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October 13, 2023

Board of Commissioners of Public Utilities  
Prince Charles Building  
120 Torbay Road, P.O. Box 21040  
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 2023–2024 Winter Readiness Planning Report.

Hydro notes that, as approved in correspondence from the Board dated August 17, 2023,<sup>1</sup> the information previously included as Section 7.0 of the Winter Readiness Report (Near-Term Reliability and Resource Adequacy) has not been included and will instead be included in the next Near-Term Reliability Report.

Should you have any questions, please contact the undersigned.

Yours truly,

**NEWFOUNDLAND AND LABRADOR HYDRO**

Shirley A. Walsh  
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Encl.

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<sup>1</sup> “Newfoundland and Labrador Hydro - Reliability and Resource Adequacy Study Review – Schedule for Future Updates,” Board of Commissioners of Public Utilities, August 17, 2023.

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# 2023–2024 Winter Readiness Planning Report

October 13, 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,<sup>1</sup> 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 plan<sup>[2]</sup> 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].<sup>3</sup>
- 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.<sup>4</sup>

Except where otherwise noted, information presented in this report covers both the Island Interconnected System and the Labrador Interconnected System for the period ending September 30, 2023.<sup>5</sup>

<sup>1</sup> “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).

<sup>2</sup> Annual work plan (“AWP”).

<sup>3</sup> 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.

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

<sup>5</sup> The data used to generate the status charts in Section 2.0 reflect a data cutoff date of September 15, 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 September 15, 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 September 15, 2023 in relation to  
9 AWP and WR activities (i.e., Green: On Target, Yellow: Caution – Recovery Required, Orange: Target Will  
10 Not 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,<sup>6</sup> 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.<sup>7</sup> 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.<sup>8</sup>

22 Section 2.6 and Appendix A provide the status of capital projects that include additional WR tasks.

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

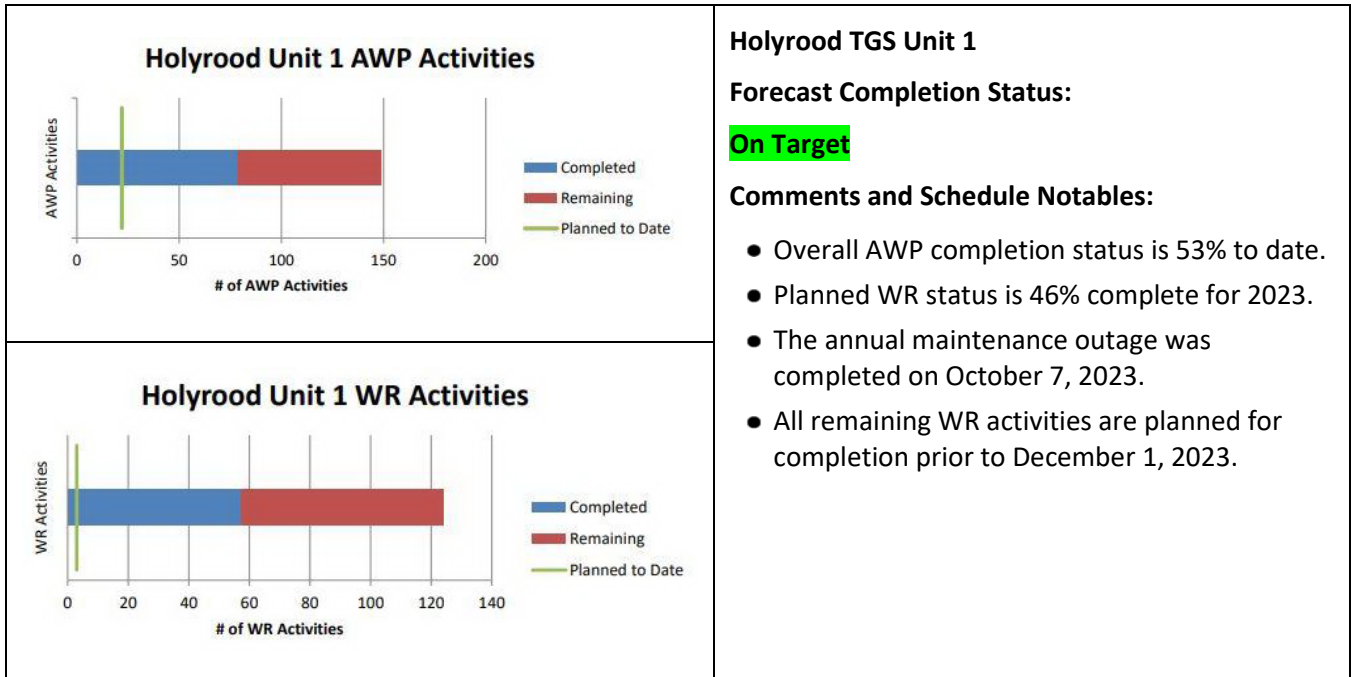
<sup>7</sup> “Reliability and Resource Adequacy Study - 2023 Update - Volume II: Near-Term Reliability Report – May Report,” Newfoundland and Labrador Hydro, June 2, 2023.

<sup>8</sup> 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**

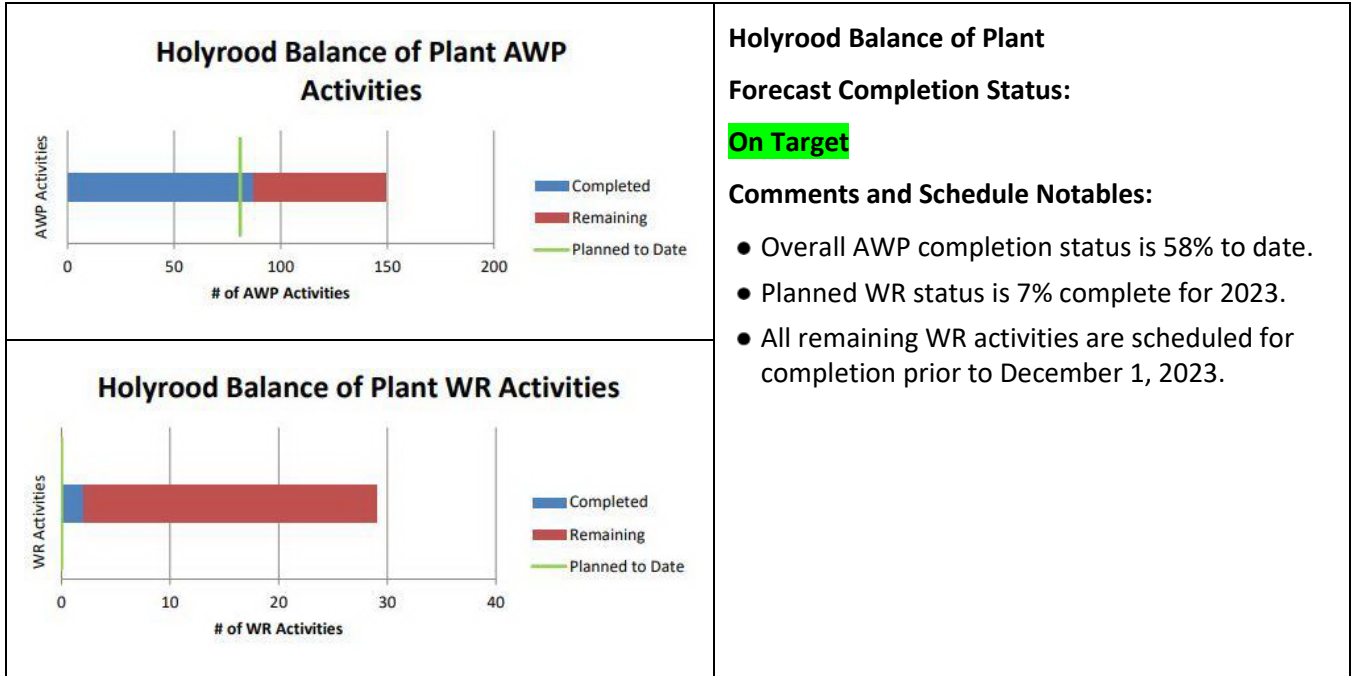
2 The status of AWP and WR execution at the Holyrood TGS is summarized in the following charts. All  
 3 planned 2023 WR work is on target for completion by December 1, 2023, aside from activities related to  
 4 Unit 2. As discussed in Section 7.2.4, Unit 2’s return to service is delayed until March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



<h3>Holyrood Unit 2 AWP Activities</h3> <p>AWP Activities</p> <p># of AWP Activities</p> <ul style="list-style-type: none"> <li>Completed</li> <li>Remaining</li> <li>Planned to Date</li> </ul>	<h3>Holyrood TGS Unit 2</h3> <p><b>Forecast Completion Status:</b>  <span style="background-color: orange;">Target Will Not be Fully Met</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 53% to date.</li> <li>● Planned WR status is 46% complete for 2023.</li> <li>● 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.<sup>9</sup></li> <li>● The return to service date for this unit is tentatively scheduled for mid-March 2024.</li> <li>● All AWP and WR items are scheduled to be completed prior to the unit being returned to service in March 2024.</li> </ul>
<h3>Holyrood Unit 2 WR Activities</h3> <p>WR Activities</p> <p># of WR Activities</p> <ul style="list-style-type: none"> <li>Completed</li> <li>Remaining</li> <li>Planned to Date</li> </ul>	

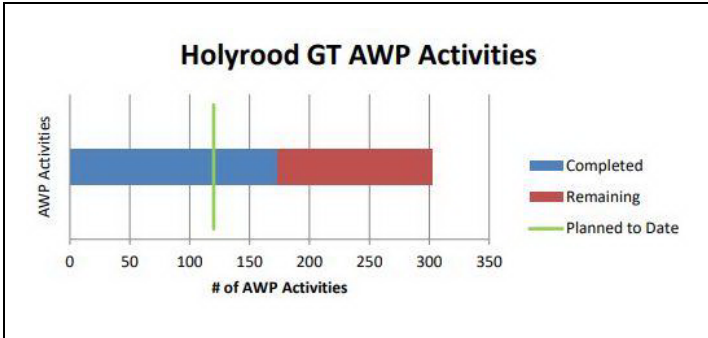
<h3>Holyrood Unit 3 AWP Activities</h3> <p>AWP Activities</p> <p># of AWP Activities</p> <ul style="list-style-type: none"> <li>Completed</li> <li>Remaining</li> <li>Planned to Date</li> </ul>	<h3>Holyrood TGS Unit 3</h3> <p><b>Forecast Completion Status:</b>  <span style="background-color: green;">On Target</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 83% to date.</li> <li>● Planned WR status is 83% complete for 2023.</li> <li>● The annual maintenance outage was completed on July 1, 2023.</li> <li>● Unit 3 is currently operating in synchronous condenser mode, and is expected to return to service in generation mode on October 18, 2023.</li> <li>● All remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
<h3>Holyrood Unit 3 WR Activities</h3> <p>WR Activities</p> <p># of WR Activities</p> <ul style="list-style-type: none"> <li>Completed</li> <li>Remaining</li> <li>Planned to Date</li> </ul>	

<sup>9</sup> 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 L-1 blades, a separate stage of blades from the last stage, or L-0 blades, 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.



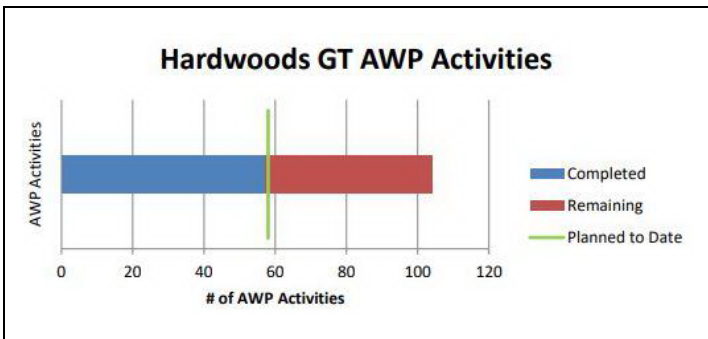
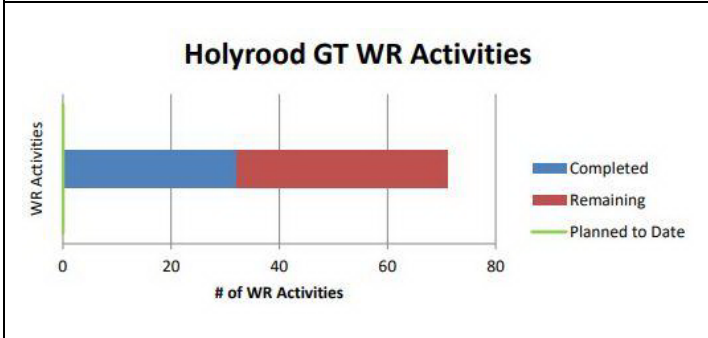
**Holyrood GT**

**Forecast Completion Status:**

**On Target**

**Comments and Schedule Notables:**

- Overall AWP completion status is 57% to date.
- Planned WR status is 45% complete for 2023.
- The fall maintenance outage is scheduled for October 23–November 3, 2023.
- Remaining WR activities are scheduled for completion prior to December 1, 2023.



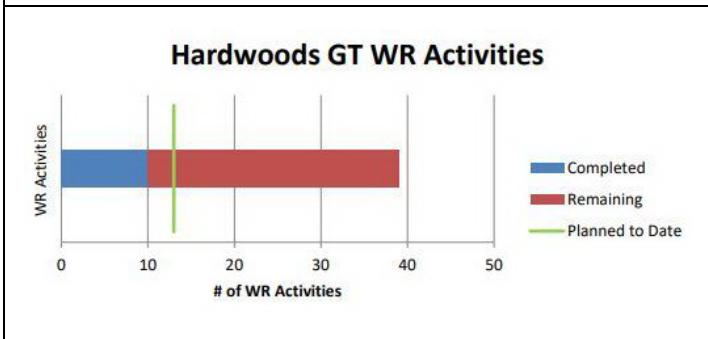
**Hardwoods GT**

**Forecast Completion Status:**

**On Target**

**Comments and Schedule Notables:**

- Overall AWP completion status is 55% to date.
- Planned WR status is 26% complete for 2023.
- The fall maintenance outage is scheduled for October 16–20, 2023.
- Remaining WR activities are scheduled for completion prior to December 1, 2023.

