

February 16, 2015

The Board of Commissioners of Public Utilities  
Prince Charles Building  
120 Torbay Road, P.O. Box 21040  
St. John's, Newfoundland & Labrador  
A1A 5B2

**Attention: Ms. Cheryl Blundon**  
**Director Corporate Services & Board Secretary**

Dear Ms. Blundon:

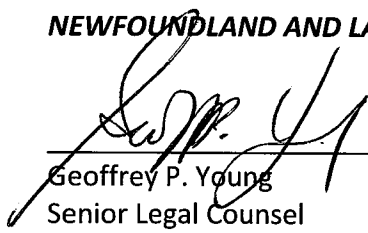
**Re: Newfoundland and Labrador Hydro - The Board's Investigation and Hearing into  
Supply Issues and Power Outages on the Island Interconnected System – Final Status  
Update on Critical Spares**

Further to Hydro's letter of January 15, 2015, and consistent with the recommendation made by Liberty Consulting in their Phase 1 Report, please find attached the original plus 12 copies of Hydro's update on the final status of its program for critical spares.

We trust the foregoing is satisfactory. If you have any questions or comments, please contact the undersigned.

Yours truly,

**NEWFOUNDLAND AND LABRADOR HYDRO**

  
\_\_\_\_\_  
Geoffrey P. Young  
Senior Legal Counsel

GPY/jc

cc: Gerard Hayes – Newfoundland Power  
Paul Coxworthy – Stewart McKelvey Stirling Scales  
Sheryl Nisenbaum – Praxair Canada Inc.  
ecc: Roberta Frampton Benefiel – Grand Riverkeeper Labrador

Thomas Johnson – Consumer Advocate  
Thomas O' Reilly – Cox & Palmer  
Danny Dumaresque

*Investigation and Hearing into Supply Issues and Power Outages on the  
Island Interconnected System*

**A Report to the Board of Commissioners of Public Utilities  
Regarding the Final Status of Hydro's Program  
For Critical Spares**

Newfoundland and Labrador Hydro

February 16, 2015



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1 **1.0 INTRODUCTION**

2 In its June 16, 2014 *Generation Availability Report* to the Board of Commissioners of Public  
3 Utilities (the “Board”), Newfoundland and Labrador Hydro (“Hydro” or the “Company”)  
4 indicated its critical spares program for the three major areas of its generation operations:  
5 Holyrood; Combustion Turbines; and Hydraulic Generation. Monthly status updates were  
6 subsequently provided to the Board over the August to November timeframe, and a further  
7 update was provided in a *Generation Availability Report* filed with the Board on December 1,  
8 2014. A supplementary update provided to the Board on December 9, 2014 reviewed the  
9 winter readiness status of Hydro’s generation assets from a critical spares perspective.

10 In their Phase I Report (the “Report”) submitted to the Board on December 17, 2014 Liberty  
11 Consulting (“Liberty”) recommended that Hydro report to the Board by February 15, 2015  
12 the final status of the program for critical spares; its results versus expectations of the  
13 master plan; a listing of spares to be procured; and when they will be available. In its Reply  
14 to Liberty’s Report filed with the Board on February 5, 2015 Hydro indicated its agreement  
15 with this recommendation, and this Report is in response to that recommendation.

16 In 2014 Hydro completed comprehensive reviews of its critical spares requirements and the  
17 status of inventory availability for all three generation areas. These reviews built on critical  
18 spares work which has been ongoing at Hydro since 2011 through its Long Term Asset  
19 Planning Council and otherwise, and critical spares will continue to be an area of ongoing  
20 monitoring and adjustment in line with changes to Hydro’s asset base and asset  
21 performance.

22 The following sections briefly review the status of Hydro’s capital spares program as they  
23 relate to the three areas of its generation operations. On an overall basis Hydro’s progress  
24 with the execution of its critical spares program has been consistent with plan. The  
25 Company’s priority focus in 2014 was on ensuring that spares that were critical to generation  
26 reliability during the 2014/15 winter season were available in the event they were needed.  
27 Hydro’s assessment of its critical spares readiness for the 2014/15 winter period was

1 provided to the Board on December 9, 2014. This assessment did indicate some critical  
2 components with long lead times that would not be available for this winter season, but  
3 Hydro's evaluation of reliability risk in these areas over the 2014/15 winter period was low  
4 for the various reasons outlined at that time. In 2015, Hydro will continue to progress its  
5 critical spares plan, and with the exception of a limited number of components for which  
6 capital upgrades are planned, critical spares identified in 2014 which are not currently in  
7 stock will be procured in 2015 and in time for the 2015/16 winter season.

## 1    **2.0    HOLYROOD THERMAL GENERATING STATION (HTGS)**

2    Hydro engaged a Consultant to provide expertise and additional resources to assist in  
3    completing a review of critical spares at the HTGS. This review was designed to encompass  
4    the steps identified below.

- 5            1. Review the existing critical spares review done by the 2011 Condition Assessment  
6            Consultants, AMEC, and procure any identified spares which have not been procured  
7            to date.
- 8            2. Engage a medium voltage motor manufacturer to provide spare 4kV motors for  
9            forced draft fans, boiler feed pumps, condensate extraction pumps and circulating  
10           water pumps.
- 11           3. Update the HTGS report “Asset Criticality Rankings” (Fall 2013), and revise as  
12           necessary in reference to the criteria requiring all three generating units at the HTGS  
13           to be fully available to the transmission system at all times for the period December 1  
14           through March 31.
- 15           4. For each major asset listed in the “Asset Criticality Rankings” report, expand to  
16           include a more comprehensive list of assets to be reviewed.
- 17           5. HTGS personnel will review the preliminary list to confirm progress to date and verify  
18           the inclusion of all assets. The list will then be updated as required.
- 19           6. For each major asset, on an asset-by-asset basis, review and analyze all assets with  
20           respect to generation availability, and score each asset’s criticality.
- 21           7. For each critical asset, define all parts into a parts spreadsheet.
- 22           8. HTGS personnel will review the parts spreadsheet to confirm progress to date and  
23           verify the inclusion of all parts. The list will then be updated as required.
- 24           9. For each Asset, on a part-by-part basis, review and analyze all parts to determine  
25           spare part criticality. Determine the criticality ranking in such a manner that the  
26           asset number, name, description and specification can be extracted to form a Bill of  
27           Materials (BoM) of all spares.
- 28           10. With the finalized critical spares list, review the inventory of stock against the spare  
29           parts presently in stock, and prepare an itemized list of parts which must be  
30           procured.

1 11. Based on the itemized list of critical spares noted above carry out a market  
 2 investigation to compile a list of potential suppliers of required critical spares. Invite  
 3 price and delivery estimates from the suppliers to provide the critical spares.

4

5 In recognition of the scope of work involved, this Review was divided into three phases.

6 Phase I included items 1-6 above, as noted in Table 2.1 below. Phase 2 included items 7-9,

7 and Phase 3 included items 10-11. This plan was outlined in Hydro's *Generation Availability*

8 *Report* submitted to the Board on June 16, 2014.

<b>Table 2.1</b>	
<b>Schedule for Phase 1 of Critical Spares Review at HTGS</b>	
<b>Activity</b>	<b>Completion Date</b>
Purchase Order Issued	May 8, 2014
Kick Off Meeting	May 14, 2014
Draft Report of Spares to be Stocked	August 7, 2014
Presentation of Report	August 28, 2014
Finalized Report of Critical Spares to be Stocked	September 11, 2014
Finalized Critical Spares Listing Including: a) Bill of Materials; b) estimated lead times; and c) cost estimates	November 30, 2014

9

10 As reported to the Board in Hydro's December 1, 2014 Generation Availability Report, all  
 11 actions identified above for Phase 1 of the critical spares review for HTGS were completed as  
 12 planned by November 30, 2014. Since that time, Holyrood has continued through the  
 13 remaining steps of its critical spares plan.

14 Appendix A of this Report indicates the current status of the critical spares program at

15 Holyrood, for each of the following main areas:

- 16 a) Common Services
- 17 b) Units 1 and 2
- 18 c) Unit 3
- 19 d) Electrical Distribution System

1 In each of these areas Appendix A indicates the components which are in stock and those  
2 which are on order. Appendix A also indicates those components which were originally  
3 identified in November, 2014 as potential critical spares,<sup>1</sup> which have since been confirmed  
4 as not being critical.

5 In a limited number of areas, a spares requirement has not been identified for a critical  
6 component on the basis that a capital upgrade or replacement is planned. These are noted  
7 at the bottom of the lists provided for Common Services; Units 1 and 2; and Unit 3. In the  
8 case of such projects which are scheduled for years later than 2015, any risk to generation  
9 reliability has been assessed as low based on observed asset condition and other factors.

#### 10 **4 kV Motors**

11 Hydro's comprehensive review of its critical spares plan at Holyrood highlighted forced draft  
12 (FD) fan motors and Boiler Feed pump motors as being highly critical to generation  
13 reliability. The failure of a FD fan motor on Unit 3 in late December 2013 and the  
14 unavailability of a ready replacement for that part contributed to the duration of the unit's  
15 unavailability in early January 2014.

16 Hydro's critical spares plan for 4 kV motors was outlined in detail in its response to PUB-NLH-  
17 455 as well as in the application to purchase the motors, which was approved on November  
18 27, 2014 in Board Order No. P.U. 46(2014). This plan involves the procurement of four spare  
19 4 kV motors (one FD fan motor and a boiler feed pump motor for each of the three  
20 generating units) as well as additional spare parts for these motors to supplement those  
21 already in inventory.

22 Hydro has been working with the supplier (Siemens) to expedite all stages of the  
23 manufacturing and delivery process to obtain the earliest possible delivery of these motors.  
24 The latest supplier update indicates that the Stage 1 FD fan motor (Holyrood's highest  
25 priority motor) is in transit, with an expected arrival during the week of February 23<sup>rd</sup>. The  
26 Boiler Feed Pump motor for Unit 3 is expected in St. John's on March 11, and the remaining

---

<sup>1</sup> See Hydro's response to PUB-NLH-452 and the attached lists of spares under evaluation by Hydro for potential acquisition.



- 1 two Boiler Feed Pump motors for Units 1 and 2 are expected in St. John's by March 26. All
- 2 motors are being shipped by air.

1 **3.0 GAS TURBINES**

2 The 2014 critical spares plan for the gas turbines at Hardwoods and Stephenville involved  
3 the completion of an asset criticality review; critical spares review; preparation of a critical  
4 spares list; review of the current spares inventory to identify additional spares required; and  
5 procurement of necessary spares prior to the 2014/2015 winter season. A consultant was  
6 engaged to assist Hydro personnel in completing this critical spares review, which  
7 encompassed the steps outlined below.

- 8 1. The asset criticality work was not as advanced for the gas turbines as it was for other  
9 generating plants in 2014. Thus, an asset criticality review of the Hardwoods and  
10 Stephenville gas turbine facilities was completed as part of the plan.
- 11 2. Based on the asset criticality review, a list of major assets was prepared and then  
12 expanded to create a more detailed list of assets to be reviewed.
- 13 3. A review of previous work completed related to the two gas turbine facilities was  
14 undertaken and a preliminary list of critical spare parts was prepared.
- 15 4. Hydro and the consultant reviewed the preliminary critical spares list and confirmed  
16 the inclusion of all assets and spare parts.
- 17 5. The list of critical spare parts was finalized.
- 18 6. The final list of critical spare parts was reviewed against spares in inventory and  
19 additional spares requirements identified.
- 20 7. Procurement of required critical spares was undertaken.

21

22 This plan was outlined in Hydro's *Generation Availability Report* submitted to the Board on  
23 June 16, 2014. As reported to the Board on December 1, 2014 all activities were completed  
24 as planned in 2014. Not all parts identified as being critical were in stock in advance of the  
25 2014/15 season. However, as noted in Hydro's December 9, 2014 winter readiness  
26 assessment, none of these included components identified as being necessary for operations  
27 reliability over the 2014/15 winter season.

1 Appendix B of this Report indicates the current status of the critical spares program for the  
2 Gas Turbines, and is broken down as follows:

- 3 a) Items that are in stock
- 4 b) Items that are on order
- 5 c) Items for which re-engineering or alternate sourcing is required because of  
6 equipment obsolescence or other reasons
- 7 d) Items which have been confirmed as not being critical

8  
9 Regarding c) above, the age of Hydro's gas turbine assets is a factor in sourcing original  
10 parts, which are no longer available in some cases. In some cases this will require a re-  
11 engineered solution or an alternate part based on consultation with the original equipment  
12 vendor. In any event, Hydro expects all critical spares to be available leading into the  
13 2015/16 winter season.

1 **4.0 HYDRAULIC GENERATION**

2 Hydro Generation’s plan for critical spares assessment in 2014 involved an assessment for  
 3 the top 25 percent of their most critical assets. These assets were then sorted by area to  
 4 allow for a more detailed assessment to identify the equipment and then the critical  
 5 equipment and its components. The critical spares list that was generated from this review  
 6 was then cross referenced with the existing critical spares listing to identify gaps and to  
 7 initiate the procurement of critical spares for inventory where required.

8 The schedule for the review of critical spares at Hydro Generation was outlined in Hydro’s  
 9 *Generation Availability Report* to the Board on June 16, 2014, and is indicated in Table 4.1  
 10 below.

<b>Table 4.1 Schedule for Critical Spares Review, Hydro Generation</b>	
<b>Activity</b>	<b>Completion Date</b>
Identify equipment and critical equipment/components	July 31, 2014
Assess critical spares for critical equipment/components	September 30, 2014
Cross reference assessed spares with existing critical spares list	October 31, 2014
Order critical spares that are not already set-up in inventory	November 30, 2014

11  
 12 As reported to the Board on December 1, 2014 all activities were completed as planned in  
 13 2014. Hydro’s December 9, 2014 winter readiness assessment did note two components  
 14 requiring long lead times which were not then in stock. However, Hydro also indicated  
 15 contingency plans were in place that would mitigate any availability risk in the unlikely event  
 16 of a failure involving these components.

17 Appendix C of this Report indicates the current status of the critical spares program for  
 18 Hydraulic Generation, and is broken down as follows:

- 19 a) Items that are in stock
- 20 b) Items that are on order

- 1 c) Items for which re-engineering or alternate sourcing is required because of  
2 equipment obsolescence or other reasons  
3 d) Items which are capital spares and which have been identified for procurement in  
4 future years

5  
6 Regarding d) above and the capital spares planned for acquisition in future years, any risk to  
7 generation reliability has been assessed as low based on the condition of the assets  
8 observed through inspection or because of the newness of the assets.

