

July 25, 2014

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: The Board's Investigation and Hearing into Supply Issues and Power Outages
on the Island Interconnection System**

In accordance with the Board's Interim Report dated May 15, 2014 with respect to the above noted matter please find enclosed the original plus 12 copies of Hydro's:

- Updated Integrated Action Plan;
- 100 MW Combustion Turbine Status Briefing; and
- SSD T1 Replacement Status Briefing.

Hydro's Integrated Action Plan (IAP) has been streamlined in an effort to improve our tracking of related items in the IAP, while at the same time making our reporting format as meaningful as possible for the Board. The following modifications have been made with these objectives in mind:

- a) Actions which are the same as, or highly related to, another action in the IAP have been consolidated into a single action statement. This will not only eliminate unnecessary duplication within the IAP, but will also improve both Hydro's and the Board's line of sight to the key underlying actions. All IAP actions have been accounted for in this consolidation, except for two items which were deleted because they did not state substantive actions (AM4 and AM6).
- b) All action item descriptions have been reviewed and revised as necessary, without changing the intent of any action item, to ensure that the required deliverable(s) is clear.
- c) Actions which have previously referenced the submission of reports and plans to the Board (e.g., by June 15th) have been re-stated in reference to the specific actions contained in the reports and plans submitted to the Board on June 2 and June 16, 2014.

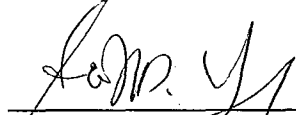
- d) The IAP actions which correspond with the Key Priority Actions indicated in the Board's Interim Report (Section 8.1) are highlighted for easy reference at the beginning of each section of the IAP.

We hope to make further refinements to our reporting to the Board prior to the next IAP update, for example, by indicating progress relative to plan in relation to critical 2014 activities.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO



Geoffrey P. Young
Senior Legal Counsel

GPY/cp

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

100 MW Combustion Turbine

Status Briefing– July 23 2014

Boundless Energy



Contents

- Project Dashboard
- Progress & Schedule Summary
- Contracting Plan
- Risk Analysis
- Project Photos

Project Dashboard

The project is progressing according to plan and in compliance with Safety, Quality, Schedule, and Cost.



Progress & Schedule Summary

1. Excavation for Combustion Turbine Area and Fuel Storage Tank Area is complete
2. Placement of engineered backfill for structural foundations is complete
3. Foundation for Fuel Storage Tank #1 is complete
4. Foundation for Fuel Storage Tank #2 is nearing completion on schedule

Progress & Schedule Summary

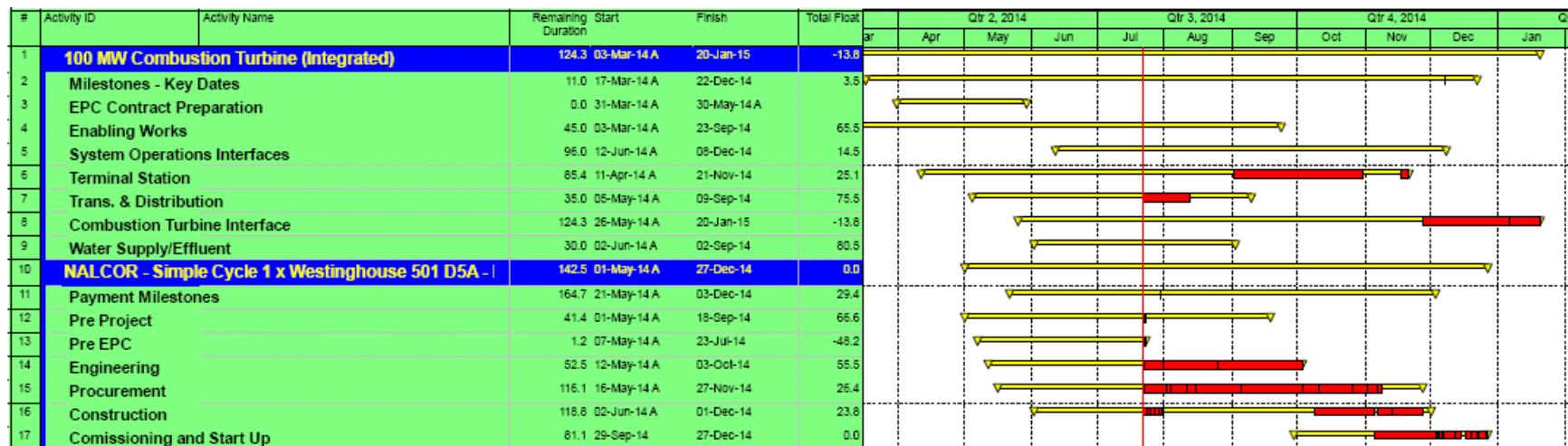
5. Generator Step Up Transformer Foundation is nearing completion on schedule
6. Duct Banks for Combustion Turbine Generator Installation are complete
7. Foundation for combustion turbine generator is complete.
8. All major contracts are awarded (see enclosed contracting plan)
9. Orders are placed for all long lead items

Progress & Schedule Summary

10. Transmission Line construction has started on schedule.
11. Shipment of combustion turbine and major components arrived in NL on July 19, 3 weeks ahead of schedule.
12. Overall schedule is tracking in accordance with plan and ready for service date remains December 2014. See attached schedule showing progress to date.

Level 2 – Summary Schedule

- See attached full detail schedule for more information on specific tasks



Contracting Plan

Item	Contract Title	Scope of Work	Contractor	Scheduled Start Date	Scheduled Finish Date	Construction Status
1	EPC for 100MW CTG	Engineering, Procurement, and Construction Services for: 100 MW (Nominal) Combustion Turbine Generator Generator Step-up Transformer Combustion Turbine Generator Building Mechanical Balance of Plant Electrical Balance of Plant Balance of Plant Control System Remote Operation Capability Combustion Turbine Black Start Capability Civil/Structural Work; and Start-up Commissioning	ProEnergy	Jun 9/14	Dec 27/14	Ongoing
2	Site Prep Work for 100 MW CTG	Prep work for the construction site, trailer park, equipment laydown, & parking areas. Note: The non-potable water line for the trailer park area will also be completed under this contract as an extra under the unscheduled allowance.	Eric Taylor	May 14/14	May 30/14	Complete
3	Relocate Overhead Lines Over Construction Site	Relocation of 6 poles & overhead power/communication lines that are on the construction site.	ICM	May 20/14	6-Jun	Complete
4	Relocate Overhead Lines Over Fuel Oil Storage/ Truck Turnaround Area	The poles/lines in the fuel oil storage & turnaround area will have to be relocated as well.	ICM	1-Jun	6-Jun	Complete
5	Construction Power	Provision of 600 V, 500 A, 3 phase power for the construction site. Provision of a single phone line & internet connection for the trailer park area. ProEnergy to advise on the power requirements for the trailer park area.	ICM	May 26/14	May 30/14	Complete

Contracting Plan

Item	Contract Title	Scope of Work	Contractor	Scheduled Start Date	Scheduled Finish Date	Construction Status
6	Holyrood Terminal Station Work	Civil work (foundation & structural work) for the installation of 230 kV breaker and disconnects. Installation of power, control, and instrument cables back to the HRDTS Control Room. Terminations on the yard end of the cables. Interconnection of the MODs with the 230 KV breaker. Pull cables into the building. Hydro will terminate on the P&C panel and run/terminate at the supervisory junction box.	Siemens (supply install breakers, installation of MOD) NGK - Supply insulators Mindcore - Supply MODs	Disconnects - June 24 TS Work - June 27	Oct 27/14	Design Complete. All equipment ordered. Construction Started
7	230 KV Transmission Line	Includes installation of poles, conductor, hardware to connect the high voltage side (230 KV) to the new 230 kV breaker in the Holyrood Terminal Station.	GJ Cahill	Jul 14/14	Sept 14/14	Construction Started
8	Raw Water/Effluent Interface Work	Includes a RAW water supply for the demin water skid and washroom facilities. Drain from oil water separator at the site boundary that will tie-into the plant sewer system. Sewer connection for the CTG washrooms.	TBD	Aug4/14	Sept 2/14	Tender to close July 24
9	Communications	Supply and install fibre optic cables and patch panels at 4 separate locations: HRD Plant commns room, HRD Plant Equipment Room, HRDTS Control Room, & the new CTG plant. A redundant ring will be created. Supply/install batteries & chargers.	CISCO	Aug 18/14	Dec 12/14	Tender to close July 24

Risk Analysis

A 3rd party facilitated risk workshop was held on June 26th.

Risk Register was produced during the workshop (see attached)

Risk mitigation plan in place and being used to manage risk during execution of the project.