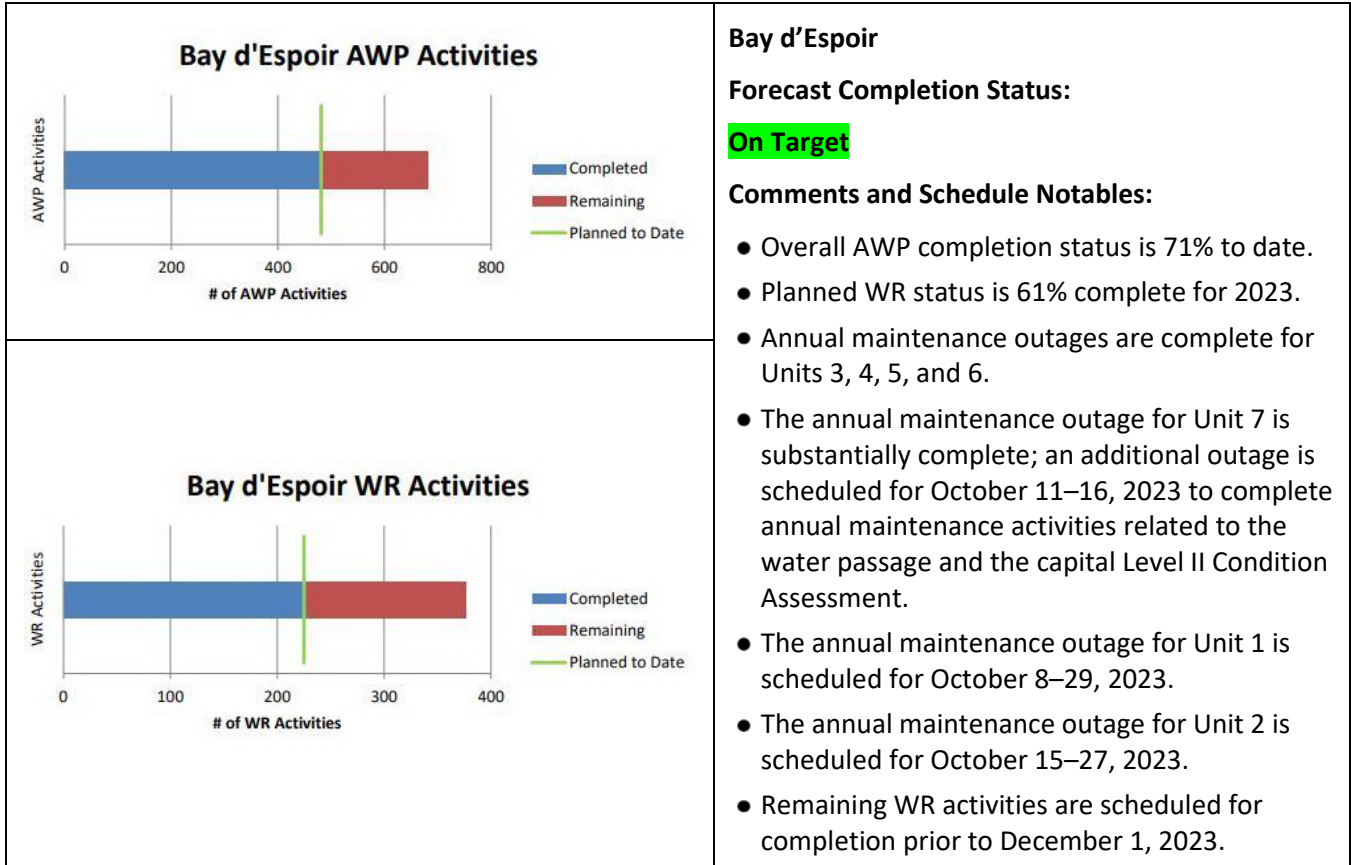


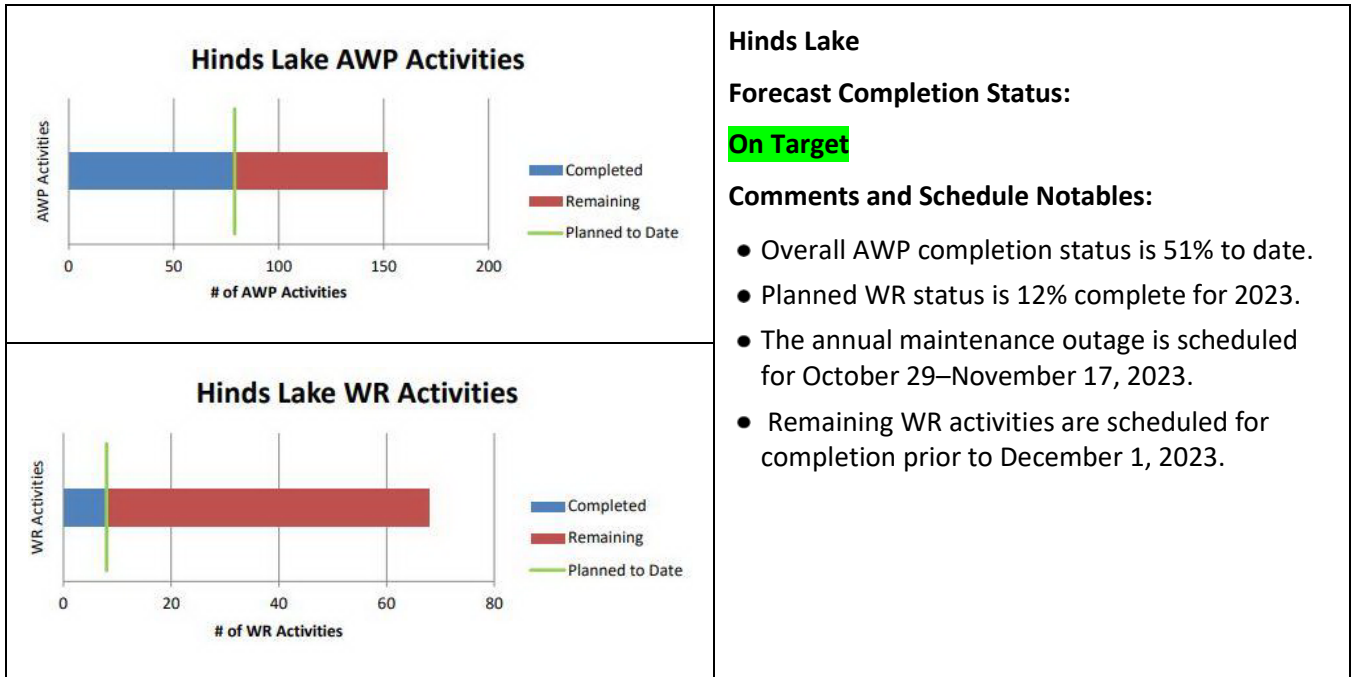
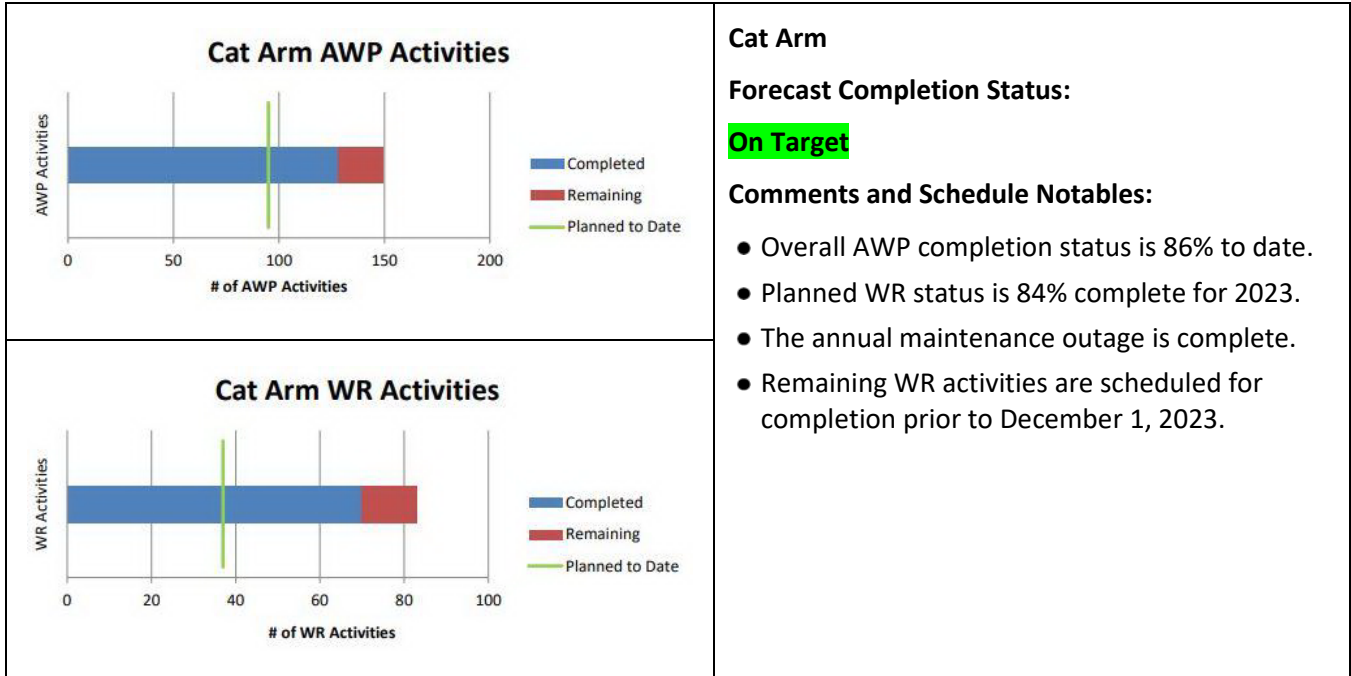
<h3 style="text-align: center;">Stephenville GT AWP Activities</h3> <p style="text-align: center;"># of AWP Activities</p>	<h3>Stephenville GT</h3> <p><b>Forecast Completion Status:</b>  <span style="background-color: orange; color: black; padding: 2px;">Target Will Not be Fully Met</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 58% to date.</li> <li>● Planned WR status is 33% complete for 2023.</li> <li>● The unit is currently unavailable and is not expected to return to service until mid- to late-January 2024.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> <li>● Remaining AWP items are scheduled to be completed prior to returning the unit to service.</li> </ul>
<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><b>Forecast Completion Status:</b>  <span style="background-color: green; color: black; padding: 2px;">On Target</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 73% to date.</li> <li>● Planned WR status is 77% complete for 2023.</li> <li>● The fall maintenance outage is complete; however, an additional outage may be required to complete capital upgrades prior to December 1, 2023.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
<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 facilities is on target for completion by December 1, 2023.

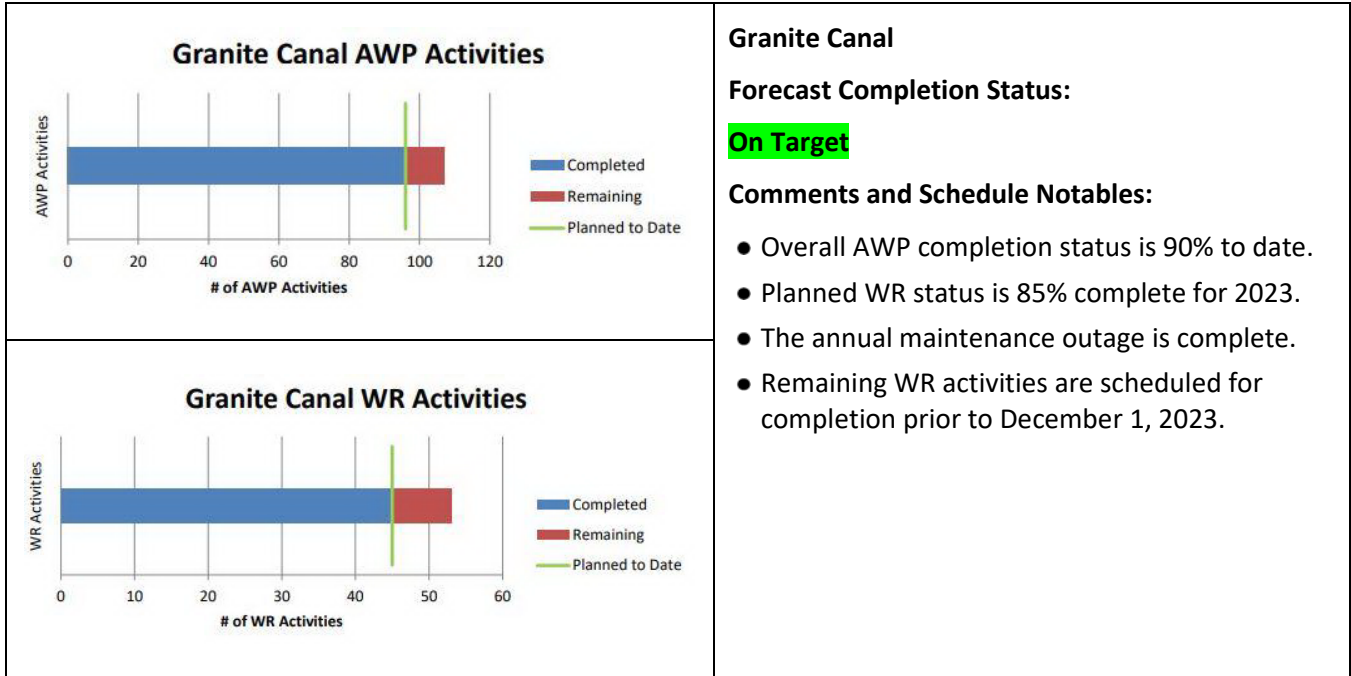




<p style="text-align: center;"><b>Paradise River AWP Activities</b></p> <p style="text-align: center;"><b>Paradise River WR Activities</b></p>	<p><b>Paradise River</b></p> <p><b>Forecast Completion Status:</b>  <span style="background-color: green; color: black; padding: 2px;">On Target</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 90% to date.</li> <li>● Planned WR status is 86% complete for 2023.</li> <li>● The annual maintenance outage is complete.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
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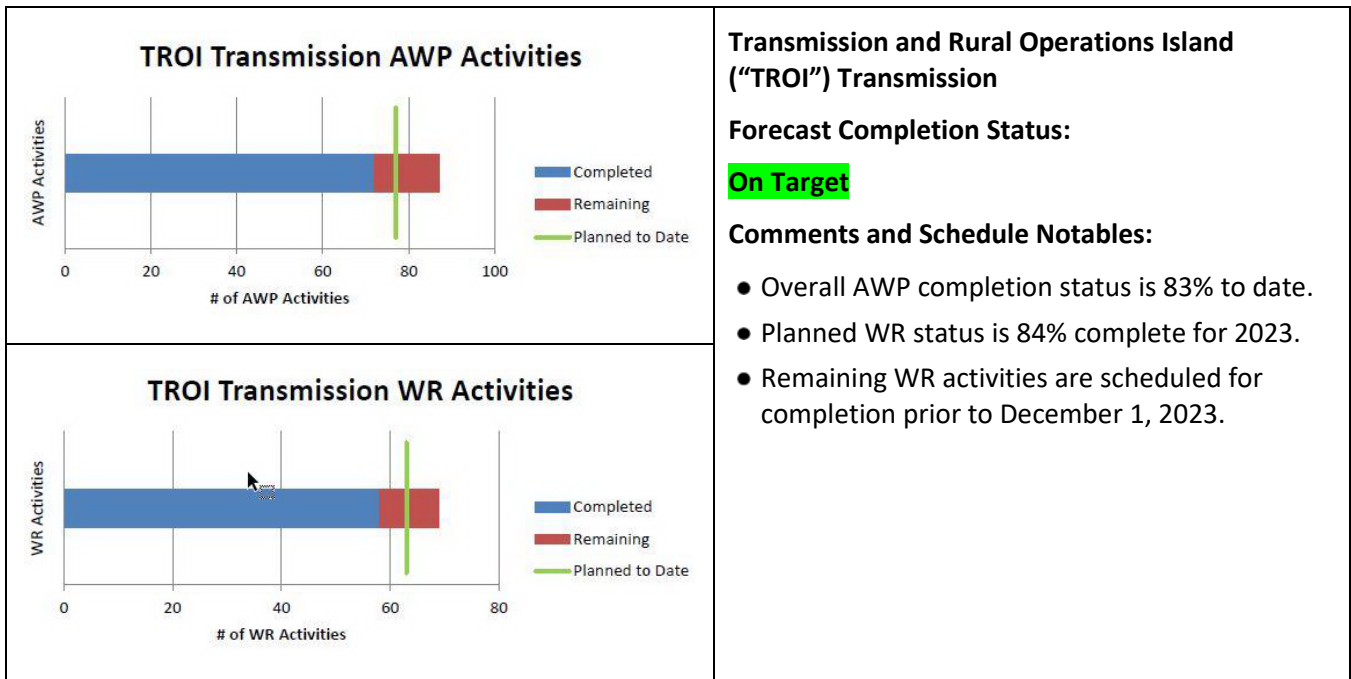
<p style="text-align: center;"><b>Upper Salmon AWP Activities</b></p> <p style="text-align: center;"><b>Upper Salmon WR Activities</b></p>	<p><b>Upper Salmon</b></p> <p><b>Forecast Completion Status:</b>  <span style="background-color: green; color: black; padding: 2px;">On Target</span></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 60% to date.</li> <li>● Planned WR status is 48% complete for 2023.</li> <li>● The annual maintenance outage is ongoing; activities were subject to delay due to requirements to expand the work scope to include corrections to the alignment of the turbine and generator assembly.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
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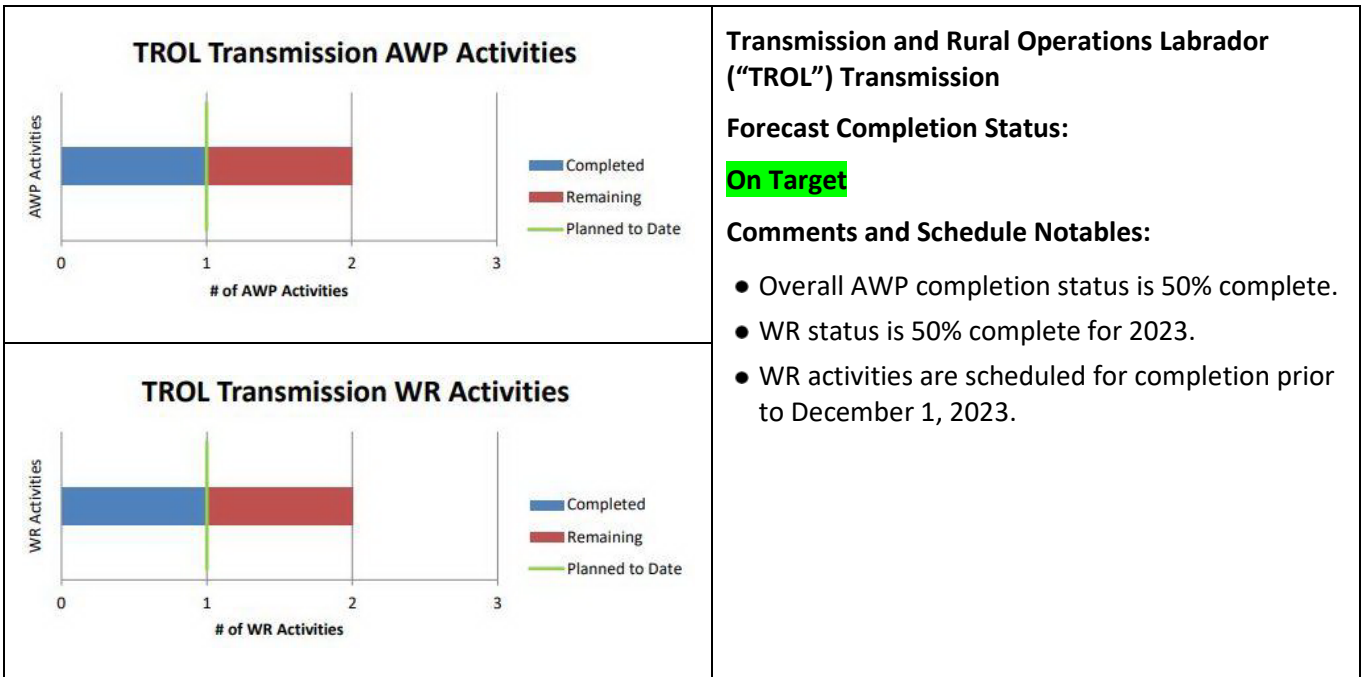
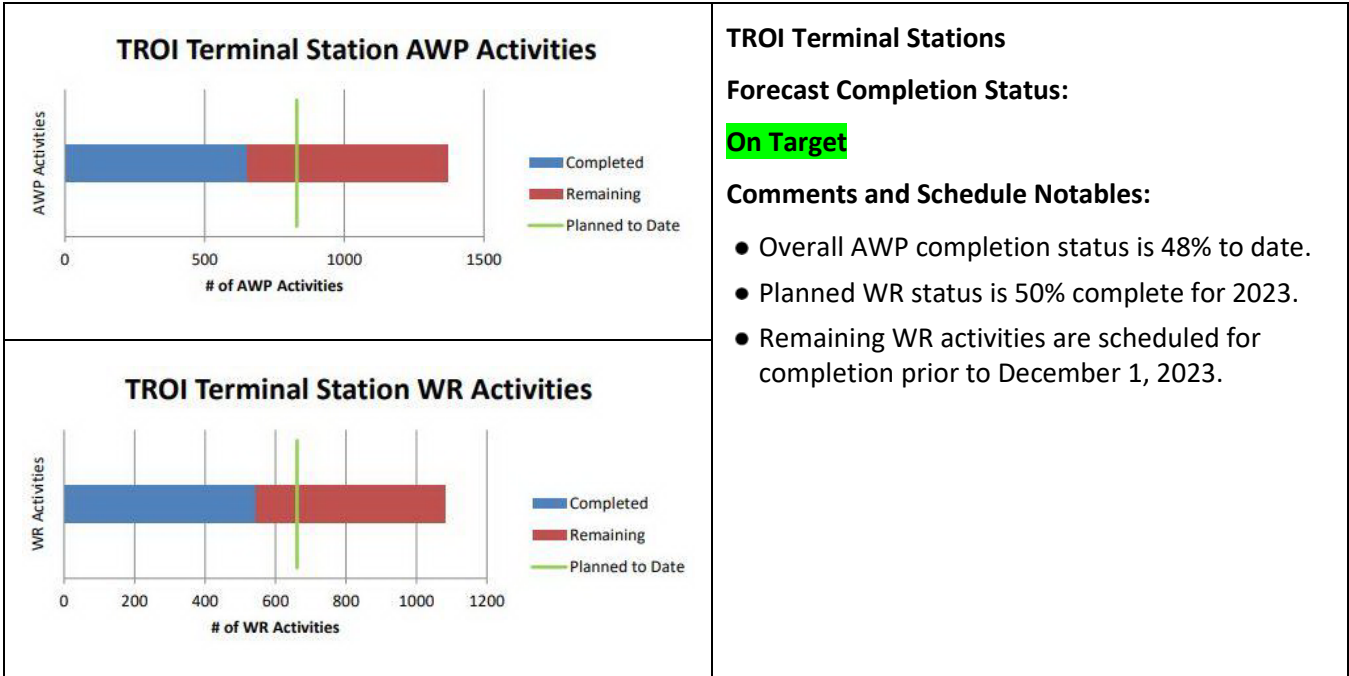




1 **2.4 Transmission and Terminal Stations**

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><b>TROL Terminal Station AWP Activities</b></p> <p>AWP Activities</p> <p># of AWP Activities</p> <p>Completed Remaining Planned to Date</p>	<p><b>TROL Terminal Stations</b></p> <p><b>Forecast Completion Status:</b> <b>On Target</b></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 75% to date.</li> <li>● WR status is 84% complete for 2023.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
<p><b>TROL Terminal Station WR Activities</b></p> <p>WR Activities</p> <p># of WR Activities</p> <p>Completed Remaining Planned to Date</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.