**APPENDIX A**

Status of Critical Spares for the HTGS  
February 15, 2015

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Fire Protection System	Electrical Driven Pump	Pump	Pump	In Stock			10	1	10	10	10	41	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Day Tank Trip Valve	Actuator	In Stock			10	10	10	1	5	36	
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping			Actuator	In Stock			10	10	10	1	5	36	
Powerhouse and Switchyard Single Line	129V DC System	Charger	Repair Parts	In Stock			10	1	10	1	10	32	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2205C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2206C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3205C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3206C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2203C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2207C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2202C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Cation Valve - KV2208C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3203C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3207C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3202C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Anion Valve - KV3208C	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4003B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4004A	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4005B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4006B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4007B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4008B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4009B	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4010A	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - KV4011A	In Stock			10	10	5	1	10	36	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Mixed Bed Valve - PCV4071	In Stock			10	10	10	1	10	41	
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Sodium Monitor	In Stock			10	1	10	1	10	32	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Frequency Drive	In Stock			10	10	10	1	10	41	
Raw and Makeup Water System & Water Treatment Plant	Clarifier	Agitator	Recirculator - Double Induction Speed Reducer - In Stock	In Stock			10	1	10	1	10	32	
Fire Protection System	Electrical Driven Pump	Control Panel	Fire Pump Controller	Not in Stock	N/A	N/A	10	1	10	5	10	36	Control panel to be replaced. Spares will be added then.
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping	Valves	Day Tank Trip Valve	8" Butterfly Valve and Actuator	Not In Stock	\$2,600.00	Jun-15	10	10	10	5	5	40	Addition to inventory in progress
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Fuel Line Block Valve	16" Gate Valve	Not in Stock	\$4,400.00	Mar-15	10	10	5	1	5	31	Addition to inventory in progress

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Day Tank Fill Line Control valve	6" Control Valve	Not in Stock	\$6,421.98	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
Fuel Oil Delivery System Aux. Steam & Fuel Oil Piping		Dock Quick Closing Valves	18" Butterfly Valve	Not in Stock	\$8,000.00	May-15	10	10	10	1	5	36	Addition to inventory in progress
Hydrogen Generation and Storage	Valves	Motorized Valves	1/2" Valve	Not in Stock	\$1,960.20	Mar-15	10	10	10	1	10	41	Addition to inventory in progress
Hydrogen Generation and Storage	Tubing		Tubing - See Parts List # COM - 1	Not in Stock	\$1,383.00	Mar-15	10	10	10	1	1	32	Addition to inventory in progress
Powerhouse and Switchyard Single Line	129V DC System	Future 2015 129 VDC Panel - Unit 1, 2, 3, Common	Breakers	Not in Stock	N/A	N/A	10	10	5	1	10	36	2015 Capital Project.



Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Circulating Water and Screen Wash System	CW Discharge Valves	Butterfly Valve	36" Butterfly Valve	Not in Stock	\$36,000.00	Apr-15	10	1	10	1	10	32	Addition to inventory in progress
Circulating Water and Screen Wash System	CW Discharge Valves	Butterfly Valve	Actuator	In Stock			10	1	10	1	10	42	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules	In Stock			10	10	10	1	10	31	
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Sensor	In Stock			10	10	5	5	5	35	
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Transmitter	In Stock			10	10	5	5	5	35	
Combustion Air & Gas Instruments	Burner Management	Flame Scanners	24Vdc Scanner Power Supply	In Stock			10	10	5	5	10	40	
Combustion Air & Gas Instruments	Burner Management	Positioner	2.5" x 5 "Pneumatic PowerPositioner In Stock	In Stock			10	1	10	5	10	36	
Combustion Air & Gas Instruments	Burner Management	Air Flow Transmitters	Transmitter	In Stock			10	10	10	5	10	45	
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 1	In Stock			10	10	5	5	10	40	
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Sensor - Unit 2	In Stock			10	10	5	5	10	40	
Combustion Air & Gas Instruments	Burner Management	Oil Flow Transmitter	Transmitter - Unit 2	In Stock			10	10	5	5	10	40	
Condenser Air Extraction System	Vacuum Breakers		6' Flanged	In Stock			10	1	10	5	5	31	
Generator	Seal Oil System	Seals	See Parts List #U1&2 - 1 from Service Contractor	In Stock			10	1	10	1	10	32	Addition to inventory in progress
Generator	Exciter	Bridges	See OEM Parts List #U1&2 - 2	In Stock			10	1	10	1	10	32	
Generator	Exciter	Channels	See OEM Parts List	In Stock			10	1	10	1	10	32	
Generator	Stator	PT Cubicle	Primary Contact for Generator P.T.	In Stock			10	1	10	1	10	32	
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Valve	In Stock			10	10	10	5	10	45	
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Ignition Transformer	In Stock			10	10	5	1	5	31	
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Sunspot	In Stock			10	10	5	1	5	31	
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Valve Assembly / Oil Igniter	In Stock			10	10	5	1	5	31	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitters	In Stock			10	10	10	5	10	45	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Modules	In Stock	To be Determined	To be Determined	10	10	10	5	10	45	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Relays	In Stock			10	10	10	5	10	45	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter	In Stock			10	10	10	5	10	45	
L.P. Feedwater System	Deaerator System	Level Control	Relay	In Stock			10	10	10	5	10	45	
L.P. Feedwater System	Condensate Extraction Pumps		See OEM Parts List -# U1&2 - 3	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Ammonia System		Bulk Chemical	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	Non-Return Valve	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	Gaskets	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	O-Rings	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	Packing	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	Seal washers	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Non-Return Valve	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Gaskets	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves	o-Rings	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Packing	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves	Seal washers	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	3" Valves	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Condensate Polishers (Units 1, 2)	Valves	2" Valves	In Stock			10	10	10	1	10	41	
Powerhouse and Switchyard Single Line	258V DC System	Unit 1 & 2 Field Breakers	Field Breaker	In Stock			10	10	10	5	10	45	
Powerhouse and Switchyard Single Line	258V DC System	Cable	In Stock	In Stock			10	10	5	1	5	31	
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - speed probes	In Stock			10	10	10	1	10	41	
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - cable assemblies	In Stock			10	10	10	1	10	41	

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers	
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Intercept Control Valve Servos	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 50 gal. Main Control Valve Servos	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Intercept Control Valve Servos (scram)	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Governor	Governor	Mark 5 System - 6 gal. Main Stop Valve Servos	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Oil Pump	Pump	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switches	Switch	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Hydraulic Fluid System	Fluid Pumps	Pump	In Stock			10	10	10	5	10	45
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Oil Pumps	Pump	In Stock			10	1	10	5	10	36
Turbine Generator System Stage 1	Turbine Lube Oil System	AC Motor	Motor	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switch 1	Switch	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Turbine Lube Oil System	Pressure Switch 2	Switch	In Stock			10	1	10	1	10	32
Turbine Generator System Stage 1	Steam Seal Regulator		Main Steam Control Valve - Positioner - Unit 2	In Stock			10	1	10	1	10	32
Units 1 & 2 Air & Flue Gas	Furnace Pressure TX (Trip)		Pressure Transmitter	In Stock			10	10	5	1	10	36
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Baskets	See OEM Parts List #U1&2- 6	In Stock			10	10	10	1	10	41
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Rotating Element & Bearings	See OEM Parts List #U1&2- 6	In Stock			10	10	10	1	10	41
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Drive System	See OEM Parts List #U1&2- 6	In Stock			10	10	10	1	10	41
Units 1 & 2 Air & Flue Gas	Rotary Air Heaters	Soot Blowers	See OEM Parts List #U1&2- 6	In Stock			10	10	10	1	10	41
Units 1 & 2 Fuel Oil System	Atomizing Steam Valve	Atomizing Steam Valve	2" Flanged Valve	In Stock			10	10	5	5	5	35
Units 1 & 2 Fuel Oil System	Fuel Oil Pumps	Fuel Oil Pumps	Pump	In Stock			10	10	10	1	10	41
Units 1 & 2 Fuel Oil System	Mechanical Seal	Mechanical Seal	Seal	In Stock			10	1	10	1	10	32
Units 1 & 2 Fuel Oil System	Short Recirculation Valve	Short Recirculation Valve	Welded Flange	In Stock			10	10	10	1	10	41
Units 1 & 2 Fuel Oil System	Long Recirculation Valve	Long Recirculation Valve	Welded Valve	In Stock			10	10	10	1	10	41
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Gaskets	In Stock			10	10	5	1	10	36
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Tube Bundles	In Stock			10	1	10	1	10	32
Units 1 & 2 Fuel Oil System	Burners	Oil Valve	oil, Steam & Svange Valves - All Same	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve - Unit 1	See Pats List #U1&2-8	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps - Unit 1 E & W	Pump or Parts	In Stock			10	1	10	5	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Unit 2 E & W	Pump	In Stock			10	1	10	5	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Rotating Assembly	In Stock			10	1	10	1	10	32
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Volute casing for rotating assembly	In Stock			10	1	10	1	10	32
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Throttle bushing (2 req'd)	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Sleeve bearing	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Balance bushing	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Thrust bearing	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Pump Parts	Gaskets	In Stock			10	10	5	1	10	36
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Main Feedwater Low Load Control Valve	See Pasrts List #U1&2-9	In Stock			10	10	10	5	5	40
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #1 - All HP Heaters	Level Transmitters	In Stock			10	10	10	1	1	32
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 - HP Heater # 4 & 6	Leve Transmitter	In Stock			10	10	10	1	1	32
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 -HP Heater # 5	Level Transmitter	In Stock			10	10	10	1	10	41
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 - All HP Heaters	Aquarian Alarm Modules	In Stock	To be Determined	To be Determined	10	10	10	1	10	41
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit #2 - Heater # 4 & 6	Aquarian Alarm Modules	In Stock	To be Determined	To be Determined	10	10	10	1	10	41
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 2 -HP Heater # 5	Aquarian Alarm Modules	In Stock	To be Determined	To be Determined	10	10	10	1	10	41
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2 - All HP Heaters	Conductivity Probe	In Stock			10	10	10	1	10	41

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit # 1 & 2 - All HP Heaters	Relay	In Stock			10	10	5	1	5	31	
Units 1 & 2 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	Unit 1 & 2	Solenoid	In Stock	To be Determined	To be Determined	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve Limit Switch	Oil Tight Limit Switch	In Stock	To be Determined	To be Determined	10	10	10	1	1	32	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Valve	10" Valve	In Stock			10	1	10	1	10	32	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	8" Valve	In Stock			10	1	10	1	10	32	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 4	8"- 150#	In Stock			10	1	10	1	10	32	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 5	8"- 300#	In Stock			10	1	10	1	10	32	
Units 1 & 2 H.P. Feedwater System	H.P. Heaters	NRV Valves - Heater # 6	8"- 600#	In Stock			10	1	10	1	10	32	
Units 1 & 2 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Level Transmitter	In Stock			10	10	10	1	1	32	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" x 1" Valve	In Stock			10	10	10	1	1	32	
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Boiler Feed Recirculation Valve to DA	4" Valve	In Stock			10	10	10	1	10	41	
Main Steam & Reheat Steam; Turbine Drains	Vacuum Trip Device		Pressure Transmitter - Unit 1	In Stock			10	10	10	5	10	45	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays	Not in Stock	\$710.00	Apr-15	10	10	10	5	10	45	Addition to inventory in progress
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor	Not in Stock	\$6,875.91	May-15	10	10	10	5	10	45	Addition to inventory in progress
Condenser Air Extraction System	Mechanical Vacuum Pumps	Motor	Motor	Not in Stock	\$8,038.82	Sep-15	10	1	10	5	5	31	Addition to inventory in progress
Generator	Stator	Stand Off Insulators	Stand Off Insulator	Not In Stock	To be Determined	To be Determined	10	1	10	5	10	36	Additional Engineering Required
Generator	Stator	PT Cubicle	Potential Transformer (PT)	Not In Stock	To be Determined	To be Determined	10	1	10	1	10	32	Additional Engineering Required
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Solenoid	Not in Stock	\$1,083.50	May-15	10	10	10	5	10	45	Addition to inventory in progress
L.P. Feedwater System	Deaerator System	Level Control	Level Switch	Not in Stock	\$1,000.00	Jun-15	10	10	5	5	10	40	Addition to inventory in progress
L.P. Feedwater System	Polisher Bypass Valve		Valve	Not In Stock	\$3,500.00	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducer for Intercept Control Valve & Main Control Valve	Not in Stock	\$1,850.84	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Linear Variable Differential Transducers for 1 per Main Stop Valve	Not in Stock	\$3,379.63	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Trip Manifold Assembly (TMA) - Unit 2 OEM \Parts list #U1&2 -4 List of OEM recommended	Not in Stock	\$5,675.00	Sep-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Go Switch - Limit Switches	Not in Stock	\$8,000.00	Sep-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Truck V-Fast Cables	Not in Stock	\$8,000.00	Sep-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 1	Governor	Governor	Fluid Power Products	Not in Stock	\$8,000.00	Sep-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 1	Turbine Lube Oil System	DC Motor	Motor	Not in Stock	\$15,000.00	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Steam Seal Regulator		Main Steam Valve - Actuator Repair Kit - Unit 1 & 2	Not in Stock	\$4,000.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Steam Seal Regulator		Main Steam Control Valve - Repair Kit - Unit 1 & 2	Not in Stock	\$4,000.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Steam Seal Regulator		Dump Control Valve - Actuator - Repair Kit - Unit 1 & 2	Not in Stock	\$4,000.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 1	Steam Seal Regulator		Dump Control Valve - Body - Repair Kit - Unit 1 & 2	Not in Stock	\$4,000.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Units 1 & 2 Fuel Oil System	Combustion Control Valve	Combustion Control Valve	2" Flanged valv	Not in Stock	\$5,028.86	Jun-15	10	10	10	1	10	41	Addition to inventory in progress

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Units 1 & 2 Fuel Oil System	Main Fuel Oil Trip Valve	Main Fuel Oil Trip Valve	Flanged Valve	Not in Stock	\$12,071.98	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 Fuel Oil System	Header Pressure Control Valve	Header Pressure Control Valve	Flanged Valve	Not in Stock	\$4,034.00	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Unit 2 Seal Water Valve?	Flanged Valve - TJ to chek system	Not in Stock	\$5,097.12	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Unit 2	Flanged Valve - TJ to chek system	Not in Stock	\$7,859.58	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Unit 2	Flanged Valve - TJ to chek system	Not in Stock	\$12,071.98	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Units 1 & 2 H.P. Feedwater System	Boiler Feed	Unit 2	Flanged Valve - TJ to chek system	Not in Stock	\$5,213.63	Jun-15	10	10	10	1	10	41	Addition to inventory in progress
Powerhouse and Switchyard Single Line	258V DC System	Panel	Breakers	Not in Stock	N/A	N/A	10	10	10	5	10	45	Capital Project in 2015.
Powerhouse and Switchyard Single Line	258V DC System	Unit 1 & 2 - Rectifying Transformers	Rectifying Transformer	Not in Stock	N/A	N/A	10	1	10	5	5	31	Capital Project in 2016.
Powerhouse and Switchyard Single Line	258V DC System	Charger	Breakers	Not in Stock	N/A	N/A	10	1	10	1	10	32	Capital Project in 2015.
Powerhouse and Switchyard Single Line	258V DC System	Charger	Charger	Not in Stock	N/A	N/A	10	1	10	1	10	32	Capital Project in 2015.