Project Photos

Photo 1 – CTG Site - Holyrood



Photo 2 – CTG Foundation - Holyrood



Photo 3 – CTG Foundation Rebar and Conduit - Holyrood



Photo 4 – CTG Foundation Conduit - Holyrood



Photo 5 – CTG Site GSU Foundation - Holyrood



Photo 6 – Fuel Storage Area - Holyrood



Photo 7 – Fuel Storage Tank 1 Foundation - Holyrood



Photo 8 – Equipment Loadout - Houston



Photo 9 – Equipment Loadout - Houston



Photo 10 – Equipment Loadout - Houston



Photo 11 – Equipment Loadout - Houston



Photo 12 – Equipment Loadout - Memphis



Photo 13 – Equipment Loadout - Memphis



Photo 14 – Equipment Loadout - Memphis



Photo 15 – Equipment Loadout - Houston



Photo 16 – Equipment Loadout - Houston



Photo 17 – Black Start Generator – Sedalia, MO

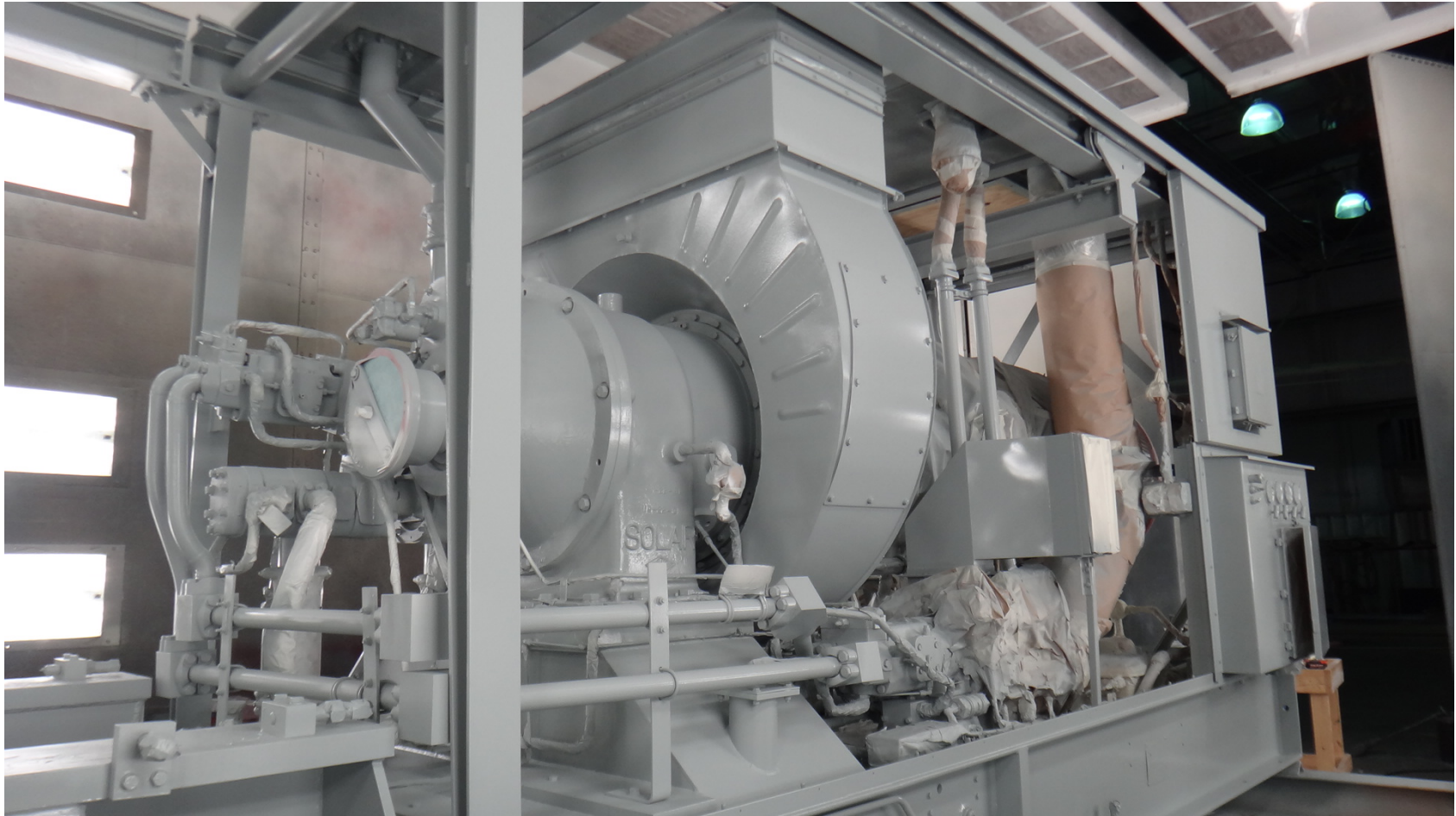


Photo 18 – Modular Power Distribution Centre – Sedalia, MO



Photo 20 – Modular Power Distribution Centre – Sedalia, MO



Photo 21 – CTG Offloaded – Bay Bulls, NL



Photo 22 – GSU Transformer Offloaded – Bay Bulls, NL



Photo 23 – CTG Equipment Offloaded – Bay Bulls, NL



Photo 24 – Cooler Offloading – Bay Bulls, NL

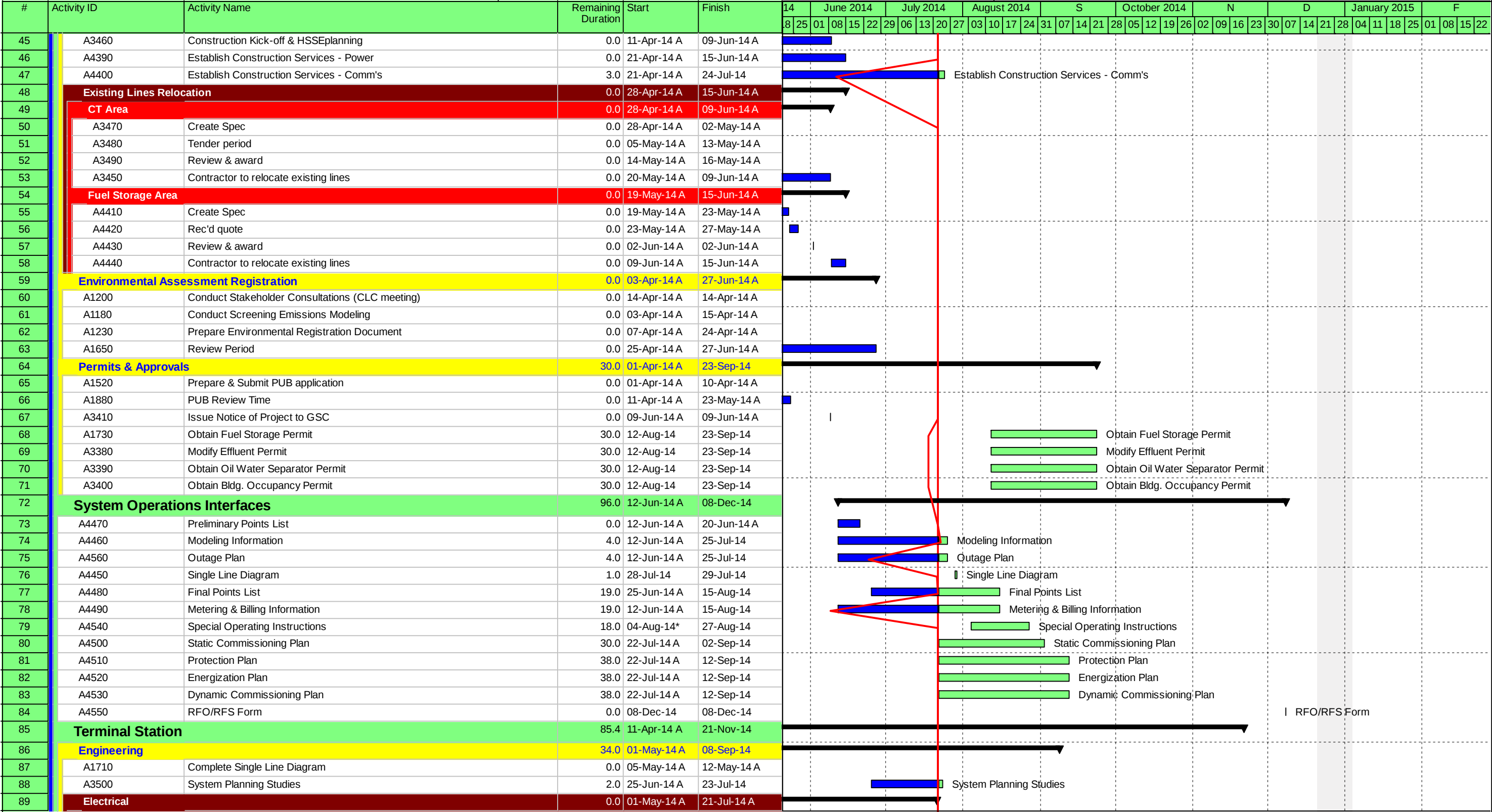


Detailed Schedule

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014					July 2014					August 2014					September 2014					October 2014					November 2014					December 2014					January 2015					February 2015				
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22					
1	100 MW Combustion Turbine (Integrated)			124.3	03-Mar-14 A	20-Jan-15																																													
2	Milestones - Key Dates			11.0	17-Mar-14 A	22-Dec-14																																													
3	A1470	Project Start	0.0	17-Mar-14 A																																															
4	A1450	BOD Approval Received	0.0		03-Apr-14 A																																														
5	A1460	Documents submitted to PUB	0.0		10-Apr-14 A																																														
6	A2590	Geo-Tech Survey Complete	0.0		23-Apr-14 A																																														
7	A1640	EA Registration Submitted to NL Gov't	0.0		25-Apr-14 A																																														
8	AKD70	Start of NLH design	0.0	05-May-14 A																																															
9	A1890	PUB Approval Received	0.0		07-May-14 A																																														
10	AKD90	NLH Mobilization to site	0.0	20-May-14 A																																															
11	A1660	Release From Further Environmental Assessment	0.0		27-Jun-14 A	◆ Release From Further Environmental Assessment																																													
12	A4350	Project Set-up Complete (Admin, Costs, Doc control, team)	0.0		11-Jul-14 A	◆ Project Set-up Complete (Admin, Costs, Doc control, team)																																													
13	A1800	In Service Date/Commercial Operation Date (COD)	0.0		07-Dec-14*																																														
14	AKD0030	Project Closeout	0.0		22-Dec-14																																														
15	EPC Contract			0.0	07-Apr-14 A	09-Jun-14 A																																													
16	A3190	EPC Tender Issued	0.0		07-Apr-14 A																																														
17	A3310	EPC Tender Closed	0.0		21-Apr-14 A																																														
18	AKD80	Start of EPC design	0.0	24-Apr-14 A																																															
19	AKD110	Release of Limited Notice to Proceed (EPC contract)	0.0	24-Apr-14 A																																															
20	A3200	EPC Contract Fully Awarded	0.0		16-May-14 A																																														
21	AKD100	EPC Mobilization to site	0.0	09-Jun-14 A		◆ EPC Mobilization to site																																													
22	EPC Contract Preparation			0.0	31-Mar-14 A	30-May-14 A																																													
23	A2650	Prepare EPC Contract Documents	0.0	31-Mar-14 A	04-Apr-14 A																																														
24	A2660	Tender Period	0.0	07-Apr-14 A	21-Apr-14 A																																														
25	A2670	Contract- Initial Evaluation	0.0	22-Apr-14 A	24-Apr-14 A																																														
26	A2640	Complete Final Tender Evaluation (T&C's, etc)	0.0	25-Apr-14 A	16-May-14 A																																														
27	A2680	Pre-Award Equipment Inspection	0.0	05-May-14 A	30-May-14 A																																														
28	Enabling Works			45.0	03-Mar-14 A	23-Sep-14																																													
29	Project Set-up & Admin			0.0	03-Mar-14 A	15-Jul-14 A																																													
30	A3350	Establish WBS	0.0	08-Apr-14 A	18-Apr-14 A																																														
31	A1100	Formalize Operating Parameters	0.0	03-Mar-14 A	25-Apr-14 A																																														
32	A1140	Set-up Project Administration System	0.0	21-Apr-14 A	09-May-14 A																																														
33	A1020	Populate Project Team	0.0	03-Mar-14 A	09-Jun-14 A																																														
34	A3330	Set-up Doc. Control System	0.0	09-Jun-14 A	16-Jun-14 A																																														
35	A1210	Perform Risk Assessment (NLH & EPC)	0.0	26-Jun-14 A	26-Jun-14 A																																														
36	A3320	Establish Project Offices	0.0	09-Jun-14 A	30-Jun-14 A																																														
37	A1110	Prepare Health & Safety & Security plan	0.0	14-Apr-14 A	02-Jul-14 A																																														
38	A3340	Set-up Project Controls system (Cost, schedule, meetings)	0.0	28-Apr-14 A	11-Jul-14 A																																														
39	A1160	Complete Project Strategy Document	0.0	02-Jun-14 A	15-Jul-14 A																																														
40	Pre-Construction Activities			3.0	31-Mar-14 A	24-Jul-14																																													
41	A3420	Conduct Site TOPO survey	0.0	11-Apr-14 A	17-Apr-14 A																																														
42	A1120	Conduct Geotechnical Survey	0.0	31-Mar-14 A	23-Apr-14 A																																														
43	A1150	Establish Construction Services - Water	0.0	21-Apr-14 A	09-Jun-14 A																																														
44	A3440	Establish Laydown area & parking & Construction offices	0.0	21-Apr-14 A	09-Jun-14 A																																														

100 MW Combustion Turbine Project

22-Jul-14



100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish
90	A4760	Specify Disconnects	0.0	01-Jun-14 A	20-Jun-14 A
91	A3240	Review Electrical Design done by Siemens	0.0	01-May-14 A	02-Jul-14 A
92	A4590	Vendor Breaker Design (Siemens)	0.0	25-Jun-14 A	21-Jul-14 A
93	P&C		18.0	01-May-14 A	14-Aug-14
94	A5400	Finalize Siemens Drawings	0.0	01-May-14 A	30-Jun-14 A
95	A4700	P&C Material Identification for Procurement	0.0	07-Jul-14 A	18-Jul-14 A
96	A4750	Review P&C Design on Bay 4	5.0	06-Aug-14	12-Aug-14
97	A4690	P&C Design for Terminal Station Work	16.0	30-Jun-14 A	12-Aug-14
98	A4710	Prepare detailed SCADA listing - TS	14.0	28-Jul-14*	14-Aug-14
99	Communications		34.0	25-Jun-14 A	08-Sep-14
100	A5700	Design New RTU Configuration	24.0	25-Jun-14 A	22-Aug-14
101	A5710	Develop RTU Work Package	5.0	25-Aug-14	29-Aug-14
102	A5720	Complete RTU PDU Testing	5.0	02-Sep-14	08-Sep-14
103	Civil		0.0	25-Jun-14 A	08-Jul-14 A
104	A3430	Civil Design (site layout, foundations & TS structures)	0.0	25-Jun-14 A	02-Jul-14 A
105	A3510	NL Hydro Review Civil Design	0.0	02-Jul-14 A	08-Jul-14 A
106	Procurement (Equipment)		60.0	11-Apr-14 A	15-Oct-14
107	Electrical		60.0	11-Apr-14 A	15-Oct-14
108	Breaker		39.0	11-Apr-14 A	15-Sep-14
109	A1920	Lead time of 230 kV Breaker (under existing Siemens contract #:2013-56265)	39.0	11-Apr-14 A	15-Sep-14*
110	Disconnect Switches		36.0	18-Jun-14 A	10-Sep-14
111	A2450	Prepare RFQ	0.0	18-Jun-14 A	20-Jun-14 A
112	A2470	Review & Approve CO to ProEnergy	0.0	23-Jun-14 A	24-Jun-14 A
113	A2440	Lead time of 230 kV Disconnect switches	36.0	24-Jun-14 A	10-Sep-14*
114	Insulators		60.0	18-Jun-14 A	15-Oct-14
115	A4570	Prepare RFQ	0.0	18-Jun-14 A	20-Jun-14 A
116	A4580	Review & Award PO (NGK)	0.0	20-Jun-14 A	20-Jun-14 A
117	A2460	Lead Time of 230 kV Insulators	60.0	24-Jun-14 A	15-Oct-14*
118	P&C		39.0	07-Jul-14 A	15-Sep-14
119	A5590	Breaker Fail Relay (50BF/B4B12) SEL 501	0.0	21-Jul-14 A	22-Jul-14 A
120	A6000	Aux. Relay Case	4.0	22-Jul-14 A	25-Jul-14
121	A5580	Inventory Misc. Items	9.0	07-Jul-14 A	01-Aug-14
122	A5900	Isolating Terminal Blocks (SJB)	9.0	21-Jul-14 A	01-Aug-14
123	A5600	Control Switches (open/close) (52CS-TS)	14.0	21-Jul-14 A	08-Aug-14
124	A5610	Control Switch (manual sync) (43M/IR)	14.0	21-Jul-14 A	08-Aug-14
125	A5980	Heat Shrink Tubing (wire label) Rolls	14.0	21-Jul-14 A	08-Aug-14
126	A6320	Breaker Fail Lockout Relay (86BF)	20.0	24-Jul-14*	20-Aug-14
127	A5620	Test Switches	29.0	21-Jul-14 A	29-Aug-14
128	A5640	Sliding Link Terminal Blocks (panels)	29.0	21-Jul-14 A	29-Aug-14
129	A5910	LEDs - Green	29.0	21-Jul-14 A	29-Aug-14
130	A5920	LEDs - Red	29.0	21-Jul-14 A	29-Aug-14
131	A5630	T Relay	39.0	21-Jul-14 A	15-Sep-14
132	Procurement (Install)		0.0	25-Jun-14 A	16-Jul-14 A
133	Electrical		0.0	25-Jun-14 A	16-Jul-14 A
134	A2480	Review & award CO under existing Siemens contract #:2013-56265	0.0	25-Jun-14 A	09-Jul-14 A

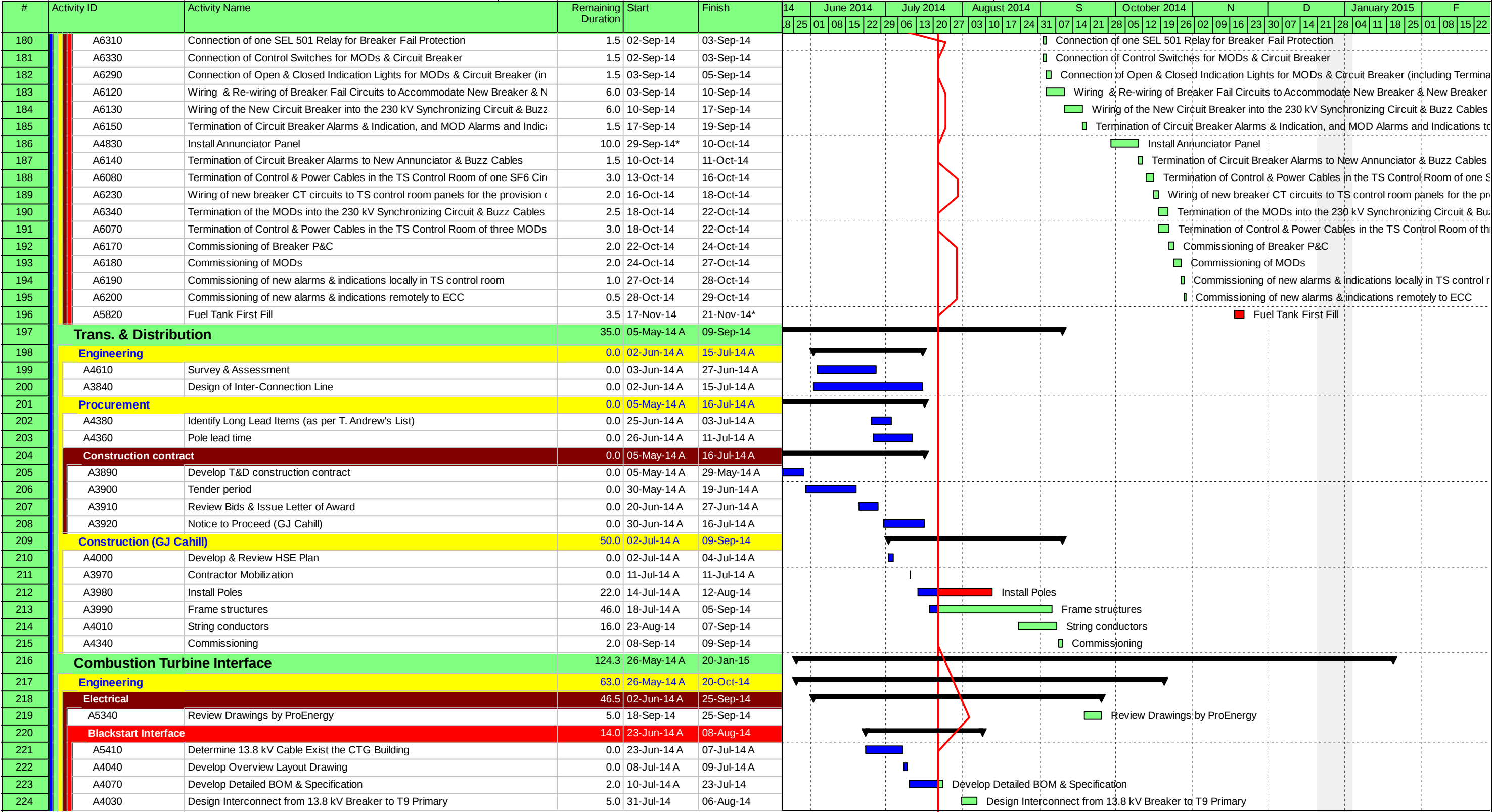
100 MW Combustion Turbine Project

22-Jul-14

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135	A5650	Complete Entry Cut Out into TS Control Room (Parker Kaefer)	0.0	16-Jul-14 A	16-Jul-14 A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