<p><b>Network Services AWP Activities</b></p> <p>AWP Activities</p> <p># of AWP Activities</p> <p>Completed Remaining Planned to Date</p>	<p><b>Network Services</b></p> <p><b>Forecast Completion Status:</b> <b>On Target</b></p> <p><b>Comments and Schedule Notables:</b></p> <ul style="list-style-type: none"> <li>● Overall AWP completion status is 74% to date.</li> <li>● WR status is 73% complete for 2023.</li> <li>● Remaining WR activities are scheduled for completion prior to December 1, 2023.</li> </ul>
<p><b>Network Services WR Activities</b></p> <p>WR Activities</p> <p># of WR Activities</p> <p>Completed Remaining Planned to Date</p>	

1 **2.6 Muskrat Falls Assets**

2 **2.6.1 Transmission Assets**

3 For the LIL, Labrador Transmission Assets and synchronous condensers at Soldiers Pond, the status of  
 4 the overall AWP completion is 61% to date, and planned WR activities are 46% complete to date for  
 5 2023.<sup>10</sup>

6 **2.6.2 Generation Assets**

7 The status of the Muskrat Falls Generating Facility (Units 1 to 4) overall AWP completion is 51% to date,  
 8 and planned WR activities are 26% complete for 2023.<sup>11</sup>

9 **3.0 Status of Winter Readiness for Capital Projects**

10 **3.1 Regulated Hydro Capital Projects**

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

**Table 1: Status of Capital Projects with WR Scope**

Asset Category	Complete as of	Incomplete, Expected	Incomplete, Expected	Total
	October 1, 2023	Completion by December 1, 2023	Completion after December 1, 2023	
Hydraulic Generation	1	1	0	2
Thermal Generation	1	3	3 <sup>12</sup>	7
Gas Turbine Generation	1	1	0	2
Terminal Stations	1	3	1	5
Telecontrol	1	0	0	1
<b>Total</b>	<b>5</b>	<b>8</b>	<b>4</b>	<b>17</b>

14 As of October 1, 2023, the WR scope for five of the 17 capital projects and programs is complete, and  
 15 the WR scope for an additional eight projects and programs is expected to be completed by  
 16 December 1, 2023. A portion of the WR scope within four projects and programs is expected to be  
 17 completed after December 1, 2023. The status of those four projects and programs are as follows:

<sup>10</sup> AWP and planned WR activity status is as of September 15, 2023.

<sup>11</sup> AWP and planned WR activity status is as of September 15, 2023.

<sup>12</sup> One of these three 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) **Holyrood – Overhaul Unit 2 Turbine and Valves Program**

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

- **Turbine Overhaul:** The planned overhaul work at the original equipment manufacturer’s (“OEM”) shop is complete; however, the turbine rotor inspection at the shop identified cracking on the low pressure blades on the Unit 2 turbine, resulting in the unanticipated requirement to replace that set of blades. New blades have been ordered and will be installed at the OEM shop prior to returning the turbine to the plant for installation and commissioning.
- **Turbine Valves Overhaul:** This activity is complete; final commissioning will occur during the start up and return to service of Unit 2.
- **Generator Electrical Testing:** Testing is expected to be completed in 2023, prior to the start up and return to service of Unit 2.

The expected return to service date for this generating unit is mid-March 2024; the delay is a result of the unanticipated requirement to replace the low pressure blades on the Unit 2 turbine as discussed above.<sup>13</sup>

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

The WR scope in this project is to replace the obsolete turbine control system hardware for Unit 2 at the Holyrood TGS. The construction activity is substantially complete; final commissioning 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.

3) **Holyrood – Fuel Tank 1<sup>14</sup> 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

<sup>13</sup> Please refer to Section 7.2.4 for a summary of the risk and risk mitigation associated with this activity.

<sup>14</sup> 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.

1 the north side of the tank. The return to service date for Tank 1 cannot yet be determined; tank  
2 cleaning is required before an assessment can be made to determine the scope of repairs.<sup>15</sup>

#### 3 **4) Various Locations – Upgrade Circuit Breakers Program**

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

- 6 • 50% of the WR scope of this program is complete;
- 7 • 25% of the WR scope of this program is expected to be complete by December 1, 2023; and
- 8 • 25% of the WR scope of this program is expected to be completed after December 1, 2023,  
9 which includes the following work:
  - 10 ○ Replacement of Bay d'Espoir Circuit Breaker B1T1; and
  - 11 ○ Refurbishment of Roddickton Wood Chip Circuit Breaker B1L57.

12 The Bay d'Espoir Circuit Breaker B1T1 replacement has carried over to 2024 due to generating  
13 unit outage availability prior to the start of the WR period. Restricted unit outage availability is  
14 primarily a result of the Bay d'Espoir Transformer 6 (“T6”) failure, which resulted in subsequent  
15 delays in other unit outages.<sup>16</sup>

16 The refurbishment of Roddickton Wood Chip Circuit Breaker B1L57 commenced in July 2023;  
17 however, its completion is delayed due to issues discovered with the circuit breaker during the  
18 refurbishment. Addressing these issues requires the replacement of parts that neither Hydro  
19 nor the OEM have in stock; the parts have been ordered and the refurbishment completion date  
20 is estimated to be December 13, 2023.<sup>17</sup>

### 21 **3.2 Muskrat Falls Assets Capital Projects**

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

24 With regards to capital programs for transmission assets impacting winter readiness, Hydro is actively  
25 addressing the recommendations resulting from four types of failures last winter on different sections of  
26 the LIL. These failures were localized issues each affecting a small amount of specific transmission line

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<sup>15</sup> Please refer to Section 7.2.7 for a summary of the risk and risk mitigation associated with Fuel Tank 1.

<sup>16</sup> Please refer to Section 7.1.3 for a summary of the risk and risk mitigation associated with Bay d'Espoir circuit breakers.

<sup>17</sup> Please refer to Section 7.1.4 for a summary of the risk and risk mitigation associated with this circuit breaker.

1 components.<sup>18</sup> The compounding effect of these failures has had a relatively minor impact on LIL key  
2 reliability metrics and Hydro has taken proactive steps to mitigate the risk of customer and/or system  
3 impact resulting from similar failures in the upcoming winter season.

4 In preparation for the upcoming winter, Hydro has advanced its capital programs to replace turnbuckles  
5 and install airflow spoilers to reduce galloping, prioritizing the high priority areas of the LIL.<sup>19</sup> Hydro has  
6 completed all planned year one turnbuckle replacements and installed airflow spoilers in the high  
7 priority zones.<sup>20</sup> As the capital project for turnbuckle replacement is a four-year project, there is some  
8 residual risk of failure on the remaining scope; however, Hydro has mitigated the risk of a prolonged  
9 customer outage as a result of turnbuckle failures by focusing on the priority areas, which represent the  
10 most remote locations on the LIL where galloping has been observed.

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

## 16 **4.0 Plant and Equipment Testing**

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

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

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<sup>18</sup> “Reliability and Resource Adequacy Review – Summary of Findings from L3501/2 Failure Investigations,” Newfoundland and Labrador Hydro, October 4, 2023.

<sup>19</sup> 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.

<sup>20</sup> 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.<sup>21</sup> The current  
8 status of equipment/plant testing for thermal generation is indicated in Appendix B.

9 Unit 3 has been in operation in synchronous condenser mode. Many of the start-up checks for Unit 3  
10 and Balance of Plant equipment have been completed. The remainder of the start-up checks will be  
11 completed when the unit is converted to generation mode later in the fall, the timing of which will be  
12 dictated by system generation needs.

13 Unit 1 came online following its annual maintenance outage on October 8, 2023. As indicated in  
14 Appendix B, some start-up checks are complete on this unit, but the majority will be completed when  
15 the unit is started up in preparation for system generation needs.

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

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

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<sup>21</sup> The black start diesel generators are run up to speed and synchronized on a weekly basis to confirm their availability. The function of all associated breakers are also tested and confirmed.



1 **4.2 Gas Turbine Generation**

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

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

8 AWP charts, which include WR activities, are shown in Section 2.2.

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 and Holyrood gas  
11 turbines will occur before December 1, 2023 during upcoming planned maintenance outages and  
12 planned 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.”<sup>22</sup> 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.<sup>23</sup>

### 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.

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<sup>22</sup> “Transmission System and Terminal Station Asset Management Execution Report,” Newfoundland and Labrador Hydro, April 25, 2022.

<sup>23</sup> “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 and Stephenville GT. Given  
9 that the LIL has been commissioned, its maximum contribution at peak to the Island System is now  
10 included in Hydro’s Island reserve calculations.<sup>24</sup>

11 At this time, maintenance activities are underway on Upper Salmon, Bay d’Espoir Unit 1 and Unit 7, Star  
12 Lake, and Muskrat Falls Unit 1. Annual maintenance activities remain to be completed on Bay d’Espoir  
13 Unit 2, Hinds Lake, Muskrat Falls Unit 3, the Hardwoods GT and the Holyrood GT. There are no planned  
14 generation outages extending beyond November 28, 2023, with an exception of proposed outages on  
15 the LIL, which delivers energy from the Muskrat Falls Hydroelectric Generating Facility, with dates to be  
16 confirmed.

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

- 18 • Holyrood TGS Unit 2 is currently unavailable, and will not return to service for the remainder of  
19 2023 due to the unexpected replacement of the low pressure blades on the Unit 2 turbine. The  
20 return to service date for this unit is tentatively scheduled for mid-March 2024 due to lead times  
21 for specialized parts and services.
- 22 • Stephenville GT is currently unavailable due to alternator cooling fan repair, and is not expected  
23 to return to service until mid- to late-January 2024 due to lead times for specialized repair  
24 services.

25 The Master Generation Outage Schedule for September 1–December 31, 2023 is provided as  
26 Appendix D.

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<sup>24</sup> 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.

## 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.

A full update on the status of Hydro’s critical spares, as of September 30, 2023, for the 2023–2024 winter season is provided in this report. This update includes a detailed listing of critical spares requirements for each area of generation operations and the status of each item.

### 6.2 2023–2024 Winter Season

Hydro’s critical spares status leading into the 2023–2024 winter season is strong. For thermal generation (Appendix E), gas turbines (Appendix F), and hydraulic generation (Appendix G), 2,521 critical spares have been identified by Hydro’s three generation operations areas. Of this total, 2,513 items are in stock (>99%) and 8 items are in the procurement process.

#### 6.2.1 Thermal Generation

As summarized in Table 2, there are six critical spare stock items currently not in stock. All of these items are on order through Hydro’s Supply Chain Department and are in varying stages of procurement. One item is being refurbished at a specialized maintenance facility out of province, and is expected to be returned to site by December 13, 2023.<sup>25</sup> A Purchase Order has been issued for one item, with an

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<sup>25</sup> 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.

1 expected delivery date of mid-November 2023. One item is currently out for quote.<sup>26</sup> Supply Chain is  
 2 expediting the purchase of this item; an update on this and all other outstanding items will be provided  
 3 in the November 2023 filing of the 2023–2024 Winter Readiness Planning Report.

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

- 6 **1) In Stock:** Part is in inventory;
- 7 **2) Non-Stock:** Part is critical but it is not necessary to keep it in stock (e.g., because the part is  
 8 readily available locally);<sup>27</sup> and
- 9 **3) On Order:** Part is required to be in stock but is not.

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

Status	Quantity
In Stock	752
On Order	6
Not Yet On Order	0
<b>Total</b>	<b>758</b>

10 **6.2.2 Gas Turbines**

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

**Table 3: Critical Spares for Gas Turbine Generation<sup>28</sup>**

Status	Hardwoods/ Stephenville	Holyrood	Happy Valley	Total	
In Stock	90	402	53	<b>545</b>	<b>99.82%</b>
On Order	0	1	0	<b>1</b>	<b>0.18%</b>
Not Yet On Order	0	0	0	<b>0</b>	<b>0.0%</b>
<b>Total</b>	<b>90</b>	<b>403</b>	<b>53</b>	<b>546</b>	<b>100.0%</b>

13 Hydro has utilized a number of its spare parts to address deficiencies found during the 2023  
 14 maintenance season. These items have been identified and the spare components have been

<sup>26</sup> Hydro is awaiting a quote for one item, which is listed as a critical spare for four different components. For reporting purposes, this is counted as four items.

<sup>27</sup> For the Non-Stock parts, an explanation of the reason why it is Non-Stock is provided in the Notes column in Appendix E.

<sup>28</sup> Items listed as On Order are expected to be in stock prior to December 1, 2023.

1 replenished. Fall maintenance outages may result in the requirement to replenish additional spare  
2 components.

### 3 **6.2.3 Hydraulic Generation**

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

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

<b>Status</b>	<b>Quantity</b>
In Stock	1,216
On Order	1
Not Yet On Order	0
<b>Total</b>	<b>1,217</b>

6 The Upper Salmon T2 spare transformer remains outstanding but does not present a risk to WR.<sup>29</sup> This  
7 spare transformer was delivered to Upper Salmon in August 2021 from a factory in Turkey; however, the  
8 unit was not accepted by Hydro due to unit damage most likely caused by an impact event that occurred  
9 during shipping from the factory.<sup>30</sup> The transformer was returned to Turkey in 2022 to be repaired and  
10 tested; however, challenges have been encountered with FAT<sup>31</sup> throughout 2023. Hydro continues to  
11 work with the supplier to expedite repairs and deliver the transformer back to Upper Salmon and  
12 expects the transformer to be returned to Upper Salmon in the first quarter of 2024.

## 13 **7.0 Risk and Risk Mitigation**

14 Hydro’s readiness planning for the 2023–2024 winter season is progressing towards completion. Hydro  
15 anticipates that all generation will be available by December 1, 2023, with the exception of Unit 2 at the  
16 Holyrood TGS, and the Stephenville GT. Potential system risks and associated mitigation plans are  
17 provided in the sections that follow.

### 18 **7.1 Bay d’Espoir Operations**

19 Bay d’Espoir generation is expected to be fully available by December 1, 2023. Four risks to winter  
20 readiness and/or reliable operations are identified in Sections 7.1.1 to 7.1.4.

<sup>29</sup> 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.

<sup>30</sup> 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.

<sup>31</sup> Factory Acceptance Testing (“FAT”).

1 **7.1.1 Upper Salmon Rotor Key Cracking and Rotor Rim Guidance Block Defects**

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

6 An inspection in March 2023 revealed rotor rim lamination failures and guidance block cracking which,  
7 following consultation with the OEM, resulted in the recommendation that the unit could no longer  
8 support the safe and reliable generation of electricity. The Upper Salmon Unit was subsequently  
9 removed from service, upon which Hydro proceeded with capital life extension activities<sup>32</sup> required to  
10 remediate the issue. Since the commencement of supplemental activities, in consultation with the OEM,  
11 Hydro has expanded the project scope to include the required corrections to the alignment of the  
12 turbine and generator assembly. The construction on the unit commenced in the second quarter of 2023  
13 and is planned for completion prior to the WR target date of December 1, 2023.

14 **7.1.2 Bay d’Espoir Penstocks**

15 As a result of previous ruptures of the Bay d’Espoir Penstocks, with the most recent being September  
16 2019, Hydro has continued to complete annual inspections of Bay d’Espoir Penstocks 1, 2, and 3 to  
17 monitor penstock condition and ensure reliability in the short term.

18 Penstock 3 was inspected in May 2023; during the inspection, nine new weld indications were  
19 discovered in areas which had not been previously repaired. Weld repairs were completed and the  
20 penstock was returned to service. The inspection of Penstock 2 was also completed in May 2023. During  
21 the inspection, three new weld indications were discovered in areas which had not been previously  
22 repaired. Weld repairs were completed and the penstock was returned to service. The inspection of  
23 Penstock 1 is scheduled for completion in October 2023; updates on inspection findings will be provided  
24 in future WR filings.

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

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<sup>32</sup> “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.

1 to the Board on December 7, 2022,<sup>33</sup> which has since been approved.<sup>34</sup> 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.<sup>35</sup>

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.<sup>36</sup> 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,<sup>37</sup> with one originally planned for installation in 2022, and

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<sup>33</sup> “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.

<sup>34</sup> *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 6(2023), Board or Commissioners of Public Utilities, April 12, 2023.

<sup>35</sup> 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.

<sup>36</sup> “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.

<sup>37</sup> “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 2023–2024<sup>38</sup> with installation planned for 2024.

3 Two of these five unit circuit breakers have been installed so far.<sup>39</sup> 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 **7.1.4 Roddickton Wood Chip Terminal Station Circuit Breaker B1L57 Refurbishment**

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

### 21 **7.2 Holyrood Thermal Generating Station Operations**

22 Hydro completed a Condition Assessment and Life Extension Study of the Holyrood TGS in 2021, which  
23 concluded that, in general, the assets were in good condition and suitable for operation to 2030, with  
24 planned maintenance and capital upgrades. It is recognized that the majority of the Holyrood TGS assets  
25 are 40 to 50 years old; increased age can result in an increased risk of in-service failures. Recent age-  
26 related failures have been experienced on the boilers, turbines, and electrical equipment at the  
27 Holyrood TGS. Hydro mitigates this risk through regular overhaul programs on major components

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<sup>38</sup> “2023 Capital Budget Application,” Newfoundland and Labrador Hydro, July 13, 2022, vol. II, sch. 6, prog. 1.

