODULE, ETHERNET QUANTUM | In Stock | | N/A | N/A |
| HLK - MODULE, GPS QUANTUM | In Stock | | N/A | N/A |
| HLK - MODULE, HOT STANDBY | In Stock | | N/A | N/A |
| HLK - MODULE, INTERFACE PLC | In Stock | | N/A | N/A |
| HLK - MODULE, RACK FILLER | In Stock | | N/A | N/A |
| HLK - MODULE, RELAY OUT | In Stock | | N/A | N/A |
| HLK - OPERATING RING - Bearing pads | In Stock | | N/A | N/A |
| HLK - PANEL, CONTROL SCP/CCP | In Stock | | N/A | N/A |
| HLK - PANEL, VOLTAGE ADJUSTER | In Stock | | N/A | N/A |
| HLK - PLATE, TERMINAL 3 POLE | In Stock | | N/A | N/A |
| HLK - PLATE, TERMINAL 6 POLE | In Stock | | N/A | N/A |
| HLK - PMG Speed Switch Bracket | In Stock | | N/A | N/A |
| HLK - POWER DISTRIBUTOR, ASSY | In Stock | | N/A | N/A |
| HLK - POWER SUPPLY, 125-24 VDC | In Stock | | N/A | N/A |
| HLK - POWER SUPPLY, 125 VDC | In Stock | | N/A | N/A |
| HLK - POWER SUPPLY, 125VDC 8A | In Stock | | N/A | N/A |
| HLK - POWER SUPPLY, 24 VDC | In Stock | | N/A | N/A |
| HLK - POWER SUPPLY, CP-C-24/10. | In Stock | | N/A | N/A |
| HLK - RECTIFYING TRANSFORMER | In Stock | | N/A | N/A |
| HLK - RELAY, CONTROL 120V 60HZ | In Stock | | N/A | N/A |
| HLK - RELAY, CONTROL 48V | In Stock | | N/A | N/A |
| 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 |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 - SERVOMOTOR #1 - servomotor repair kit | In Stock | | N/A | N/A |
| HLK - SERVOMOTOR ASSEMBLY - shear pins | In Stock | | N/A | N/A |
| HLK - Slip ring | In Stock | | N/A | N/A |
| HLK - Slipring /Brush Rigging - Brush holder | In Stock | | N/A | N/A |
| HLK - Slipring /Brush Rigging - Carbon brush | In Stock | | N/A | N/A |
| HLK - SOLENOID,GENERATOR AIR VALVE | In Stock | | N/A | N/A |
| HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON) | In Stock | | N/A | N/A |
| HLK - STATOR ASSEMBLY - Stator bars | In Stock | | N/A | N/A |
| HLK - STATOR ASSEMBLY - Stator connection caps | In Stock | | N/A | N/A |
| HLK - STATOR WINDINGS - UNIT 1 - robel bars | In Stock | | N/A | N/A |
| HLK - STN SERVICE TRANSFORMER (SST-1) | In Stock | | N/A | N/A |
| HLK - SURFACE AIR COOLERS | In Stock | | N/A | N/A |
| HLK - SWITCH,LIMIT AB 802T-ATP | In Stock | | N/A | N/A |
| HLK - SWITCH,LIMIT AB 802T-DTP | In Stock | | N/A | N/A |
| HLK - SWITCH,MERCROID TYPE C-4 | In Stock | | N/A | N/A |
| HLK - SWITCH,PRESS OIL ALARM | In Stock | | N/A | N/A |
| HLK - THRUST BEARING SEGMENTS (SET) - Thrust Bearing Segments | In Stock | | N/A | N/A |
| HLK - THRUST PIN ASSY,IR 32218406 | In Stock | | N/A | N/A |
| HLK - Thrust/Guide Bearing Coolers | In Stock | | N/A | N/A |
| HLK - Thrust/Guide Bearing Coolers - Hi pressure lift pump | In Stock | | N/A | N/A |
| HLK - TURBINE - BEARING SEGMENT TURBINE, | In Stock | | N/A | N/A |
| HLK - TURBINE - Carbon seal, | In Stock | | N/A | N/A |
| HLK - TURBINE - Dowel | In Stock | | N/A | N/A |
| HLK - TURBINE - Eccentric pin | In Stock | | N/A | N/A |
| HLK - TURBINE - Friction hub | In Stock | | N/A | N/A |
| HLK - TURBINE - Friction hub | In Stock | | N/A | N/A |
| HLK - TURBINE - Link pin | In Stock | | N/A | N/A |
| HLK - TURBINE - link thick | In Stock | | N/A | N/A |
| HLK - TURBINE - link thin | In Stock | | N/A | N/A |
| HLK - TURBINE - Packing box | In Stock | | N/A | N/A |
| HLK - TURBINE - PLATE BEARING, | In Stock | | N/A | N/A |
| HLK - TURBINE - SEAL TURBINE, | In Stock | | N/A | N/A |



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|---|--------------|----------|-------------------------------|------------------------|
| 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 |
| 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 |



Critical Spares Stock Status

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|--------------------------------------|--------------|----------|-------------------------------|------------------------|
| 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#E02130 | In Stock | | N/A | N/A |
| USL - BUSHING,SMALL END COM#E02130 | In Stock | | N/A | N/A |
| USL - BUSHING, WHEEL | In Stock | | N/A | N/A |
| USL - COIL,SULL 250018-971 | In Stock | | N/A | N/A |
| USL - CROWBAR,ES | In Stock | | N/A | N/A |
| USL - FILTER,COOLANT (ELEMENT ONLY) | In Stock | | N/A | N/A |
| USL - GASKET KIT,IR X1453T47 | In Stock | | N/A | N/A |
| USL - GASKET,COMPAIR E05516 | In Stock | | N/A | N/A |
| USL - GASKET,COMPAIR E05516 | In Stock | | N/A | N/A |
| USL - GASKET,COMPAIR J201671 | In Stock | | N/A | N/A |
| USL - GASKET,COMPAIR J201671 | In Stock | | N/A | N/A |
| USL - GASKET,FLEXMASTER 250007-559 | In Stock | | N/A | N/A |
| USL - GASKET,SULL 040517 | In Stock | | N/A | N/A |
| USL - GOVERNOR PUMP | In Stock | | N/A | N/A |
| USL - GOVERNOR PUMP | In Stock | | N/A | N/A |
| USL - HEATER,GAIN 3.2 KW 575 V | In Stock | | N/A | N/A |
| USL - HEATER,GATE (DUCT BLOWE | In Stock | | N/A | N/A |



Critical Spares Stock Status

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| 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 |



Critical Spares Stock Status

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|--------------------------|--------------|---|-------------------------------|------------------------|
| USL - Transformer T2 | On Order | Unit was shipped to Turkey in 2022 to be repaired and tested. The anticipated return date to USL was Q2 2023; however, the transformer remains at the factory in Turkey due to unsuccessful Factory Acceptance Testing. | N/A | Q1 2024 |