100 MW Combustion Turbine Project

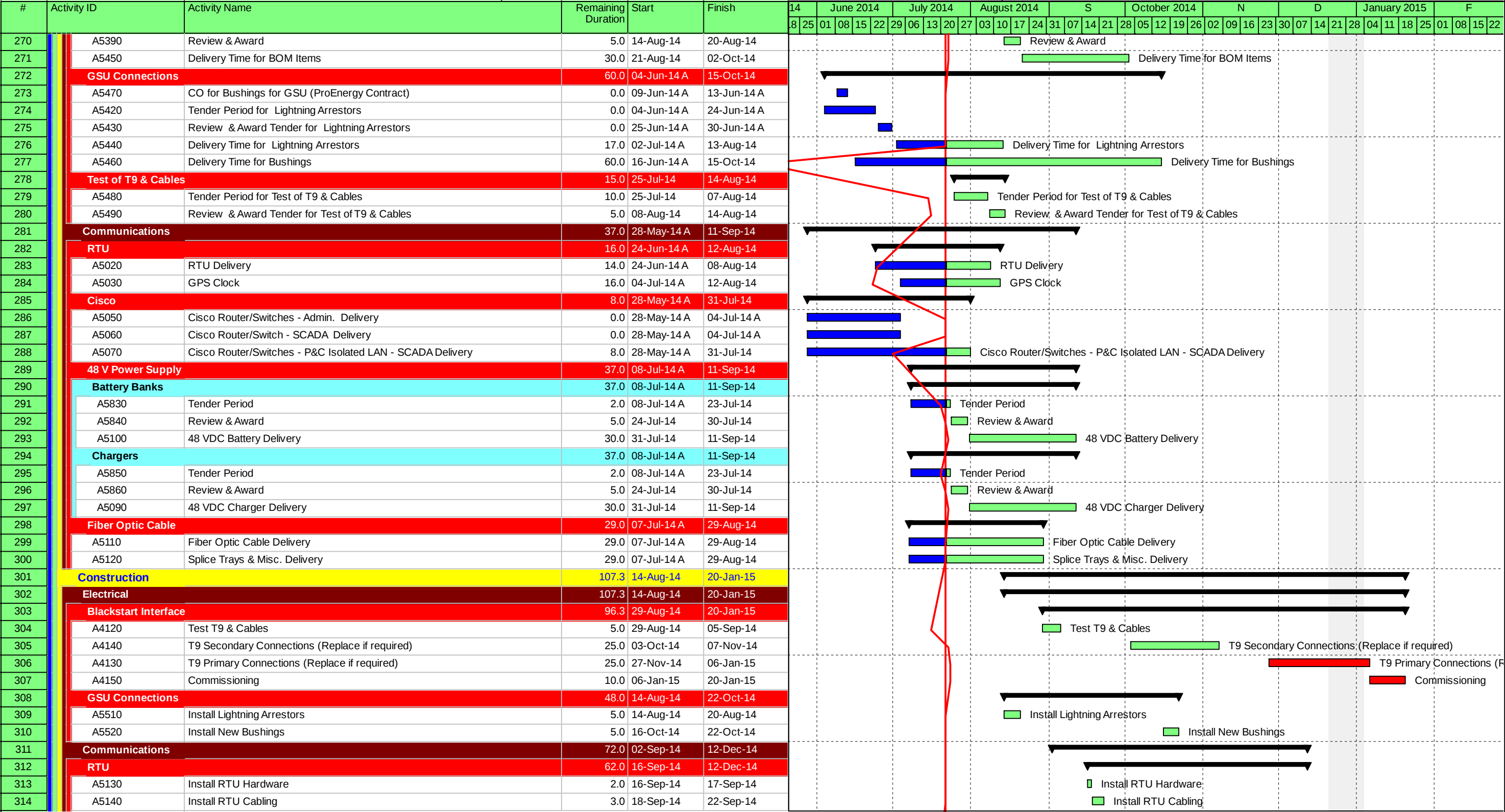
22-Jul-14



#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Gantt Chart																																															
						14	June 2014					July 2014					August 2014					S					October 2014					N					D					January 2015					F						
225	A4080	Develop Specification for Cabling Transition to Pole	2.0	07-Aug-14	08-Aug-14	Develop Specification for Cabling Transition to Pole																																															
226	GSU Connections		0.0	02-Jun-14 A	11-Jun-14 A																																																
227	A5360	Develop Specification for Lightning Arrestors	0.0	02-Jun-14 A	03-Jun-14 A																																																
228	A5370	Develop Specification for Bushings	0.0	09-Jun-14 A	11-Jun-14 A																																																
229	Test of T9 & Cables		3.0	16-Jul-14 A	24-Jul-14																																																
230	A5500	Develop Specification for Test of T9 & Cables	3.0	16-Jul-14 A	24-Jul-14	Develop Specification for Test of T9 & Cables																																															
231	P&C		44.0	25-Jun-14 A	22-Sep-14																																																
232	A4630	Review Contractor development of Operator Interface system	3.0	24-Jul-14	28-Jul-14	Review Contractor development of Operator Interface system																																															
233	A4770	Review Contractor Dwg's for CTG - Part 1 (SLD)	3.0	28-Jul-14	31-Jul-14	Review Contractor Dwg's for CTG - Part 1 (SLD)																																															
234	A4670	Coordinate system data with Contractor for relay settings	5.0	28-Jul-14*	01-Aug-14	Coordinate system data with Contractor for relay settings																																															
235	A4650	Review Contractor Dwg's for Water Treatment Plant	3.0	31-Jul-14	05-Aug-14	Review Contractor Dwg's for Water Treatment Plant																																															
236	A5990	Review Contractor Dwg.'s for Device Architecture	3.0	31-Jul-14	05-Aug-14	Review Contractor Dwg.'s for Device Architecture																																															
237	A4680	Review Contractor relay settings	5.0	04-Aug-14	08-Aug-14	Review Contractor relay settings																																															
238	A4620	Review Contractor Dwg's for CTG - Part 1 (3 phase)	8.3	07-Aug-14	19-Aug-14	Review Contractor Dwg's for CTG - Part 1 (3 phase)																																															
239	A4660	Review Contractor Dwg.'s for SCADA	3.0	21-Aug-14	26-Aug-14	Review Contractor Dwg.'s for SCADA																																															
240	A4720	Prepare SCADA listing - CTG	5.0	21-Aug-14	28-Aug-14	Prepare SCADA listing - CTG																																															
241	A4640	Review Contractor Dwg.'s for aux. Gen . Systems & BOP *	5.0	22-Aug-14*	28-Aug-14	Review Contractor Dwg.'s for aux. Gen . Systems & BOP *																																															
242	A4730	Provide P&C guidelines for GSU protection	29.0	25-Jun-14 A	29-Aug-14	Provide P&C guidelines for GSU protection																																															
243	A4780	Review ProEnergy's Drawings for the GSU Protection	15.0	02-Sep-14	22-Sep-14	Review ProEnergy's Drawings for the GSU Protection																																															
244	Communications		63.0	26-May-14 A	20-Oct-14																																																
245	RTU		20.0	25-Jun-14 A	22-Sep-14																																																
246	A5730	Develop RTU Spec.	0.0	25-Jun-14 A	25-Jun-14 A																																																
247	A5740	Design RTU Configuration	0.0	26-Jun-14 A	25-Aug-14	Design RTU Configuration																																															
248	A5750	Develop RTU Work Package	10.0	25-Aug-14	08-Sep-14	Develop RTU Work Package																																															
249	A5760	Complete RTU PDU Testing	5.0	09-Sep-14	15-Sep-14	Complete RTU PDU Testing																																															
250	A5770	Support RTU Commissioning	5.0	16-Sep-14	22-Sep-14	Support RTU Commissioning																																															
251	Cisco		36.0	26-May-14 A	10-Sep-14																																																
252	A5780	Design of Admin. LAN	0.0	26-May-14 A	30-May-14 A																																																
253	A5790	Develop Cisco Specification	0.0	26-May-14 A	30-May-14 A																																																
254	A5800	Develop Cisco Work Package	16.0	16-Jul-14 A	12-Aug-14	Develop Cisco Work Package																																															
255	A5810	Design Cisco Configuration	20.0	13-Aug-14	10-Sep-14	Design Cisco Configuration																																															
256	48V DC Power System		0.0	20-Jun-14 A	31-Jul-14																																																
257	Battery Banks		0.0	20-Jun-14 A	31-Jul-14																																																
258	A4960	Develop 48 VDC Specification Battery Banks	0.0	20-Jun-14 A	07-Jul-14 A																																																
259	A4970	Develop 48 VDC Work Package for Battery Banks	0.0	16-Jul-14 A	31-Jul-14	Develop 48 VDC Work Package for Battery Banks																																															
260	Chargers		0.0	20-Jun-14 A	31-Jul-14																																																
261	A5010	Develop 48 VDC Specification Chargers	0.0	20-Jun-14 A	07-Jul-14 A																																																
262	A5890	Develop 48 VDC Work Package for Chargers	0.0	16-Jul-14 A	31-Jul-14	Develop 48 VDC Work Package for Chargers																																															
263	Fiber Optic Cable		5.0	08-Jul-14 A	20-Oct-14																																																
264	A5000	Develop Fibre Specification & Issue to ProEnergy	0.0	08-Jul-14 A	09-Jul-14 A																																																
265	A4990	Support Fibre Testing	5.0	14-Oct-14*	20-Oct-14	Support Fibre Testing																																															
266	Procurement		60.0	28-May-14 A	15-Oct-14																																																
267	Electrical		60.0	04-Jun-14 A	15-Oct-14																																																
268	Blackstart Interface		50.0	24-Jul-14	02-Oct-14																																																
269	A5380	Tender Period for Detailed BOM & Specification	15.0	24-Jul-14	13-Aug-14	Tender Period for Detailed BOM & Specification																																															

100 MW Combustion Turbine Project

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Actual Work
Remaining Work
Critical Remaining Work

◆ Milestone
Summary

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 Actual Work   Milestone
 Remaining Work  Summary
 Critical Remaining Work

100 MW Combustion Turbine (Integrated)...

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			100 MW Combustion Turbine Project										22-Jul-14																																	
#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014				July 2014				August 2014				S		October 2014				N				D				January 2015				F									
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22
359	EQP.MLS.10	Hold Fee	0.0		21-May-14 A	◆																																								
360	EQP.MLS.100	CTG Balance	0.0		02-Jun-14 A	◆																																								
361	EQP.MLS.110	GSU Purchase	0.0		02-Jun-14 A	◆																																								
362	EQP.MLS.170	Inlet Filter House FAT	0.0		11-Jul-14 A								◆																																	
363	EQP.MLS.120	Solar FAT/Title Transfer	0.0		24-Jul-14								◆																																	
364	EQP.MLS.90	Operations & Routine Maint. Documentation	0.0		25-Jul-14								◆																																	
365	EQP.MLS.50	13.8kV to 4.16kV Station Service Transformer FAT/Title Transfer	0.0		30-Jul-14*								◆																																	
366	EQP.MLS.190	Station Air System Compressors FAT	0.0		04-Aug-14								◆																																	
367	EQP.MLS.130	Diesel Generator FAT/Title Transfer	0.0		28-Aug-14									◆																																
368	EQP.MLS.80	Generator Circuit Breaker FAT/Title Transfer	0.0		04-Sep-14									◆																																
369	EQP.MLS.60	4.16kV to 480V Station Service Transformer FAT/Title Transfer	0.0		08-Sep-14									◆																																
370	EQP.MLS.160	Waste Water Treatment System FAT	0.0		10-Sep-14									◆																																
371	EQP.MLS.180	Fuel Heating Pacakge FAT	0.0		01-Oct-14									◆																																
372	EQP.MLS.140	Water Plant FAT/Title Transfer	0.0		06-Oct-14									◆																																
373	EQP.MLS.40	Heating Coil FAT/Title Transfer	0.0		07-Oct-14									◆																																
374	EQP.MLS.70	Control System BOP FAT/Title Transfer	0.0		10-Oct-14									◆																																
375	EQP.MLS.30	Liquid Fuel Transfer System & Tanks FAT	0.0		20-Oct-14									◆																																
376	EQP.MLS.20	Water Injection Skid FAT/Title Transfer	0.0		06-Nov-14									◆																																
377	EQP.MLS.150	Liquid Fuel Package FAT/Title Transfer	0.0		06-Nov-14									◆																																
378	EPC		163.4	26-Jul-14	03-Dec-14																																									
379	EPC.MLS.20	Milestone 2 - Civic Work - Foundations Poured for Major Equipment	0.0		26-Jul-14									◆																																
380	EPC.MLS.10	Milestone 1 - Engineering Deliverables	0.0		14-Aug-14									◆																																
381	EPC.MLS.30	Milestone 3 - Major Equipment Rough Set on Foundations	0.0		09-Sep-14										◆																															
382	EPC.MLS.40	Milestone 4 - Assembly of Major Equipment	0.0		04-Nov-14										◆																					</										