<sup>39</sup> The circuit breakers for Unit 3 and Unit 5 are installed.

1 including the boilers, turbines, generators, major pumps, loading arms, increased condition assessment  
2 work, and a robust critical spares program.

3 Hydro anticipates that Units 1 and 3 at the Holyrood TGS will be fully available by December 1, 2023. As  
4 discussed in Section 7.2.4, Unit 2’s return to service is delayed until March 2024 due to the required  
5 replacement of the low pressure blades. Seven items influencing WR and/or reliable operations are  
6 identified in Sections 7.2.1 to 7.2.7.

### 7 **7.2.1 Variable Frequency Drives**

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

### 16 **7.2.2 Unit 3 Steam Chest Crack**

17 Hydro has been monitoring a crack in the Unit 3 turbine steam chest since 1998. A repair completed by  
18 the OEM in 2001 was expected to prevent further crack growth for approximately 15 to 25 years. In  
19 2019, some growth was observed, and a study completed by the OEM in February 2023 recommended  
20 re-inspection of the crack after nine start-stop cycles. As the 2023 inspection found no crack growth, the  
21 unit is cleared for operation for the 2023–2024 winter. Should stop-start cycles be kept within the  
22 normal range for this unit, no further inspection of the crack will be required until summer 2024.<sup>40</sup>

### 23 **7.2.3 Unit Boiler Tubes**

24 Each of the three thermal generating units at the Holyrood TGS has a boiler that contains tubes, the  
25 failure of which are a common issue in thermal power plants.<sup>41</sup> To mitigate the possibility of tube  
26 failures, Hydro conducts a thorough annual tube inspection and test program, which was executed

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<sup>40</sup> 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.

<sup>41</sup> 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 during the 2023 annual outage season, and is scheduled to reoccur in 2024. Hydro has determined that  
2 the boiler tube sections as a whole are in good condition; however, tube failures continue to pose a risk.  
3 Hydro maintains a thorough selection of spare tube material and a contract with an experienced boiler  
4 contractor for the provision of emergency repairs in the event of tube failures.

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

#### 15 **7.2.4 Unit 1 and 2 Turbine Last Stage Blades**

16 During the major overhaul of the Unit 1 steam turbine in 2021, a crack was discovered in one of the last  
17 stage blades (“LSBs”) on the turbine rotor. The OEM, GE, determined that this crack was an indicator  
18 that the LSBs are approaching end of life and that further cracking would be expected. GE successfully  
19 completed a weld repair of the crack as a short-term fix to return the unit to service. There were no  
20 plans to replace the LSBs during the 2021 overhaul due to no known issues which would require  
21 replacement, and no spare set of blades available.<sup>42</sup>

22 Hydro completed a rotor in-situ inspection of the LSBs in 2022, which confirmed no further cracking.  
23 Due to similar age and operating history, GE identified both Unit 1 and Unit 2 as being at risk of LSB  
24 failure. Rotor in-situ inspections were completed during spring 2023 to determine which unit was at a  
25 higher risk of failure. These inspections found Unit 2 to be at higher risk, as three cracks were found on  
26 Unit 2, and none on Unit 1.

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<sup>42</sup> It is not uncommon to be without a spare set of LSBs 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.

1 In 2023, Hydro proceeded with the approved project<sup>43</sup> to overhaul the Unit 2 turbine and replace the  
2 LSBs on this unit at the GE shop in the USA. Subsequent turbine rotor inspection at the GE shop  
3 identified additional and unexpected cracking on the low pressure blades, resulting in the required  
4 replacement of that set of blades. As a result of the additional work and required component  
5 manufacturing, Unit 2 will not return to service until March 2024.<sup>44</sup>

6 Hydro submitted a supplemental capital project application to purchase a second set of LSBs for Unit 1,  
7 which are expected to arrive in spring 2024.<sup>45</sup> Unit 1 came online for the 2023–2024 operating season  
8 on October 8, 2023, following successful inspection. The Unit 1 LSBs will be replaced in 2024 during the  
9 summer outage season, with potential further repairs required upon inspection.

### 10 **7.2.5 Unit 1 Electrical Issues**

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

15 The investigation identified a number of problems; the first finding was that a 180Ω resistor had a crack  
16 in the porcelain, causing the resistance to fluctuate. A direct replacement for the resistor was not  
17 available as it is no longer manufactured due to the age of the equipment, and a temporary resistor was  
18 put in place on the secondary of the PTs.<sup>46</sup> Further testing found a failed resistor in the secondary of the  
19 generator grounding transformer, which was replaced with a temporary resistor as a direct replacement  
20 could not be sourced with a reasonable lead time.<sup>47</sup>

21 Corrective actions have been completed prior to bringing Unit 1 back online, including replacing the  
22 temporary resistors on the secondary of the PTs and the grounding transformer with proper industrial

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<sup>43</sup> 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.

<sup>44</sup> Until the work is complete, there remains a risk of further delay related to global supply chains and repair facility workloads.

<sup>45</sup> 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.

<sup>46</sup> 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.

<sup>47</sup> Testing showed a voltage signal that followed a pattern typical of a floating ground reference, which upon further investigation identified the failed resistor.

1 resistors. The PM program on the secondary resistors, grounding transformer and PT cabinet have also  
2 been reviewed and updated with additional testing and frequency for Unit 1 and Unit 2.<sup>48</sup>

### 3 **7.2.6 Air Compressors**

4 As a result of recent failures, Hydro has one of three air compressors available for service for the 2023–  
5 2024 operating season. In order to supply the necessary compressed air to the various systems for  
6 which it is required, and provide system redundancy, Hydro has secured a 375 CFM<sup>49</sup> and 900 CFM  
7 portable air compressor to temporarily connect to the system. The portable air compressors create  
8 minimal risk to operational reliability, but are not ideal for long-term use. These units will remain on site  
9 and in service as required until the necessary repairs are completed on the original compressors, which  
10 is expected to be after the 2023–2024 operating season.

### 11 **7.2.7 Fuel Tank 1 Inspection and Refurbishment**

12 In the early morning on September 14, 2023, as crews were transferring oil from the tanker to Tank 1 at  
13 Holyrood, a small leak was identified on Tank 1. Once containment was complete, offloading  
14 recommenced, with the fuel oil being pumped to Tanks 2, 3 and 4.<sup>50</sup> Holyrood TGS is a three-tank  
15 operation, and Hydro must utilize Tank 2 to facilitate repairs to Tank 1 and to ensure adequate fuel  
16 supply for this winter. The utilization of Tank 2 is an emergency measure, taken after consultations with  
17 stakeholders. Hydro is actively working to execute the repair and return to service of Tank 1<sup>51</sup> to ensure  
18 it is available for future fuel shipments, upon which Hydro will proceed with plans to retire Tank 2.<sup>52</sup>  
19 Hydro has taken all practical measures to mitigate risk, to ensure reliable service to customers this  
20 winter.

## 21 **7.3 Generator Step-Up Transformer Spares**

22 In July 2023, Hydro experienced a failure of the generator step-up transformer T6 in Bay d’Espoir.  
23 Following the failure, Hydro’s spare generator step-up transformer, which is located in Bay d’Espoir, was

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<sup>48</sup> 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.

<sup>49</sup> Cubic feet per minute (“CFM”).

<sup>50</sup>The oil remaining in Tank 1 was also transferred to Tank 2.

<sup>51</sup> Upon initial investigation, it appears the leak stemmed from a structural issue within the tank; however, a more detailed internal investigation is required.

<sup>52</sup> “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 released for service in the T6 slot on October 7, 2023.<sup>53</sup> With this spare transformer being placed in  
2 service in Bay d’Espoir, Hydro does not currently have a spare generator step-up transformer for Bay  
3 d’Espoir, Granite Canal or Upper Salmon. Hydro also does not currently have a spare for the Holyrood  
4 TGS generator step-up transformers, and has recently submitted a supplemental capital budget proposal  
5 for the purchase of such.<sup>54</sup> Should the application be approved, this spare is estimated to be delivered in  
6 the third quarter of 2026.

7 Hydro is working with the OEM to refurbish the failed T6 to be used as a spare generator step-up  
8 transformer.<sup>55</sup> It is expected that the refurbishment of T6 will be completed in December 2023;  
9 however, modification of bus duct adaptor kits is required to enable the utilization of this transformer as  
10 a spare for Bay d’Espoir T4, Bay d’Espoir T7 (derated to 50 MVA due to rough zone on Bay d’Espoir  
11 Unit 7), Granite Canal and Upper Salmon. No bus duct adaptor kits are required for Bay d’Espoir T1, T2,  
12 T3, T5 and T6. Hydro is continuing to work with the manufacturer to have the existing bus duct adaptor  
13 kits modified as required,<sup>56</sup> and is planning to complete any necessary procurement by December 2023.

## 14 **7.4 Gas Turbine Operations**

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

### 17 **7.4.1 Stephenville Gas Turbine – Alternator Cooling Fan Failure**

18 On July 14, 2023, the Stephenville GT tripped due to high vibration while operating in synchronous  
19 condense mode. During subsequent test runs, the alternator tripped again due to high exciter and  
20 alternator temperatures. A visual inspection of the unit determined the vibration trip was caused by the  
21 failure of one of the alternator cooling fans.<sup>57</sup> The OEM was engaged to complete more thorough  
22 inspections and testing; it was confirmed the alternator cooling fan had failed, and additional damage  
23 was observed on the stators winding insulation.

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<sup>53</sup> Replacement of T6 is ongoing within Hydro’s Terminal Station In-Service Failure program. The estimated cost is approximately \$1.6 million.

<sup>54</sup> “Purchase Spare Generator Step-Up Transformer,” Newfoundland and Labrador Hydro, September 21, 2023.

<sup>55</sup> 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.

<sup>56</sup> Bus duct adaptor kit modification will only be completed if and when needed in the case of an additional transformer failure.

<sup>57</sup> 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.

1 Based on their inspections, the OEM recommended that the alternator be removed from the unit. The  
2 rotor will be removed from the alternator and sent to the OEM’s facility in the USA for inspection and  
3 repair in early November 2023. The stator will be inspected, cleaned and repaired on site; this work is  
4 scheduled to begin on October 23, 2023. The return to service date for this unit is expected to be mid-  
5 to late-January 2024.

## 6 **8.0 Conclusion**

7 Hydro is progressing towards completion of its AWP and WR activities. Hydro anticipates the completion  
8 of all WR activities and full availability of generation sources by December 1, 2023, with the exception of  
9 Unit 2 at the Holyrood TGS, and the Stephenville GT. Unit 2’s return to service is delayed until March  
10 2024 due to the required replacement of the low pressure blades on the Unit 2 turbine; the Stephenville  
11 GT is not expected to return to service until mid- to late-January 2024 due to the current alternator  
12 cooling fan repair schedule. Hydro will continue to monitor progress and mitigate work execution risks.

13 The filing of the next 2023–2024 Winter Readiness Planning Report is scheduled for November 10, 2023.

# 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-Oct-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	3-Oct-2023
Thermal Generation	Holyrood – Boiler Condition Assessment and Miscellaneous Upgrades	17-Nov-2023
Thermal Generation	Holyrood – Overhaul Pumps	17-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 – 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	26-Oct-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 <sup>1</sup>	20-Oct-2023
Terminal Stations	Various Locations – Replace Disconnect Switches <sup>1</sup>	30-Oct-2023
Terminal Stations	Various Locations – Refurbishment and Modernization of Power Transformers <sup>2</sup>	30-Nov-2023
Terminal Stations	Various Locations – Upgrade Circuit Breakers	31-Aug-2024
Telecontrol	Various Locations – Replace 48 V Battery Banks and Chargers	Complete

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

<sup>2</sup> 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-Sep-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	S/U	S/U	S/U	N/A
Safety Valves Testing as Required (Post Start-Up)	S/U	S/U	S/U	N/A
Boiler Operational Offline High/Low Drum Level Trip Tests	S/U	S/U	S/U	N/A
Hydrogen ("H <sub>2</sub> ") Emergency Venting Valving	S/U	S/U	S/U	N/A
Breaker and Disconnect Operation Verified by Operations Department and Whitbourne Crew	S/U	S/U	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-Sep-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	S/U	S/U	S/U	N/A
Analytical Rack Sample Cooler Filters Cleaned/Replaced as Required	S/U	S/U	S/U	N/A
Analytical Rack Sample Coolers Cooling Water In Service	S/U	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

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-Sep-23

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	S/U	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	S/U	S/U	S/U	N/A
CW Pump Motors Oil Normal Operating Level	S/U	S/U	S/U	N/A
CW Pumps Operational	S/U	S/U	S/U	N/A
CW Pump Discharge Vacuum Breakers Operational	S/U	S/U	S/U	N/A
CW Travelling Screens Wash Pumps Operational	S/U	S/U	S/U	N/A
Condenser Flushed	S/U	S/U	S/U	N/A
Condenser Backwashed	S/U	S/U	S/U	N/A
General Service ("GS") Coolers Backwashed, Cleaned, etc.	S/U	S/U	S/U	N/A
Turbine/Generator ("TG") Coolers Backwashed, Cleaned, etc.	S/U	S/U	S/U	N/A
Vacuum Pump Coolers Backwashed, Cleaned, etc.	S/U	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	S/U	S/U	S/U	N/A

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

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

Y - Test completed.

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



Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

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

Y - Test completed.

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



**Holyrood Thermal Generating Station  
Winter Readiness Testing**

26-Sep-23

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

Miscellaneous				
Economizer 'Manual' Operated Valve Operational	S/U	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	S/U	S/U	S/U	N/A
HP Heater Bled Steam Check Valves Operational	S/U	S/U	S/U	N/A
Start-Up Desuperheater Steam and Water Valving Operation/Position Verified	S/U	S/U	S/U	N/A
Main Steam and Reheat Steam Desuperheater Spray Water Isolators and Control Valves Operational	S/U	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	S/U	S/U	S/U	N/A
Condensate Extraction Pump Motors Bearing Oil Normal Operating Level	S/U	S/U	S/U	N/A
Condensate Extraction Pump Motor Cooling Water Available (Unit 3)	N/A	N/A	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-Sep-23

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

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

LP Heaters				
Low Load Recirculation Control Valve Operation	S/U	S/U	S/U	N/A

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

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

Bled Steam and Heater Drains System				
LP and HP Instrumentation and Control Operational	S/U	S/U	S/U	N/A
LP and HP Heater Level Control Operational	S/U	S/U	S/U	N/A
LP Heater Condensate Drains Pumps Operational	S/U	S/U	S/U	N/A
#4 HP Heater Condensate Drains Pump Operational	S/U	S/U	S/U	N/A

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

Y - Test completed.

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





Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

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

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

Rotary Air Heaters	Unit 1	Unit 2	Unit 3	Balance of Plant
Rotary Air Heaters Operational	S/U	S/U	S/U	N/A
Rotary Air Heaters Bearing Oil (Top and Bottom) Normal Operating Level	S/U	S/U	S/U	N/A
Rotary Air Heaters Bearing Cooling Water On	S/U	S/U	S/U	N/A
Rotary Air Heaters Electric Motor Drives Operational	S/U	S/U	S/U	N/A
Rotary Air Heaters Air Supply to Air Heater Air Motor Drives Open	S/U	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	S/U	S/U	S/U	N/A
Rotary Air Heaters Steam Supply Control Valves Operational (*Note: Two Steam Supplies on Units 1 and 2)	S/U	S/U	S/U	N/A
Rotary Air Heaters Sootblowers Operational	S/U	S/U	S/U	N/A

Boiler Sootblowing System	Unit 1	Unit 2	Unit 3	Balance of Plant
Sootblower Control Panel Operational	S/U	S/U	S/U	N/A
Sootblowers Steam Supply Control Valve Operational	S/U	S/U	S/U	N/A
Sootblowers Overhauled During Annual Outage Verify Operation (e.g., Rotation, Travel Advancing/Retracting from Furnace, Leaks, etc.) First Time Unit is Placed Online	S/U	S/U	S/U	N/A

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

Y - Test completed.

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



Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

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

	Unit 1	Unit 2	Unit 3	Balance of Plant
<b>Fuel Oil Delivery System, Auxiliary Steam and Fuel Oil Piping System</b>				
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	S/U
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	S/U
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	S/U
Day Tank Available to Receive Oil	N/A	N/A	N/A	Y
Day Tank Steam Coil Available	N/A	N/A	N/A	Y

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

Y - Test completed.

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



**Holyrood Thermal Generating Station  
Winter Readiness Testing**

26-Sep-23

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

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

	Unit 1	Unit 2	Unit 3	Balance of Plant
<b>Fuel Oil Supply Control, Trip, Long and Short Recirculation Valves</b>				
Fuel Oil Supply Control Valve Operational	S/U	S/U	S/U	N/A
Fuel Oil Trip Valve Operational	S/U	S/U	S/U	N/A
Fuel Oil Long Recirculation Valve Operational (Units 1 and 2)	S/U	S/U	N/A	N/A
Fuel Oil Short Recirculation Valve Operational (Units 1 and 2)	S/U	S/U	N/A	N/A
Elevation Fuel Oil Trip Valves Operational (Unit 3)	N/A	N/A	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
<b>Burners</b>				
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)	S/U	S/U	N/A	N/A

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

Y - Test completed.

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



Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

Fuel Additive System	Unit 1	Unit 2	Unit 3	Balance of Plant
Adequate Supply Available	Y	Y	Y	N/A
Pumps Available	S/U	S/U	S/U	N/A
Tanks, Agitators, etc. Available	N/A	N/A	N/A	N/A

GS System	Unit 1	Unit 2	Unit 3	Balance of Plant
GS Heat Exchangers Backwashed, Cleaned, etc.	Y	Y	Y	N/A
Stage I GS Plate Cooler Strainers Cleaned	Y	Y	N/A	N/A
Stage I GS 'Auto-Clean' Strainer Operational	N/A	N/A	N/A	N/A
Stage I GS Duplex Strainers Cleaned	Y	Y	N/A	N/A
GS Pump Suction Strainers Cleaned	Y	Y	Y	N/A
GS Pump Oil Normal Operating Level	Y	Y	Y	N/A
GS Pumps Available and Tested for Standby 'Auto-Start'	S/U	S/U	S/U	N/A

TG Auxiliary Cooling System	Unit 1	Unit 2	Unit 3	Balance of Plant
TG Head Tank Normal Operating Level	S/U	S/U	S/U	N/A
Turbine Lube Oil Coolers Operational	S/U	S/U	S/U	N/A
TG Heat Exchangers Backwashed, Cleaned, etc.	Y	Y	Y	N/A
TG Pump Oil Normal Operating Level	Y	Y	Y	N/A
TG Pumps Available and Tested for Standby 'Auto-Start'	S/U	S/U	S/U	N/A

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

Y - Test completed.