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Circulating Water and Screen Wash System	CW Discharge Valves		36" Butterfly Valve	Common Spare	N/A	N/A	10	10	10	1	5	36	Common with Units 1 & 2
Circulating Water and Screen Wash System	CW Discharge Valves		CW Butterfly Valve Actuator	In Stock			10	10	10	1	5	36	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Network Interface Modules	In Stock			10	10	10	1	10	41	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	DCS Control Processor	In Stock			10	10	10	1	10	41	
Combustion Air & Gas Instruments	Burner Management	Elevation Air Dampers	Positioner	In Stock			10	1	10	1	10	32	
Condenser Air Extraction System	Vacuum Breakers		6" Flange Vacuum Breaker	In Stock			10	10	10	1	5	36	
Generator	Exciter	Channels	See Above	In Stock			10	1	10	1	10	32	
Generator	Stator	PT Cubicle	Fuse	In Stock			10	1	10	5	10	36	
Ignitor Light Oil and Air Supply	Light Oil	Igniter Control Box	Light Oil / Air Supply Solenoid Valve	In Stock			10	10	5	1	10	36	
Ignitor Light Oil and Air Supply		Igniter Control Box	Purge Solenoid Valve	In Stock			10	10	5	1	10	36	
Ignitor Light Oil and Air Supply		Igniter Control Box	Pneumatic Actuator	In Stock			10	10	5	1	10	36	
Ignitor Light Oil and Air Supply		Igniter Control Box	Ignition Transformer	In Stock			10	10	5	1	10	36	
Ignitor Light Oil and Air Supply		Igniter Control Box	Relay	In Stock			10	10	5	1	10	36	
Ignitor Light Oil and Air Supply		Igniter Control Box	Sunspot - Scanner	In Stock			10	10	5	1	10	36	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Level Transmitter LP Heater #1	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Modules	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Conductivity Probe	In Stock			10	10	5	1	10	36	
L.P. Feedwater System	Deaerator System	Deaerator	Gauge Glasses	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Deaerator System	Level Control	Level Switch	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Deaerator System	Level Control	Level Transmitter	In Stock			10	10	10	1	1	32	
L.P. Feedwater System	Ammonia System		Bulk Chemical Tote Tank	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Control Valves	8" Valve	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves - #2 - LP Heater	20" Dia	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	L.P. Heaters	NRV Valves - #1 LP Heater	24" Dia	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	NRV Valves (2)	14" Dia on DA	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Deaerator System	Safety Valves	6" Valves	In Stock			10	1	10	1	10	32	
L.P. Feedwater System	Polisher Bypass Valve		Parts to Repair	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	3" Valves	In Stock			10	10	10	1	10	41	
L.P. Feedwater System	Condensate Polishers (Units 1, 2, 3)	Valves	2" Valves	In Stock			10	10	10	1	10	41	
Turbine Generator System Stage 2	Governor	Governor	See Hitachi Parts List # U3-5 for Governor Drive Assembly	In Stock			10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 2	Governor	Governor	See Hitachi Parts List # U3-18 for Speed Governr Aassembly	In Stock			10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump Same for AC Pump	See Hitachi Parts List #U3-11 for pump - 2 Recommended Parts	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Auto Start Pressure Switch	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Turbine Lube Oil System	Auxiliary Oil Pump	See Hitachi Parts List #U3-10 for Pump - 3 recommended Parts	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Pressure Transmitter - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Main Steam Control Valve - Actuator - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Main Steam Control Valve - Body - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Main Steam Control Valve - Positioner - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Aux Steam Control Valve - Actuator - Unit 3	In Stock			10	1	10	1	10	32	

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Turbine Generator System Stage 2	Steam Seal Regulator		Aux Steam Control Valve - Body - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Dump Control Valve - Actuator - Repair Kit - Unit 3	In Stock			10	1	10	1	10	32	
Turbine Generator System Stage 2	Steam Seal Regulator		Dump Control Valve - Body - Repair Kit - Unit 3	In Stock			10	1	10	1	10	32	
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Series 8500 size 95 w/ 95" @ 100% width wheel	In Stock			10	1	10	1	10	32	Repair materials in stock
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Series 8500size 95 w/ 95" @ 100%width Shaft	In Stock			10	1	10	1	10	32	Repair materials in stock
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		2 - Temperature probes installed in bearings	In Stock			10	1	10	1	10	32	
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Falk Steelflex coupling	In Stock			10	1	10	1	10	32	
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		outlet damper	In Stock			10	1	10	1	10	32	Repair materials in stock
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		variable inlet vanes	In Stock			10	1	10	1	10	32	Repair materials in stock
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Inlet Silencer	In Stock			10	1	10	1	10	32	Repair materials in stock
Unit 3 Air & Flue Gas	Rotary Air Heaters	Pneumatic Drive System	Air Drive Motor	In Stock			10	1	10	1	10	32	
Unit 3 Air & Flue Gas	O2 Analyzers		Analyzer - Instock	In Stock			10	1	10	1	10	32	
Unit 3 Air & Flue Gas	O2 Analyzers		Probe - In Stock	In Stock			10	1	10	1	10	32	
Unit 3 Fuel Oil System		Fuel Oil Pumps	Pump	In Stock			10	10	10	1	10	41	
Unit 3 Fuel Oil System	Burners	Steam Valve	1" Valve	In Stock			10	1	10	1	10	32	
Unit 3 Fuel Oil System	Burners	Scavenge Valve	1" Valve	In Stock			10	1	10	1	10	32	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Rotating Assembly	In Stock			10	1	10	1	10	32	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Volute casing for rotating assembly	In Stock			10	1	10	1	10	32	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Throttle bushing  (2 req'd)	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Sleeve bearing (2 req'd)	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Balance bushing	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Thrust bearing	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Boiler Feed Pumps	Gaskets	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	6" - EHT valve 1500lb - Welded	In Stock			10	10	5	1	10	41	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 10A5411X022 - Seal Ring	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 13A5599X052 - O-Ring	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 26A52990X52 - Seat Ring Retainer	In Stock			10	10	10	1	10	41	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 27A2798X042 - Seat Ring, O-Ring	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 42B3570X012 - Cage, Eq%	In Stock			10	10	10	1	10	41	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 36A5442X0K2 - Plug/Stem Bal	In Stock			10	10	10	1	10	41	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	2 - 26A5314X012 - Gasket	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 11872906332 - Upper Wiper	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 11873435072 - Packing Box Ring	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1R290601012 - Packing Set	In Stock			10	10	5	1	10	36	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)	All HP Heaters	Conductivity Probe	In Stock			10	10	10	1	10	41	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Aquarian Alarm Module	In Stock			10	10	10	1	10	41	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Level Transmitter	In Stock			10	10	10	1	1	32	
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Relay	Common Spare	N/A	N/A	10	10	5	1	5	31	Common with Units 1 & 2
Unit 3 H.P. Feedwater System	H.P. Heater Controls (Water Induction Protection)		Solenoid	Common Spare	N/A	N/A	10	10	10	1	10	41	Common with Units 1 & 2
Unit 3 H.P. Feedwater System	H.P. Heaters	Motorized Bypass Valves	10" Dia	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #6 HP Heater	6" Dia	In Stock			10	10	10	1	5	36	

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #5 HP Heater	8" Dia	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	H.P. Heaters	NRV Valves - #4 HP Heater	10" Dia	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Motorized Discharge Valves	8" Dia Valve	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	Steam Drum	Level Control Transmitters	Transmitter	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	LL Control Valve	Valve	In Stock			10	10	10	1	5	36	
Unit 3 H.P. Feedwater System	Boiler Feed	Suction Line Safety Valve	1/2" Dia	In Stock			10	1	10	1	10	32	
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	Actuator	In Stock			10	10	10	1	10	41	
Combustion Air & Gas Instruments	Burner Management	Burner Automation	Master Fuel Trip Relays	Not in Stock	\$330.00	May-15	10	10	5	1	10	36	Addition to inventory in progress
Combustion Air & Gas Instruments	Burner Management	Elevation Oil Flow Transmitter	Meter & Transmitter	Not in Stock	\$16,295.00	Apr-15	10	10	10	1	1	32	Addition to inventory in progress
Generator	Synchronous Condensator	Thrust Bearing	See Parts List & Estimate by Supplier - #U3-1	Not in Stock	\$47,575.00	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Generator	Seal Oil System	Seals	Regulator	Not In Stock	\$53,085.00	Oct-15	10	1	10	5	10	36	Addition to inventory in progress
Generator	Exciter	Bridges	See OEM Parts List -# U3- 2	Not In Stock	\$7,427.00	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Generator	Stator	Stand Off Insulators		Not in Stock	To be Determined	To be Determined	10	1	10	5	10	36	Additional Engineering Required
Generator	Stator	PT Cubicle	Potential Transformer (PT)	Not in Stock	To be Determined	To be Determined	10	1	10	5	10	36	Additional Engineering Required
Ignitor Light Oil and Air Supply	Light Oil	Trip Valve	1" Ball Valve	Not in Stock	\$2,000.00	Sep-15	10	10	10	1	5	36	Addition to inventory in progress
Ignitor Light Oil and Air Supply		Igniter Control Box	Snap Action Switch	Not in stock	\$400.00	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
Ignitor Light Oil and Air Supply		Igniter Control Box	1/4" Light Oil Air Ball Valves	Not in stock	\$315.00	Mar-15	10	10	5	1	5	31	Addition to inventory in progress
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Solenoid	Not in Stock	\$4,300.00	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
L.P. Feedwater System	L.P. Heater Controls (Water Induction Protection)		Relay	Not in Stock	\$140.00	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
L.P. Feedwater System	Deaerator System	Level Control	Solenoid	Not in Stock	\$4,300.00	Apr-15	10	10	10	1	10	41	Addition to inventory in progress
L.P. Feedwater System	Deaerator System	Level Control	Relay	Not in Stock	\$162.61	Jun-15	10	10	10	1	10	41	Duplicate
Powerhouse and Switchyard Single Line	258V DC System	Field Breaker	Field Breaker	Not in Stock	\$5,000.00	Oct-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Governor		See Hitachi Parts List #U3-6 for Load Limit Handwheel Assembly	Not in Stock	\$2,590.00	Sep-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 2	Governor		See Hitachi Parts List #U3-7 for Speed Load Charger Assembly	Not in Stock	\$4,015.00	Oct-15	10	10	10	1	10	41	Addition to inventory in progress
Turbine Generator System Stage 2	Governor	Electrical Trip Test Device	Solenoid Trip - See Hitachi OEM Parts list #U3-8	Not In Stock	\$4,770.00	Oct-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Governor	Mechanical Overspeed Trip Device	See Emergency Governor OEM Parts List #U3-17	Not in Stock	\$16,315.00	Nov-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Turbine Lube Oil System	DC Lube (Flushing) Oil Pump	Motor	Not in Stock	\$10,000.00	Oct-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Turbine Lube Oil System	Shaft Driven Oil Pump	See Hitachi Parts List #U3-9 for Pump - 6 recommended Parts	Not in Stock	\$10,000.00	Oct-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Upper	See OEM list & Quote see list #U3-12	13 Items in Stock 18 Not Stock	\$174,710.00	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Main Steam Chest Assembly	Control Valve - Lower	See OEM list & Quote see list #U3-13	12 Items in Stock 18 Not Stock	\$149,690.00	Sep-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Main Steam Chest Assembly	Stop Valves	See 2 OEM lists & Quotes List #U3-14	Not in Stock	\$53,100.00	Oct-15	10	1	10	1	10	32	Addition to inventory in progress
Turbine Generator System Stage 2	Reheat Steam Chest Assembly	Reheat/ICV Valves	See 4 OEM lists & Quotes - List #U3-15	Not in Stock	\$501,340.00	Nov-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Drive side bearing	Not in Stock	\$7,756.00	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		Opposite side bearing	Not in Stock	\$6,980.00	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Main Fuel Oil Trip Valve	4" Type ET Class 300	Not in Stock	\$8,327.72	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Combustion Control Valves	1 1/2 " flanged valve w/ actuator	Not in Stock	\$1,792.50	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Atomizing Steam Valve	2" Typw ED Class 300	Not in Stock	\$4,358.34	Jun-15	10	1	10	1	10	32	Addition to inventory in progress

Asset			Define Spares Parts	Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit 3 Fuel Oil System		Level Fuel Oil Trip Valves (3)	2-1/2" Flanged (?) Ball Valve cw/ Actuator	Not in Stock	\$5,799.18	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Header Pressure Control Valve	1-1/2" - Welded Flanged	Not in Stock	\$1,070.25	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Main Fuel Oil Recirculation Valve	1" Welded Flange Valve w/ Actuator	Not in Stock	\$2,066.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System		Level Fuel Oil Recirculation Valves	3/4" Welded Valve w/ Actuator	Not in Stock	\$1,952.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 Fuel Oil System	Burners	Oil Valve	1/2" Ball Valve	Not in Stock	\$2,800.00	Aug-15	10	1	10	1	10	32	Addition to inventory in progress
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 1H7441X0022 - Bushing Seal	Not in Stock	\$1,123.96	Apr-15	10	10	5	1	10	36	Addition to inventory in progress
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - 2R6376X0082 - Diaphragm	Not in Stock	\$733.78	Apr-15	10	10	5	1	10	36	Addition to inventory in progress
Unit 3 H.P. Feedwater System	Feed Water Flow Controls	Main Feed Water Control Valve	1 - R667X000802 - Repair Kit	Not in Stock	\$92.22	Apr-15	10	10	5	1	10	36	Addition to inventory in progress
Unit 3 Air & Flue Gas	Rotary Air Heaters	Gearbox	Gearbox	Not in Stock	\$43,465.00	Jun-15	10	1	10	1	10	32	Addition to inventory in progress
Powerhouse and Switchyard Single Line	258V DC System	Rectifying Transformer	Rectifying Transformer	Not in Stock	To be Determined	To be Determined	10	1	10	1	10	32	Capital Project in 2016
Powerhouse and Switchyard Single Line	258V DC System	Charger	Breaker	Not in Stock	To be Determined	To be Determined	10	1	10	1	10	32	Capital Project in 2016
Powerhouse and Switchyard Single Line	258V DC System		Charger	Not in Stock	To be Determined	To be Determined	10	1	10	1	10	32	Capital Project in 2016



Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Station Board SB12 (SSB1)				Feeder to Station Board - breaker SSB-1 & Relays	Not in Stock	31,500.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)				SSB-1 Relay	Not in Stock	2,200.00	Jul-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)				SSB-1 Relay	Not in Stock	8,000.00	Jul-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)				SSB-1 Relay	Not in Stock	2,000.00	Jul-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)				Feeder to Station Board - breaker SSB-2	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A
Station Board SB12 (SSB1)				Feeder to transformer ATC - breaker SSB-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A
Station Board SB12 (SSB1)				SSB-3 Relay	Not in Stock	2,000.00	Jul-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)				SSB-3 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB12 (SSB1)				Feeder to Station Board - breaker SSB-4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A
Station Board SB12 (SSB1)				SSB-4 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB12 (SSB1)				SSB-4 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Relays	In Stock			10	1	5	5	10	31	
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Feeder to Power Centre - breaker C1	Not in Stock	15,000.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)		Feeder to MCC C1 - breaker C2	Not in Stock	15,000.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)		Feeder to MCC E1 - breaker C4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)		Feeder to MCC C12 - breaker C7	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Feeder to Power Centre - breaker C14	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		Feeder to Power Centre - breaker C15	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C5	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C6	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C8	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C9	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C10	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C11	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C12	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)		breaker C13	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Diesel Bus DB12 (Alternate Feeds Diesel Generator D1, Diesel Bus Tie, Tie Breaker to Transfer Bus C15)	Circuit Breaker to Bus - breaker C16	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Diesel Bus DB12 (Alternate Feeds Diesel Generator D1, Diesel Bus Tie, Tie Breaker to Transfer Bus C15)	Circuit Breaker to Bus - breaker C17	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Diesel Bus DB12	Feeder to MCC - breaker C18	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Diesel Bus DB12 (Alternate Feeds Diesel Generator D1, Diesel Bus Tie, Tie Breaker to Transfer Bus C15)	Circuit Breaker to Bus - breaker C19	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Station Board SB34 (ST34)				Feeder to Station Board - breaker ST34 & relays	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A
Station Board SB34 (ST34)				breaker ST34 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				breaker ST34 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				Feeder to Station Board - breaker TB12 & relays	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Station Board SB34 (ST34)				breaker TB12 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with MAVS devices - replaced by ABB SYN5201-0271
Station Board SB34 (ST34)				breaker TB12 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Station Board SB34 (ST34)				breaker TB12 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				breaker TB12 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				Feeder to transformer SAT34 - breaker SAT34 & relays	Not in Stock	28,900.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB34 (ST34)				breaker SAT34 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				breaker SAT34 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)				breaker PSM3 & relay	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, 5HK-VR-250-1200A
Station Board SB34 (ST34)				breaker PSM3 relay	In Stock			10	1	5	5	10	31	
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)			Circuit Breaker TB3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, 5HK-VR-250-2000A
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)			TB3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)			TB3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)			TB3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Station Board SB34 (ST34)	TB3 (Tie Breaker Between Station Board SB34 & Unit Board UB3)			TB3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		Feeder to Station Board - breaker SAB34	Not in Stock	15,000.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		Feeder to Station Board - breaker ATB12	Not in Stock	15,000.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		Feeder to Boiler Area MCC BAB3 - breaker SDB-34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		WAM34	Not in Stock	15,000.00	Sep-15	10	1	5	5	10	31	Tier 2 Critical Spare - Addition to inventory in progress
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		GPB34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		AC34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		CWP34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		LDP34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		WTP34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)		Feeder to Diesel Bus DB34 - Breaker DB34	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Diesel Bus DB34 (Alternate Feeds Diesel Generator D2, Diesel Bus Tie)	Feeder to Diesel Bus - D2	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Diesel Bus DB34 (Alternate Feeds Diesel Generator D2, Diesel Bus Tie)	Feeder to Diesel Bus - DBT	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)				Circuit Breaker UB1-1	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1.
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)				UB1-1 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with MAVS devices - replaced by ABB SYN5201-0271
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)				UB1-1 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
UB1-1 (Tie Breaker Between Station Board SB12 & Unit Board UB1)				UB1-1 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB1 (UB1-2)				Feeder to Unit Board UB1 - breaker UB1-2	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1, SHK-VR-250-2000A
Unit Board UB1 (UB1-2)				UB1-2 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB1 (UB1-2)				UB1-2 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE HFA devices
Unit Board UB1 (UB1-2)				UB1-2 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE HFA devices
Unit Board UB1 (UB1-2)				Feeder to transformer ATA - breaker UB1-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C
Unit Board UB1 (UB1-2)				UB1-3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C
Unit Board UB1 (UB1-2)				breaker UB1-4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-4 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB1 (UB1-2)				breaker UB1-5	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-5 relay	In Stock			10	1	5	5	10	31	

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit Board UB1 (UB1-2)				breaker UB1-6	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-6 relay	In Stock			10	1	5	5	10	31	
Unit Board UB1 (UB1-2)				breaker UB1-7	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-7 relay	In Stock			10	1	5	5	10	31	
Unit Board UB1 (UB1-2)				breaker UB1-8	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-8 relay	In Stock			10	1	5	5	10	31	
Unit Board UB1 (UB1-2)				breaker UB1-9	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-9 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB1 (UB1-2)				breaker UB1-10	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-10 relay	In Stock			10	1	5	5	10	31	
Unit Board UB1 (UB1-2)				breaker UB1-11	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB1 (UB1-2)				UB1-11 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IACS1 and ICA53 devices - replaced by SEL-551C
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1) (Alternate Feed Transfer Bus A9)		Relays	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
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	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
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	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)		Feeder to transformer LT-A - breaker A3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)		Feeder to MCC A1 - breaker A4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)		A5	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)		A6	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)		A7	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)				Circuit Breaker UB2-12	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1.

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality						
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers	Ranking	Comments
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)				UB2-12 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with MAVS devices - replaced by ABB SYN5201-0271
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)				UB2-12 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)				UB2-12 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
UB2-12 (Tie Breaker Between Unit Board UB2 & Station Board SB12)				UB2-12 Relay	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB2 (UB2-1)				Feeder to Unit Board - breaker UB2-1 & relays	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1.
Unit Board UB2 (UB2-1)				UB2-1 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB2 (UB2-1)				UB2-1 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE HFA devices
Unit Board UB2 (UB2-1)				UB2-1 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE HFA devices
Unit Board UB2 (UB2-1)				Feeder to Transformer ATB, breaker UB2-2	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-2 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB2 (UB2-1)				UB2-2 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB2 (UB2-1)				UB2-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-3 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB2 (UB2-1)				UB2-4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-4 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB2 (UB2-1)				UB2-5	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-5 relay	In Stock			10	1	5	5	10	31	
Unit Board UB2 (UB2-1)				UB2-6	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-6 relay	In Stock			10	1	5	5	10	31	
Unit Board UB2 (UB2-1)				UB2-7	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-7 relay	In Stock			10	1	5	5	10	31	

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit Board UB2 (UB2-1)				UB2-8	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-8 relay	In Stock			10	1	5	5	10	31	
Unit Board UB2 (UB2-1)				UB2-9	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-9 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB2 (UB2-1)				UB2-10	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB2 (UB2-1)				UB2-10 relay	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Spares spare with CGE IAC51 and ICA53 devices
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Spares spare with CGE IAC51 and ICA53 devices
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Relays	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Feeder to Power Centre B - breaker B1	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Feeder to transformer LT-B - breaker B4	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		Feeder to MCC B1 - breaker B5	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		B2	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		B6	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		B7	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)		B8	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other CGE AK breakers.
Unit Board UB3 (UT3)				Feeder to Unit Board - breaker UT3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to Station Board - breaker SSB-1.
Unit Board UB3 (UT3)				UT3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB3 (UT3)				UT3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB3 (UT3)				UT3 relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB3 (UT3)				Feeder to transformer UAT3 - breaker UAT3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				UAT3 Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB3 (UT3)				UAT3 Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB3 (UT3)				BFE3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				BFE3 relay	In Stock			10	1	5	5	10	31	

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit Board UB3 (UT3)				BFW3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				BFW3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				FDE3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				FDE3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				FDW3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				FDW3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				CEN3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				CEN3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				CES3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				CES3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				CWE3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				CWE3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)				CWW3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare with Feeder to transformer SAT34 - breaker SAT34, SHK-VR-250-1200A
Unit Board UB3 (UT3)				CWW3 relay	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with other Westinghouse relays - replaced by ABB SPAU121C
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Relays	Common Spare - Not in Stock	N/A	Jul-15	10	1	5	5	10	31	Shares spare with CGE IAC51 and ICA53 devices - replaced by SEL-551C
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Relays	In Stock			10	1	5	5	10	31	
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Relays	Common Spare - In Stock			10	1	5	5	10	31	Shares spare with all other P&B Golds devices.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Feeder to Aux Board - breaker UAB-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Feeder to transformer LDP-3 - breaker LDP-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Feeder to MCC BAB3 - breaker BAB-3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		AOP3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		TAB3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		AC12	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.



Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					Comments	
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers		Ranking
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)		Tie Breaker to Station Board - breaker ATB3	Common Spare - Not in Stock	N/A	Sep-15	10	1	5	5	10	31	Shares spare re-build kit/critical spares kit with other FP breakers.

Asset		Define Spares Parts		Price Spare Parts			Spare Part Criticality					Status Update Feb 15, 2015	
System	Sub System	Asset	Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of Suppliers		Ranking
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Silica Analyzer	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Sample Heater	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Silica Analyzer	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Raw and Makeup Water System & Water Treatment Plant	Demineralization System	Instrumentation/Controls	Sample Heater	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Generator	Rotor	Rotor	Rotor	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Rotor	Rotor Poles	Rotor Poles	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Stator		Stator and Brush Rigging Assembly	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Stator	Stator Poles	Stator Poles	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Seal Oil System	Regulator	1.5" Regulating Valve	Not in Stock - Not Critical			10	10	10	1	10	41	Not critical to unit operation.
Units 1 & 2 Air & Flue Gas	F.D. Fans	Unit 1& 2 - Fans	See Parts List #U1&2 - 5 - from OEM	Not in Stock	N/A	N/A	10	1	10	10	10	41	Predictive and preventative maintenance plus condition monitoring are utilized to maintain the FD Fans, mitigating the requirement for whole spare replacements.
Units 1 & 2 Fuel Oil System	Duplex Basket Suction Strainer	Duplex Basket Suction Strainer	Strainer Basket	Not in Stock - Not Critical	N/A	N/A	10	10	10	1	1	32	Not critical to unit operation.
Units 1 & 2 Fuel Oil System	Fuel Oil Heaters	Fuel Oil Heaters	Whole Heater	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Units 1 & 2 H.P. Feedwater System	Boiler Feed		Pressure Transmitter - Unit 2	Not in Stock - Not Critical	N/A	N/A	10	10	10	1	1	32	Not critical to unit operation.
Generator	Rotor		Rotor	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Rotor	Rotor Poles		Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Stator		Stator and Brush Rigging Assembly	Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Stator		Stator and Brush Rigging Assembly	Not in Stock	N/A	N/A	10	1	10	1	10	32	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Generator	Stator	Stator Poles		Not in Stock	N/A	N/A	10	1	10	5	10	36	Predictive and preventative maintenance plus condition monitoring and condition assessments are used to maintain and extend the life of the generator.
Main Steam & Reheat Steam; Turbine Drains	Vacuum Unloading Device		See OEM Pats List # U3-4	Not in Stock - Not Critical	N/A	N/A	10	10	10	1	10	41	Not critical to unit operation.
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		2 - Independent bearing pedestals	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Unit 3 Air & Flue Gas	F.D. Fans (EFD)		2 - bearing sole plates	Not in Stock - Not Critical	N/A	N/A	10	1	10	1	10	32	Not critical to unit operation.
Unit 3 H.P. Feedwater System	Boiler Feed	DA Recirculation Block Valve	4" Gate Valve	Not in Stock - Not Critical	N/A	N/A	10	10	10	1	10	41	Not critical to unit operation.

Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality						
System	Asset			Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers	Ranking	
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Lighting Transformer LT-A (A3)		Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Turbine & Boiler Area MCC A1 (A4)		MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Unit Board UB1 (UB1-2)	UB13 (Aux Transformer ATA)	Power Center A UAB1 (A1)	Turbine & Boiler Area MCC A1 (A4)	HP Heater MCC A1-1 (A1-1)	MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)				Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Turbine & Boiler Area MCC B1 (B5)		MCC	Not in Stock - Not Critical	n/a	n/a	10	1	5	5	10	31
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	Turbine & Boiler Area MCC B1 (B5)	HP Heater MCC B1-1	MCC	Not in Stock - Not Critical	n/a	n/a	10	1	5	5	10	31
Unit Board UB2 (UB2-1)	Aux Transformer ATB (UB22)	Power Center B UAB2 (B1)	LT Transformer LT-B (B4)		Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Unit Board UB3 (UT3)					UAT3 Relays	Not in Stock - Not Critical	n/a	n/a	10	1	5	5	10	31
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)				Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Lighting Distribution Transformer (LDP-3)		Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Boiler Area MCC (BAB3)		MCC	Not in Stock - Not Critical	n/a	n/a	10	1	5	5	10	31
Unit Board UB3 (UT3)	Unit Aux Transformer (UAT3)	Aux Board UAB3 (UAB3)	Boiler Area MCC (BAB3)	HP Heater MCC HPH3	MCC	Not in Stock - Not Critical	7,500.00		10	1	5	5	10	31
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Diesel Bus DB12	Essential Services MCC E1 (C18)	Motor Control Centre Unit	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3				Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1) (Alternate Feed Tie Breaker to Transfer Bus C15)			Relays	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Water Treatment and Aux Boiler MCC C5 (C4)		MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Common Services MCC C1 (C2)		MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31

System	Asset				Define Spares Parts	Price Spare Parts			Spare Part Criticality					
	Asset				Defined Spares Parts	Stock Status	Cost	Delivery	Asset Criticality	PM / CM	Lead Time	Tech Spec	# of suppliers	Ranking
Station Board SB12 (SSB1)	Aux Transformer ATC - SSB3	Power Center C SAB12 (C1)	Waste Water Treatment Plant MCC C12 (C7)		MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)				Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27
Station Board SB34 (ST34)	Station Aux Transformer (SAT34)	Station Aux Board (SAB34)	Diesel Bus DB34	Essential Services MCC ESB34	MCC	Not in Stock - Not Critical	N/A	N/A	10	1	5	5	10	31
Unit Board UB1 (UB1-2)	UB1-3 (Aux Transformer ATA)				Transformer	Not in Stock - Not Critical	N/A	N/A	10	1	10	5	1	27

**APPENDIX B**

Status of Critical Spares for the Gas Turbines  
February 15, 2015

<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Updated Stock Status - Feb, 2015</b>
Bearing (494047), Power Turbine Model CT2, Prime Mover Systems	In stock	Medium	N	In Stock
Bearing (494056), Power Turbine Model CT2, Prime Mover Systems	In stock	Medium	N	In Stock
Jacking Oil Pump, Main Lube Oil System, Auxiliary Systems	In stock	High	N	In Stock
Fuel Filter, Gas Generator, Prime Mover Systems	In stock	Medium	N	In Stock
Oil Filter Unit - Complete (B.108506), Gas Generator, Prime Mover Systems	In stock	Medium	N	In Stock
Filter (494064), Power Turbine Model CT2, Prime Mover Systems	In stock	Medium	N	In Stock
Proximity Switch, Clutch, Prime Mover Systems	In stock	Medium	N	In Stock
Altair Quick Shutoff Valve (AV-LF-1), Liquid Fuel System, Auxiliary Systems	In stock	High	N	In Stock
Supplemental Fuel AC Pump (P&MLF-5), Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
Fuel Recirculation Solenoid Valve (LF-7), Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
Jacking Oil Permissive Pressure Switch, Main Lube Oil System, Auxiliary Systems	In stock	High	N	In Stock
Primary Ratchet Ring, Clutch, Prime Mover Systems; A side	In stock	High	N	In Stock
Primary Ratchet Ring, Clutch, Prime Mover Systems; B side	In stock	High	N	In Stock
Secondary Ratchet Ring, Clutch, Prime Mover Systems; A side	In stock	High	N	In Stock
Secondary Ratchet Ring, Clutch, Prime Mover Systems; B side	In stock	High	N	In Stock
Ring that the Primary Pawl and spring are installed	In stock	Medium	N	In Stock
Primary Pawl Spring, Clutch, Prime Mover Systems	In stock	High	N	In Stock
Primary Pawl, Clutch, Prime Mover Systems	In stock	High	N	In Stock
Secondary Pawl, Clutch, Prime Mover Systems	In stock	Medium	N	In Stock
Limit Switch, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	In stock	Medium	N	In Stock
NC Solenoid Valve (SV-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In stock	High	N	In Stock
NO Solenoid Valve (SV-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In stock	High	N	In Stock
Starter Control Valve (CA-17), Gas Generator Air Starter System, Auxiliary Systems	In stock	High	N	In Stock
3-Way Thermostatic Valve (GL-2), MLO/Glycol Cooling System, Auxiliary Systems	In stock	Medium	N	In Stock