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																												2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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 Actual Work   Milestone
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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014	July 2014	August 2014	S	October 2014	N	D	January 2015	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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449		ENG.B00-01-001	COMBUSTION TURBINE BUILDING FLOOR PLAN & SCHEDULES	4.0	06-Jun-14 A	25-Jul-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
494		Black Start Generator	11.0	22-Jul-14	05-Aug-14
495	ENG.F00-14-001	EMERGENCY AND STARTUP GENERATOR FOUNDATION PLAN, SECTION	11.0	22-Jul-14*	05-Aug-14
496		Aux. Transformer	12.2	14-Jul-14 A	07-Aug-14
497	ENG.F00-17-001	AUX TRANSFORMER FOUNDATION PLAN, SECTIONS AND DETAILS	0.0	14-Jul-14 A	17-Jul-14 A
498	ENG.F00-17-002	AUX TRANSFORMER MASONRY WALL SECTIONS AND DETAILS	12.2	22-Jul-14*	07-Aug-14
499		Liquid Fuel	15.0	12-May-14 A	11-Aug-14
500	ENG.C00-00-011	FUEL STORAGE TANK AREA EXCAVATION PLAN	0.0	12-May-14 A	23-Jun-14 A
501	ENG.C00-00-012	PLAN EARTH DYKE AND TANK LAYOUT, CROSS-SECTIONS, AND DETAIL	0.0	20-Jun-14 A	30-Jun-14 A
502	ENG.F00-16-001	FOUNDATION FOR PUMPS & PIPE SUPPORT STRUCTURES & MISC. COI	15.0	22-Jul-14*	11-Aug-14
503		Liquid Fuel Tanks	0.0	12-May-14 A	18-Jul-14 A
504	ENG.F00-07-01	LIQUID FUEL TANK FOUNDATIONS PLAN, SECTIONS & DETAILS	0.0	12-May-14 A	26-Jun-14 A
505	ENG.F00-07-01	LIQUID FUEL TANK FOUNDATION	0.0	12-May-14 A	27-Jun-14 A
506	ENG.TANK_FN	OIL TANK FOUNDATION DESIGN - CALCULATIONS	0.0	15-Jul-14 A	18-Jul-14 A
507		Liquid Fuel Offloading	2.5	14-Jul-14 A	24-Jul-14
508	ENG.B00-03-01	UNLOADING FUEL PUMP BUILDING PLANS, SECTIONS & ELEVATION	2.5	14-Jul-14 A	24-Jul-14
509		Structural	14.0	15-Jul-14 A	08-Aug-14
510		Cable Tray/Pipe Supports	14.0	15-Jul-14 A	08-Aug-14
511	ENG.S00-00-001	GENERAL STEEL NOTES	0.0	15-Jul-14 A	18-Jul-14 A
512	ENG.S00-01-001	ABOVE GRADE PIPE/CABLE TRAY SUPPORT STRUCTURE PLAN, SECTIO	14.0	22-Jul-14*	08-Aug-14
513	ENG.S00-01-002	ABOVE GRADE PIPE/CABLE TRAY SUPPORT STRUCTURE SECTIONS & I	14.0	22-Jul-14*	08-Aug-14
514		Mechanical/Piping	29.5	12-May-14 A	02-Sep-14
515		Specifications	9.0	02-Jun-14 A	01-Aug-14
516	ENG.15026	SPEC - PAINTING	3.6	07-Jul-14 A	25-Jul-14
517	ENG.15050	SPEC - MECHANICAL METHODS AND MATERIALS	6.3	16-Jul-14 A	30-Jul-14
518		Systems	9.0	09-Jun-14 A	01-Aug-14
519	ENG.11722	SPEC - WATER TREATMENT	0.0	09-Jun-14 A	18-Jul-14 A
520	ENG.11335	SPEC - AIR COMPRESSOR	1.3	16-Jun-14 A	23-Jul-14
521	ENG.11310	SPEC - CENTRIFUGAL PUMP	3.9	26-Jun-14 A	25-Jul-14
522	ENG.02300	SPEC - TRENCHING FOR UNDERGROUND PIPING	6.0	22-Jul-14*	29-Jul-14
523	ENG.11730	SPEC - OIL/WATER SEPARATOR	9.0	22-Jul-14*	01-Aug-14
524		Cathodic Protection	9.0	22-Jul-14	01-Aug-14
525	ENG.15053	SPEC - CATHODIC PROTECTION	9.0	22-Jul-14*	01-Aug-14
526		Piping	9.0	16-Jun-14 A	01-Aug-14
527	ENG.15101	SPEC - PIPE MATERIAL	6.4	16-Jun-14 A	30-Jul-14
528	ENG.20695	SPEC - PIPE SUPPORTS	9.0	22-Jul-14*	01-Aug-14
529		Fire Protection	8.1	18-Jul-14 A	01-Aug-14
530	ENG.15310	SPEC - FIRE ALARM AND DETECTION	8.1	18-Jul-14 A	01-Aug-14
531		Field Erected Tanks	0.0	02-Jun-14 A	21-Jul-14 A
532	ENG.11510	SPEC - FIELD ERECTED TANKS	0.0	02-Jun-14 A	21-Jul-14 A
533		Shop Fabricated Tanks	0.0	02-Jun-14 A	21-Jul-14 A
534	ENG.11520	SPEC - SHOP FABRICATED TANKS	0.0	02-Jun-14 A	21-Jul-14 A
535		Drawings	29.5	12-May-14 A	02-Sep-14
536		Mechanical	4.3	17-Jun-14 A	28-Jul-14
537	ENG.M401	MATERIALS LIST - AIR COMPRESSORS, AIR RECEIVERS & DESICCANT A	0.0	17-Jun-14 A	14-Jul-14 A
538	ENG.20653	EQUIPMENT LIST	3.4	27-Jun-14 A	25-Jul-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14		June 2014					July 2014					August 2014					S					October 2014					N					D					January 2015					F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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539	ENG.20652	LINE LIST	4.3	27-Jun-14 A	28-Jul-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

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584	ENG.16322	SPEC - AUX TRANSFORMER 4.160kV-480V	0.0	09-Jun-14 A	27-Jun-14 A
585	ENG.16481	SPEC - ELECTRIC MOTORS 600V AND BELOW	0.0	02-Jun-14 A	09-Jul-14 A
586	ENG.16283	SPEC-13.8KV FAULT CURRENT LIMITER	0.0	30-May-14 A	18-Jul-14 A
587	ENG.16447	SPEC - 480 VOLT MOTOR CONTROL CENTER	2.0	23-Jun-14 A	23-Jul-14
588	ENG.11250	SPEC - EMERGENCY START GENERATOR	2.3	02-Jun-14 A	24-Jul-14
589	ENG.16282	SPEC-GENERATOR CIRCUIT BREAKER - CENTAUR	3.2	07-Jul-14 A	25-Jul-14
590	ENG.16630	SPEC - BATTERY AND CHARGER	4.0	07-Jul-14 A	25-Jul-14
591	ENG.16055	SPEC - BASIC ELECTRICAL METHODS AND MATERIALS	5.1	14-Jun-14 A	29-Jul-14
592	ENG.16441	SPEC - 480V SWITCHGEAR	8.8	09-Jun-14 A	01-Aug-14
593	ENG.16283-ADD-1	FAULT CURRENT LIMITER SPECIFICATION ADDENDUM NO. 1	10.0	22-Jul-14*	04-Aug-14
594	ENG.16116	SPEC-ISOLATED PHASE BUS	12.8	30-May-14 A	07-Aug-14
595	ENG.16610	SPEC - UNINTERRUPTIBLE POWER SUPPLY	15.4	09-Jun-14 A	12-Aug-14
596	ENG.GCB-ENCLC	SPEC - 13.8KV SWITCHGEAR POWERCON ENCLOSURE	16.3	27-May-14 A	13-Aug-14
597	Drawings		41.5	12-May-14 A	18-Sep-14
598	ENG.RPT-ELEC-1	REPORT - ELECTRICAL OPERATING DESCRIPTION	0.0	19-May-14 A	27-Jun-14 A
599	ENG.16221-EVAL	GSU TECHNICAL EVALUATION	0.0	07-Jul-14 A	14-Jul-14 A
600	ENG.RPT-GSU-P	GSU TRANSFORMER EXPOSURE PROTECTION REPORT	0.0	16-Jun-14 A	18-Jul-14 A
601	ENG.16121-ADD-1	WIRE AND CABLE SPECIFICATION ADDENDUM NO. 1	0.0	15-Jul-14 A	18-Jul-14 A
602	ENG.11250-STUD	BLACK START STUDY	1.0	07-Jul-14 A	22-Jul-14
603	ENG.RPT-ELEC-3	RELAY DESIGN DESCRIPTION	2.0	15-Jul-14 A	23-Jul-14
604	ENG.E00-51-001	CABLE SCHEDULE	2.4	27-Jun-14 A	24-Jul-14
605	ENG.E00-27-001	ELECTRICAL ROOM LAYOUT	5.0	02-Jun-14 A	28-Jul-14
606	ENG.STDY-ELEC	STUDY - ELECTRICAL GROUNDING ANALYSIS	6.5	15-Jul-14 A	30-Jul-14
607	ENG.E00-51-002	CONDUIT, CABLE TRENCH AND TRAY SCHEDULE	7.0	30-Jun-14 A	30-Jul-14
608	ENG.STDY-ELEC	STUDY - LIGHTNING PROTECTION ANALYSIS	10.3	27-Jun-14 A	05-Aug-14
609	ENG.RPT-ELEC-2	REPORT - ELECTRICAL BLACK START OPERATING DESCRIPTION	11.8	09-Jun-14 A	06-Aug-14
610	ENG.E00-28-300	ELECTRICAL SITE COMMUNICATION PLAN	12.6	07-Jul-14 A	07-Aug-14
611	ENG.STDY-ELEC	STUDY- ELECTRICAL SHORT CIRCUIT ANALYSIS	13.0	12-May-14 A	07-Aug-14
612	ENG.STDY-ELEC	STUDY - ELECTRICAL CABLE INSULATION ANALYSIS	13.1	23-Jun-14 A	08-Aug-14
613	ENG.E00-27-002	COMBUSTION TURBINE BUILDING CABLE TRAY DETAIL AND NOTES	14.0	22-Jul-14*	08-Aug-14
614	ENG.E00-52-001	MOTOR/LOAD LIST	34.2	02-Jun-14 A	09-Sep-14
615	ENG.STDY-ELEC	STUDY - ELECTRICAL ARC FAULT ANALYSIS	41.5	12-May-14 A	18-Sep-14
616	One-Line Diagrams		12.0	12-May-14 A	06-Aug-14
617	ENG.E00-21-001	ELECTRICAL KEY ONE-LINE DIAGRAM/RELAYING	4.7	12-May-14 A	28-Jul-14
618	ENG.E00-21-003	ELECTRICAL SINGLE LINE DIAGRAM LOW VOLTAGE SWITCHGEAR	8.5	14-Jun-14 A	01-Aug-14
619	ENG.E00-21-004	ELECTRICAL SINGLE LINE DIAGRAM 480V MCC - BOP-MCC-1	12.0	23-Jun-14 A	06-Aug-14
620	ENG.E00-21-005	ELECTRICAL SINGLE LINE DIAGRAM 480V MCC - BOP-MCC-2	12.0	23-Jun-14 A	06-Aug-14
621	Three-Line Diagrams		12.6	14-Jul-14 A	07-Aug-14
622	ENG.E00-21-020	ELECTRICAL THREE LINE DIAGRAM 13.8KV SWITCHGEAR & RELAYING EQUIPMENT	12.6	14-Jul-14 A	07-Aug-14
623	ENG.E00-21-021	ELECTRICAL THREE LINE DIAGRAM 13.8KV GENERATOR BREAKER	12.6	14-Jul-14 A	07-Aug-14
624	ENG.E00-21-022	ELECTRICAL THREE LINE DIAGRAM 13.8KV LINE CUBICLE	12.6	14-Jul-14 A	07-Aug-14
625	ENG.E00-21-023	ELECTRICAL THREE LINE DIAGRAM 13.8KV NEUTRAL CUBICLE	12.6	14-Jul-14 A	07-Aug-14
626	Interconnect Diagrams		14.0	28-Jul-14	15-Aug-14
627	ENG.E00-24-001	ELECTRICAL INTERCONNECTION DIAGRAM WATER TREATMENT SKID	14.0	28-Jul-14*	15-Aug-14
628	ENG.E00-24-002	ELECTRICAL INTERCONNECTION DIAGRAM WATER TREATMENT SKID	14.0	28-Jul-14*	15-Aug-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014							July 2014							August 2014							S							October 2014							N							D							January 2015							F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
674	ENG.E00-53-003	AC PANELBOARD SCHEDULE - LIGHTING DISTRIBUTION PANEL 2 - LDP-	8.1	15-Jul-14 A	01-Aug-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014				July 2014				August 2014				S				October 2014				N				D				January 2015				F								
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	
719	ENG.265701	SPEC - LOGIC CONTROLLERS FOR MECHANICAL EQUIPMENT	0.0	21-Jun-14 A	10-Jul-14 A																																										
720	ENG.18010	SPEC - DESIGN & FURNISHING OF INSTRUMENTATION	0.0	24-Jun-14 A	18-Jul-14 A																																										
721	ENG.18160	SPEC - PROGRAMMABLE LOGIC CONTROLLERS	2.6	16-Jun-14 A	24-Jul-14																																										
722	ENG.18180	SPEC - I&C METHODS & MATERIALS	4.6	18-Jun-14 A	28-Jul-14																																										
723	ENG.18140	SPEC - DCS/PAC CONTROL SYSTEM	7.4	16-Jun-14 A	31-Jul-14																																										
724	Data Sheet		1.7	24-Jun-14 A	23-Jul-14																																										
725	ENG.18058-006	DS-WAVE GUIDE LEVEL TRANSMITTERS	1.0	24-Jun-14 A	22-Jul-14																																										
726	ENG.18000-000	DS-DATA SHEET INDEX	1.7	24-Jun-14 A	23-Jul-14																																										
727	ENG.18053-001	DS-LEVEL SWITCHES	1.7	24-Jun-14 A	23-Jul-14																																										
728	ENG.18058-001	DS-WAVE GUIDED LEVEL TRANSMITTERS	1.7	24-Jun-14 A	23-Jul-14																																										
729	ENG.18058-002	DS-WAVE GUIDE LEVEL TRANSMITTERS	1.7	24-Jun-14 A	23-Jul-14																																										
730	ENG.18058-003	DS-WAVE GUIDE LEVEL TRANSMITTERS	1.7	24-Jun-14 A	23-Jul-14																																										
731	ENG.18058-004	DS-WAVE GUIDE LEVEL TRANSMITTERS	1.7	24-Jun-14 A	23-Jul-14																																										
732	ENG.18058-005	DS-WAVE GUIDE LEVEL TRANSMITTERS	1.7	24-Jun-14 A	23-Jul-14																																										
733	ENG.18061-001	DS-GAUGE PRESSURE TRANSMITTER	1.7	24-Jun-14 A	23-Jul-14																																										
734	ENG.18061-002	DS-DIFFERENTIAL PRESSURE TRANSMITTER	1.7	24-Jun-14 A	23-Jul-14																																										
735	ENG.18062-001	DS-PRESSURE GAUGES	1.7	24-Jun-14 A	23-Jul-14																																										
736	ENG.18062-002	DS-DIFFERENTIAL PRESSURE GAUGES	1.7	24-Jun-14 A	23-Jul-14																																										
737	ENG.18074-001	DS-MISC INST. RESTRICTION ORIFICES	1.7	24-Jun-14 A	23-Jul-14																																										
738	ENG.18074-002	DS - MISC. INSTRUMENT - DEMIN WATER REDIRC TO TANK	1.7	24-Jun-14 A	23-Jul-14																																										
739	ENG.18074-003	DS - MISC INSTRUMENT - FUEL OIL RESTRICTION ORIFICE	1.7	24-Jun-14 A	23-Jul-14																																										
740	ENG.18074-004	DS - MISC INSTRUMENT - FUEL OIL RESTRICTION ORIFICE	1.7	24-Jun-14 A	23-Jul-14																																										
741	ENG.18076-001	DS-POSITIVE DISPLACEMENT FLOW METERS	1.7	24-Jun-14 A	23-Jul-14																																										
742	ENG.18076-002	DS-POSITIVE DISPLACEMENT FLOW METERS	1.7	24-Jun-14 A	23-Jul-14																																										
743	ENG.18076-003	DS-POSITIVE DISPLACEMENT FLOW METERS	1.7	24-Jun-14 A	23-Jul-14																																										
744	ENG.18090-001	DS-DIESEL FUEL TANK #1 BLOCK VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
745	ENG.18090-002	DS-DIESEL FUEL TANK #2 BLOCK VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
746	ENG.18090-003	DS-TREATED FUEL RECIRC. BLOCK VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
747	ENG.18090-004	DS-TREATED FUEL TANK BLOCK VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
748	ENG.18090-005	DS-BLACK START GEN. BLOCK VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
749	ENG.18091-000	DS-CONTROL VALVE INDEX	1.7	24-Jun-14 A	23-Jul-14																																										
750	ENG.18091-001	DS-RAW WATER RECIRC. PRESSURE CONTROL VALVE	1.7	24-Jun-14 A	23-Jul-14																																										
751	ENG.18095-001	DS-MOISTURE ANALYZER	1.7	24-Jun-14 A	23-Jul-14																																										
752	ENG.18095-002	DS-MOISTURE ANALYZER	1.7	24-Jun-14 A	23-Jul-14																																										
753	ENG.18127-001	DS - MISC. INSTRUMENT RAW WATER PUMP	1.7	24-Jun-14 A	23-Jul-14																																										
754	ENG.18127-002	DS - MISC INSTRUMENT - RAW WATER FWD PUMP	1.7	24-Jun-14 A																																											