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



Holyrood Thermal Generating Station  
 Winter Readiness Testing

26-Sep-23

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

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

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

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

Y - Test completed.

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



**Holyrood Thermal Generating Station  
Winter Readiness Testing**

26-Sep-23

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

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

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

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Y - Test completed.

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



Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

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

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

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

Y - Test completed.

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



Holyrood Thermal Generating Station  
Winter Readiness Testing

26-Sep-23

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

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

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

Y - Test completed.

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





**Holyrood Thermal Generating Station  
 Winter Readiness Testing**

26-Sep-23

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

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

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

<b>Plant Heating Steam</b>				
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.	✓	✓	4-Nov	4-Nov	✓	✓	N/A	N/A	✓
All Alternate Sources of Station Service Tested and Available	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓

<b>Spherical Valves</b>									
Turbine Main Stop Valve Annual PM Complete	✓	✓	29-Sep	6-Oct	✓	✓	N/A	N/A	N/A
Turbine Main Stop Valve Operational	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A

<b>Service Air and Instrument Air Systems Compressors</b>									
All Stationary Air Compressors Available	N/A	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	✓	✓	✓

<b>Turbine/Generator ("TG") Cooling Water Systems</b>									
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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shaft Seal System Available	27-Oct	3-Nov	✓	✓	✓	✓	✓	✓	✓
Cooling Water Strainers Inspected and Available	✓	✓	✓	✓	✓	✓	✓	✓	✓

<b>TG Governor System</b>									
Hydraulic System Accumulators Operational	✓	✓	✓	✓	✓	✓	✓	✓	✓
Governor System Annual PM Complete	27-Oct	3-Nov	✓	✓	✓	✓	✓	✓	✓
Governor System Available	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydraulic Pump(s) Available	✓	✓	✓	✓	✓	✓	✓	✓	✓

<b>Generator</b>									
Generator Exciter Operation Checked Offline and Online	27-Oct	3-Nov	✓	✓	✓	✓	✓	✓	✓
Generator Exciter Available	✓	✓	✓	✓	✓	✓	✓	✓	✓
Brush Condition Verified	27-Oct	3-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov

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	N/A
Oil Level System Generator Metering Available	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil Level System Turbine Metering Available	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alternating Current High Pressure Jacking Oil Pump Available Automatic	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓

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

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

Surge Tank									
Heating System	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	N/A	N/A	N/A
Alarm Systems	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-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		
<b>Emergency Diesel Generators</b>									
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	✓	✓
<b>Plant Air Conditioning System</b>									
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
<b>Plant Heating Steam</b>									
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	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	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	N/A
Emergency Cooling Water Available Penstock Supply	✓	N/A	N/A	N/A	N/A	30-Nov	N/A	✓	N/A	✓	N/A
Cooling Water System Available	✓	N/A	✓	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	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	30-Nov	N/A	✓	N/A	✓	N/A
Governor System Annual PM Complete	✓	N/A	N/A	17-Nov	N/A	30-Nov	N/A	✓	N/A	✓	N/A
Governor System Available	✓	N/A	✓	N/A	N/A	30-Nov	N/A	✓	N/A	✓	N/A
Hydraulic Pump(s) Available	✓	N/A	✓	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



<b>2023 Generation Outage Schedule<sup>1</sup></b>																				
Unit	Month	September				October				November				Scheduled Annual Maintenance Outages						
		Week Starting	3	10	17	24	1	8	15	22	29	5	12		19	26	3	10	17	24
Hollyrood - G1	170.0																			July 9 - October 7
Hollyrood - G2 <sup>2</sup>	170.0																			May 21 - September 23
Hollyrood - G3 <sup>3</sup>	150.0																			April 7 - October 18
Bay d'Espoir - G1	76.5																			October 8 - October 29
Bay d'Espoir - G2	76.5																			October 14 - October 27
Bay d'Espoir - G3	76.5																			
Bay d'Espoir - G4	76.5																			
Bay d'Espoir - G5	76.5																			
Bay d'Espoir - G6 <sup>4</sup>	76.5																			October 11 - October 16
Bay d'Espoir - G7	154.4																			June 11 - September 29
Upper Salmon <sup>5</sup>	84.0																			
Granite Canal	40.0																			
Hinds Lake	75.0																			October 29 - November 17
Cat Arm 1	67.0																			
Cat Arm 2	67.0																			
Paradise River	8.0																			
Hardwoods GT	50.0																			October 16 - October 20
Stephenville GT <sup>6</sup>	50.0																			
Hollyrood GT	123.5																			October 23 - November 3
Star Lake	18.0																			October 1 - November 10
Exploits	63.0																			
Corner Brook Pulp and Paper ("CBPP") CoGen	8.0																			
NLH Diesels <sup>7</sup>	24.7																			
Newfoundland Power	119.3																			
CBPP 60 Hz	99.1																			
Available Island Capacity	2,000.0	1,187.8	1,187.8	1,194.1	1,194.1	1,169.8	1,185.4	1,286.8	1,296.1	1,374.1	1,590.4	1,608.4	1,696.0	1,696.0	1,780.0	1,780.0	1,780.0	1,780.0	1,780.0	1,780.0
Muskat Falls Unit 1	206.0																			September 26 - October 24
Muskat Falls Unit 2	206.0																			
Muskat Falls Unit 3	206.0																			October 31 - November 28
Muskat Falls Unit 4	206.0																			
Happy Valley Gas Turbine	25																			September 18 - September 22
Labrador Island Link ("IL")	700.0																			
Maximum IL Contribution to Island Reserves at Peak <sup>8</sup>		15.0	15.0			227.0	238.0	249.0	261.0	271.0	282.0	292.0	314.0	-	399.0	399.0	399.0	399.0		
Forecasted Gross Island Peak Load		853.5	882.0	910.5	939.0	984.8	1,030.6	1,076.4	1,122.2	1,168.0	1,227.5	1,287.0	1,346.5	1,406.0	1,757.0	1,757.0	1,757.0	1,757.0		
Total Island Reserves <sup>9</sup>		349.3	320.8	283.6	255.1	412.0	392.8	459.4	434.9	477.1	754.9	723.4	773.5	400.0	532.0	532.0	532.0	532.0		
Largest Operating Unit		154.4	154.4	154.4	154.4	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0		
Island N-1 Reserves		194.9	166.4	129.2	100.7	206.0	186.8	253.4	228.9	271.1	548.9	517.4	567.5	245.6	326.0	326.0	326.0	326.0		

<sup>1</sup> Preventable maintenance items that require short duration outages are not reflected in this chart. They are planned in conjunction with system operation for an appropriate time.

<sup>2</sup> Hollyrood G2 will be on an unplanned outage for the remainder of 2023 due to cracks identified on the second to last stage blade. Return to service date potentially March 2024 timeframe.

<sup>3</sup> Hollyrood G3 will be operating in synchronous condenser mode from September 24 until October 12, 2023. Conversion to generation mode will take approximately five to seven days and Unit 3 is planned to be online in generation mode by October 18, 2023.

<sup>4</sup> Bay d'Espoir G6 was unavailable due to a transformer failure. Unit returned to service on October 7, 2023.

<sup>5</sup> Upper Salmon return to service date has been delayed until November 30, 2023.

<sup>6</sup> Stephenville GT is unavailable due to a damaged generator cooling fan. Return to service date unknown; potentially mid- to late-January 2024 timeframe.

<sup>7</sup> 24.7 MW includes Hawkes Bay (5 MW), HRD Diesels (10 MW), and St. Anthony (9.7 MW).

<sup>8</sup> IL contribution to Island Reserves at peak as measured at Soldier's Pond. Maximum IL contribution to Island Reserves at peak is a function of Island load, IL operating mode, number of available Muskrat Falls units and contractual Maritime Link exports.

<sup>9</sup> November and December Total Island Reserves include CBPP Assistance (90 MW) and System Voltage Reduction (20 MW).

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

# 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		
Ignitor Light Oil and Air Supply		Ignitor Control Box	Ignition Transformer				In Stock
Ignitor Light Oil and Air Supply		Ignitor Control Box	Ignition Transformer				In Stock
Unit 3 H.P. Feedwater System		Main Feed Water Control Valve	1 - 1J872906332 - Upper Wiper				In Stock
Circulating Water and Screen Wash System		Motor	Coils				In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer				In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer				In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer				In Stock
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Washer				In Stock
Generator	Stator	PT Cubicle	Potential Transformer (PT)				In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Intercept Control Valve Servos (scram)				In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Main Stop Valve Servos				In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Intercept Control Valve Servos				In Stock
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Main Control Valve Servos				In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" x 1" Valve				In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" Dia				In Stock
Raw and Makeup Water System & Water Treatment Plant	Deminerlization System	Instrumentation/Controls	Mixed Bed Valve - PCV4071	Non-Stock is OK since there are non critical uses for this TX which can be "borrowed)	VALVE,RELIEF 1/2" 110H SE VALVE,RELIEF 1/2" 110H SE VALVE,PRESS REGULATING		Non-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



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	Boiler Feed Recirculation Valve to DA	4" Valve		VALVE,GATE 4 CS BW 300#	In Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Governor	Fuel Line Block Valve	16" Gate Valve		VALVE,GATE 16" NEWCO	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Valve		VALVE,FLUID POWER PILOT	In Stock	
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Valve		VALVE,FISH F.O. TRIP	In Stock	
Units 1 & 2 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Flanged Valve		VALVE,FISH F.O. TRIP	In Stock	
Units 1 & 2 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	2" Flanged Valve		VALVE,FISH ATOM STEAM	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	Polisher Bypass Valve	Parts to Repair	Parts to Repair		VALVE,FISH 8560-1052-36105	In Stock	
L.P. Feedwater System	Polisher Bypass Valve	Valve	Valve	Non-Stock is OK since there are full rebuild items identified and stocked	VALVE,FISH 5080326PTBNN	Non-Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	CW Discharge Valves	Day Tank Fill Line Control Valve	6" Control Valve		VALVE,CONTROL 6" FISHER	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	Valve	36" Butterfly Valve		VALVE,BUTTERFLY 36"	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	Burners	Dock Quick Closing Valves	18" Butterfly Valve		VALVE,BTFY 18" 150#	In Stock	
Units 1 & 2 Fuel Oil System		Oil Valve	Oil Steam & Scavenge Valves - All Same		VALVE,BALL 3/4 C/W PNEU	In Stock	
Ignitor Light Oil and Air Supply	Vacuum Breakers	Ignitor Control Box	1/4" Light Oil Air Ball Valves		VALVE,BALL 1/4" U3 IGNITOR	In Stock	
Condenser Air Extraction System	Vacuum Breakers		6" Flanged		VALVE,AIR & VACUUM 6 FLG	In Stock	
Condenser Air Extraction System	Vacuum Breakers		6" Flange Vacuum Breaker		VALVE,AIR & VACUUM 6 FLG	In Stock	
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1-1/2" Valve		VALVE KIT JAMES RK85MT	In Stock	
Unit 3 Fuel Oil System	Burners	Oil Valve	1/2" Ball Valve		VALVE KIT JAMES RK85MT	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)	Valves	Valve		VALVE KIT,BALL 3	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)	Valves	Valve		VALVE KIT,BALL 2	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Valve Kit		VALVE KIT,BALL 2	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Recirculation Valves	Level Fuel Oil Recirculation Valves	3/4" Welded Valve w/ Actuator		VALVE ASSY,JAMES 1052 3/4"	In Stock	
Unit 3 Fuel Oil System	Level Fuel Oil Recirculation Valves	Main Fuel Oil Recirculation Valve	1" Welded Flange Valve w/ Actuator		VALVE ASSY,JAMES 1052 1"	In Stock	
Combustion Air & Gas Instruments	Burner Management	Positioner	2.5" x 5" Pneumatic PowerPositioner (Hagan)		VALVE ASSY,373218-001	In Stock	
Hydrogen Generation and Storage	Tubing	Tubing	Tubing		TUBING,SS 1" OD X.083 316	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Trunnion		TRUNNION,HITACHI	In Stock	
Units 1 & 2 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter		TRANSMITTER,PRESS 5-800	In Stock	
Unit 3 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter		TRANSMITTER,PRESS 5-800	In Stock	
Main Steam & Reheat Steam; Turbine Drains	Vacuum Trip Device		Pressure Transmitter - Unit 1		TRANSMITTER,PRESS-30-0"	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator		Pressure Transmitter - Unit 3		TRANSMITTER,PRESS 0-200	In Stock	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitter		TRANSMITTER,LEVEL	In Stock	
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter		TRANSMITTER,LEVEL	In Stock	



Critical Spares - Thermal Generation

Inventory Status

In Stock  
Non-Stock  
On Order

Explanation

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Quantity of '0' stock in warehouse, quantity of 1 or more on order or out for refurbishment.  
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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitter LP Heater #1		TRANSMITTER, LEVEL	In Stock	
Units 1 & 2 Air & Flue Gas	Furnace Pressure TX (Trip)	Pressure Transmitter	Pressure Transmitter		TRANSMITTER, DP -8000-8000KPA	In Stock	
Combustion Air & Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter		TRANSMITTER, DP 1 KPA TO 1 KPA	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	
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Level Transmitter		TRANSMITTER, DP 0-120" H2O	In Stock	
Generator	Stator	PT Cubicle	Potential Transformer (PT)		TRANSFORMER, GE 765X	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	
Unit 3 Air & Flue Gas	F.D. Fans	Series 8500 size 95 w/ 95" @ 100% width wheel	Thrust Plate		THRUST PLATE KIT, DODGE 132221	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Thermocouple		THERMOCOUPLE, U3 SYNCH COND	In Stock	
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	2 - Temperature Probes installed in Bearings		THERMOCOUPLE, TYPE T	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	TERMINATOR, 93 OHMS		TERMINATOR, 93 OHMS	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV Thermocouple Terminal Board		TERMINAL BOARD, THERMOCOUPLE	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV Terminal Board, Relay/Solenoid		TERMINAL BOARD, MKV RELAY	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV Terminal Board, Relay/Solenoid		TERMINAL BOARD, MKV RELAY	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, P-Core Terminal Board		TERMINAL BOARD, MKV P-CORE	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, C-Core Terminal Board		TERMINAL BOARD, MKV C-CORE	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, TERM BD @R-S-T TC		TERMINAL BOARD, MKV	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV Terminal Board, Digital I/O		TERMINAL BOARD, DIGITAL I/O	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Terminal Board, Digital I/O		TERMINAL BOARD, DIGITAL I/O	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Analog I/O Terminal Board		TERMINAL BOARD, ANALOG I/O	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Analog I/O Terminal Board		TERMINAL BOARD, ANALOG I/O	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, TERM BD (R-S-T) EXT		TERMINAL BOARD, (R-S-T) EXT	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	TERMI. BOARD (R-S-T)	DS200QTBAG1A is superseded by DS200QTBAG3A	TERMINAL BOARD, (R-S-T)	In Stock	
Station Board 5B34 (5T34)		Breaker TB12 Relays	Shares spare with MAVS devices - replaced by ABB SYN5201-0271		SYNCHROCONTACT, SYN5201	In Stock	



Critical Spares - Thermal Generation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			UB1-1 Relay	Shares spare with MAVS devices - replaced by ABB SYNS201-0271	SYNCHROCONTACT,SYNS201	In Stock	
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)			UB2-12 Relay	Shares spare with MAVS devices - replaced by ABB SYNS201-0271	SYNCHROCONTACT,SYNS201	In Stock	
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB SYNS201-0271	SYNCHROCONTACT,SYNS201	In Stock	
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Auto Start Pressure Switch		SWITCH,PRESS 10-300 TYPE ACW2	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switches	Switch		SWITCH,PRESS 0-150 PSI	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	Turbine Lube Oil System	Pressure Switch 1	Switch		SWITCH,PRESS 0-150 PSI	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Go Switch - Limit Switches		SWITCH,LIMIT GO LEVER	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve Limit Switch	Oil Tight Limit Switch		SWITCH,LIMIT AB 8021-B	In Stock	
L.P. Feedwater System	Dewaterator System	Level Control	Level Switch		SWITCH,LEVEL MOBREY	In Stock	
L.P. Feedwater System	Dewaterator System	Level Control	Level Switch		SWITCH ASSY,MAG 89-7401-052	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	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0282351	In Stock	
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Stud		STUD,DEW 0282336	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stud		STUD,DEW 0280514	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280513	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Stud		STUD,DEW 0280443	In Stock	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stop		STOP,HOP 8 VALVE 24930W	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Stem		STEM,MASON 770354-027-152	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Stem		STEM,MASON 358738-113-210	In Stock	
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Stem		STEM,HTT 10P06115877	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Stem		STEM,DEW 0040851	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Spring		SPRING,FISH 7580012X012	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spring		SPRING,DEW 6580312 (3/SET)	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Pin		SPLIT PIN,HITACHI	In Stock	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spindle	(Commissioning kit) Fuses, Resistors, Diodes, Relays	SPINDLE,HOP 44574-011	In Stock	
Turbine Generator System Stage 1	Governor	Turbine Control System	Resistors, Diodes, Relays		SPARE KIT,MKV	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Spacer		SPACER,DEW 0660065	In Stock	
Hydrogen Generation and Storage	Valves	Motorized Valves	1/2" Valve		SOLENOID,VALVE ASCO 8316	In Stock	
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Light Oil / Air Supply Solenoid Valve		SOLENOID,ASCO 8342C1	In Stock	
L.P. Feedwater System	L.P. Feedwater System	Level Control	Solenoid		SOLENOID,ASCO 8320G184M0	In Stock	
L.P. Feedwater System	L.P. Feedwater System (Water Induction Protection)	L.P. Heater Controls (Water Induction Protection)	Solenoid		SOLENOID,ASCO 8300 125 VDC	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	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	L.P. Heater Controls (Water Induction Protection)	Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	H.P. Heater Controls (Water Induction Protection)	Solenoid		SOLENOID,ASCO 8300 125 VDC	In Stock	
Ignitor Light Oil and Air Supply Generator	Ignitor Control Box	Ignitor Control Box	Purge Solenoid Valve		SOLENOID,ASCO 8262G232	In Stock	
	Controls	Controls	Snubber Bridge		SNUBBER,ABB UNS4681V12	In Stock	