<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Updated Stock Status - Feb, 2015</b>
Thermocouple (184847), Power Turbine Model CT2, Prime Mover Systems	In stock	High	N	In Stock
Motor Operated Tank Shutoff Valve (LF-38), Liquid Fuel System, Auxiliary Systems, HWD GT	In stock	High	N	In Stock
Final Fuel Filter (F-LF-1), Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
Heater Filter Coalescer, Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
Prefilter, Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
Supplemental Fuel Filter (F-LF-5), Liquid Fuel System, Auxiliary Systems	In stock	Medium	N	In Stock
High Efficiency Farr HP-100 Filter (2'x2'x2"), Filter Box - Curtiss Wright, Prime Mover Systems	In stock	Medium	N	In Stock
Filter (F-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	In stock	High	N	In Stock
Unloading Filter, Liquid Fuel System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Duplex 25u Filter (F-LO-1), Main Lube Oil System, Auxiliary Systems	In stock	Medium	N	In Stock
Filter/Coalescer Heater (HTR-LF-1), Liquid Fuel System, Auxiliary Systems, HWD GT	In stock	Medium	N	In Stock
Alternator Bearing Drain Oil Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	In stock	Medium	N	In Stock
Common Drain Clutch B Thermocouple (TC-LO-11), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Compressor Start-Stop Pressure Switch (PS-CA-1), Gas Generator Air Starter System, Auxiliary Systems	In stock	High	N	In Stock
Compressor Start-Stop Pressure Switch (PS-CA-2), Gas Generator Air Starter System, Auxiliary Systems	In stock	High	N	In Stock
Oil Drain Alternator Clutch Bearing 1 Thermocouple (TC-LO-4), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Alternator Clutch Bearing 2 Thermocouple (TC-LO-5), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Alternator Clutch Bearing 3 Thermocouple (TC-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Alternator Clutch Bearing 4 Thermocouple (TC-LO-7), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock

<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Updated Stock Status - Feb, 2015</b>
Oil Drain Alternator Clutch Bearing 5 Thermocouple (TC-LO-8), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Alternator Clutch Bearing 6 Thermocouple (TC-LO-9), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Exciter Bearing 7 Thermocouple (TC-LO-10), Main Lube Oil System, Auxiliary Systems, SVL GT	In stock	Medium	N	In Stock
Oil Drain Thermocouple (TC-LO-2), Main Lube Oil System, Auxiliary Systems, HWD GT	In stock	Medium	N	In Stock
Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In stock	Low	N	In Stock
Anti-Icing Hot Air Valve - Complete (810-501-0747), Gas Generator, Prime Mover Systems	In stock	Low	N	In Stock
Vibration Transducer, Gas Generator, Prime Mover Systems	Not in stock	Medium	N	In Stock
Fuel Regulator (LF-4), Liquid Fuel System, Auxiliary Systems	Not in stock	Medium	N	In Stock
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	Not in stock	Medium	N	In Stock
Clutch Control Solenoid Valve (LO-6), Main Lube Oil System, Auxiliary Systems, HWD GT	Not in stock	Medium	N	In Stock
Vibration Pickup (181571), Power Turbine Model CT2, Prime Mover Systems	Not in stock	Medium	N	In Stock
Alternator Cooling Air Temperature Thermocouple (TC-A-1), Alternator Cooling System, Auxiliary Systems, SVL GT	Not in stock	Medium	N	In Stock
Pressure Regulating Valve (LO-8), Main Lube Oil System, Auxiliary Systems	Not in stock	Medium	N	In Stock
NC Solenoid Valve (SV-CA-3), Gas Generator Air Starter System, Auxiliary Systems	Not in stock	High	N	In Stock
Fire Fuel Shutoff Valve (LF-8), Liquid Fuel System, Auxiliary Systems	Not in stock	Low	N	In Stock
Valve (181536), Power Turbine Model CT2, Prime Mover Systems	Not in stock	Low	N	In Stock
High Energy Ignition Unit, Gas Generator, Prime Mover Systems	Procurement in Progress	High	N	In Stock



<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Updated Stock Status - Feb, 2015</b>
Thermocouple (181398N1), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Speed Pickup (181487), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	High	N	In Stock
Thermocouple (181397), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Thermocouple (181398N2), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Probe (181414N1), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Probe (181414N2), Power Turbine Model CT2, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
P3 Pressure Transducer (PT-P3-1), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	High	N	In Stock
Common Drain Clutch A Thermocouple (TC-LO-3), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	Medium	N	In Stock
Fuel Supply Thermocouple (TC-LF-1), Liquid Fuel System, Auxiliary Systems, SVL GT	Procurement in Progress	Medium	N	In Stock
Oil Supply Thermocouple (TC-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	Medium	N	In Stock
Oil Supply Thermocouple (TC-LO-1), Main Lube Oil System, Auxiliary Systems	Procurement in Progress	Medium	N	In Stock
Gas Generator Permissive Start Pressure Switch, Gas Generator Air Starter System, Auxiliary Systems	Procurement in Progress	High	N	In Stock
Starter Overpressure Pressure Switch (PS-CA-3), Gas Generator Air Starter System, Auxiliary Systems	Procurement in Progress	High	N	In Stock
Inlet Temperature Thermocouple, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Resistance Temperature Detector Probe, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	Procurement in Progress	Medium	N	In Stock
Fuel Temperature Sensor (TS-LF-1), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	Medium	N	In Stock

Critical Spare Component	Stock Status - Nov, 2014	Risk Score	Spare Cost >\$50,000	Updated Stock Status - Feb, 2015
Fuel Valve (FC-LF-1), Liquid Fuel System, Auxiliary Systems		High	N	In Stock

<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Updated Stock Status</b>	<b>Expected Delivery Date</b>
Liquid Fuel Burner - Complete (BDC.3026), Gas Generator, Prime Mover Systems	Not in stock	Medium	N	On order	Late Feb 2015
Oil Pump - Complete, Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Outer Oil Pump Drive Assembly (47-1-1-006409), Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Outer Starter Drive Assembly (BDA.1153), Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Scavenge Pump Assembly (47-1-1-006418), Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Low Liquid Level Alarm Switch (LL-GL-1), MLO/Glycol Cooling System, Auxiliary Systems	Procurement in Progress	Medium	N	On order	Early March 2015
Level Switch (LS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	High	N	On order	Early March 2015
Heater Control Temperature Switch (TS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Heater Control Temperature Switch (TS-LO-1), Main Lube Oil System, Auxiliary Systems	Procurement in Progress	Medium	N	On order	Late Feb 2015
Final Fuel Filter Differential Pressure Switch (PSD-LF-1), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	Medium	N	On order	Early March 2015
Inlet Pressure Transducer, Gas Generator Enclosure with Septum Doors, Prime Mover Systems	Procurement in Progress	Medium	N	On order	Late March 2015
HP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	Procurement in Progress	Low	N	On order	Late Feb 2015
LP Compressor Magnetic Pickup, Gas Generator, Prime Mover Systems	Procurement in Progress	Low	N	On order	Late Feb 2015

Critical Spare Component	Stock Status - Nov, 2014	Risk Score	Spare Cost >\$50,000	Stock Status - Feb, 2015	Expected Delivery Date
Exciter Bearing, 63MVA 50MW Generator, Power Generation Systems	Not in stock	High	N	Technical information not available - reengineering required.	to be determined
Rotor Bearing, 63MVA 50MW Generator, Power Generation Systems	Not in stock	High	N	Technical information not available - reengineering required.	to be determined
Bearing (181413 or 181332), Power Turbine Model CT2, Prime Mover Systems	Not in stock	Medium	N	Technical information not available - reengineering required.	to be determined
Fuel Pump Servo Valve (SV-LF-1), Liquid Fuel System, Auxiliary Systems	Not in stock	Medium	N	Sourcing parts	Early April 2015
Low Trip Pressure Switch (PS-LO-7), Main Lube Oil System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Start Permissive Pressure Switch (PS-LO-6), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Pressure Switch, Permissive Start - Low Pressure Alarm (PS-LF-2), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Pressure Switch, Trip - Low Fuel Pressure (PS-LF-3), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Low Oil Pressure Switch (PS-GGLO-1), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Filter Differential Pressure Switch (PSD-LO-1), Main Lube Oil System, Auxiliary Systems	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Filter Upstream Pressure Switch (PS-GGLO-3), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Pre-filter Differential Pressure Switch (PSD-LF-2), Liquid Fuel System, Auxiliary Systems, HWD GT	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
AC Pump Discharge Fuel Pressure Switch (PS-LF-4), Liquid Fuel System, Auxiliary Systems, HWD GT	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
DC Pump Start Pressure Switch (PS-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
DC Pump Start Pressure Switch (PS-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season

Critical Spare Component	Stock Status - Nov, 2014	Risk Score	Spare Cost >\$50,000	Stock Status - Feb, 2015	Expected Delivery Date
DC Pump Start Pressure Switch (PS-LO-3), Main Lube Oil System, Auxiliary Systems, HWD GT	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Low Oil Pressure Switch (PS-GGLO-2), Gas Generator Lube Oil System, Auxiliary Systems	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Pressure Switch (PS-HO-1), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Inertial Filter Element, Filter Box - Curtiss Wright, Prime Mover Systems	Procurement in Progress	Medium	N	Sourcing parts	Prior to 2015/2016 Winter Season
Oil to Clutch A Pressure Transducer (PT-LO-1), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Oil to Clutch B Pressure Transducer (PT-LO-2), Main Lube Oil System, Auxiliary Systems, SVL GT	Procurement in Progress	High	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season
Fuel Pressure Transducer (PT-LF-1), Liquid Fuel System, Auxiliary Systems	Procurement in Progress	Medium	N	In-kind part unavailable - reengineering required	Prior to 2015/2016 Winter Season

<b>Critical Spare Component</b>	<b>Stock Status - Nov, 2014</b>	<b>Risk Score</b>	<b>Lead Time</b>	<b>Comments</b>	<b>Stock Status - Feb, 2015</b>	<b>Expected Delivery Date</b>
Combustion Chamber, Gas Generator, Prime Mover Systems	Not in stock	Medium	4 weeks	1 set to refurbish	>50K - Future Purchase	Prior to 2015/16 Winter Season
Lower Fuel Pump Assembly, Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	2 weeks		>50K - Future Purchase	Prior to 2015/16 Winter Season
Outer Fuel Pump Drive Assembly (BDA.7591), Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	2 weeks		>50K - Future Purchase	Prior to 2015/16 Winter Season
Upper Fuel Pump Assembly, Gas Generator, Prime Mover Systems	Procurement in Progress	Medium	2 weeks		>50K - Future Purchase	Prior to 2015/16 Winter Season

Identified Component	Stock Status - Nov, 2014	Risk Score	Comments
Double-Acting Pneumatic Cylinder, Snow Door Assembly, Exhaust, Prime Mover Systems, SVL GT	Not in stock	Low	Not critical - does not limit operation
Pneumatic Cylinder, Snow Door Assembly, Exhaust, Prime Mover Systems, HWD GT	Not in stock	Low	Not critical - does not limit operation
Battery, 125 VDC Battery Bank, D.C. Electrical System, Power Generation Systems, HWD GT	Not in stock	Low	Not critical - limited shelf life of spare.
Battery, 250 VDC Battery Bank, D.C. Electrical System, Power Generation Systems, SVL GT	Not in stock	Low	Not critical - limited shelf life of spare.
Oil to Glycol Heat Exchanger (CLR-LO-1), MLO/Glycol Cooling System, Auxiliary Systems	Not in stock	Low	Recently inspected - in good condition.
Actuator - Hydraulic & DC Motor (A-LF-1), Liquid Fuel System, Auxiliary Systems	Not in stock	Low	New system installed.
Forwarding DC Emergency Pump No 2, Liquid Fuel System, Auxiliary Systems, SVL GT	Not in stock	Low	Not required due to redundancy
Expansion Tank Low Level Alarm (LL-GA-1), Alternator Cooling System, Auxiliary Systems, SVL GT	Not in stock	Low	New system installed.
Hydraulic Actuator Supply Filter (F-HO-1), Liquid Fuel System, Auxiliary Systems	Not in stock	Low	New system installed.