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- Summary

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	June 2014							July 2014							August 2014							September 2014							October 2014							November 2014							December 2014							January 2015							February 2015						
						14	21	28	05	12	19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	04	11	18	25	01	08	15	22																	
764	ENG.I00-09-001	CONTROL SYSTEM ARCHITECTURE	7.4	12-May-14 A	31-Jul-14	CONTROL SYSTEM ARCHITECTURE																																																														
765	ENG.I00-01-002	I/O LIST	22.4	01-Jul-14 A	21-Aug-14	I/O LIST																																																														
766	ENG.I00-07-CAB1	CONTROL ROOM PLC PANEL ALARMS	9.0	11-Aug-14*	22-Aug-14	CONTROL ROOM PLC PANEL ALARMS																																																														
767	Control System Description		23.0	15-Jul-14 A	22-Aug-14																																																															
768	ENG.18131-001	CSD-DEMIN WATER STORAGE AND TRANSFER SYSTEM	7.2	15-Jul-14 A	31-Jul-14	CSD-DEMIN WATER STORAGE AND TRANSFER SYSTEM																																																														
769	ENG.18131-002	CSD-RAW WATER STORAGE AND TRANSFER SYSTEM	8.1	15-Jul-14 A	01-Aug-14	CSD-RAW WATER STORAGE AND TRANSFER SYSTEM																																																														
770	ENG.18131-003	CSD-R.O. WATER CONTROL SYSTEM	8.1	15-Jul-14 A	01-Aug-14	CSD-R.O. WATER CONTROL SYSTEM																																																														
771	ENG.18131-004	CSD-FUEL CONTROL SYSTEM	8.1	15-Jul-14 A	01-Aug-14	CSD-FUEL CONTROL SYSTEM																																																														
772	ENG.18131-005	CSD-INSTRUMENT AIR CONTROL SYSTEM	8.1	15-Jul-14 A	01-Aug-14	CSD-INSTRUMENT AIR CONTROL SYSTEM																																																														
773	ENG.18131-000	CSD-INDEX	13.5	15-Jul-14 A	08-Aug-14	CSD-INDEX																																																														
774	ENG.18131-006	CSD-WASTE WATER CONTROL SYSTEM	9.0	11-Aug-14*	22-Aug-14	CSD-WASTE WATER CONTROL SYSTEM																																																														
775	Functional Control Diagram		8.1	15-Jul-14 A	01-Aug-14																																																															
776	ENG.I00-03-000	FCD-DRAWING LEGEND INDEX	8.1	15-Jul-14 A	01-Aug-14	FCD-DRAWING LEGEND INDEX																																																														
777	ENG.I00-03-001	FCD-STANDARD MOTOR CONTROL	8.1	15-Jul-14 A	01-Aug-14	FCD-STANDARD MOTOR CONTROL																																																														
778	ENG.I00-03-002	FCD-FUEL UNLOADING PUMP	8.1	15-Jul-14 A	01-Aug-14	FCD-FUEL UNLOADING PUMP																																																														
779	ENG.I00-03-003	FCD-FUEL OIL SYSTEM	8.1	15-Jul-14 A	01-Aug-14	FCD-FUEL OIL SYSTEM																																																														
780	ENG.I00-03-004	FCD-FUEL TRANSFER PUMP	8.1	15-Jul-14 A	01-Aug-14	FCD-FUEL TRANSFER PUMP																																																														
781	ENG.I00-03-005	FCD - FUEL FORWARDING PUMPS LOGIC	8.1	15-Jul-14 A	01-Aug-14	FCD - FUEL FORWARDING PUMPS LOGIC																																																														
782	ENG.I00-03-006	FCD-RAW/FIRE WATER SYSTEM	8.1	15-Jul-14 A	01-Aug-14	FCD-RAW/FIRE WATER SYSTEM																																																														
783	ENG.I00-03-007	FCD-RAW WATER FORWARDING PUMP	8.1	15-Jul-14 A	01-Aug-14	FCD-RAW WATER FORWARDING PUMP																																																														
784	ENG.I00-03-008	FCD-R.O. WATER SYSTEM MISC.	8.1	15-Jul-14 A	01-Aug-14	FCD-R.O. WATER SYSTEM MISC.																																																														
785	ENG.I00-03-009	FCD-INSTRUMENT AIR MISC.	8.1	15-Jul-14 A	01-Aug-14	FCD-INSTRUMENT AIR MISC.																																																														
786	ENG.I00-03-010	FCD-WASTE OIL WASTE WATER SYSTEM	8.1	15-Jul-14 A	01-Aug-14	FCD-WASTE OIL WASTE WATER SYSTEM																																																														
787	ENG.I00-03-011	FCD-FIRE PROTECTION MISC.	8.1	15-Jul-14 A	01-Aug-14	FCD-FIRE PROTECTION MISC.																																																														
788	ENG.I00-03-012	FCD-PLANT MISC.	8.1	15-Jul-14 A	01-Aug-14	FCD-PLANT MISC.																																																														
789	ENG.I00-03-013	FCD - RO CIP PUMP	8.1	15-Jul-14 A	01-Aug-14	FCD - RO CIP PUMP																																																														
790	ENG.I00-03-014	FCD - DEMIN WATER	8.1	15-Jul-14 A	01-Aug-14	FCD - DEMIN WATER																																																														
791	ENG.I00-03-015	FCD - ELECTRICAL MISC.	8.1	15-Jul-14 A	01-Aug-14	FCD - ELECTRICAL MISC.																																																														
792	Graphic Display		1.9	25-Jun-14 A	23-Jul-14																																																															
793	ENG.I00-06-001	BOP PROGRAMMABLE CONTROL SYSTEM	1.9	25-Jun-14 A	23-Jul-14	BOP PROGRAMMABLE CONTROL SYSTEM																																																														
794	Loop Sheet		9.0	11-Aug-14	22-Aug-14																																																															
795	ENG.I00-07-A17	LS-INSTRNMENT AIR DEW POINT	9.0	11-Aug-14*	22-Aug-14	LS-INSTRNMENT AIR DEW POINT																																																														
796	ENG.I00-07-C11	LS-DEMIN WATER CONDUCTIVITY	9.0	11-Aug-14*	22-Aug-14	LS-DEMIN WATER CONDUCTIVITY																																																														
797	ENG.I00-07-C23	LS-FULL TANK LEVEL ALARMS	9.0	11-Aug-14*	22-Aug-14	LS-FULL TANK LEVEL ALARMS																																																														
798	ENG.I00-07-D030	LS-FUEL UNLOADING PUMP NO.1	9.0	11-Aug-14*	22-Aug-14	LS-FUEL UNLOADING PUMP NO.1																																																														
799	ENG.I00-07-D031	LS-FUEL UNLOADING PUMP NO.2	9.0	11-Aug-14*	22-Aug-14	LS-FUEL UNLOADING PUMP NO.2																																																														
800	ENG.I00-07-D042	LS-FUEL TRANSFER PUMP NO.1	9.0	11-Aug-14*	22-Aug-14	LS-FUEL TRANSFER PUMP NO.1																																																														
801	ENG.I00-07-D043	LS-FUEL TRANSFER PUMP NO.2	9.0	11-Aug-14*	22-Aug-14	LS-FUEL TRANSFER PUMP NO.2																																																														
802	ENG.I00-07-D051	LS-TREATED LIQUID FUEL FORWARDING PUMP NO.1	9.0	11-Aug-14*	22-Aug-14	LS-TREATED LIQUID FUEL FORWARDING PUMP NO.1																																																														
803	ENG.I00-07-D052	LS-TREATED LIQUID FUEL FORWARDING PUMP NO.2	9.0	11-Aug-14*	22-Aug-14	LS-TREATED LIQUID FUEL FORWARDING PUMP NO.2																																																														
804	ENG.I00-07-D064	LS-RAW WATER FORWARDING PUMP	9.0	11-Aug-14*	22-Aug-14	LS-RAW WATER FORWARDING PUMP																																																														
805	ENG.I00-07-D142	LS - DEMIN WATER FORWARDING PUMP# 1	9.0	11-Aug-14*	22-Aug-14	LS - DEMIN WATER FORWARDING PUMP# 1																																																														
806	ENG.I00-07-D143	LS - DEMIN WATER FORWARDING PUMP# 2	9.0	11-Aug-14*	22-Aug-14	LS - DEMIN WATER FORWARDING PUMP# 2																																																														
807	ENG.I00-07-E80	LS-MISC. TROUBLE ALARMS	9.0	11-Aug-14*	22-Aug-14	LS-MISC. TROUBLE ALARMS																																																														
808	ENG.I00-07-F23	LS-TRUCK UNLOADING STATION 1 & 2 FUEL OIL FLOW	9.0	11-Aug-14*	22-Aug-14	LS-TRUCK UNLOADING STATION 1 & 2 FUEL OIL FLOW																																																														

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Gantt Chart																																									
						14				June 2014				July 2014				August 2014				S				October 2014				N				D				January 2015				F					
854		PROC.RWP.70	Transport From Bay Bulls' Port to Jobsite	5.0	13-Oct-14	17-Oct-14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22
855		Service Water		21.1	22-Jul-14	13-Aug-14																																									
856		Service Water Pressure Tank		21.1	22-Jul-14	13-Aug-14																																									
857		PROC.SWPT.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14																																									
858		PROC.SWPT.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14																																									
859		PROC.SWPT.30	Approve Vendor Drawings & Fabrication Time	5.0	05-Aug-14	11-Aug-14																																									
860		PROC.SWPT.70	Transport From Bay Bulls' Port to Jobsite	2.5	12-Aug-14	13-Aug-14																																									
861		Electric Water Heater		11.1	22-Jul-14	03-Aug-14																																									
862		PROC.WH.10	Issue For Bid & Receive Bids From Venders	1.3	22-Jul-14	23-Jul-14																																									
863		PROC.WH.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	23-Jul-14	30-Jul-14																																									
864		PROC.WH.30	Approve Vendor Drawings & Fabrication Time	2.5	30-Jul-14	01-Aug-14																																									
865		PROC.WH.70	Transport From Bay Bulls' Port to Jobsite	2.5	01-Aug-14	03-Aug-14																																									
866		Washrooms		21.1	22-Jul-14	13-Aug-14																																									
867		PROC.BTHRM.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14																																									
868		PROC.BTHRM.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14																																									
869		PROC.BTHRM.30	Approve Vendor Drawings & Fabrication Time	5.0	05-Aug-14	11-Aug-14																																									
870		PROC.BTHRM.70	Transport From Bay Bulls' Port to Jobsite	2.5	12-Aug-14	13-Aug-14																																									
871		Eye Wash Station		21.1	22-Jul-14	13-Aug-14																																									
872		PROC.EYWSH.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14																																									
873		PROC.EYWSH.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14																																									
874		PROC.EYWSH.30	Approve Vendor Drawings & Fabrication Time	5.0	05-Aug-14	11-Aug-14																																									
875		PROC.EYWSH.40	Transport From Bay Bulls' Port to Jobsite	2.5	12-Aug-14	13-Aug-14																																									
876		Water Plant		103.6	19-May-14 A	13-Nov-14																																									
877		Water Treatment System		103.6	21-May-14 A	13-Nov-14																																									
878		PROC.WTS.10	Issue For Bid & Receive Bids From Venders	0.0	21-May-14 A	23-May-14 A																																									
879		PROC.WTS.20	Issue Purchase Order & Receive/Review Shop Drawings	0.0	16-Jun-14 A	16-Jul-14 A																																									
880		PROC.WTS.30	Approve Vendor Drawings & Fabrication Time	54.0	17-Jul-14 A	03-Oct-14																																									
881		PROC.WTS.70	Perform FAT & Sign Off	1.0	06-Oct-14	06-Oct-14																																									
882		PROC.WTS.40	Ship From Vender to Houston, TX Port	2.0	07-Oct-14	08-Oct-14																																									
883		PROC.WTS.90	Load on Vessel	5.0	09-Oct-14	12-Oct-14																																									
884		PROC.WTS.50	Ship From Houston, TX to Bay Bulls Port	35.0	13-Oct-14	09-Nov-14																																									
885		PROC.WTS.60	Transport From Bay Bulls' Port to Jobsite	5.0	10-Nov-14	13-Nov-14																																									
886		Demin Water Tanks		88.6	19-May-14 A	28-Oct-14																																									
887		PROC.DWT.10	Issue Purchase Order & Receive/Review Shop Drawings	0.0	19-May-14 A	09-Jul-14 A																																									
888		PROC.DWT.30	Approve Vendor Drawings & Fabrication Time	38.0	09-Jul-14 A	11-Sep-14																																									
889		PROC.DWT.70	Perform FAT & Sign Off	5.0	12-Sep-14	18-Sep-14																																									
890		PROC.DWT.40	Ship From Vender to Houston, TX Port	2.0	19-Sep-14	22-Sep-14																																									
891		PROC.DWT.80	Load on Vessel	5.0	23-Sep-14	26-Sep-14																																									
892		PROC.DWT.50	Ship From Houston, TX to Bay Bulls Port	35.0	27-Sep-14	24-Oct-14																																									
893		PROC.DWT.60	Transport From Bay Bulls' Port to Jobsite	5.0	25-Oct-14	28-Oct-14																																									
894		Demineralized Water Pump #1		80.6	25-Jul-14	24-Oct-14																																									
895		PROC.DWP1.10	Issue For Bid & Receive Bids From Venders	2.5	25-Jul-14	30-Jul-14																																									
896		PROC.DWP1.20	Issue Purchase Order & Receive/Review Shop Drawings	20.0	30-Jul-14	27-Aug-14																																									
897		PROC.DWP1.30	Approve Vendor Drawings & Fabrication Time	10.0	27-Aug-14	10-Sep-14																																									
898		PROC.DWP1.40	Perform FAT & Sign Off	1.0	10-Sep-14	11-Sep-14																																									