Critical Spares - Thermal Generation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Sleeve		SLEEVE, RELIANCE 411629-6A	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Sleeve		SLEEVE, IRAND I75B135NX1B-204	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Sleeve		SLEEVE, HITACHI	In Stock	
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	Outboard Bearing Liner		SLEEVE, BEARING 6"	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Shoe Assembly		SHOE ASSY, KI-00166-A-3740	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Shoe		SHOE ASSY, BJ 631163-KD	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Shaft		SHAFT, IR 10 (TYPE 2 ERVH)	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Shaft		SHAFT, FISH 75B0014X012	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR, FLUID POWER	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Sensor		SENSOR, FLUID POWER	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Seat		SEAT, MASON 358748-000-596	In Stock	
Unit 3 Fuel Oil System	Unit 3 H.P. Feedwater System	Level Fuel Oil Trip Valves (β)	Seat		SEAT, FISH 1V71133072	In Stock	
Unit 3 Fuel Oil System	Unit 3 H.P. Feedwater System	Combustion Control Valves	Seat		SEAT, FISH LU222046172	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	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Turbine Lube Oil System	Electrical Trip Test Device	Seat Packing		SEAT PACKING, HITACHI	In Stock	
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEAL RING, 10P-067-551-18	In Stock	
L.P. Feedwater System	Turbine Lube Oil System	Shaft Driven Oil Pump	Seal Ring		SEAL RING, 10P-067-551-17	In Stock	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Seal Washers		SEAL S&K 75G0181V0050	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Seal Washers		SEAL S&K 75G0181V0020	In Stock	
Units 1 & 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	Seal		SEAL, MECHANICAL FUEL C324	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	Seal		SEAL, MASON 354810-034-779	In Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	Seal		SEAL, HOWDEN 68-01-615	In Stock	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	Seal		SEAL FISH 1H7441X0022	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Seal	Repair Parts stocked Ref CN12054568	SEAL, FISH 10M421S-X012	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Seal Ring		SEAL RING, 10P-038-197/14	In Stock	
Generator	Seal Oil System	Regulator	1.5" Regulating Valve		SEAL OIL REG KIT, RK	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Screw		SCREW, DEW 0440024	In Stock	
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	1500HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 1026842643, frame MGP500C, 1500HP, 4160Vac, 60Hz	Non-Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	2350HP Motor, 4160Vac	Motor stored off site via service contract	SCIM, sin# 1026842642, frame MGP450D, 2350HP, 4160Vac, 60Hz	Non-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)	Motor stored off site via service contract	SCIM, sin# 1026366788, frame MGP500B, 3000HP, 4160Vac, 60Hz	Non-Stock	
Ignitor Light Oil and Air Supply	Ignitor Control Box	Ignitor Control Box	Sunspot - Scanner		SCANNER, FOSSIL 9100-1000	In Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Roller Assembly		ROLLER, ASSEMBLY	In Stock	
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	Rivet		RIVET, HIT 10P-061-158-63	In Stock	
Generator	Synchronous Condenser	Thrust Bearing	Seal Ring		RING, SEAL U3 SYNCH COND	In Stock	





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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description		
Generator	Synchronous Condenser	Thrust Bearing	Seal Ring		RING, SEAL U3 SYNC COND	In Stock	
Fire Protection System	Electrical Driven Pump	Pump	Casing Ring		RING, PEERLESS CASING	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	Ring		RING, HIT 10P 067-551-17	In Stock	
L.P. Feedwater System	Turbine Lube Oil System	Control Valves	Ring		RING, HIT 10P 067-551-13	In Stock	
Units 1 & 2 H.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Main Feed Water Control Valve	1 - 27A2798X042 - Seat Ring, O-Ring		RING, FISH 758031X032	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 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 26A5299X052 - Seat Ring Retainer		RING, FISH 26A5299X052	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Boiler Feed	Ring		RING, FISH 26A5285X012	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Seat Ring		RING, FISH 2289344X012	In Stock	
Turbine Generator System Stage 2	Long Recirculation Valve	Long Recirculation Valve	Ring		RING, FISH 1U508039102	In Stock	
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Ring		RING, FISH 1U222835072	In Stock	
Units 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Ring		RING, FISH 1U222646172	In Stock	
Units 3 Fuel Oil System	Burners	Steam Valve	Ring		RING, FISH 1U222546172	In Stock	
Units 1 & 2 Fuel Oil System	Burners	Scavenge Valve	Ring		RING, FISH 1U222546172	In Stock	
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Ring		RING, FISH 1U222535072	In Stock	
Units 3 Fuel Oil System	Feed Water Flow Controls	Combustion Control Valves	Ring		RING, FISH 1U217305092	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Main Feed Water Control Valve	1 - 1.1873435072 - Packing Box Ring		RING, FISH 1.1873435072	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Dump Control Valve - Body	Ring		RING, FISH 17A33991X022	In Stock	
Units 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING, FISH 17A33990X022	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING, FISH 12A33529X012	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Ring		RING, FISH 11A3306X012	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	Ring		RING, FISH 10A5411X022	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref	RING, FISH 10A4219X012	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	Ring	Repair Parts stocked Ref	RING, FISH 10A4217X012	In Stock	
Units 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Ring		RING, FISH 10A4210X012	In Stock	
Units 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING, DEW 668215DEW	In Stock	
Units 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING, DEW 2004920	In Stock	
Units 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Ring		RING, DEW 0760093	In Stock	
Units 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Ring		RING, DEW 0760072	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING, BI 6364599-BG	On Order	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Ring		RING, BI 612987-EH	In Stock	
Units 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Ring		RING KIT, MASON 01148734399	In Stock	



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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description		
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Retainer			RETAINER,MASON 358754-000-163	In Stock
Unit 3 Fuel Oil System	Generator	Level Fuel Oil Trip Valves (3)	Retainer			RETAINER,FISH 1V710935072	In Stock
Turbine Generator System Stage 1	Governor	Exciter Control System	Resistor			RESISTOR,ABB EXCITER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RES,500HM,5%,40 WATT			RESISTOR,500HM	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR			RESISTOR,323A,2354P2	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	RESISTOR			RESISTOR,323A,2354P1	In Stock
Station Board SB34 (ST34)		Turbine Control System	RES 100 OHM 5% 40W			RESISTOR,100 OHM	In Stock
Station Board SB34 (ST34)			Breaker TB12 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	In Stock
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)			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)			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)			UB1-2 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	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 UB3 (UT3)			UT3 Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	In Stock
Unit Board UB3 (UT3)			Relays	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	In Stock
Station Board SB12 (SB11)			SSB-1 Relay	Replaced by ABB SPAU121C		RELAY,VOLTAGE ABB SPAU121C	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	
Combustion Air & Gas Instruments Unit Board UB1 (UB1-2)	Burner Management	Burner Automation	Master Fuel Trip Relays UB1-4 Relay	Shares spare with all other P&B Golds devices.	RELAY,SD 8501XUDO RELAY,RETRO. PBSJ3E5N11	In Stock 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 UB2 (UB2-1)			UB2-3 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-4 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-9 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)			UB2-10 Relay	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Shares spare with all other P&B Golds devices.	RELAY,RETRO. PBSJ3E5N11	In Stock	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Replaced by SEL701	RELAY,PROTECTION SEL701	In Stock	
Station Board SB34 (ST34)			Breaker PSM3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB1 (UB1-2)			UB1-5 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB1 (UB1-2)			UB1-6 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB1 (UB1-2)			UB1-7 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB1 (UB1-2)			UB1-8 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB1 (UB1-2)			UB1-10 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB2 (UB2-1)			UB2-5 Relay	Replaced by SEL701	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB2 (UB2-1)			UB2-6 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB2 (UB2-1)			UB2-7 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB2 (UB2-1)			UB2-8 Relay	Replaced by SEL701	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			BF3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			BFW3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			FD3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			FDW3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CEN3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CES3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CWE3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)			CWW3 Relay	n/a	RELAY,PROTECTION SEL701	In Stock	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	n/a	RELAY,PROTECTION SEL701	In Stock	



Critical Spares - Thermal Generation

**Inventory Status**

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**Explanation**

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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	L.P. Heater Controls (Water Induction Protection)		Relays		RELAY,PLUG-IN 12 PIN AC	In Stock	
L.P. Feedwater System	Deaerator System	Level Control	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 - All HP Heaters	Relay		RELAY,PLUG-IN 12 PIN AC	In Stock	
Station Board SB12 (S5B1)			SSB-3 Relay	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (S5B1)	Aux Transformer ATC - S5B3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (S5B1)	Aux Transformer ATC - S5B3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (S5B1)			SSB-4 Relay	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB12 (S5B1)			SSB-4 Relay	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker ST34 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker ST34 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker TB12 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker TB12 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker SAT34 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)			Breaker SAT34 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)	TB3 (The Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	
Station Board SB34 (ST34)	TB3 (The Breaker Between Station Board SB34 & Unit Board UB3)		TB3 Relays	Shares spare with CGE IACS1 and IACS3 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL 551C	In Stock	



Critical Spares - Thermal Generation

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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 UB1 (UB1-2)			UB1-3 Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB1 (UB1-2)			UB1-3 Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB2 (UB2-1)			UB2-2 relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB2 (UB2-1)			UB2-2 relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Relays	Shares spare with CGE IACS1 and ICA53 devices	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB2 (UB2-1)			Relays	Shares spare with CGE IACS1 and ICA53 devices	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB3 (UT3)			UT3 relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB3 (UT3)			UAT3 Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Station Board SB12 (SSB1)			SSB-3 Relay	Replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)	Relays	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C	RELAY,OVERCURRENT SEL551C	In Stock	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Relay		RELAY,OMRON MM4XP-DC125	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Relay		RELAY,OMRON MM4XP-DC125	In Stock	
Unit Board UB1 (UB1-2)			UB1-2 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RWM5-1	In Stock	



Critical Spares - Thermal Generation

Inventory Status

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Non-Stock

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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)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMS-1	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	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 UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMH-2	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMH-2	In Stock
Unit Board UB1 (UB1-2)			UB1-2 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-2	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	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 UB2 (UB2-1)			UB2-1 Relays	Shares spare with CGE HFA devices	RELAY,AUXILIARY RXMA-1	In Stock
Station Board SB12 (SSB1)			SSB-1 Relay	Replaced by ABB RXMA/RXMH	RELAY,AUXILIARY RXMA-1	In Stock
Combustion Air & Gas Instruments	Burner Management		Master Fuel Trip Relays		RELAY,AB TYPE P	In Stock
Turbine Generator System Stage 1	Turbine Control System		Relay		RELAY,12HGA11J52	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve		Regulator		REGULATOR KIT,FISH WR67AFRX011	In Stock
Powerhouse and Switchyard Single Line	Charger		Rectifier		RECTIFIER,AGENT 323-230	In Stock
Raw and Makeup Water System & Water Treatment Plant	Clarifier		Recirculator - Double Induction Speed Reducer - In Stock		RECIRCULATOR,STERLING 9A6108	In Stock
Unit 3 Fuel Oil System	Fuel Oil Pumps		Pump		PUMP,MAIN FUEL OIL KRAL	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Pumps		PUMP,IMO C324		PUMP,IMO C324 (COMPLETE)	In Stock
Turbine Generator System Stage 1	Hydraulic Fluid System		Pump		PUMP,HYD FLUID POWER UNIT	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System		Pump		PUMP,DC LUBE OIL	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed Pumps - Unit 1 E & W		Shaft Driven Oil Pump		PUMP,BI DWG C1F-238	In Stock
Raw and Makeup Water System & Water Treatment Plant	Cleanwell		Pump, single stage, 750GPM	Critical repair parts stocked for this pump. No need to stock the entire pump.	PUMP ASSY, KSB 6"	Non-Stock
Turbine Generator System Stage 1	Governor		Mark 5 System - Speed Probes		PROBE,SPEED,PICKUP	In Stock
Unit 3 Air & Flue Gas	O2 Analyzers		Probe		PROBE,OXYGEN ANALYZER	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe		PROBE,GUIDED WAVE RADAR 26"	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Conductivity Probe	Unit 1 & 2 - All HP Heaters	PROBE,CONDUCTIVITY	In Stock
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe		PROBE,CONDUCTIVITY	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Conductivity Probe	All HP Heaters	PROBE,CONDUCTIVITY	In Stock
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Module		PROBE,AQUARIAN	In Stock



Critical Spares - Thermal Generation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description		
Combustion Air & Gas Instruments Generator	Burner Management	Flame Scanners	24Vdc Scanner Power Supply		POWER SUPPLY,WIEDMULLER	In Stock	
Units 1 & 2 Air & Flue Gas	F.D. Fans	Exciter Control System	Power Supply		POWER SUPPLY,ABB	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Body	200A Power Cell		POSITIONER,FISH DVC6200	On Order	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Positioner		POSITIONER,FISH DVC6200	On Order	
Combustion Air & Gas Instruments	Burner Management	Elevation Air Dampers	Positioner		POSITIONER,FISH DVC6200	On Order	
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve -	Positioner		POSITIONER,FISH DVC6200	On Order	
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	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	Plug/Stem		PLUG/STEM,FISH 36A5366X062	In Stock	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	Plug/Stem		PLUG/STEM,FISH 36A5366X062	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Plug/Stem		PLUG/STEM,FISH 27A3965X052	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 Fuel Oil System	Short Recirculation Valve	Combustion Control Valves	Plug/Stem		PLUG/STEM,FISH 1V6571X0042	In Stock	
Units 1 & 2 Fuel Oil System	Burners	Short Recirculation Valve	Plug/Stem		PLUG/STEM,FISH 1U8350X0022	In Stock	
Unit 3 Fuel Oil System	Burners	Steam Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Scavenge Valve	Plug/Stem		PLUG/STEM,FISH 1U2161X0082	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	DA Recirculation Block Valve	Plug		PLUG,MASON 011509398-206-0000	In Stock	
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Plug/Stem		PLUG,FISH 27A3953X012	In Stock	
Unit 3 Fuel Oil System	Governor	Atomizing Steam Valve	Plug/Stem		PLUG ASSY FISH 1V6575X0052	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Plug/Stem		PLUG ASSY FISH 1V6575X0052	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Piston		PISTON RING,HITACHI	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Electrical Trip Test Device	Piston		PISTON RING,HITACHI	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	DA Recirculation Block Valve	Pin		PIN,MASON 971342-023-250	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-2228-125	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Pin		PIN,HIT 10P-061-2228/98	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	Control Valve - Upper	Pin		PIN,HIT 10P-061-226/98	In Stock	
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Control Valve - Upper	Pin		PIN,HIT 10P-061-L226/16	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Reheat/ICV Valves	Pin		PIN,HIT 10P06115872	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Pin		PIN,FISH G13725K0022	In Stock	
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Control Valves	Pin		PIN,FISH 79B1122X052	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Main Feed Water Control Valve - Unit 1	Pin		PIN,FISH 1V334035072	In Stock	
Generator	Synchronous Condensor	Control Valve - Upper	Pin		PIN,FISH 1V326035072	In Stock	
L.P. Feedwater System	L.P. Heaters	Thrust Bearing	Bearing Pad		PIN,10P-061-226-207	In Stock	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Packing		PAD,BEARING U3 SYNC COND	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 75G0100V0040	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 75G0100V0040	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 24"	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 16"	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	Packing		PACKING,S&K 12"	In Stock	



Critical Spares - Thermal Generation

Inventory Status

In Stock  
Non-Stock  
On Order

Explanation

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System		Asset		Critical Spare			Inventory Status
System	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Packing		PACKING,HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Packing		PACKING,HITACHI	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve	Packing		PACKING,GRAFOL_1IDX1-1/ZOD	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	
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	LL Control Valve	Packing		PACKING,FISH 1R290601012	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Packing		PACKING,FISH 12A8951X022	In Stock	
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Packing		PACKING,DEW 6442946	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Body	Packing		PACKING KIT,FISH RPACX00011	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Body	Packing Kit		PACKING KIT,FISH RPACX00011	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Packing		PACKING KIT,FISH RPACX00002	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Atomizing Steam Valve	Packing		PACKING KIT,FISH RPACX00002	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Packing		PACKING KIT,FISH RPACX00002	In Stock	
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Repair Kit		PACKING KIT,FISH RPACX00012	In Stock	
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Packing		PACKING KIT,FISH RPACX00012	In Stock	
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Packing		PACKING KIT,FISH RPACX00012	In Stock	
Unit 3 Fuel Oil System	Burners	Steam Valve	Packing		PACKING KIT,FISH RPACX00012	In Stock	
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Packing		PACKING KIT,FISH RPACX00012	In Stock	
L.P. Feedwater System	L.P. Heaters	NRV Valves	O-Rings		O-RING,S&K 7550144V0100	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	O-Rings		O-RING,S&K 7550144V0090	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,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	Turbine Lube Oil System	Shaft Driven Oil Pump	O-Ring		O-RING,HITACHI	In Stock	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve 1 - 13A5599X052 - O-Ring	O-Ring		O-RING,FISH 13A5599X052	In Stock	
Turbine Generator System Stage 1	Governor	Governor	O-Ring Kit		O-RING KIT,FLUID POWER	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Oil Seal		OIL SEAL,HITACHI	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,KEystone 903-735	In Stock	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Nut		NUT,HOP 35224-508	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	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW 2000006	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Nut		NUT,DEW #2003863	In Stock	
Fire Protection System	Electrical Driven Pump	Control Panel	Fire Pump Controller	Spare Controller on site in Warehouse	N/A	Non-Stock	
Generator	Exciter	Exciter Control System	Transformer	On Site	N/A	Non-Stock	
Generator	Exciter	Exciter Control System	Murr		MURR,ABB EXCITER	In Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Motor		MOTOR,HEATER 1/3HP (XL GEAR)	In Stock	
Condenser Air Extraction System	Mechanical Vacuum Pumps	Motor	Motor		MOTOR,ELECT 50HP 575V	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Motor	Motor		MOTOR,ELECT 20HP 575VAC	In Stock	