## **APPENDIX C**

Status of Critical Spares for Hydraulic Generation  
February 15, 2015



Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - INTAKE STRUCTURE NO. 1 - TRANSMITTER,PRESS 0-6MH20	In Stock	Medium	NO	
BDE - PENSTOCK NO. 1 - TRANSMITTER,PRESS 0-375	In Stock	Medium	NO	
BDE - PENSTOCK NO. 2 - TRANSMITTER,PRESS 0-375	In Stock	Medium	NO	
BDE - PENSTOCK NO. 3 - TRANSMITTER,PRESS 0-375	In Stock	Medium	NO	
BDE - PENSTOCK NO. 4 - TRANSMITTER,PRESS 0-375	In Stock	Medium	NO	
BDE - TURBINE - Turbine Carbon Seal (Units 1 to 4)	In Stock	High	NO	
BDE - TURBINE - Turbine Carobn Seal (Units 5 & 6)	In Stock	High	NO	
BDE - WICKET GATES AND LINKAGES - Shear Pins	In Stock	Medium	NO	
BDE - WICKET GATES AND LINKAGES - PACKING,V TYPE 2-EASY	In Stock	Medium	NO	
BDE - WICKET GATES AND LINKAGES - PIN,ECCENTRIC	In Stock	Medium	NO	
BDE - WICKET GATES AND LINKAGES - RING,PISTON SERVO MOTOR 18"OD	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - XFMR,CT 13.8KV	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - XFMR,CT 1000:	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - XFMR,PT 14400KV	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - XFMR,CT 30332313	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - XFMR,CT 800:5	In Stock	High	NO	
BDE - ISOLATED PHASE BUS - CT 50/51	In Stock	High	NO	
BDE - GATE HOIST - BAY D'ESPOIR - ST - Remote I/O Adapter	In Stock	Medium	NO	
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER HEAD COVER P003	In Stock	High	NO	
BDE - HEADCOVER ASSEMBLY - UNIT 1 - BUSHING,UPPER WICKET	In Stock	High	NO	
BDE - RUNNER - UNIT 1 - BOLT,SHAFT TO RUNNER	In Stock	High	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,ANALOG QUANTUM	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,CPU MODICON	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE IN	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,DISCRETE OUT	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,ETHERNET QUANTUM	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,GPS QUANTUM	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,HOT STANDBY	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,INTERFACE PLC	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,RACK FILLER	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - MODULE,RELAY OUT	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY, 125-24 VDC	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125 VDC	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,125VDC 8A	In Stock	Medium	NO	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - PLC,Model Quantum- Modicon - POWER SUPPLY,24 VDC	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - REMOTE I/O HEAD,MODICON	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - ADAPTER,REMOTE I/O	In Stock	Medium	NO	
BDE - PLC,Model Quantum- Modicon - BACKPLANE,10 SLOT MODICON	In Stock	Medium	NO	
BDE - STATION SERVICE - BDE PH1 - ACB	In Stock	High	NO	
BDE - STATION SERVICE - BDE PH1 - Trip Unit - Breker control device	In Stock	High	NO	
BDE - ROTOR SHAFT - Rotating Ring	In Stock	High	TBD	
BDE - STATOR ASSEMBLY - BAR,COPPER 1/2"X2"X10'	In Stock	High	NO	
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock	High	NO	
BDE - STATOR ASSEMBLY - BAR,ROTOR CONNECTION	In Stock	High	NO	
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock	High	TBD	
BDE - STATOR ASSEMBLY - BAR,STATOR	In Stock	High	TBD	
BDE - SPILLWAY #1-SALMON RIVE - Lift gearboxes/nuts	In Stock	High	NO	
BDE - INTAKE GATE - BACKPLANE,6 SLOT MODICON	In Stock	Medium	NO	
BDE - DISCONNECT SWITCH 29-1 - Complete Unit	In Stock	High	YES	
BDE - Generator SLIPRING/BRUSH RIGGING - Carbon Brushes	In Stock	Medium	NO	
BDE - Generator SLIPRING/BRUSH RIGGING - Brush Holders	In Stock	Medium	NO	
BDE - Generator SLIPRING/BRUSH RIGGING - Slip Ring	In Stock	High	YES	
BDE - TURBINE GUIDE BEARING - Bearing	In Stock	High	YES	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE200130R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205011R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205012R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE205014R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300661R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300686R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300690R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300698R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE300766R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305043R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE305069R0001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE30598R1	In Stock	High	NO	
BDE - EXCITATION CONTROLS - CARD,ABB HIEE401481RD001	In Stock	High	NO	
BDE - EXCITATION CONTROLS - COIL,ABB HIER464920P1	In Stock	High	NO	
BDE - EXCITATION CONTROLS - MAINBOARD,ABB HIER465176R22	In Stock	High	NO	
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock	High	NO	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - EXCITATION CONTROLS - POWER SUPPLY,TRACO HIER46651-	In Stock	High	NO	
BDE - EXCITATION CONTROLS - RESISTOR,FIELD DISCHARGE	In Stock	High	NO	
BDE - EXCITATION CONTROLS - SHUNT,ABB UXAB269330R909	In Stock	High	NO	
BDE - EXCITATION CONTROLS - VARISTOR,ABB 3ACD5245A003	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - BREAKER,ABB HIER466757P2331 (entire unit)	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - SHUNT,ABB UXAB269350R909	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239Z60R002	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB239299R0003	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - CONTACT,ABB UXAB269399R032	In Stock	High	NO	
BDE - FIELD BREAKER QO2 - PANEL EE - ARC-CHUTE,ABB UXAB269399R012	In Stock	High	NO	
BDE - GENERATOR - CREEP DETECTOR ASSY,129 VCD	In Stock	High	NO	
BDE - GENERATOR - PLATES,BRAKE (24 PER SET)	In Stock	High	NO	
BDE - GENERATOR - SWITCH,WOODWARD 8935-139	In Stock	High	NO	
BDE - Exciter POWER ELECTRONICS - Pulse Transformers	In Stock	Medium	NO	
BDE - Exciter POWER ELECTRONICS - BRIDGE,ABB S00772	In Stock	High	NO	
BDE - Exciter POWER ELECTRONICS - FUSE,ABB 6,6URD32TTF0800	In Stock	Medium	NO	
BDE - Exciter POWER ELECTRONICS - FAN ASSY,ABB 500773	In Stock	High	NO	
BDE - Exciter POWER ELECTRONICS - THYRISTOR,ABB 5STP27F1200	In Stock	High	NO	
BDE - RECTIFYING TRANSFORMER - Full Unit	In Stock	High	YES	
BDE - SURFACE AIR COOLERS - SAC Unit	In Stock	Medium	TBD	
BDE - SURFACE AIR COOLERS - Tubes	In Stock	Medium	NO	
BDE - THRUST/GUIDE BEARING COOLERS - Cooler	In Stock	High	YES	
BDE - ROTOR POLES - Pole	In Stock	High	TBD	
BDE - STATOR WINDINGS - UNIT 1 - CONNECTOR,STATOR CU	In Stock	High	NO	
BDE - STATOR WINDINGS - UNIT 1 to 4 - Coils	In Stock	High	TBD	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Springs	In Stock	High	NO	
BDE - THRUST/GUIDE BEARING ASSEMBLY - Oil	In Stock	Medium	NO	
BDE - THRUST/GUIDE BEARING ASSEMBLY - TRANSMITTER,DIFF	In Stock	Medium	NO	
BDE - GOVERNOR - BEARING,DASHPOT LINK	In Stock	High	NO	
BDE - GOVERNOR - BRACKET,WOODWARD 11002-57	In Stock	High	NO	
BDE - GOVERNOR - BRACKET,WOODWARD 91588	In Stock	High	NO	
BDE - GOVERNOR - BUSHING,PILOT VALVE	In Stock	High	NO	
BDE - GOVERNOR - BUSHING,SNAP ACTION	In Stock	High	NO	
BDE - GOVERNOR - BUSHING,WW 11002-65	In Stock	High	NO	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - GOVERNOR - BUSHING, DASHPOT - SMALL	In Stock	High	NO	
BDE - GOVERNOR - BUSHING, DASHPOT - LARGE	In Stock	High	NO	
BDE - GOVERNOR - CABLE,AIRCRAFT 1/4 187083	In Stock	High	NO	
BDE - GOVERNOR - CLIP,WW 11002-16	In Stock	High	NO	
BDE - GOVERNOR - COIL,DASHPOT	In Stock	High	NO	
BDE - GOVERNOR - COIL,PARTIAL SHUTDOWN RESET	In Stock	High	NO	
BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID	In Stock	High	NO	
BDE - GOVERNOR - COIL,SHUTDOWN SOLENOID 65SD	In Stock	High	NO	
BDE - GOVERNOR - COIL,WW 202132	In Stock	High	NO	
BDE - GOVERNOR - CONTACT,CONTACTOR-TYPE DG-	In Stock	High	NO	
BDE - GOVERNOR - DASHPOT,WW 161314	In Stock	High	NO	
BDE - GOVERNOR - DIODE,WW 202891	In Stock	High	NO	
BDE - GOVERNOR - DISC,RELIEF VALVE	In Stock	High	NO	
BDE - GOVERNOR - DISC,UNLOADER	In Stock	High	NO	
BDE - GOVERNOR - GASKET KIT,WOODWARD 8926-137	In Stock	High	NO	
BDE - GOVERNOR - GASKET,WOODWARD 1327-816	In Stock	High	NO	
BDE - GOVERNOR - GASKET,WOODWARD 206317	In Stock	High	NO	
BDE - GOVERNOR - LEVER,CONNECTING LOWER	In Stock	High	NO	
BDE - GOVERNOR - LEVER,LOWER FLOATING	In Stock	High	NO	
BDE - GOVERNOR - LEVER,UPPER FLOATING	In Stock	High	NO	
BDE - GOVERNOR - LINK,WOODWARD 070346	In Stock	High	NO	
BDE - GOVERNOR - LOCKWASHER,BEARING	In Stock	High	NO	
BDE - GOVERNOR - MOTOR ASSY,C/W SHAFT & GEAR	In Stock	High	NO	
BDE - GOVERNOR - MOTOR ASSY,GATE LIMIT	In Stock	High	NO	
BDE - GOVERNOR - MOTOR,GOVERNOR SPEED 28 VOLT	In Stock	High	NO	
BDE - GOVERNOR - MOTOR,SYNCHRONIZING	In Stock	High	NO	
BDE - GOVERNOR - MOTOR, VIBRATING OIL	In Stock	High	NO	
BDE - GOVERNOR - FILTER,HYD 932633Q	In Stock	High	NO	
BDE - GOVERNOR - PIN,BALLARM	In Stock	High	NO	
BDE - GOVERNOR - PIN,DASHPOT	In Stock	High	NO	
BDE - GOVERNOR - PIN,LOWER DRIVE	In Stock	High	NO	
BDE - GOVERNOR - PIN,PIVOT	In Stock	High	NO	
BDE - GOVERNOR - PIN,WOODWARD 11002-71	In Stock	High	NO	
BDE - GOVERNOR - PIN,WOODWARD 11002-75	In Stock	High	NO	
BDE - GOVERNOR - PLUNGER,SNAP ACTION	In Stock	High	NO	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - GOVERNOR - POTENTIOMETER,1250OH 0.24A	In Stock	High	NO	
BDE - GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock	High	NO	
BDE - GOVERNOR - RETAINER,SWITCH	In Stock	High	NO	
BDE - GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock	High	NO	
BDE - GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock	High	NO	
BDE - GOVERNOR - SOLENOID,125 V DC	In Stock	High	NO	
BDE - GOVERNOR - SOLENOID,125VDC 211E	In Stock	High	NO	
BDE - GOVERNOR - SPRING,PILOT VALVE LINK	In Stock	High	NO	
BDE - GOVERNOR - SPRING,RELIEF	In Stock	High	NO	
BDE - GOVERNOR - SPRING,UNLOADER	In Stock	High	NO	
BDE - GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock	High	NO	
BDE - GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - BEARING,SPEED SIGNAL	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - PIN,DOWEL - SPEED SWITCH	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - PLATE,MOUNTING - MERCURY	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - RING,ROTOR	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - PIN,ROCKER ARM	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 1800125	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - BEARING,WW 111006	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - BEARING,PMG P/N Z995205	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - PIN,BALLARM	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE UPPER D	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - BUSHING,URETHANE LOWER D	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - BALLARM,SPEED SWITCH	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - PIN,TAPERED	In Stock	Medium	NO	
BDE - GOVERNOR SPEED GENERATOR - SPRING,SPEED SWITCH	In Stock	High	NO	
BDE - GOVERNOR SPEED GENERATOR - STATOR,P.M.G.	In Stock	High	NO	
BDE - GUIDE BEARING SEGMENTS - bearing segments,	In Stock	High	YES	
BDE - THRUST BEARING SEGMENTS - bearing segments,	In Stock	High	YES	
BDE - UNIT 7 GOVERNOR - FILTER,HYD 932633Q	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,BALLARM	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,DASHPOT	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,LOWER DRIVE	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - UNIT 7 GOVERNOR - PIN,PIVOT	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,ROCKER ARM	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-71	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PIN,WOODWARD 11002-75	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PLUNGER,SNAP ACTION	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - POTENTIOMETER,1250OH 0.24A	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - PUMP,OIL IMO A3DB-275	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - RETAINER,SWITCH	In Stock	Medium	N/A	
BDE - UNIT 7 GOVERNOR - RING,SNAP (PILOT SERVO PLUG)	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - ROTOR,BALL HEAD MOTOR	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SENSOR,LOAD GOVERNOR	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SOLENOID,125 V DC	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SOLENOID,125VDC 211E	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SPRING,PILOT VALVE LINK	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - STATOR,BALL HEAD MOTOR	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SWITCH,PRESS OIL ALARM	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - STATOR,PERMANENT MAGNET	In Stock	High	N/A	
BDE - UNIT 7 GOVERNOR - SPRING,SPEED SWITCH	In Stock	High	N/A	
BDE - UNIT 7 TURBINE - Carbon Seal	In Stock	High	N/A	
BDE - UNIT 7 TURBINE - wicket gate	In Stock	High	N/A	
BDE - UNIT 7 TURBINE - turbine bearing	In Stock	High	N/A	
BDE - Unit 7 DRAFT TUBE-TURBINE - Water Level Probe	In Stock	Medium	N/A	
BDE - Unit 7 HEADCOVER ASSEMBLY - BOTTOM RING P001 bushing	In Stock	High	N/A	
BDE - Unit 7 HEADCOVER ASSEMBLY - BUSHING,LOWER HEAD COVER P001	In Stock	High	N/A	
BDE - Unit 7 HEADCOVER ASSEMBLY - PACKING,V-TYPE 3/8 EASY	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - Linkage	In Stock	High	N/A	
BDE - Unit 7 OPERATING RING - BUSHING,LINK PIN	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - CAP,SHEARPIN	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - PIN,ECCENTRIC P005	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - PIN,LINK P006	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - PIN,ROD SHEARPIN	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - PIN,UPPER DRIVE	In Stock	Medium	N/A	
BDE - Unit 7 OPERATING RING - LEVER,WICKET GATE	In Stock	High	N/A	
BDE - Unit 7 ROTOR ASSEMBLY - POLE	In Stock	High	N/A	
BDE - Unit 7 RUNNER - TURBINE - CARBON SEAL	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - Unit 7 SERVOMOTOR # 1 - Piston Ring	In Stock	High	N/A	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,SERVOMOTOR	In Stock	Medium	N/A	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V TYPE 2-EASY	In Stock	Medium	N/A	
BDE - Unit 7 SERVOMOTOR # 1 - PACKING,V-TYPE 9"X8"ID	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - BOARD,DIGITAL I/O	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - BOARD,I/O ANALOG	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - BOARD,MEASURING ABB	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - BOARD,POWER SYSTEM STABI	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - CAPACITOR,20 MF +-10% 150 V	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - COMPONENT, INTEG CCT	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - INTEG CCT	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - CONTACT,ISOLATING	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - MODULE,ABB DCS500B200361	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - PANEL,CONTROL	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - POWER SUPPLY,ABB 3BHE013940R00	In Stock	Medium	N/A	
BDE - UNIT 7 EXCITER - RELAY,GROUND VOLTAGE	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - Main Moving Contacts	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - Main Fixed Contacts	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT CLOSING	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - COIL,SHUNT OPENING	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - Charging Motor	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - BREAKER,ABB EZNE1600MS4-B1	In Stock	High	N/A	
BDE - Unit 7 Generator Field Breaker - ARC CHUTE,ABB UXAB289199215	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - MOTOR,CHARGING	In Stock	Medium	N/A	
BDE - Unit 7 Generator Field Breaker - CONTACT,ABB UXAB239Z60R0	In Stock	Medium	N/A	
BDE - Unit 7 Control Board - BOARD,CONTROL	In Stock	Medium	N/A	
BDE - UNIT 7 HYDRAULIC GENERATOR - coolers	In Stock	High	N/A	
BDE - Unit 7 PMG - BEARING,SPEED SIGNAL	In Stock	Medium	N/A	
BDE - Unit 7 PMG - BUSHING, OILITE OVERSPEED SWITCH ASSEMBLY	In Stock	High	N/A	
BDE - Unit 7 PMG - PIN,DOWEL - SPEED SWITCH	In Stock	Medium	N/A	
BDE - Unit 7 PMG - PLATE,MOUNTING - MERCURY	In Stock	High	N/A	
BDE - Unit 7 PMG - RING,ROTOR	In Stock	High	N/A	
BDE - Unit 7 PMG - PIN,ROCKER ARM	In Stock	High	N/A	
BDE - Unit 7 PMG - BEARING,WW 1800125	In Stock	Medium	N/A	
BDE - Unit 7 PMG - BEARING,WW 111006	In Stock	Medium	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
BDE - Unit 7 PMG - BEARING,PMG P/N Z995205	In Stock	Medium	N/A	
BDE - Unit 7 PMG - PIN,BALLARM	In Stock	High	N/A	
BDE - Unit 7 PMG - BUSHING,URETHANE UPPER D	In Stock	Medium	N/A	
BDE - Unit 7 PMG - BUSHING,URETHANE LOWER D	In Stock	Medium	N/A	
BDE - Unit 7 PMG - BALLARM,SPEED SWITCH	In Stock	High	N/A	
BDE - Unit 7 PMG - PIN,TAPERED	In Stock	Medium	N/A	
BDE - Unit 7 PMG - SPRING,SPEED SWITCH	In Stock	High	N/A	
BDE - Unit 7 PMG - STATOR,P.M.G.	In Stock	High	N/A	
BDE - Unit 7 VIBRATION MONITORING - PICK-UP,NON-CONTACT	In Stock	Medium	N/A	
BDE - Unit 7 VIBRATION MONITORING - PICK-UP,SPEED SENSING	In Stock	Medium	N/A	
BDE - Unit 7 VIBRATION MONITORING - POWER SUPPLY,IRD PCB 29128	In Stock	High	N/A	
BDE - Unit 7 GENERATOR COOLING WATER SYSTEM - TRANSMITTER,DIFF	In Stock	Medium	N/A	
BDE - Unit 7 WICKET GATES - GATE, WICKET	In Stock	High	N/A	
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Collector rings	In Stock	High	N/A	
BDE - Unit 7 SLIPRING/BRUSH RIGGING - Brushes	In Stock	Medium	N/A	
BDE - Unit 7 SURFACE AIR COOLERS - Tubes	In Stock	Medium	N/A	
BDE - Unit 7 THRUST/GUIDE BEARING COOLERS - Coolers	In Stock	High	YES	Have used spares in poor condition. Replacement is planned for capital application
BDE - Unit 7 NEUTRAL GROUND TRANSFORMER - transformer	In Stock	Medium	N/A	
BDE - Unit 7 ROTOR - Pole	In Stock	High	N/A	
BDE - Unit 7 STATOR WINDINGS - Stator Bars	In Stock	High	N/A	
BDE - Unit 7 STATOR WINDINGS - Wedges	In Stock	High	N/A	
BDE - Unit 7 TURBINE GUIDE BEARING - bearing	In Stock	High	YES	Needs to be refurbished. Planned for capital application
BDE - Unit 7 GENERATOR GUIDE BEARING - segments	In Stock	High	N/A	
BDE - Unit 7 THRUST BEARING - Thrust Pads	In Stock	High	N/A	
BDE - Unit 7 THRUST BEARING - Rotating Ring	In Stock	High	N/A	
BDE - PANEL STATION SERVICE - PH #2 - ACB	In Stock	High	YES	
CAT - ACCUMULATOR TANK - COIL AUTO AIR CHARGING SOLND	In Stock	High	N/A	
CAT - Governor Control System - CABLE DEFLECTOR FDBK AMP	In Stock	High	N/A	
CAT - Governor Control System - CABLE FEEDBACK 20'	In Stock	High	N/A	
CAT - Governor Control System - CABLE FEEDBACK 200'	In Stock	High	N/A	
CAT - Governor Control System - CABLE FEEDBACK 50'	In Stock	High	N/A	
CAT - Governor Control System - CABLE,NEEDLE FDBK AMP,	In Stock	High	N/A	



Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
CAT - Governor Control System - CABLE PROPORTIONAL VLV	In Stock	High	N/A	
CAT - Governor Control System - CABLE90 DEG.5' ZVPU,	In Stock	High	N/A	
CAT - Governor Control System - Power Supply	In Stock	Medium	N/A	
CAT - Governor Control System - Power Supply 24V	In Stock	Medium	N/A	
CAT - Governor - JOINT,UNIVERSAL SSG #1787058	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Tip	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Shuttle Valve	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Casing guide U/S	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Casing guide D/S	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Needle seat	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - BUSHING NOZZLE 374527007/P001	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT,	In Stock	Medium	N/A	
CAT - NEEDLE VALVE ASS (6) - CABLE AIRCRAFT 20,	In Stock	Medium	N/A	
CAT - NEEDLE VALVE ASS (6) - CHAIN,DBS FCS-A1-15	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - CONTROL DEVICE,NEEDLE	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - CONNECTOR, MINIATURE CHAIN	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - Amplifer/proportional	In Stock	High	N/A	
CAT - NEEDLE VALVE ASS (6) - seal piston ring	In Stock	Medium	N/A	
CAT - NEEDLE VALVE ASS (6) - Seal	In Stock	Medium	N/A	
CAT - Electronic Governor - BUSHING CABLE PROP VLV,	In Stock	High	N/A	
CAT - Electronic Governor - CONNECTOR,MLDT ROD BALL	In Stock	High	N/A	
CAT - Electronic Governor - CONVERTER,SERIAL/ETHERNET	In Stock	High	N/A	
CAT - Electronic Governor - HOLDER,CIRCUIT BREAKER	In Stock	High	N/A	
CAT - Electronic Governor - INTERFACE,ETHERNET VERSA	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,GE AMPLIFIER	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,GE PT INTERFACE	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,PLUG-IN DIODE	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,VERSAMAX 16 PT	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,VERSAMAX 32 PT	In Stock	High	N/A	
CAT - Electronic Governor - MODULE,VERSAMAX 4 AO	In Stock	High	N/A	
CAT - Electronic Governor - PC,ATLAS VX WORKS	In Stock	High	N/A	
CAT - Electronic Governor - VERSAMAX powersupply	In Stock	High	N/A	
CAT - Electronic Governor - PROBE,SPEED ZVPU	In Stock	High	N/A	
CAT - Electronic Governor - RELAY,14 PIN PLUG 24VDC	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
CAT - Electronic Governor - LVDT deflector	In Stock	High	N/A	
CAT - Electronic Governor - Pos.Xducer	In Stock	High	N/A	
CAT - Electronic Governor - POs.Xducer	In Stock	High	N/A	
CAT - Electronic Governor - Deflector proportional	In Stock	High	N/A	
CAT - Electronic Governor - Rod vdeflector	In Stock	High	N/A	
CAT - Electronic Governor - PC, Atlas 2	In Stock	High	N/A	
CAT - Electronic Governor - Guide Ball Slide	In Stock	High	N/A	
CAT - Governor Hydraulics - ELEMENT,FILTER SM 10	In Stock	Medium	N/A	
CAT - Governor Hydraulics - ELEMENT,FILTER SM 25	In Stock	Medium	N/A	
CAT - Governor Hydraulics - DEFLECTOR,SERVOMOTOR	In Stock	High	YES	Planned for capital application
CAT - Governor Hydraulics - PLUG,C/V 010168-390-163	In Stock	High	N/A	
CAT - Governor Hydraulics - PLUG,C/V 021002-281-208	In Stock	High	N/A	
CAT - Governor Hydraulics - PLUG,ESCHER WYSS	In Stock	High	N/A	
CAT - Governor Hydraulics - Deflector valve	In Stock	High	N/A	
CAT - Governor Hydraulics - Piston seal 725X8 X3/8	In Stock	Medium	N/A	
CAT - Governor Hydraulics - Piston seal 9X8X1/2	In Stock	Medium	N/A	
CAT - Governor Hydraulics - Seal	In Stock	Medium	N/A	
CAT - Governor Hydraulics - Pressure Switch	In Stock	Medium	N/A	
CAT - Governor Hydraulics - OIL,TURBINE 46 (205L)	In Stock	Medium	N/A	
CAT - POWER TUNNEL (ROCKCUT) - Seal, Adit Door	In Stock	High	N/A	
CAT - ROTOR - GENERATOR - Pole	In Stock	High	N/A	
CAT - Turbine - Runner	In Stock	High	N/A	
CAT - GENERATOR - MODULE,TYP 1CD 108 M 2-02 vibro-meter	In Stock	Medium	N/A	
CAT - GENERATOR - OVERCURRENT relay	In Stock	Medium	N/A	
CAT - GENERATOR - RELAY,TIME DELAY .6 - 1.0	In Stock	Medium	N/A	
CAT - GENERATOR - rotating ring	In Stock	High	N/A	
CAT - GENERATOR - INSLTR,SLIP RING	In Stock	Medium	N/A	
CAT - GENERATOR - Brake ring	In Stock	High	N/A	
CAT - GENERATOR - Brake valve	In Stock	High	N/A	
CAT - GENERATOR - Brake Solenoid	In Stock	High	N/A	
CAT - Isolated Phase Bus - PT fuse	In Stock	Medium	N/A	
CAT - STATION SERVICE SYSTEM - COIL,CLOSING 129 V DC	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Arc Chute	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Trip Coil	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
CAT - STATION SERVICE SYSTEM - Main Drawout Contact	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Contact Moving Arc	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Contat Stationary Arc	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Undervoltage Coil	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - Contact 1600Amp	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - CT 400-800	In Stock	High	N/A	
CAT - STATION SERVICE SYSTEM - CT 800-1600	In Stock	High	N/A	
CAT - SURFACE AIR COOLERS - Surface Air Cooler	In Stock	High	N/A	
CAT - Generator Bearing - Cooler	In Stock	High	YES	Have used spares in poor condition. Replacement is planned for capital application
CAT - Stator Assembly - BAR STATOR BOTTOM,	In Stock	High	N/A	
CAT - Stator Assembly - BAR STATOR TOP,	In Stock	High	N/A	
CAT - Stator Assembly - CAP STATOR WINDING END,	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR ASM 105	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR ASM 107	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR ASM 108	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR ASM 109	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - Stator Assembly - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - Stator Assembly - Wedge	In Stock	High	N/A	
CAT - Stator Assembly - Wedge	In Stock	High	N/A	
CAT - Stator Assembly - Connector	In Stock	High	N/A	
CAT - Stator Assembly - Slider	In Stock	High	N/A	
CAT - Stator Assembly - Slider	In Stock	High	N/A	
CAT - Stator Assembly - Slider	In Stock	High	N/A	
CAT - Exciter # 1 - COIL,SHUNT CLOSING	In Stock	High	N/A	
CAT - Exciter # 1 - COIL,SHUNT OPENING	In Stock	High	N/A	
CAT - Exciter # 1 - CONTACT,ISOLATING	In Stock	High	N/A	
CAT - Exciter # 1 - MODULE,THYRISTOR BRIDGE	In Stock	High	N/A	
CAT - Exciter # 1 - SUPPLY,110-220 VOLT	In Stock	High	N/A	
CAT - Exciter # 1 - Breaker	In Stock	High	N/A	
CAT - Exciter # 1 - Arc Chute	In Stock	High	N/A	
CAT - Exciter # 1 - Control Board	In Stock	High	N/A	
CAT - Exciter # 1 - I/O ANALOG BOARD CONTROL,	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
CAT - Exciter # 1 - DIGITAL I/O BOARD,	In Stock	High	N/A	
CAT - Exciter # 1 - PANEL,CONTROL	In Stock	High	N/A	
CAT - Exciter # 1 - BOARD POWER SYSTEM STABI,	In Stock	High	N/A	
CAT - Exciter # 1 - BOARD MEASURING,	In Stock	High	N/A	
CAT - Exciter # 1 - MOTOR,CHARGING	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CONTROL BOARD,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB HIER319619R2,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB KX9170A V1,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN 2010B-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UNC001D-E,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UNS0026A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD\ ABB UN0014B-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0016A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0025A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0026A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0027A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0031A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN004A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0079A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0083A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0089A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0091A-P,CARD ABB UN0093A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0503A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Unitrol Card	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Thyristor	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Transformer	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Field Voltage Transducer	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Shunt Voltlage Transducer	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Analog Input Transducer	In Stock	High	N/A	
CAT - EXCITER NO. 2 - Fuse 600Amp	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0510C-9,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0516A,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0900B-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN0901B-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN1001C-P,	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
CAT - EXCITER NO. 2 - CARD ABB UN1004A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - COIL,SHUNT CLOSING	In Stock	High	N/A	
CAT - EXCITER NO. 2 - COIL,125 VOLT 60HZ	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD\ ABB UN1004A-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB UN1024C-P,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD ABB 1WX 174-2,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD BBC UN0077AP,	In Stock	High	N/A	
CAT - EXCITER NO. 2 - CARD,BBC UN2001F-P	In Stock	High	N/A	
CAT - BREAKERS BY BROWN BOVERI, 600V - spare field breaker in used spare exciter	In Stock	High	N/A	
CAT - Slipring/brush Rigging Assembly - Ring, Collector Assembly	In Stock	High	N/A	
CAT - Slipring/brush Rigging Assembly - Brushes	In Stock	Medium	N/A	
CAT - Slipring/brush Rigging Assembly - Brush Holder	In Stock	High	N/A	
CAT - Slipring/brush Rigging Assembly - Insulator	In Stock	High	N/A	
CAT - Governor Pumps - Pump	In Stock	High	N/A	
CAT - Governor Pumps - INSERT,CURVED JAW SPIDER	In Stock	High	N/A	
CAT - Rotor Poles - Entire Pole	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR ASM 105	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR ASM 107	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR ASM 108	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR ASM 109	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - Stator Windings - JUMPER,STATOR WINDING	In Stock	High	N/A	
CAT - THRUST BEARING - thrust pads	In Stock	High	N/A	
CAT - Turbine Guide Bearing - Bearing	In Stock	High	N/A	
CAT - Guide Bearing Segments - Bearing	In Stock	High	N/A	
CAT - Thrust Bearing Segements - Segments	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - PUMP UNLOADER,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - COILDASHPOT,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL OIL PUMP UNLOADER SOLND. ,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL PARTIAL SHUTDOWN RESET ,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL SHUTDOWN SOLENOID 65SD ,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - COIL RESET SOLENOID ,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447- 634,motor	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
HLK - GOVERNOR HYDRAULIC SYSTEM - WOODWARD 1447-640,MOTOR	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - GATE LIMIT,ROD,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - UNLOADER PISTON,	In Stock	High	N/A	
HLK - GOVERNOR HYDRAULIC SYSTEM - filter	In Stock	High	N/A	
HLK - GOVERNOR ACCUMULATOR TANK - SWITCH PRESS OIL ALARM,	In Stock	High	N/A	
HLK - GOVERNOR ACCUMULATOR TANK - Air admission solenoid	In Stock	High	N/A	
HLK - GOVERNOR SPEED GENERATOR - GEAR,WOODWARD 1447-640	In Stock	High	N/A	
HLK - GOVERNOR SPEED GENERATOR - gear drive	In Stock	High	N/A	
HLK - MECHANICAL GOVERNOR CONTROLS - Motor limit	In Stock	High	N/A	
HLK - MECHANICAL GOVERNOR CONTROLS - Motor speeder	In Stock	High	N/A	
HLK - MECHANICAL GOVERNOR CONTROLS - Unloader timing valve	In Stock	High	N/A	
HLK - OPERATING RING - Bearing pads	In Stock	High	N/A	
HLK - SERVOMOTOR #1 - servomotor repair kit	In Stock	High	N/A	
HLK - SERVOMOTOR ASSEMBLY - shear pins	In Stock	High	N/A	
HLK - Rotor Assembly - HLK Generator - Rotor pole	In Stock	High	N/A	
HLK - TURBINE - Carbon seal,	In Stock	High	N/A	
HLK - TURBINE - BEARING SEGMENT TURBINE,	In Stock	High	N/A	
HLK - TURBINE - PLATE BEARING,	In Stock	High	N/A	
HLK - TURBINE - SEAL TURBINE,	In Stock	High	N/A	
HLK - TURBINE - Wicket gate lever	In Stock	High	N/A	
HLK - TURBINE - Friction hub	In Stock	High	N/A	
HLK - TURBINE - Friction hub	In Stock	High	N/A	
HLK - TURBINE - Packing box	In Stock	High	N/A	
HLK - TURBINE - link thin	In Stock	High	N/A	
HLK - TURBINE - link thick	In Stock	High	N/A	
HLK - TURBINE - wicket gate seal	In Stock	High	N/A	
HLK - TURBINE - Dowel	In Stock	High	N/A	
HLK - TURBINE - Link pin	In Stock	High	N/A	
HLK - TURBINE - Eccentric pin	In Stock	High	N/A	
HLK - WICKET GATES - wicket gate	In Stock	High	N/A	
HLK - GENERATOR - brake shoes	In Stock	High	N/A	
HLK - GENERATOR - SOLENOID,GENERATOR AIR VALVE,	In Stock	High	N/A	
HLK - GENERATOR - Generator air valve	In Stock	High	N/A	
HLK - HEADCOVER ASSEMBLY - SEAL TURBINE,	In Stock	High	N/A	
HLK - HEADCOVER ASSEMBLY - SEALWICKET GATE,	In Stock	High	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
HLK - HEADCOVER ASSEMBLY - BUSHING 60X75 MM,	In Stock	High	N/A	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - LOWER,	In Stock	High	N/A	
HLK - HEADCOVER ASSEMBLY - BUSHING GATE STEM - UPPER,	In Stock	High	N/A	
HLK - HEADCOVER ASSEMBLY - Bushing upper	In Stock	High	N/A	
HLK - INTAKE HEADGATE AND HOIST EQUIP - Pressure druk	In Stock	Medium	N/A	
HLK - STATION SERVICE SWITCHGEAR - Breaker (EATON)	In Stock	High	N/A	
HLK - Thrust/Guide Bearing Coolers - Hi pressure lift pump	In Stock	High	N/A	
HLK - ISOLATED PHASE BUS - PT fuse	In Stock	High	N/A	
HLK - STATOR ASSEMBLY - Stator connection caps	In Stock	High	N/A	
HLK - STATOR ASSEMBLY - Stator bars	In Stock	High	N/A	
HLK - EXCITATION - Bridge (entire module)	In Stock	High	N/A	
HLK - Slipring /Brush Rigging - Carbon brush	In Stock	Medium	N/A	
HLK - Slipring /Brush Rigging - Brush holder	In Stock	High	N/A	
HLK - Rotor - Pole	In Stock	High	N/A	
HLK - STATOR WINDINGS - UNIT 1 - robel bars	In Stock	High	N/A	
HLK - TURBINE GUIDE BEARING - BEARING, Segment TURBINE	In Stock	High	N/A	
HLK - GUIDE BEARING SEGMENTS (SET) - BEARING,SEGMENT	In Stock	High	N/A	
HLK - HD-1N - HINDS LAKE INTAKE - TRANSMITTER,PRESS 0-375	In Stock	Medium	N/A	
HLK - THRUST BEARING SEGMENTS (SET) - Thrust Bearing Segments	In Stock	High	N/A	
HLK - UPPER GUIDE BEARING SEGMENTS - Upper Guide Bearing Segments	In Stock	High	N/A	
HLK - IN FRAZIL ICE SYS - INTAKE - TRANSMITTER,TEMPERATURE	In Stock	Medium	N/A	
HLK - GOVERNOR SPEED GENERATOR - Speed switch bracket	In Stock	High	NO	
GCL - Governor Control System - Pressure Switch	In Stock	Medium	N/A	
GCL - Governor Control System - POWER SUPPLY,18-32VDC	In Stock	Medium	N/A	
GCL - Governor Control System - TRANSMITTER,PRESS 0-2000	In Stock	Medium	N/A	
GCL - Governor Control System - TRANSMITTER,TEMP 4-20 MA	In Stock	Medium	N/A	
GCL - Governor Hydraulic System - Filter, Element NS-7	In Stock	Medium	N/A	
GCL - Governor Hydraulic System - Joint, Shaft Parker	In Stock	Medium	N/A	
GCL - Governor Hydraulic System - Pump, Vane Vick	In Stock	High	N/A	
GCL - Governor Hydraulic System - Seal, Polypak "U" Cup	In Stock	Medium	N/A	
GCL - Governor Hydraulic System - Valve, Relief	In Stock	High	N/A	
GCL - Governor Hydraulic System - Valve, Check 1 6000 psi	In Stock	Medium	N/A	
GCL - Governor Hydraulic System - Valve, Proportional	In Stock	High	N/A	
GCL - Operating Ring - Washer, Ring Seal	In Stock	Medium	N/A	
GCL - Operating Ring - BUSHING,GE 226043126X015	In Stock	Medium	N/A	

Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
GCL - Servomotor - Rod, Seal H254-918	In Stock	Medium	N/A	
GCL - Servomotor - Rod, Seal H092-730	In Stock	Medium	N/A	
GCL - Servomotor Assembly - Ring, Piston GE	In Stock	High	N/A	
GCL - Speed Signal Generator - Pickup, Zero Velocity	In Stock	High	N/A	
GCL - Turbine Assembly - Packing Ring, Segment	In Stock	Medium	N/A	
GCL - Turbine Assembly - Pad, Stop GE	In Stock	High	N/A	
GCL - Turbine Assembly - Seal, Inflatable	In Stock	High	N/A	
GCL - Turbine Assembly - Transmitter, Pressure GE	In Stock	Medium	N/A	
GCL - Turbine Assembly - Transmitter, Pressure -5TO55	In Stock	Medium	N/A	
GCL - Turbine Assembly - Transmitter, Pressure 0-90 PSIG	In Stock	Medium	N/A	
GCL - Turbine Assembly - Transmitter, Diff Pressure	In Stock	Medium	N/A	
GCL - Turbine Assembly - Ring, Rotating GE	In Stock	High	N/A	
GCL - Turbine Assembly - Ring, Sealing C/W Spring	In Stock	High	N/A	
GCL - Turbine Assembly - Ring, Wear	In Stock	High	N/A	
GCL - Turbine Assembly - Valve, Check Wafer 12"D	In Stock	Medium	N/A	
GCL - Wicket Gates - Bushing, GE 226043126X015	In Stock	Medium	N/A	
GCL - Wicket Gates - Gate, Wicket GE	In Stock	High	N/A	
GCL - Wicket Gates - Level, Gate GE	In Stock	High	N/A	
GCL - Wicket Gates - Lever, Shear GE	In Stock	High	N/A	
GCL - Wicket Gates - Liner, Gate Operating	In Stock	High	N/A	
GCL - Wicket Gates - Link, GE	In Stock	High	N/A	
GCL - Wicket Gates - Pin, Eccentric	In Stock	High	N/A	
GCL - Wicket Gates - Pin, Shear GE	In Stock	High	N/A	
GCL - Wicket Gates - Pin, Taper GE	In Stock	High	N/A	
GCL - Wicket Gates - Plate, Retaining GE	In Stock	High	N/A	
GCL - Wicket Gates - Plate, Top GE	In Stock	High	N/A	
GCL - Wicket Gates - Shim, Laminum	In Stock	Medium	N/A	
GCL - Wicket Gates - Sleeve, BRS 210mm	In Stock	Medium	N/A	
GCL - Wicket Gates - Spacer	In Stock	Medium	N/A	
GCL - Generator - Top Stator Bars (36)	In Stock	High	N/A	
GCL - Generator - Bottom Stator Bars (18)	In Stock	High	N/A	
GCL - Generator - Guide Bearing, GE	In Stock	High	N/A	
GCL - Generator - Converter, RTD Temperature	In Stock	High	N/A	
GCL - Generator - Converter, RTD Universal	In Stock	High	N/A	
GCL - Generator - Creep Detector ASSY, 129 V	In Stock	High	N/A	



Critical Spare Component	Stock Status	Risk Score	Spare Cost >\$50,000	Comments
GCL - Generator - Device, Surge Suppresion	In Stock	Medium	N/A	
GCL - Generator - Fuse, TEMP Limiter	In Stock	Medium	N/A	
GCL - Generator - Fuse, Voltage XFMR	In Stock	Medium	N/A	
GCL - Generator - Jumper, Pole ASM #1	In Stock	High	N/A	
GCL - Generator - Jumper Pole ASM #2	In Stock	High	N/A	
GCL - Generator - Jumper Pole ASM #3	In Stock	High	N/A	
GCL - Generator - Jumper Pole ASM #4	In Stock	High	N/A	
GCL - Generator - Level, Indicator Magnetic	In Stock	High	N/A	
GCL - Generator - Oil, Turbine 46 (205L)	In Stock	Medium	N/A	
GCL - Generator - Packing, V-Type GE	In Stock	Medium	N/A	
GCL - Generator - Pin, Taper 25MM x 90MM	In Stock	Medium	N/A	
GCL - Generator - Plate, Brake GE	In Stock	High	N/A	
GCL - Generator - Plate, Locating Pivoted	In Stock	High	N/A	
GCL - Generator - Pole, Wound GE	In Stock	High	N/A	
GCL - Generator - Probe, 741 GE	In Stock	High	N/A	
GCL - Generator - RTD, 12.5" -50-550 DEG	In Stock	High	N/A	
GCL - Generator - RTD, 17" -50-550 DEG C	In Stock	High	N/A	
GCL - Transmitter, PFM	In Stock	Medium	N/A	
GCL - Transmitter, Temp 4-20 MA	In Stock	Medium	N/A	
GCL - Switch, Press 200 PSI 15A	In Stock	Medium	N/A	
GCL - Switch, 20-160 ABB 104-324-46	In Stock	Medium	N/A	
GCL - Thermometer, ADJ 0-55	In Stock	Medium	N/A	
GCL - Transducer, Balluff Track	In Stock	High	N/A	
GCL - Shim, GE 007	In Stock	Medium	N/A	
GCL - Shim, GE 008	In Stock	Medium	N/A	
GCL - Shoe, brake GE 6201B6815L005	In Stock	High	N/A	
GCL - Spring, GE	In Stock	Medium	N/A	
GCL - Valve, Purge GE	In Stock	High	N/A	
GCL - Washer, Brake Plate	In Stock	Medium	N/A	
GCL - Washer, GE 105000100	In Stock	Medium	N/A	
GCL - Ring Assy, Collector	In Stock	High	N/A	
GCL - Stick, Joint Horz	In Stock	Medium	N/A	
GCL - Stick, Joint Vert	In Stock	Medium	N/A	
GCL - Switch, Press Actuated	In Stock	Medium	N/A	
GCL - Switch, Press Gran 20W	In Stock	Medium	N/A	

<b>Critical Spare Component</b>	<b>Stock Status</b>	<b>Risk Score</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Comments</b>
GCL - Seal, Top Guide Bearing	In Stock	Medium	N/A	
GCL - Runner - Seal, 770mm x 730mm x 25mm	In Stock	Medium	N/A	
GCL - Surface Air Coolers - Cooler, Surface Air	In Stock	High	N/A	
GCL - Thrust/Guide Bearing Coolers - Coil, Cooling GE	In Stock	High	YES	
BDE - RECTIFYING TRANSFORMER - Insulating Fluid	In Stock	Medium	NO	

<b>Critical Spare Component</b>	<b>Stock Status</b>	<b>Risk Score</b>	<b>Lead Time</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Status Update February 2015</b>	<b>Expected Delivery Date</b>
BDE - ISOLATED PHASE BUS - Surge Capacitor	Not in Stock	High	15wks	NO	Inventory addition form submitted	31-May-15
BDE - EXCITATION CONTROLS - Field Flashing Resistor	Not in Stock	High	TBD	NO	Inventory addition form submitted	31-May-15
BDE - UNIT 7 GOVERNOR - Unloader/Relief Valve	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
CAT - ACCUMULATOR TANK - Air Admission Valve	Not in Stock	High	TBD	NO	Inventory addition form submitted	31-Jul-15
HLK - CIRCUIT BREAKER - Primary disconnect	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
HLK - CIRCUIT BREAKER - Charging motor	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
HLK - CIRCUIT BREAKER - Motor brush kit	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
HLK - CIRCUIT BREAKER - Spring release coil	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
HLK - CIRCUIT BREAKER - Shunt trip coil	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15
HLK - CIRCUIT BREAKER - Anti-pump relay	Not in Stock	High	TBD	NO	Inventory addition form submitted	30-Apr-15

Critical Spare Component	Stock Status	Risk Score	Lead Time	Spare Cost >\$50,000	Comments	Status Update February 2015	Expected Delivery Date
BDE - TURBINE GUIDE BEARING - oil cooler	Not in Stock	High	TBD	NO		Preparing technical spec	31-Oct-15
BDE - Unit 7 13.8 KV DISCONNECTS - contacts	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 13.8 KV DISCONNECTS - jaws	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 DISCONNECT SWITCHES - contacts	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 DISCONNECT SWITCHES - jaws	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 STATOR WINDINGS - Circuit Ring Jumpers	Not in Stock	High	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 GATE HOIST - brake shoes	Not in Stock	High	TBD	NO		Consulting with supplier	31-Oct-15
BDE - Unit 7 GATE HOIST - Brake Solenoid	Not in Stock	High	TBD	NO		Consulting with supplier	31-Oct-15
CAT - Governor Hydraulics - Cooler	Not in Stock	High	TBD	NO		Preparing technical spec	31-Oct-15
CAT - BRAKING JET ASSEMBLY - Control Valve	Not in Stock	High	TBD	TBD		Consulting with supplier	31-Oct-15
CAT - EXCITATION TRF - Transformer CORE	Not in Stock	High	TBD	TBD		Consulting with supplier	31-Oct-15
CAT - Disconnect - contacts	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
CAT - Disconnect - jaws	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
HLK - GOVERNOR HYDRAULIC SYSTEM - Main valve	Not in Stock	High	TBD	TBD		Consulting with supplier	31-Oct-15
HLK - GOVERNOR ACCUMULATOR TANK - Solenoid valve	Not in Stock	High	TBD	NO		Consulting with supplier	31-Oct-15
HLK - STATION SERVICE SWITCHGEAR - Breaker (Federal Pioneer)	Not in Stock	High	TBD	TBD	Discontinued breaker model.	Consulting with supplier	late 2015.
HLK - SURFACE AIR COOLERS - Cooler	Not in Stock	Medium	TBD	TBD		Engineering Required	Q4 2020
HLK - EXCITER FIELD BREAKER - Entire unit	Not in Stock	High	20 wks	TBD		Consulting with supplier	31-Aug-15
HLK - RECTIFYING TRANSFORMER - Core	Not in Stock	High	20 wks	TBD		Preparing technical spec	31-Oct-15
HLK - UNIT DISCONNECTS - Contacts	Not in Stock	Medium	TBD	NO		Consulting with supplier	31-Oct-15
HLK - STN SERVICE TRANSFORMER (SST-1) - Entire unit	Not in Stock	High	18wks	TBD		Preparing technical spec	31-Oct-15
GCL - 13.8 kv bus duct - Insulators	Not in Stock	High	TBD	NO		Consulting with supplier	31-Oct-15

<b>Recommended Component</b>	<b>Stock Status</b>	<b>Risk Score</b>	<b>Lead Time</b>	<b>Spare Cost &gt;\$50,000</b>	<b>Status Update February 2015</b>	<b>Expected Delivery Date</b>
BDE - Unit 7 RECTIFYING TRANSFORMER - Full Unit	Not in Stock	Medium	20 weeks	YES	Added to the capital plan	1-Nov-17
HLK - CIRCUIT BREAKER - VCP-WG, 4000A vacuum breaker	Not in Stock	Medium	18wks	YES	In Capital Plan for 2018 purchase	Early Q4 in 2018
HLK - Thrust/Guide Bearing Coolers - Cooler	Not in Stock	Medium	18wks	YES	In Capital Plan for 2020 purchase	Q4 in 2020
HLK - UPPER GUIDE BEARING COOLERS - Cooler	Not in Stock	Medium	TBD	TBD	In Capital Plan for 2020 purchase	Q4 in 2020
HLK - Slipring /Brush Rigging - Slipring	Not in Stock	Medium	TBD	NO	In Capital Plan for 2017 purchase	Early Q4 in 2017