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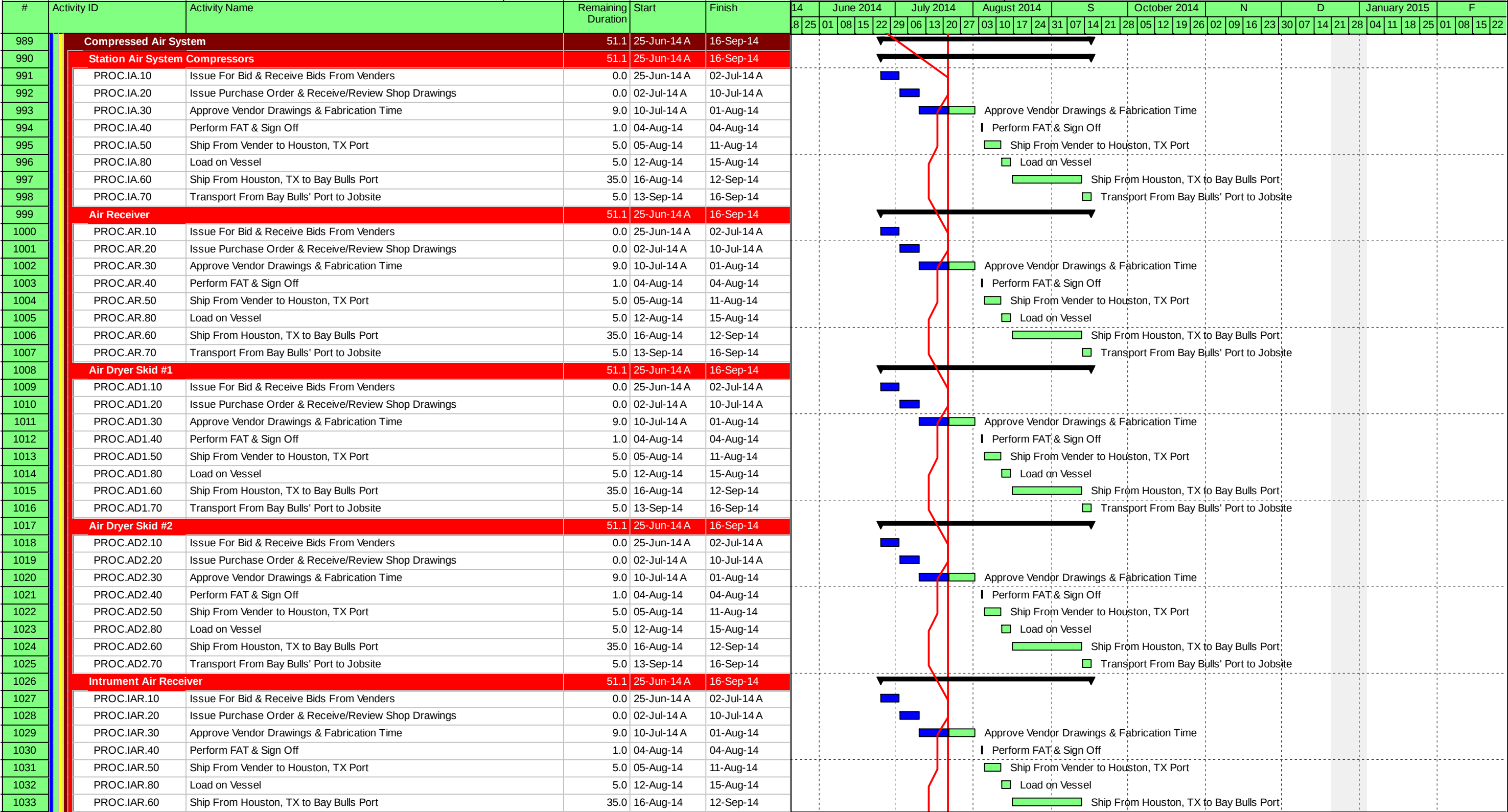
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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Gantt Chart																																			
						14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11
944	PROC.FOT1.30	Approve Vendor Drawings & Fabrication Time	40.0	24-Jul-14	18-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
945	PROC.FOT1.40	Perform FAT & Sign Off	1.0	18-Sep-14	19-Sep-14	Perform FAT & Sign Off																																			
946	PROC.FOT1.70	Transport From Vender to Jobsite	17.5	19-Sep-14	03-Oct-14	Transport From Vender to Jobsite																																			
947	Fuel Oil Tank #2		67.3	19-May-14 A	03-Oct-14																																				
948	PROC.FOT2.10	Issue For Bid & Receive Bids From Venders	0.0	19-May-14 A	20-Jun-14 A	Issue For Bid & Receive Bids From Venders																																			
949	PROC.FOT2.20	Issue Purchase Order & Receive/Review Shop Drawings	2.9	23-Jun-14 A	24-Jul-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
950	PROC.FOT2.30	Approve Vendor Drawings & Fabrication Time	40.0	24-Jul-14	18-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
951	PROC.FOT2.40	Perform FAT & Sign Off	1.0	18-Sep-14	19-Sep-14	Perform FAT & Sign Off																																			
952	PROC.FOT2.70	Transport From Vender to Jobsite	17.5	19-Sep-14	03-Oct-14	Transport From Vender to Jobsite																																			
953	Fuel Oil Transfer Pump #1		73.8	25-Jul-14	16-Oct-14																																				
954	PROC.FOTP1.10	Issue For Bid & Receive Bids From Venders	5.0	25-Jul-14	01-Aug-14	Issue For Bid & Receive Bids From Venders																																			
955	PROC.FOTP1.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	01-Aug-14	08-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
956	PROC.FOTP1.30	Approve Vendor Drawings & Fabrication Time	20.0	08-Aug-14	05-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
957	PROC.FOTP1.40	Perform FAT & Sign Off	1.0	05-Sep-14	08-Sep-14	Perform FAT & Sign Off																																			
958	PROC.FOTP1.50	Ship From Vender to Houston, TX Port	2.0	08-Sep-14	10-Sep-14	Ship From Vender to Houston, TX Port																																			
959	PROC.FOTP1.80	Load on Vessel	5.0	10-Sep-14	14-Sep-14	Load on Vessel																																			
960	PROC.FOTP1.60	Ship From Houston, TX to Bay Bulls Port	35.0	14-Sep-14	12-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
961	PROC.FOTP1.70	Transport From Bay Bulls' Port to Jobsite	5.0	12-Oct-14	16-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			
962	Fuel Oil Transfer Pump #2		73.8	25-Jul-14	16-Oct-14																																				
963	PROC.FOTP2.10	Issue For Bid & Receive Bids From Venders	5.0	25-Jul-14	01-Aug-14	Issue For Bid & Receive Bids From Venders																																			
964	PROC.FOTP2.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	01-Aug-14	08-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
965	PROC.FOTP2.30	Approve Vendor Drawings & Fabrication Time	20.0	08-Aug-14	05-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
966	PROC.FOTP2.40	Perform FAT & Sign Off	1.0	05-Sep-14	08-Sep-14	Perform FAT & Sign Off																																			
967	PROC.FOTP2.50	Ship From Vender to Houston, TX Port	2.0	08-Sep-14	10-Sep-14	Ship From Vender to Houston, TX Port																																			
968	PROC.FOTP2.80	Load on Vessel	5.0	10-Sep-14	14-Sep-14	Load on Vessel																																			
969	PROC.FOTP2.60	Ship From Houston, TX to Bay Bulls Port	35.0	14-Sep-14	12-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
970	PROC.FOTP2.70	Transport From Bay Bulls' Port to Jobsite	5.0	12-Oct-14	16-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			
971	Fuel Oil Filter Skid #1		86.1	22-Jul-14	25-Oct-14																																				
972	PROC.FOF1.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14*	28-Jul-14	Issue For Bid & Receive Bids From Venders																																			
973	PROC.FOF1.20	Issue Purchase Order & Receive/Review Shop Drawings	10.0	29-Jul-14	11-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
974	PROC.FOF1.30	Approve Vendor Drawings & Fabrication Time	25.0	12-Aug-14	15-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
975	PROC.FOF1.40	Perform FAT & Sign Off	2.0	16-Sep-14	17-Sep-14	Perform FAT & Sign Off																																			
976	PROC.FOF1.50	Ship From Vender to Houston, TX Port	2.0	18-Sep-14	19-Sep-14	Ship From Vender to Houston, TX Port																																			
977	PROC.FOF1.80	Load on Vessel	5.0	20-Sep-14	23-Sep-14	Load on Vessel																																			
978	PROC.FOF1.60	Ship From Houston, TX to Bay Bulls Port	35.0	24-Sep-14	21-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
979	PROC.FOF1.70	Transport From Bay Bulls' Port to Jobsite	5.0	22-Oct-14	25-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			
980	Fuel Oil Filter Skid #2		86.1	22-Jul-14	25-Oct-14																																				
981	PROC.FOF2.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14*	28-Jul-14	Issue For Bid & Receive Bids From Venders																																			
982	PROC.FOF2.20	Issue Purchase Order & Receive/Review Shop Drawings	10.0	29-Jul-14	11-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
983	PROC.FOF2.30	Approve Vendor Drawings & Fabrication Time	25.0	12-Aug-14	15-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
984	PROC.FOF2.40	Perform FAT & Sign Off	2.0	16-Sep-14	17-Sep-14	Perform FAT & Sign Off																																			
985	PROC.FOF2.50	Ship From Vender to Houston, TX Port	2.0	18-Sep-14	19-Sep-14	Ship From Vender to Houston, TX Port																																			
986	PROC.FOF2.80	Load on Vessel	5.0	20-Sep-14	23-Sep-14	Load on Vessel																																			
987	PROC.FOF2.60	Ship From Houston, TX to Bay Bulls Port	35.0	24-Sep-14	21-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
988	PROC.FOF2.70	Transport From Bay Bulls' Port to Jobsite	5.0	22-Oct-14	25-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			

100 MW Combustion Turbine Project

22-Jul-14



100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																																			
						14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11
1034	PROC.IAR.70	Transport From Bay Bulls' Port to Jobsite	5.0	13-Sep-14	16-Sep-14	Transport From Bay Bulls' Port to Jobsite																																			
1035	Waste Water System		102.1	22-Jul-14 A	13-Nov-14																																				
1036	Oily Water Sperator		102.1	22-Jul-14 A	13-Nov-14																																				
1037	PROC.WW.10	Issue For Bid & Receive Bids From Venders	4.8	22-Jul-14 A	29-Jul-14	Issue For Bid & Receive Bids From Venders																																			
1038	PROC.WW.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	05-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
1039	PROC.WW.30	Approve Vendor Drawings & Fabrication Time	25.0	05-Aug-14	09-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
1040	PROC.WW.40	Perform FAT & Sign Off	1.0	09-Sep-14	10-Sep-14	Perform FAT & Sign Off																																			
1041	PROC.WW.50	Ship From Vender to Houston, TX Port	5.0	10-Sep-14	17-Sep-14	Ship From Vender to Houston, TX Port																																			
1042	PROC.WW.90	Load on Vessel	5.0	17-Sep-14	21-Sep-14	Load on Vessel																																			
1043	PROC.WW.60	Ship From Houston, TX to Bay Bulls Port	35.0	21-Sep-14	19-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
1044	PROC.WW.70	Transport From Bay Bulls' Port to Jobsite	5.0	19-Oct-14	23-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			
1045	Oilly Water Sperator Water Pump		102.1	22-Jul-14 A	13-Nov-14																																				
1046	PROC.WW.100	Issue For Bid & Receive Bids From Venders	4.8	22-Jul-14 A	29-Jul-14	Issue For Bid & Receive Bids From Venders																																			
1047	PROC.WW.110	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	05-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
1048	PROC.WW.120	Approve Vendor Drawings & Fabrication Time	40.0	05-Aug-14	30-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
1049	PROC.WW.130	Perform FAT & Sign Off	1.0	30-Sep-14	01-Oct-14	Perform FAT & Sign Off																																			
1050	PROC.WW.140	Ship From Vender to Houston, TX Port	5.0	01-Oct-14	08-Oct-14	Ship From Vender to Houston, TX Port																																			
1051	PROC.WW.150	Load on Vessel	5.0	08-Oct-14	12-Oct-14	Load on Vessel																																			
1052	PROC.WW.160	Ship From Houston, TX to Bay Bulls Port	35.0	12-Oct-14	09-Nov-14	Ship From Houston, TX to Bay Bulls Port																																			
1053	PROC.WW.170	Transport From Bay Bulls' Port to Jobsite	5.0	09-Nov-14	13-Nov-14	Transport From Bay Bulls' Port to Jobsite																																			
1054	Fire Protection System		76.1	22-Jul-14	14-Oct-14																																				
1055	PROC.FPS.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14	Issue For Bid & Receive Bids From Venders																																			
1056	PROC.FPS.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																			
1057	PROC.FPS.30	Approve Vendor Drawings & Fabrication Time	20.0	05-Aug-14	02-Sep-14	Approve Vendor Drawings & Fabrication Time																																			
1058	PROC.FPS.50	Ship From Vender to Houston, TX Port	2.0	03-Sep-14	04-Sep-14	Ship From Vender to Houston, TX Port																																			
1059	PROC.FPS.80	Load on Vessel	10.0	05-Sep-14	12-Sep-14	Load on Vessel																																			
1060	PROC.FPS.60	Ship From Houston, TX to Bay Bulls Port	35.0	13-Sep-14	10-Oct-14	Ship From Houston, TX to Bay Bulls Port																																			
1061	PROC.FPS.70	Transport From Bay Bulls' Port to Jobsite	5.0	11-Oct-14	14-Oct-14	Transport From Bay Bulls' Port to Jobsite																																			
1062	Unit 100 (501 D5A & Auxillaries)		109.0	19-May-14 A	20-Nov-14																																				
1063	501 D5A Package		104.6	19-May-14 A	14-Nov-14																																				
1064	PROC.100.10	Inventory Unit Contents	0.0	20-May-14 A	23-May-14 A	Inventory Unit Contents																																			
1065	PROC.100.20	Issue Purchase Order, Perform FAT & Sign Off	0.0	30-May-14 A	02-Jun-14 A	Issue Purchase Order, Perform FAT & Sign Off																																			
1066	PROC.100.30	Crate Unit for Shipping	0.0	09-Jun-14 A	14-Jun-14 A	Crate Unit for Shipping																																			
1067	PROC.100.80	Schedule Barge	0.0	17-Jun-14 A	27-Jun-14 A	Schedule Barge																																			
1068	PROC.100.40	Ship From Vender to Houston, TX Port	0.0	27-Jun-14 A	06-Jul-14 A	Ship From Vender to Houston, TX Port																																			
1069	PROC.100.140	Load on ship	0.0	07-Jul-14 A	09-Jul-14 A	Load on ship																																			
1070	PROC.100.50	Ship From Houston, TX to Bay Bulls Port	0.0	09-Jul-14 A	19-Jul-14 A	Ship From Houston, TX to Bay Bulls Port																																			
1071	PROC.100.60	Transport From Bay Bulls' Port to Jobsite	4.5	21-Jul-14 A	25-Jul-14	Transport From Bay Bulls' Port to Jobsite																																			
1072	Exhaust Damper		104.5	19-May-14 A	14-Nov-14																																				
1073	PROC.100.70	Stack Damper Design & Receive/Review Shop Drawings	1.1	19-May-14 A	23-Jul-14	Stack Damper Design & Receive/Review Shop Drawings																																			
1074	PROC.100.360	Approve Vendor Drawings & Fabrication Time	72.5	23-Jul-14	31-Oct-14	Approve Vendor Drawings & Fabrication Time																																			
1075	PROC.100.390	Transport From Vender to Jobsite	17.5	31-Oct-14	14-Nov-14	Transport From Vender to Jobsite																																			
1076	Fuel Conversion		104.4	11-Jun-14 A	13-Oct-14																																				
1077	Combustion Baskets/ Cross Fire Tubes		93.4	11-Jun-14 A	04-Oct-14																																				
1078	PROC.100.280	Issue PO	0.0	11-Jun-14 A	11-Jun-14 A	Issue PO																																			