Critical Spares - Thermal Generation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Motor	Motor		MOTOR,DC LUBE OIL PUMP	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	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE,PROCESSOR FOXBORO	In Stock	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor		MODULE,PROCESSOR FOXBORO	In Stock	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules		MODULE,NETWORK INTERFACE	In Stock	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)	Burner Automation	Network Interface Modules		MODULE,NETWORK INTERFACE	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	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Modules		MODULE,AQUARIAN	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	
Generator	Exciter	Exciter Control System	Message Module		MODULE,ABB EXCITER	In Stock	
Ignitor Light Oil and Air Supply	Ignitor Light Oil and Air Supply	Ignitor Control Box	Snap Action Switch		MICROSWITCH,16CX12-D01	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Locking		LOCKRING,10P-06L-226-209	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	Locking		LOCKRING,10P-06L-226-208	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Liner		LINER,MASON 011509395-213-0000	In Stock	
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1 & 2 - Fans	Inboard Bearing Liner		LINER,BEARING 6"	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	Liner		LINER ASSY,DODGE 132423	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Key		KEY,IMPELLER,IR,11A9C37	In Stock	
Generator	Exciter	Exciter Control System	Input Coupling		INPUT COUPLING UNIT,ABB	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		IMPELLER,MAT PLA 27882-P	In Stock	
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Impeller		IMPELLER,IR 2RVH3DX1-813	In Stock	
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Valve Assembly / Oil Igniter		IGNITER,ASSEMBLY ALSTOM	In Stock	
Generator	Seal Oil System	Seals	See Parts List #U1&2 - 1 from Service Contractor		HYDROGEN SEAL RINGS,GE	In Stock	
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Tube Bundles	Annual inspection plus online Check. To be ordered as required.	HEATER,FUEL OIL STAGE 1	Non-Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Gearbox	Gearbox		GEARBOX,AIR HEATER U3	In Stock	
L.P. Feedwater System	Deaerator System	Deaerator	Gauge Glasses		GAUGE,GLASS,3/4X48	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	Gasket		GASKET,STL #16	In Stock	
L.P. Feedwater System	Deaerator System	NRV Valves	12"-150# Gasket Kit		GASKET,S&K 7450397V0010	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	



Critical Spares - Thermal Generation

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System	Asset		Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1&2 LP Heaters	Gasket		GASKET,S&K 6750064V0010	In Stock
Fire Protection System	Electrical Driven Pump	Pump	Casing Gasket		GASKET,PEERLESS CASING	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Gasket		GASKET,MASON 356154-152-825	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Gasket		GASKET,HOP-30037592	In Stock
Generator	Seal Oil System	Seals	Gaskets		GASKET,HITACHI	In Stock
Generator	Seal Oil System	Seals	Gaskets		GASKET,HITACHI	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	Gasket		GASKET,HIT 10P-038-197-16	In Stock
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets		GASKET,FUEL OIL HEATER	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
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	2 - 26A5314X012 - Gasket		GASKET,FISH 26A5314X012	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	Boiler Feed	Main Feedwater Low Load Control Valve	Gasket		GASKET,FISH 12B7100X082	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4155X012	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Gasket		GASKET,FISH 10A4154X012	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Gasket		GASKET,FISH 10A4154X012	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	2 - Independent Bearing Pedestals	Gasket		GASKET,DODGE 132170	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #2 LP Heater	20"Dia		GASKET,COVER HIT	In Stock
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	24" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #6 HP Heater	6" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #5 HP Heater	8" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #4 HP Heater	10" Dia		GASKET,COVER HIT	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Gaskets		GASKET,BWL T-101204IG	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Gasket		GASKET SET,FISH RGASKETX362	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Gasket Set		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Gasket		GASKET SET,FISH RGASKETX312	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Gasket		GASKET SET,FISH RGASKETX242	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Gasket		GASKET SET,FISH RGASKETX232	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock
Unit 3 Fuel Oil System	Deaerator System	Atomizing Steam Valve	Gasket		GASKET SET,FISH RGASKETX182	In Stock
L.P. Feedwater System	Generator	NRV Valves (2)	14" Dia on DA		GASKET COVER HIT	In Stock
Combustion Air & Gas Instruments	Stator	PT Cubicle	Fuse		FUSE,GE E10-1-C5881405G1	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
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Transmitter		FLOWMETER,PROMASS 83F40	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Element Assembly (Volute)	Rebuildable Item	ELEMENT ASSY,VOLUTE/ROTATING	On Order
Generator	Exciter	Exciter Control System	ECT Panel		ECT PANEL,LABB EXCITER	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Variable Inlet Vanes	Actuator Repair Kit		DRIVE KIT,BAILEY 532694C1	In Stock



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System	Asset		Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Unit 3 Air & Flue Gas	F.D. Fans	Variable Inlet Vanes	Actuator Repair Kit		DRIVE KIT, BAILEY 256111A0	In Stock
L.P. Feedwater System	Deaerator System	Safety Valves	Disc		DISC, VALVE SAFETY RELIEF	In Stock
L.P. Feedwater System	Control Valves	Control Valves	Disc		DISC, FISH 75B1036X102	In Stock
Unit 3 Fuel Oil System	Condensate Polishers (Units 1, 2, 3)	Level Fuel Oil Trip Valves (3)	Disc		DISC, FISH 1V711006242	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	Disc		DISC, DEW 051095	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	DIODE MOD, 1200V, 45A, SKKD46/12		DIODE, MOD 1200V	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Diaphragm		DIAPHRAGM, MASON 010275-040-77	In Stock
Turbine Generator System Stage 1	Turbine Lube Oil System	Oil Pressure Regulator	Diaphragm		DIAPHRAGM, GE 920B10612	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve, 1500lb - Welded		DIAPHRAGM, FISH 2R6376X00	In Stock
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 2R6376X0082 - Diaphragm		DIAPHRAGM, FISH 2R6376X00	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Actuator	Diaphragm		DIAPHRAGM, FISH 2N130902202	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Diaphragm		DIAPHRAGM, FISH 2N126902202	In Stock
Turbine Generator System Stage 1	Steam Seal Regulator	Main Steam Valve - Actuator	Diaphragm		DIAPHRAGM, FISH 2E859802202	In Stock
Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Diaphragm		DIAPHRAGM, FISH 2E859802202	In Stock
Turbine Generator System Stage 2	Stream Seal Regulator	Main Steam Control Valve - Actuator	Diaphragm		DIAPHRAGM, FISH 2E859602202	In Stock
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Diaphragm		DIAPHRAGM, FISH 2E670002202	In Stock
Unit 3 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	Diaphragm		DIAPHRAGM, FISH 2E670002202	In Stock
Unit 3 Fuel Oil System	Combustion Control Valves	Combustion Control Valves	Diaphragm		DIAPHRAGM, FISH 2E669902202	In Stock
Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Level Fuel Oil Trip Valves (3)	Diaphragm		DIAPHRAGM, FISH 2E669902202	In Stock
Unit 3 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Diaphragm		DIAPHRAGM, FISH 2E669902202	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper		To be ordered & stocked as required	DAMPER, STOCKBRIDGE 1.004"	Non-Stock
Unit 3 Air & Flue Gas	F.D. Fans	Outlet damper		To be ordered & stocked as required	DAMPER, STOCKBRIDGE 0.866"	Non-Stock
Generator	Exciter	Exciter Control System	Crowbar		CROWBAR, ABB EXCITER	In Stock
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	Crosshead		CROSSHEAD HIT 10P0612283	In Stock
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Cover		COVER, BI 308952-SA	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Falk Steelflex Coupling		COUPLING, STEELFLEX GRID	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Coupling		COUPLING, STEELFLEX 1-1/8 S-4	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Coupling		COUPLING, METASTREAM	In Stock
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	Coupling		COUPLING, BORE 3/4X5/8	In Stock
Generator	Exciter	Exciter Control System	Converter		CONVERTER, ABB EXCITER	In Stock
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Frequency Drive		CONTROLLER, SPEED CLARIFIER	In Stock
Generator	Exciter	Exciter Control System	Controller		CONTROLLER, ABB EXCITER	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	CPF MK5 CONTROL POWE		CONTROL, MK5 POWER	In Stock
Powerhouse and Switchyard Single Line	129V DC System	Charger	Control Unit		CONTROL UNIT, BATTERY CHG 129V	In Stock
Powerhouse and Switchyard Single Line	129V DC System	Charger	Control Unit		CONTROL UNIT, BATTERY CHG 129V	In Stock
Generator	Stator	Exciter Control System	Primary Contact for Generator P.T.		CONTACT ASSY, PT	In Stock
Generator	Exciter	Exciter Control System	Computer		COMPUTER, ABB EXCITER	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Fan Assembly	Collar		COLLAR, DODGE 132154	In Stock
Circulating Water and Screen Wash System	CW Pumps	Motor	Coils		COILS, STAGE 2 MOTOR	In Stock
Unit 3 Air & Flue Gas	F.D. Fans	Drive Motor	Formed Coils		COIL, WINDING U3 FD FAN	In Stock
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL, FLUID POWER	In Stock



Critical Spares - Thermal Generation

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	Sub-System	Asset	Defined Spare	Notes	Inventory Description	
Turbine Generator System Stage 1	Governor	Governor	Coil		COIL,FLUID POWER	In Stock
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Clip		CLIP,DEW 0540097	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger Cigentic	Charger	Individual replacement	CHARGER,BATTERY 250VDC	Non-Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Rotating Assembly		CASE ASSY,BWL (INNER)	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, (RST) Extended Analog I/O Card	New no longer available, reman only.	CARD,EXTENDED MKV (RST)	In Stock
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 81-112-2	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-111-1	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	Electronic Control Cards		CARD,CIGENTEC 81-107-2A	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
Generator	Exciter	Controls	Digital ArcNet		CARD,ABB UPC090	In Stock
Generator	Exciter	Controls	Converter		CARD,ABB UNS3670	In Stock
Generator	Exciter	Controls	Conduction Monitor		CARD,ABB UNS0673	In Stock
Generator	Exciter	Controls	Arc-Net Coupler		CARD,ABB UNS0672	In Stock
Generator	Exciter	Controls	Crowbar		CARD,ABB UNS0017AVAR1	In Stock
Generator	Exciter	Controls	I/O Connection		CARD,ABB UNCA674	In Stock
Generator	Exciter	Controls	Measuring Card		CARD,ABB UNCA673	In Stock
Generator	Exciter	Controls	Measuring Card		CARD,ABB UNCA672	In Stock
Generator	Exciter	Controls	Binary Input		CARD,ABB UFC092	In Stock
Generator	Exciter	Controls	Combined I/O		CARD,ABB UAC326	In Stock
Generator	Exciter	Controls	Power Supply		CARD,ABB KUC321	In Stock
Generator	Exciter	Controls	Control		CARD,ABB HIEE00900R001	In Stock
Generator	Exciter	Controls	Pulse Gen		CARD,ABB GDB021	In Stock
Generator	Exciter	Controls	Output Relay		CARD,ABB ARC093	In Stock
Generator	Exciter	Controls	Control Panel		CARD,ABB AFC094	In Stock
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Governor	Dock Capstan	Gear Box		CAPSTAN GEARBOX,SADI	In Stock
Turbine Generator System Stage 1	Feed Water Flow Controls	Turbine Control System	CAP-METALLIZED-MYLAR		CAP,METALLIZED-MYLAR	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
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 42B3570X012 - Cage, Eq%		CAGE,FISH 42B3570X012	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator	Steam Seal Regulator	Cage		CAGE,FISH 2U505939102	In Stock
Unit 3 Fuel Oil System	Long Recirculation Valve	Main Fuel Oil Trip Valve	Cage		CAGE,FISH 2U236033272	In Stock
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Cage	Repair Parts Stocked Ref ON116597	CAGE,FISH 2U231833272	In Stock
Unit 3 Fuel Oil System	Combustion Control Valve	Level Fuel Oil Trip Valves (3)	Cage		CAGE,FISH 2U227633272	In Stock
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Cage		CAGE,FISH 2U224033272	In Stock
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Atomizing Steam Valve	Cage		CAGE,FISH 2U223733272	In Stock
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Combustion Control Valves	Cage		CAGE,FISH 2U215333272	In Stock
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Cage		CAGE,FISH 2U215033272	In Stock
Unit 3 Fuel Oil System	Burners	Steam Valve	Cage		CAGE,FISH 2U215033272	In Stock



Critical Spares – Thermal Generation

Inventory Status

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Unit 3 Fuel Oil System	Burners	Scavenge Valve	Cage		CAGE,FISH 2U21.5033272	In Stock	
Turbine Generator System Stage 1	Steam Seal Regulator	Dump Control Valve - Body	Cage		CAGE,FISH 20A3245X092	In Stock	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Cage		CAGE ASSY,FISH 22A3525X022	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	Cable		CABLE SET, FLUID POWER	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Cable Set		CABLE SET, FLUID POWER	In Stock	
Turbine Generator System Stage 1	Governor	Governor	Truck V-Fast Cables		CABLE SET, FLUID POWER	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Mark 5 System - Cable Assemblies		CABLE ASSY,SERVO G.E.	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING, HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Bushing		BUSHING, HITACHI	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	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 10P0611582	In Stock	
Turbine Generator System Stage 2	Main Steam Chest Assembly	Reheat/ICV Valves	Bushing		BUSHING, HIT 10P06115814	In Stock	
Generator	Stator	Stand Off Insulators	Bushing		BUSHING, HIT 10P-038-197/18	In Stock	
Generator	Stator	Stand Off Insulators	Insulator Bushing		BUSHING, HIGH VOLTAGE HIT	In Stock	
Turbine Generator System Stage 1	Stream Seal Regulator	Stream Seal Regulator	Stand Off Insulator		BUSHING, HIGH VOLTAGE GE	In Stock	
Turbine Generator System Stage 2	Stream Seal Regulator	Stream Seal Regulator	Bushing		BUSHING, FISH 1E845714012	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	2" Valve	Bushing		BUSHING, FISH 1E845714012	In Stock	
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Main Fuel Oil Trip Valve	Bushing		BUSHING, FISH 1E845714012	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Combustion Control Valves	Bushing		BUSHING, FISH 1E682814012	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Bushing		BUSHING, FISH 1E682814012	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Header Pressure Control Valve	Bushing		BUSHING, FISH 1E682814012	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	Boiler Feed	Boiler Feed Pumps	Bushing		BUSHING, BML 3106181	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Throttle Bushing (2 req'd)		BUSHING, BML 3106181	In Stock	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Balance Bushing		BUSHING, BI 2165071G	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	Turbine Lube Oil System	Shaft Driven Oil Pump	Brush		BRUSH, HIT 10P 067-551-38	In Stock	
Generator	Stator	Stator and Brush Rigging Assembly	Brush		BRUSH, GENERATOR U3	In Stock	
Generator	Stator	Stator and Brush Rigging Assembly	Brush		BRUSH, GENERATOR U1 & U2	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Boiler Area MCC BAB3 - Breaker SDB-34		BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Breaker SDB-34		BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	AC34		BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	CWP34		BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	LDP34		BREAKER, SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WTP34		BREAKER, SCHNEIDER 600V	In Stock	



Critical Spares - Thermal Generation

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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 DB34 - Breaker DB34	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Diesel Bus - D2	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Diesel Bus - DBT	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock	
Unit Aux 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 Aux 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 Aux 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 Aux 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 Aux 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 Aux UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	ACL2	Shares spare re-build kit/critical spares kit with other FP breakers.	BREAKER,SCHNEIDER 600V	In Stock	
Unit Aux 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	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - Breaker SAB34	Purchasing re-build kit/critical spares kit for 65H frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Feeder to Station Board - Breaker ATB12	Purchasing re-build kit/critical spares kit for 50H-2 frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	WAM34	Purchasing re-build kit/critical spares kit for 50H-3 frame breaker	BREAKER,SCHNEIDER 600V	In Stock	
Generator	Exciter	Controls	Breaker		BREAKER,FIELD ABB E3/SE	In Stock	
Generator	Exciter	Exciter Control System	Field Breaker		BREAKER,FIELD ABB E2/E	In Stock	
Station Board SB12 (S5B1)	Aux Transformer ATC - S5B3	Power Center C SAB12 (C1)	Feeder to MCC E1 - Breaker C4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (S5B1)	Aux Transformer ATC - S5B3	Power Center C SAB12 (C1)	Feeder to MCC C12 - Breaker C7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (S5B1)	Aux Transformer ATC - S5B3	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 (S5B1)	Aux Transformer ATC - S5B3	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 (S5B1)	Aux Transformer ATC - S5B3	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	



Critical Spares - Thermal Generation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Station Board SB12 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	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 (SB81)	Aux Transformer ATC - SB83	Power Center C SAB12 (C1)	Feeder to MCC - Breaker C18	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock	
Station Board SB12 (SB81)	Aux Transformer ATC - SB83	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	
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	



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	Sub-System	Asset	Defined Spare	Notes	Inventory Description			
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Feeder to MCC A1 - Breaker A4	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A5	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A6	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	A7	Shares spare re-build kit/critical spares kit with other CGE AK breakers.	BREAKER,EATON 600V	In Stock		
Unit Board 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		
Station Board SB12 (SB1)	Aux Transformer ATC - SB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)	Feeder to Power Centre - Breaker C1	Purchasing re-build kit/critical spares kit for AK-1-50 frame breaker	BREAKER,EATON 600V	In Stock		
Station Board SB12 (SB1)	Aux Transformer ATC - SB3	Power Center C SAB12 (C1)	Feeder to MCC C1 - Breaker C2	Purchasing re-build kit/critical spares kit for AK-2-25 frame breaker	BREAKER,EATON 600V	In Stock		
Station Board SB12 (SB1)	Aux Transformer ATC - SB3	Power Center C SAB12 (C1)	Feeder to transformer ATC - Breaker SSB-3	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A	BREAKER,EATON 4:160V 2000A	In Stock		





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			Defined Spare	Notes	Inventory Description	
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)		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	
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	
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	
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 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 UB3 (UB3)		Feeder to Unit Board - Breaker UB3	Shares spare with Feeder to Station Board - breaker SSB-1.	BREAKER, EATON 4160V 2000A	In Stock	
Station Board SB12 (SB81)		Feeder to Station Board - breaker SSB-1 & Relays	Direct replacement breaker 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	
Unit Board UB1 (UB1-2)		Feeder to Transformer ATA - Breaker UB1-3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)		Breaker UB1-4	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)		Breaker UB1-5	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	
Unit Board UB1 (UB1-2)		Breaker UB1-6	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock	



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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 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 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	
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	