100 MW Combustion Turbine Project

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1079	PROC.100.290	Manufacture Combustion Baskets	69.8	11-Jun-14 A	15-Sep-14
1080	PROC.100.200	Perform Final Inspection @ Turbine Services	8.8	15-Sep-14	22-Sep-14
1081	PROC.100.210	Air Freight From PES to Newfoundland	5.0	26-Sep-14*	30-Sep-14
1082	PROC.100.340	Ship From Airport to Site	5.0	30-Sep-14	04-Oct-14
1083	Fuel Nozzles		104.4	11-Jun-14 A	13-Oct-14
1084	PROC.100.300	Issue PO	0.0	11-Jun-14 A	11-Jun-14 A
1085	PROC.100.310	Manufacture Fuel Nozzzles	89.7	11-Jun-14 A	01-Oct-14
1086	PROC.100.230	Perform Final Inspection @ Turbine Services	4.6	01-Oct-14	05-Oct-14
1087	PROC.100.240	Air Freight From PES to Newfoundland	5.0	05-Oct-14	09-Oct-14
1088	PROC.100.350	Ship From Airport to Site	5.0	09-Oct-14	13-Oct-14
1089	Transition Pieces		97.1	14-Jul-14 A	07-Oct-14
1090	PROC.100.320	Issue PO	0.0	14-Jul-14 A	15-Jul-14 A
1091	PROC.100.330	Modify TP's	69.6	15-Jul-14 A	15-Sep-14
1092	PROC.100.260	Air Freight From PES to Newfoundland	5.0	26-Sep-14	30-Sep-14
1093	PROC.100.270	Ship From Airport to Site	8.8	30-Sep-14	07-Oct-14
1094	Atomizing Air & Water Manifold		79.9	14-Jul-14 A	19-Oct-14
1095	PROC.100MF.10	Issue For Bid & Receive Bids From Venders	0.3	14-Jul-14 A	22-Jul-14
1096	PROC.100MF.20	Issue Purchase Order & Receive/Review Shop Drawings	14.8	18-Jul-14 A	12-Aug-14
1097	PROC.100MF.30	Approve Vendor Drawings & Fabrication Time	20.0	12-Aug-14	09-Sep-14
1098	PROC.100MF.40	Perform FAT & Sign Off	2.0	09-Sep-14	11-Sep-14
1099	PROC.100MF.50	Transport From Vender to Houston, TX Port	2.0	11-Sep-14	12-Sep-14
1100	PROC.100MF.60	Load on Ship	6.3	12-Sep-14	17-Sep-14
1101	PROC.100MF.70	Ship From Houston, TX to Bay Bulls Port	35.0	17-Sep-14	15-Oct-14
1102	PROC.100MF.80	Transport From Bay Bulls' Port to Jobsite	5.0	15-Oct-14	19-Oct-14
1103	Water Injection Skid		108.8	14-Jul-14 A	20-Nov-14
1104	PROC.100WI.10	Issue For Bid & Receive Bids From Venders	0.3	14-Jul-14 A	22-Jul-14
1105	PROC.100WI.20	Issue Purchase Order & Receive/Review Shop Drawings	14.8	18-Jul-14 A	12-Aug-14
1106	PROC.100WI.30	Approve Vendor Drawings & Fabrication Time	60.0	12-Aug-14	04-Nov-14
1107	PROC.100WI.70	Perform FAT & Sign Off	2.0	04-Nov-14	06-Nov-14
1108	PROC.100WI.60	Transport From Vender to Jobsite	17.5	06-Nov-14	20-Nov-14
1109	Inlet Filter House		81.7	23-May-14 A	21-Oct-14
1110	PROC.IFH.10	Issue For Bid & Receive Bids From Venders	0.0	30-May-14 A	23-Jun-14 A
1111	PROC.IFH.20	Issue Purchase Order & Receive/Review Shop Drawings	0.0	09-Jun-14 A	03-Jul-14 A
1112	PROC.IFH.30	Approve Vender Drawings & Fabrication Time (Rain Hood/Duct Supports)	0.4	03-Jul-14 A	22-Jul-14
1113	PROC.IFH.80	Perform FAT & Sign Off	1.0	22-Jul-14	23-Jul-14
1114	PROC.IFH.40	Ship From Vender to Houston, TX Port	2.0	23-Jul-14	25-Jul-14
1115	PROC.IFH.90	Load on Vessel	5.0	25-Jul-14	01-Aug-14
1116	PROC.IFH.50	Ship From Houston, TX to Bay Bulls Port	35.0	01-Aug-14	29-Aug-14
1117	PROC.IFH.60	Transport From Bay Bulls' Port to Jobsite	5.0	29-Aug-14	02-Sep-14
1118	Inlet Heating		81.7	23-May-14 A	21-Oct-14
1119	PROC.IHC.10	Issue Purchase Order & Receive/Review Shop Drawings	0.0	23-May-14 A	21-Jul-14 A
1120	PROC.IHC.20	Approve Vendor Drawings & Fabrication Time	54.5	22-Jul-14 A	06-Oct-14
1121	PROC.IHC.30	Perform FAT & Sign Off	1.0	06-Oct-14	07-Oct-14
1122	PROC.IHC.60	Transport From Vender to Jobsite	17.5	07-Oct-14	21-Oct-14
1123	Fuel Heating Package		100.3	22-Jul-14	11-Nov-14

 Actual Work   Milestone
 Remaining Work  Summary
 Critical Remaining Work

100 MW Combustion Turbine (Integrated)...

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100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14		June 2014					July 2014					August 2014					S					October 2014					N					D					January 2015					F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1124	PROC.FHP.10	Issue Purchase Order & Receive/Review Shop Drawings	10.0	22-Jul-14*	04-Aug-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1169		PROC.GSU.20 Perform FAT Test & Sign Off	0.0	30-May-14 A	30-May-14 A
1170		PROC.GSU.30 Ship From Vender to Houston, TX Port	0.0	02-Jun-14 A	02-Jun-14 A
1171		PROC.GSU.10 Issue Purchase Order & Receive/Review Shop Drawings	0.0	29-May-14 A	02-Jun-14 A
1172		PROC.GSU.100 Load on Vessel	0.0	09-Jul-14 A	09-Jul-14 A
1173		PROC.GSU.40 Ship From Houston, TX to Bay Bulls Port	0.0	09-Jul-14 A	19-Jul-14 A
1174		PROC.GSU.50 Transport From Bay Bulls' Port to Jobsite	4.5	21-Jul-14 A	25-Jul-14
1175		Medium Voltage (1kV - 13.8kV)	111.3	16-May-14 A	21-Nov-14
1176		13.8kV to 4.16kV Auxillary Transformer	4.5	26-Jun-14 A	25-Jul-14
1177		PROC.XMFR1.10 Issue For Bid & Receive Bids From Venders	0.0	26-Jun-14 A	26-Jun-14 A
1178		PROC.XMFR1.20 Issue Purchase Order & Receive/Review Shop Drawings	0.0	26-Jun-14 A	26-Jun-14 A
1179		PROC.XMFR1.30 Approve Vendor Drawings & Fabrication Time	0.0	26-Jun-14 A	26-Jun-14 A
1180		PROC.XMFR1.40 Perform FAT & Sign Off	0.0	26-Jun-14 A	26-Jun-14 A
1181		PROC.XMFR1.50 Ship From Vender to Houston, TX Port	0.0	02-Jul-14 A	03-Jul-14 A
1182		PROC.XMFR1.80 Load on Vessel	0.0	09-Jul-14 A	09-Jul-14 A
1183		PROC.XMFR1.60 Ship From Houston, TX to Bay Bulls Port	0.0	09-Jul-14 A	19-Jul-14 A
1184		PROC.XMFR1.70 Transport From Bay Bulls' Port to Jobsite	4.5	21-Jul-14 A	25-Jul-14
1185		4.16kV to 480V Auxillary Transformer	85.4	26-Jun-14 A	24-Oct-14
1186		PROC.XMFR2.10 Issue For Bid & Receive Bids From Venders	0.0	26-Jun-14 A	02-Jul-14 A
1187		PROC.XMFR2.20 Issue Purchase Order & Receive/Review Shop Drawings	0.0	03-Jul-14 A	10-Jul-14 A
1188		PROC.XMFR2.30 Approve Vendor Drawings & Fabrication Time	33.4	10-Jul-14 A	05-Sep-14
1189		PROC.XMFR2.70 Perform FAT & Sign Off	1.0	05-Sep-14	08-Sep-14
1190		PROC.XMFR2.40 Ship From Vender to Houston, TX Port	5.0	08-Sep-14	15-Sep-14
1191		PROC.XMFR2.80 Load on Vessel	5.0	15-Sep-14	22-Sep-14
1192		PROC.XMFR2.50 Ship From Houston, TX to Bay Bulls Port	35.0	22-Sep-14	20-Oct-14
1193		PROC.XMFR2.60 Transport From Bay Bulls' Port to Jobsite	5.0	20-Oct-14	24-Oct-14
1194		13.8kV Generator Circuit Breaker	48.6	16-May-14 A	14-Sep-14
1195		PROC.GENCB13I Issue For Bid & Receive Bids From Venders	0.0	16-May-14 A	05-Jun-14 A
1196		PROC.GENCB13I Issue Purchase Order & Receive/Review Shop Drawings	0.0	06-Jun-14 A	05-Jul-14 A
1197		PROC.GENCB13I Approve Vendor Drawings & Fabrication Time (Delivered to US)	31.9	07-Jul-14 A	03-Sep-14
1198		PROC.GENCB13I Perform FAT & Sign Off	1.0	03-Sep-14	04-Sep-14
1199		PROC.GENCB13I Ship From Vender to Bay Bulls	5.0	04-Sep-14	11-Sep-14
1200		PROC.GENCB13I Transport From Bay Bulls' Port to Jobsite	3.8	11-Sep-14	14-Sep-14
1201		13.8kV Generator Switchgear	98.6	22-Jul-14	08-Nov-14
1202		PROC.GENSW.10 Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14
1203		PROC.GENSW.20 Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14
1204		PROC.GENSW.30 Approve Vendor Drawings & Fabrication Time	36.3	05-Aug-14	24-Sep-14
1205		PROC.GENSW.50 Ship From Vender to Houston, TX Port	5.0	24-Sep-14	01-Oct-14
1206		PROC.GENSW.80 Load on Vessel	5.0	01-Oct-14	08-Oct-14
1207		PROC.GENSW.60 Ship From Houston, TX to Bay Bulls Port	35.0	08-Oct-14	05-Nov-14
1208		PROC.GENSW.70 Transport From Bay Bulls' Port to Jobsite	3.8	05-Nov-14	08-Nov-14
1209		4.16kV Switchgear	111.1	22-Jul-14	21-Nov-14
1210		PROC.416SW.10 Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14
1211		PROC.416SW.20 Issue Purchase Order & Receive/Review Shop Drawings	15.0	29-Jul-14	18-Aug-14
1212		PROC.416SW.30 Approve Vendor Drawings & Fabrication Time	35.0	19-Aug-14	06-Oct-14
1213		PROC.416SW.50 Ship From Vender to Houston, TX Port	5.0	07-Oct-14	13-Oct-14