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 UB3 (UT3)			Feeder to Transformer UAT3 - Breaker UAT3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			BFW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			FDW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CEN3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CES3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWE3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Unit Board UB3 (UT3)			CWW3	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	In Stock
Station Board SB34 (ST34)			Feeder to Transformer SAT34 - Breaker SAT34 & Relays	Direct replacement breaker 5HK-VR-250-1200A	BREAKER, EATON 4160V 1200A	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	258V DC System	Panel	400A DC Breaker		BREAKER, DC KD2400F 400A	In Stock
Powerhouse and Switchyard Single Line	258V DC System	Charger	400A DC Breaker		BREAKER, DC KD2400F 400A	In Stock
Powerhouse and Switchyard Single Line	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	258V DC System	Panel	40A DC Breaker		BREAKER, DC HFD2040 40A	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	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
Ignitor Light Oil and Air Supply		Ignitor Control Box	Relay		BOX,IGNITOR C/W CABLES N-6	In Stock



Critical Spares - Thermal Generation

**Inventory Status**

In Stock  
Non-Stock  
On Order

**Explanation**

Stock quantity of '1' or more in warehouse inventory.  
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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 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Body			BODY,VALVE MASON 37-79264	In Stock
Turbine Generator System Stage 2	Steam Seal Regulator		Aux Steam Control Valve - Body - Unit 3			BODY,VALVE FISH 3N192029022	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Turbine Trip Card		New no longer available, reman only	BOARD,GE DS200TCTSG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Relay Output Card			BOARD,GE DS200TCRAG1A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, BOARD-(RST) OVERFLOW		New no longer available, reman only	BOARD,GE DS200TCQCG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Analog I/O Card			BOARD,GE DS200TCQAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DC INPUT PWR SUPPLY		New no longer available, reman only, Has age sensitive components	BOARD,GE DS200TCPGSG1A	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	PDM, Switch & Fuse Card			BOARD,GE DS200TCPDGG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, COMM. CIRCUITS FOR T		Has age sensitive components	BOARD,GE DS200TCFEG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Emergency Overspeed Card		New no longer available, reman only, Has age sensitive components	BOARD,GE DS200TCEAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, DIG. I/O BD. CONF. C			BOARD,GE DS200TCDAH1B/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, Common Analog Card		New no longer available, reman only	BOARD,GE DS200TCCAG1B	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	MKV, LAN Comm Interface Card			BOARD,GE DS200SLCC G3A/PS	In Stock
Turbine Generator System Stage 1	Governor	Turbine Control System	Main Control Card		New no longer available, reman only	BOARD,GE DS200SDCCG4A	In Stock
Generator	Exciter	Exciter Control System	Firing Board			BOARD,ABB EXCITER	In Stock
Generator	Exciter	Exciter Control System	I/O Board			BOARD,ABB COMBINED I/O	In Stock
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	Belt			BELT ASSY,HOP 44511-001	In Stock
Generator	Seal Oil System	Seals	Belows			BELLOWS,HITACHI	In Stock
Main Steam & Reheat Steam; Turbine Drains	Vacuum Unloading Device		Belows			BELOW ASSY,HIT L1000-1	In Stock
Generator	Synchronous Condenser	Thrust Bearing	Thrust Bearing			BEARING,THRUST U3 SYNC COND	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	Thrust Bearing	Thrust Bearing			BEARING,THRUST U3 SYNC COND	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	Auxiliary Oil Pump	Bearing			BEARING,PLANE HIT ITEM 36	In Stock
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Bearing		Parts common to AC Pump	BEARING,PLANE HIT ITEM 35	In Stock
Fire Protection System	Electrical Driven Pump	Auxiliary Oil Pump	Bearing			BEARING,PLANE HIT ITEM 35	In Stock
Fire Protection System	Electrical Driven Pump	Electrical Driven Pump	Outboard Bearing			BEARING,PEERLESS OUTBOARD	In Stock
L.P. Feedwater System	Condensate Extraction Pumps	Pump	Inboard Bearing			BEARING,PEERLESS INBOARD	In Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		Mechanical Engineer to contact	BEARING,JOURNAL MP 215878E	Non-Stock
Turbine Generator System Stage 2	Governor	Governor	Bearing		Flowserve for bearing spec.	BEARING,HITACHI LOAD LIMIT	In Stock
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Bearing			BEARING,HITACHI LOAD LIMIT	In Stock
			Bearing			BEARING,HIT 9-60-2	In Stock



Critical Spares - Thermal Generation

Inventory Status

In Stock  
Non-Stock  
On Order

Explanation

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System	Asset			Critical Spare			Inventory Status
	Sub-System	Asset	Defined Spare	Notes	Inventory Description	Inventory Status	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Bearing		BEARING,HIT 9-60-1	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	Bearing		BEARING,FISH 75B1076X012	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In Stock	
Turbine Generator System Stage 2	Governor	Governor	Bearing		BEARING,BALL HITACHI	In 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	F.D. Fans	Unit 1& 2 - Fans	Bearing Set		BEARING SET,SLEEVE 6"	In Stock	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Thrust Bearing		BEARING ASSY,THRUST JHJ-5	In Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set		BASKET SET,HOT END 22-1/2	Non-Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set		BASKET SET,AIR HEATER U1	Non-Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set		BASKET SET,AIR HEATER 22-1/2"	Non-Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	Basket Set		BASKET SET,AIR HEATER 21-1/2"	Non-Stock	
Ignitor Light Oil and Air Supply	Light Oil	Ignitor Control Box	Sunspot		BASE,AMPLIFIER & TERMINAL	In Stock	
Unit 3 Air & Flue Gas	Oz Analyzers	Analysers	Analysers		ANALYZER,ROSE 3000 OXY	In Stock	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Sodium Monitor		ANALYZER,ORION 2111LLEN	In Stock	
L.P. Feedwater System	Ammonia System		Bulk Chemical		AMMONIUM HYDROXIDE,20%,TOTE	In Stock	
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	Air Motor		AIR MOTOR,ING RAND	In Stock	
Unit 3 Air & Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor		AIR MOTOR,ING RAND	In Stock	
Ignitor Light Oil and Air Supply		Ignitor Control Box	Pneumatic Actuator		ACTUATOR,PNEU R116C	In Stock	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping			Actuator		ACTUATOR,PNEU 1-BSW-5-LT	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Day Tank Trip Valve	Actuator		ACTUATOR,BETTS CB520	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator		ACTUATOR KIT,WORCH D-38	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, 3)	Control Valves	Actuator		ACTUATOR KIT,WORCH C-38	In Stock	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	Actuator		ACTUATOR KIT,WORCH C-38	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	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	Repair Kit - Unit 3		ACTUATOR KIT,FISHER R667	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	Main Steam Valve - Actuator	Repair Kit		ACTUATOR KIT,FISH R667X000502	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Main Steam Control Valve - Actuator	Actuator Repair Kit		ACTUATOR KIT,FISH R667X000502	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Main Fuel Oil Trip Valve	Actuator		ACTUATOR KIT,FISH R667X000502	In Stock	
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Level Fuel Oil Trip Valves (3)	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock	
Unit 3 Fuel Oil System	Unit 3 Fuel Oil System	Header Pressure Control Valve	Repair Kit		ACTUATOR KIT,FISH R667X000402	In Stock	
Turbine Generator System Stage 2	Steam Seal Regulator	Auxiliary Steam Control Valve - actuator	Aux Steam Control Valve - Actuator- Unit 3		ACTUATOR KIT,FISH R470X000032	In Stock	
Circulating Water and Screen Wash System		CW Discharge Valves	Butterfly Valve		ACTUATOR ASSY,ROTORK	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	
Circulating Water and Screen Wash System	CW Discharge Valves	Actuator	CW Butterfly Valve Actuator		ACTUATOR ASSY, ROTORK	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	In Stock	Medium	N/A	
LOW VOLTAGE DC POWER INPUT MODULE (PIM), BENTLY NEVADA:133300-01				
MANUAL, POWER SUPPLY MODULE	In Stock	Medium	N/A	
POWER SUPPLY MODULE, MANUAL, BENTLY NEVADA:129767-01				
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				
PUMP, CONVERTER CHARGING	In Stock	Low	N/A	
TORQUE CONVERTER CHARGING PUMP, KOENIG:X216228-J				
REPAIR KIT, SSS CLUTCH MINOR	In Stock	Medium	N/A	
KOENIG:SL17998MINKT				
VALVE, CHECK 3"	In Stock	Medium	N/A	
3MB60-6047-WR				
VALVE, SS POPPET CHECK	In Stock	Medium	N/A	
SS POPPET CHECK VALVE, SWAGELOCK:SS-6C-1				
VALVE, FUEL CHECK	In Stock	Low	N/A	
FUEL LINE CHECK VALVE, PARKER:10A-CBG8L-10-PF-SS, VOGT:SW9871T,				
VALVE, CHECK	In Stock	High	N/A	
CHECK VALVE, SUN HYDRAULICS:CXDA-XAN				
VALVE, SOLENOID	In Stock	Low	N/A	
SOLENOID VALVE, SUN HYDRAULICS:DIDA-MCN				
VALVE, FUEL BYPASS	In Stock	Low	N/A	
MANUFACTURER:FISHER, MODEL:1008 HANDWHEEL ACTUATOR W/LOCKING MECHANISM, SIZE 40, TRAVEL LENGTH:3/4", CAPABLE OF GIVING PRECISE MANUAL - THROTTLING CONTROL, TRAVEL INDICATOR MOUNTED ON ACTUATOR - YOKE FOR VISUAL VALVE				
PLUG POSITION	In Stock	High	N/A	
REPAIR KIT, BYPASS VALVE				
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				
VALVE, PUMP DISCHARGE	In Stock	High	N/A	
PUMP DISCHARGE PRESSURE REGULATING VALVE, MOOG/FISHER:ET-657-DVC-6200, SERIAL # F000642304, TYPE:ET CAV 111, SIZE 1-1/2, PORT SIZE:1-5/16, RATING:CL600/1500 PSI CWP, PLUG:SST, STEM:SST, BODY:STL, SEAT:SST				
VALVE, PRESSURE RELIEF	In Stock	Low	N/A	
HYDRAULIC FLUID PRESS RELIEF VALVE, REXROTH:R900341066				
PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900420276	In Stock	Low	N/A	
VALVE MANIFOLD PRESSURE RELIEF VALVE, REXROTH:R900423723	In Stock	Low	N/A	
MAIN PUMP DISCHARGE - PRESSURE RELIEF VALVE, REXROTH:R900424147	In Stock	Low	N/A	
PRESSURE CONTROL VALVE, SUN HYDRAULICS:RDBA-LAN	In Stock	Low	N/A	
SOLENOID VALVE, TYCO:52-287-10-024	In Stock	Low	N/A	
AIR CONTROL SOLENOID VALVE, 24VDC MINI, INGERSOLL RAND 633658	In Stock	Low	N/A	
VALVE, STOP	In Stock	Low	N/A	
FISHER 3", 560lit:TH66 QS1600-4 DXP-L21GNB				
FILTER, WATER - CLARK RELIANCE 2500PW	In Stock	Low	N/A	
INST AIR DEW POINT ANALYZER, MICHELL INSTRUMENTS:EA-XP-TX-EX1-C1-D1-E2-F1-G1-H1	In Stock	Medium	N/A	
ACTUATOR, TYPE PNEUMATIC RACK & PINION, FLOWSERVE:20E395WZ24D	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  
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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:30515FC1CS030N065-T33EA1A5Q4E6M5	In Stock	Medium	N/A	
LIQUID FUEL TEMPERATURE TRANSMITTER, ROSEMOUNT 644HAK6M5Q416	In Stock	Medium	N/A	
PUMP SUPPLY PRESSURE SWITCH, CCS 646GZEM1	In Stock	Medium	N/A	
PUMP DISCHARGE PRESSURE TRANSMITTER, ROSEMOUNT 3051CG5A22A1AS5B4C6M5Q4	In Stock	Medium	N/A	
PNEUMATICALLY ACTUATED THROTTLE VALVE, FISHER ET-677-DVC-6200	In Stock	Medium	N/A	



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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:5402AH1E64SPVDAM1CLIS3	On Order	Medium	Mid-Oct-23	
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/FU1/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, GEMIX:XT-800	In Stock	Low	N/A	
HYD FLUID RESERVOIR LEVEL INDICATOR, REXROTH:CS3615-244910	In Stock	Low	N/A	
HYD FLUID HEADER SUPPLY - PRESSURE TRANSMITTER, ROSEMOUNT: 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 3XTC(K), INSTALLATION LENGTH 375MM, HAN 8D	In Stock	High	N/A	
FUEL OIL UNLOADING FLOW LIQUID TURBINE FLOWMETER, HOFFER FLOW CONTROLS: HO SERIES/6X6-75-1250-CB-1M/XE2-F1CS-EXP	In Stock	Medium	N/A	
HYDRAULIC FLUID PUMP #1 - DISCHARGE PRESSURE INDICATOR, REXROTH:2-1/2/1500PUA31-10A-4 JIC	In Stock	Low	N/A	
HYDRAULIC FLUID CONDITIONING LOOP - FILTER DIFFERENTIAL PRESSURE SWITCH, PALL:RC0113CZ090H	In Stock	Low	N/A	



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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	Low	N/A	
LP COMPRESSOR BLEED VALVE SOLENOID, ASCO:JKC8316G034V	In Stock	Medium	N/A	
COMPRESSOR BLADE PATH THERMOCOUPLE, DUPLEX TYPE K	In Stock	High	N/A	
STARTING PACKAGE TORQUE CONVERTER PRESSURE GAUGE, KOENIG:BAC-160-25	In Stock	Low	N/A	
CAPSUHELIC GUAGE 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	Medium	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	Low	N/A	
-40F AND -100F, INGERSOLL RAND P/N 23182603	In Stock	Medium	N/A	
TRUCK UPLOADING GROUND VERIFICATION MONITOR, 8030-120 GROUND VERIFICATION MONITOR, CIVACON	In Stock	Low	N/A	
MOTOR, FLAP ACTUATOR	In Stock	Low	N/A	
JOHNSON CONTROLS, JCI M9132-GGA-1	In Stock	Low	N/A	
BRUSH, CARBON MOTOR	In Stock	Medium	N/A	
1 SET = 2 PIECES, ABB: GPFX052143P0098	In Stock	Medium	N/A	
GENERATOR JACKING OIL - SOLENOID VALVE, SUN HYDRAULICS:DIDA-MCN	In Stock	Medium	N/A	
MOTOR, 10 HP DC TURNING GEAR	In Stock	High	N/A	
KOENIG: D66711A	In Stock	High	N/A	
MOTOR, BALDOR	In Stock	Medium	N/A	
BALDOR:VEM3770T NEMA	In Stock	Medium	N/A	
TURNING GEAR MOTOR BRUSH SET, 419904-51AC	In Stock	Low	N/A	
COUPLING, PUMP/MOTOR	In Stock	Low	N/A	
SIZE 1040T20, FLEXIBLE GRID TYPE, VERTICAL ORIENTATION, MANUFACTURER:FALK	In Stock	Low	N/A	
RELAY, DPDT 120VAC	In Stock	Medium	N/A	
RCR8002.120AC	In Stock	Medium	N/A	
RELAY, TPDT 120VAC	In Stock	Medium	N/A	
RCP1103.120AC	In Stock	Medium	N/A	
CUT-OUT, AUTO	In Stock	Low	N/A	
AUTO CUT-OUT, CHROMOLOX:168-053169-105	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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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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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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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	Medium	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/12DO/4AI/4AO,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	In Stock	Low	N/A	
SEAL MECHANICAL FOR RO PUMP: 9644664	In Stock	Low	N/A	
FLOW SENSOR TURBINE W/ CABLE - VARIOUS SKIDS: CW237	In Stock	Low	N/A	
BLUEWHITE CHEMICAL INJECTION PUMP: A1N00F-4T	In Stock	Low	N/A	
SOFT STARTER FOR RO: 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	In Stock	Medium	N/A	
PERMEATE PUMP SKID: W5EA9-PERM				



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 September 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 September 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 September 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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

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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





Critical Spares Stock Status

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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



Critical Spares Stock Status

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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



Critical Spares Stock Status

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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



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



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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

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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 321.27516	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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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 September 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

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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 September 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 September 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

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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
HLK - Accumulator tank Solland Valve	In Stock		N/A	N/A
HLK - ADAPTER,REMOTE I/O	In Stock		N/A	N/A
HLK - Ampmeter	In Stock		N/A	N/A
HLK - AUTO AIR CHARGING SOLND.	In Stock		N/A	N/A
HLK - BACKPLANE,10 SLOT MODICON	In Stock		N/A	N/A
HLK - BEARING KIT,	In Stock		N/A	N/A
HLK - BOARD,FIRING ES	In Stock		N/A	N/A
HLK - BREAKER,100 AMP 600 VOLT	In Stock		N/A	N/A
HLK - BREAKER,150A 600V	In Stock		N/A	N/A
HLK - BREAKER,225A 600V 3P	In Stock		N/A	N/A
HLK - BREAKER,600 VOLT 3 PHASE	In Stock		N/A	N/A
HLK - BRIDGE,THYRISTOR EG	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card battery charger	In Stock		N/A	N/A
HLK - Card gate pulse	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Anti-pump relay	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Charging motor	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Motor brush kit	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Primary disconnect	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Shunt trip coil	In Stock		N/A	N/A
HLK - CIRCUIT BREAKER - Spring release coil	In Stock		N/A	N/A
HLK - COIL-AUTO AIR CHARGING SOLND.	In Stock		N/A	N/A
HLK - CONTACT,AUX GE	In Stock		N/A	N/A



Critical Spares Stock Status

Critical Spare Component	Stock Status	Comments	Status Update September 2023	Expected Delivery Date
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





Critical Spares Stock Status

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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



Critical Spares Stock Status

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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



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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, COMP AIR E05519	In Stock		N/A	N/A
USL - BEARING, COMP AIR 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 COMP AIR 3VX850	In Stock		N/A	N/A
USL - BELT, DRIVE COMP AIR 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, COMP AIR E05516	In Stock		N/A	N/A
USL - GASKET, COMP AIR E05516	In Stock		N/A	N/A
USL - GASKET, COMP AIR J201671	In Stock		N/A	N/A
USL - GASKET, COMP AIR 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



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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, 22' LENGTH	In Stock		N/A	N/A
USL - SEAL, C/W 2 CORNERS	In Stock		N/A	N/A
USL - SEAL, 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
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