100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1214	PROC.416SW.80	Load on Vessel	5.0	14-Oct-14	20-Oct-14
1215	PROC.416SW.60	Ship From Houston, TX to Bay Bulls Port	35.0	21-Oct-14	17-Nov-14
1216	PROC.416SW.70	Transport From Bay Bulls' Port to Jobsite	5.0	18-Nov-14	21-Nov-14
1217	4.16kV Generator Circuit Breaker		102.5	25-Jul-14	18-Nov-14
1218	PROC.GENCB41I	Issue For Bid & Receive Bids From Venders	5.0	25-Jul-14	01-Aug-14
1219	PROC.GENCB41I	Issue Purchase Order & Receive/Review Shop Drawings	5.0	01-Aug-14	08-Aug-14
1220	PROC.GENCB41I	Approve Vendor Drawings & Fabrication Time	40.0	08-Aug-14	03-Oct-14
1221	PROC.GENCB41I	Ship From Vender to Houston, TX Port	5.0	03-Oct-14	10-Oct-14
1222	PROC.GENCB41I	Load on Vessel	5.0	10-Oct-14	17-Oct-14
1223	PROC.GENCB41I	Ship From Houston, TX to Bay Bulls Port	35.0	17-Oct-14	14-Nov-14
1224	PROC.GENCB41I	Transport From Bay Bulls' Port to Jobsite	5.0	14-Nov-14	18-Nov-14
1225	Iso Phase Buss		64.0	07-Aug-14	18-Oct-14
1226	PROC.IPB.10	Issue For Bid & Receive Bids From Venders	2.5	07-Aug-14	12-Aug-14
1227	PROC.IPB.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	12-Aug-14	19-Aug-14
1228	PROC.IPB.30	Approve Vendor Drawings & Fabrication Time	10.0	19-Aug-14	02-Sep-14
1229	PROC.IPB.50	Ship From Vender to Houston, TX Port	5.0	02-Sep-14	09-Sep-14
1230	PROC.IPB.80	Load on Vessel	5.0	09-Sep-14	16-Sep-14
1231	PROC.IPB.60	Ship From Houston, TX to Bay Bulls Port	35.0	16-Sep-14	14-Oct-14
1232	PROC.IPB.70	Transport From Bay Bulls' Port to Jobsite	5.0	14-Oct-14	18-Oct-14
1233	Low Voltage (< 1kV)		102.4	24-Jul-14	16-Nov-14
1234	480V Switchgear		94.0	01-Aug-14	16-Nov-14
1235	PROC.480SW.10	Issue For Bid & Receive Bids From Venders	5.0	01-Aug-14	08-Aug-14
1236	PROC.480SW.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	08-Aug-14	15-Aug-14
1237	PROC.480SW.30	Approve Vendor Drawings & Fabrication Time	36.3	15-Aug-14	07-Oct-14
1238	PROC.480SW.50	Ship From Vender to Houston, TX Port	2.5	07-Oct-14	09-Oct-14
1239	PROC.480SW.80	Load on Vessel	5.0	09-Oct-14	16-Oct-14
1240	PROC.480SW.60	Ship From Houston, TX to Bay Bulls Port	35.0	16-Oct-14	13-Nov-14
1241	PROC.480SW.70	Transport From Bay Bulls' Port to Jobsite	3.8	13-Nov-14	16-Nov-14
1242	480V MCC's		95.9	24-Jul-14	07-Nov-14
1243	PROC.480MCC.10	Issue For Bid & Receive Bids From Venders	5.0	24-Jul-14	30-Jul-14
1244	PROC.480MCC.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	31-Jul-14	06-Aug-14
1245	PROC.480MCC.30	Approve Vendor Drawings & Fabrication Time	36.3	07-Aug-14	26-Sep-14
1246	PROC.480MCC.50	Ship From Vender to Houston, TX Port	2.5	26-Sep-14	30-Sep-14
1247	PROC.480MCC.80	Load on Vessel	5.0	30-Sep-14	07-Oct-14
1248	PROC.480MCC.60	Ship From Houston, TX to Bay Bulls Port	35.0	07-Oct-14	04-Nov-14
1249	PROC.480MCC.70	Transport From Bay Bulls' Port to Jobsite	3.8	04-Nov-14	07-Nov-14
1250	UPS/ Batteries & Chargers		77.5	12-Aug-14	06-Nov-14
1251	PROC.UPS.10	Issue For Bid & Receive Bids From Venders	5.0	12-Aug-14*	19-Aug-14
1252	PROC.UPS.20	Issue Purchase Order & Receive/Review Shop Drawings	10.0	19-Aug-14	02-Sep-14
1253	PROC.UPS.30	Approve Vendor Drawings & Fabrication Time	15.0	02-Sep-14	23-Sep-14
1254	PROC.UPS.40	Perform FAT & Sign Off	1.0	23-Sep-14	24-Sep-14
1255	PROC.UPS.50	Ship From Vender to Houston, TX Port	5.0	24-Sep-14	01-Oct-14
1256	PROC.UPS.60	Load on Vessel	5.0	01-Oct-14	05-Oct-14
1257	PROC.UPS.70	Ship From Houston, TX to Bay Bulls Port	35.0	05-Oct-14	02-Nov-14
1258	PROC.UPS.80	Transport From Bay Bulls' Port to Jobsite	5.0	02-Nov-14	06-Nov-14

100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Timeline																																			
						14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11
1259	Interior & Exterior Lighting			64.2	07-Aug-14	18-Oct-14																																			
1260	PROC.SL.10	Issue For Bid & Receive Bids From Venders	5.0	07-Aug-14*	14-Aug-14																																				
1261	PROC.SL.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	14-Aug-14	21-Aug-14																																				
1262	PROC.SL.30	Approve Vendor Drawings & Fabrication Time	10.0	21-Aug-14	04-Sep-14																																				
1263	PROC.SL.40	Perform FAT & Sign Off	1.0	04-Sep-14	05-Sep-14																																				
1264	PROC.SL.50	Ship From Vender to Houston, TX Port	5.0	05-Sep-14	12-Sep-14																																				
1265	PROC.SL.60	Load on Vessel	5.0	12-Sep-14	16-Sep-14																																				
1266	PROC.SL.70	Ship From Houston, TX to Bay Bulls Port	35.0	16-Sep-14	14-Oct-14																																				
1267	PROC.SL.80	Transport From Bay Bulls' Port to Jobsite	5.0	14-Oct-14	18-Oct-14																																				
1268	Blackstart / Emergency System			79.9	20-May-14 A	18-Oct-14																																			
1269	Blackstart Generator (Solar)			79.9	20-May-14 A	18-Oct-14																																			
1270	PROC.BSG.90	Verify if Generator Meets Black Start Application Needs	0.0	20-May-14 A	31-May-14 A																																				
1271	PROC.BSG.20	Commission & First Fire Unit (Controls/Electrical/Etc.)	0.0	09-Jun-14 A	02-Jul-14 A																																				
1272	PROC.BSG.140	Final Adjustments & Operational Verification	0.0	02-Jul-14 A	10-Jul-14 A																																				
1273	PROC.BSG.130	Perform FAT & Sign Off	3.0	10-Jul-14 A	24-Jul-14																																				
1274	PROC.BSG.30	Clean Up & Crate	0.8	11-Jul-14 A	25-Jul-14																																				
1275	PROC.BSG.40	Ship From Vender to Houston, TX Port	2.0	25-Jul-14	29-Jul-14																																				
1276	PROC.BSG.160	Load on Vessel	5.0	29-Jul-14	05-Aug-14																																				
1277	PROC.BSG.50	Ship From Houston, TX to Bay Bulls Port	35.0	05-Aug-14	02-Sep-14																																				
1278	PROC.BSG.60	Transport From Bay Bulls' Port to Jobsite	5.0	02-Sep-14	06-Sep-14																																				
1279	Exhaust			20.0	29-May-14 A	18-Aug-14																																			
1280	PROC.BSG.10	Stack Extension Design & Fabrication	13.5	29-May-14 A	08-Aug-14																																				
1281	PROC.BSG.70	Stack Damper Design & Fabrication	20.0	22-Jul-14	18-Aug-14																																				
1282	Inlet			29.4	21-Jul-14 A	01-Sep-14																																			
1283	PROC.BSG.80	Inlet Intake De-Icing Design & Fabrication	29.4	21-Jul-14 A	01-Sep-14																																				
1284	4160V Generator Install			79.9	13-Jun-14 A	18-Oct-14																																			
1285	PROC.BSG.150	Ship Generator From Sedalia to Vender	0.0	13-Jun-14 A	16-Jun-14 A																																				
1286	PROC.BSG.100	Inspect Generator, Rewind	32.5	17-Jun-14 A	04-Sep-14																																				
1287	PROC.BSG.170	Ship From Vender to Houston, TX Port	3.0	04-Sep-14	09-Sep-14																																				
1288	PROC.BSG.180	Load on Vessel	5.0	09-Sep-14	16-Sep-14																																				
1289	PROC.BSG.190	Ship From Houston, TX to Bay Bulls Port	35.0	16-Sep-14	14-Oct-14																																				
1290	PROC.BSG.200	Transport From Bay Bulls' Port to Jobsite	5.0	14-Oct-14	18-Oct-14																																				
1291	Emergency Generator			72.7	24-Jun-14 A	10-Oct-14																																			
1292	PROC.EG.10	Issue For Bid & Receive Bids From Venders	0.0	24-Jun-14 A	27-Jun-14 A																																				
1293	PROC.EG.20	Issue Purchase Order & Receive/Review Shop Drawings	0.0	27-Jun-14 A	19-Jul-14 A																																				
1294	PROC.EG.30	Approve Vendor Drawings & Fabrication Time	26.2	21-Jul-14 A	27-Aug-14																																				
1295	PROC.EG.70	Perform FAT & Sign Off	1.0	27-Aug-14	28-Aug-14																																				
1296	PROC.EG.40	Ship From Vender to Houston, TX Port	5.0	28-Aug-14	04-Sep-14																																				
1297	PROC.EG.80	Load on Vessel	5.0	04-Sep-14	08-Sep-14																																				
1298	PROC.EG.50	Ship From Houston, TX to Bay Bulls Port	35.0	08-Sep-14	06-Oct-14																																				
1299	PROC.EG.60	Transport From Bay Bulls' Port to Jobsite	5.0	06-Oct-14	10-Oct-14																																				
1300	Underground Trench			71.1	12-Aug-14	29-Oct-14																																			
1301	PROC.TRNCH.10	Issue For Bid & Receive Bids From Venders	5.0	12-Aug-14*	18-Aug-14																																				
1302	PROC.TRNCH.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	19-Aug-14	25-Aug-14																																				
1303	PROC.TRNCH.30	Approve Vendor Drawings & Fabrication Time	15.0	26-Aug-14	15-Sep-14																																				

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 Remaining Work  Summary
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100 MW Combustion Turbine (Integrated)...

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100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Gantt Chart																																									
						14 June 2014							July 2014							August 2014							S October 2014							N D January 2015							F						
1304	PROC.TRNCH.40	Perform FAT & Sign Off	1.0	16-Sep-14	16-Sep-14	Perform FAT & Sign Off																																									
1305	PROC.TRNCH.50	Ship From Vender to Houston, TX Port	5.0	17-Sep-14	23-Sep-14	Ship From Vender to Houston, TX Port																																									
1306	PROC.TRNCH.60	Load on Vessel	5.0	24-Sep-14	27-Sep-14	Load on Vessel																																									
1307	PROC.TRNCH.70	Ship From Houston, TX to Bay Bulls Port	35.0	28-Sep-14	25-Oct-14	Ship From Houston, TX to Bay Bulls Port																																									
1308	PROC.TRNCH.80	Transport From Bay Bulls' Port to Jobsite	5.0	26-Oct-14	29-Oct-14	Transport From Bay Bulls' Port to Jobsite																																									
1309	Cable		51.8	22-Jul-14	17-Sep-14																																										
1310	PROC.CBL.10	Issue For Bid & Receive Bids From Venders	2.5	22-Jul-14*	24-Jul-14	Issue For Bid & Receive Bids From Venders																																									
1311	PROC.CBL.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	24-Jul-14	31-Jul-14	Issue Purchase Order & Receive/Review Shop Drawings																																									
1312	PROC.CBL.30	Approve Vendor Drawings & Fabrication Time	5.0	31-Jul-14	07-Aug-14	Approve Vendor Drawings & Fabrication Time																																									
1313	PROC.CBL.40	Perform FAT & Sign Off	1.0	07-Aug-14	08-Aug-14	Perform FAT & Sign Off																																									
1314	PROC.CBL.50	Ship From Vender to Houston, TX Port	2.0	08-Aug-14	12-Aug-14	Ship From Vender to Houston, TX Port																																									
1315	PROC.CBL.80	Load on Vessel	5.0	12-Aug-14	16-Aug-14	Load on Vessel																																									
1316	PROC.CBL.60	Ship From Houston, TX to Bay Bulls Port	35.0	16-Aug-14	13-Sep-14	Ship From Houston, TX to Bay Bulls Port																																									
1317	PROC.CBL.70	Transport From Bay Bulls' Port to Jobsite	5.0	13-Sep-14	17-Sep-14	Transport From Bay Bulls' Port to Jobsite																																									
1318	Cable Tray		71.1	11-Aug-14	28-Oct-14																																										
1319	PROC.CBLTRY.10	Issue For Bid & Receive Bids From Venders	5.0	11-Aug-14*	15-Aug-14	Issue For Bid & Receive Bids From Venders																																									
1320	PROC.CBLTRY.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	18-Aug-14	22-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																									
1321	PROC.CBLTRY.30	Approve Vendor Drawings & Fabrication Time	15.0	25-Aug-14	12-Sep-14	Approve Vendor Drawings & Fabrication Time																																									
1322	PROC.CBLTRY.40	Perform FAT & Sign Off	1.0	15-Sep-14	15-Sep-14	Perform FAT & Sign Off																																									
1323	PROC.CBLTRY.50	Ship From Vender to Houston, TX Port	5.0	16-Sep-14	22-Sep-14	Ship From Vender to Houston, TX Port																																									
1324	PROC.CBLTRY.60	Load on Vessel	5.0	23-Sep-14	26-Sep-14	Load on Vessel																																									
1325	PROC.CBLTRY.70	Ship From Houston, TX to Bay Bulls Port	35.0	27-Sep-14	24-Oct-14	Ship From Houston, TX to Bay Bulls Port																																									
1326	PROC.CBLTRY.80	Transport From Bay Bulls' Port to Jobsite	5.0	25-Oct-14	28-Oct-14	Transport From Bay Bulls' Port to Jobsite																																									
1327	Electrical Conduit		63.6	02-Jul-14 A	30-Sep-14																																										
1328	Electrical Rigid Conduit (Above Ground)		63.6	22-Jul-14	30-Sep-14																																										
1329	PROC.ERCNDT.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14*	28-Jul-14	Issue For Bid & Receive Bids From Venders																																									
1330	PROC.ERCNDT.20	Issue Purchase Order & Receive/Review Shop Drawings	5.0	29-Jul-14	04-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																									
1331	PROC.ERCNDT.30	Approve Vendor Drawings & Fabrication Time	10.0	05-Aug-14	18-Aug-14	Approve Vendor Drawings & Fabrication Time																																									
1332	PROC.ERCNDT.50	Ship From Vender to Houston, TX Port	5.0	19-Aug-14	25-Aug-14	Ship From Vender to Houston, TX Port																																									
1333	PROC.ERCNDT.60	Load on Vessel	5.0	26-Aug-14	29-Aug-14	Load on Vessel																																									
1334	PROC.ERCNDT.70	Ship From Houston, TX to Bay Bulls Port	35.0	30-Aug-14	26-Sep-14	Ship From Houston, TX to Bay Bulls Port																																									
1335	PROC.ERCNDT.80	Transport From Bay Bulls' Port to Jobsite	5.0	27-Sep-14	30-Sep-14	Transport From Bay Bulls' Port to Jobsite																																									
1336	Electrical Conduit (Under Ground)		20.0	02-Jul-14 A	25-Aug-14																																										
1337	PROC.UGCNDT.10	Issue For Bid & Receive Bids From Venders	4.0	02-Jul-14 A	01-Aug-14	Issue For Bid & Receive Bids From Venders																																									
1338	PROC.UGCNDT.20	Issue Purchase Order & Receive/Review Shop Drawings	4.0	03-Jul-14 A	07-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																									
1339	PROC.UGCNDT.30	Approve Vendor Drawings & Fabrication Time	8.0	03-Jul-14 A	19-Aug-14	Approve Vendor Drawings & Fabrication Time																																									
1340	PROC.UGCNDT.50	Ship From Vender to Jobsite	4.0	03-Jul-14 A	25-Aug-14	Ship From Vender to Jobsite																																									
1341	Grounding System		30.0	02-Jun-14 A	25-Aug-14																																										
1342	PROC.GRND.10	Issue For Bid & Receive Bids From Venders	0.0	02-Jun-14 A	04-Jun-14 A	Issue For Bid & Receive Bids From Venders																																									
1343	PROC.GRND.20	Issue Purchase Order & Receive/Review Shop Drawings	9.0	23-Jun-14 A	01-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																									
1344	PROC.GRND.30	Approve Vendor Drawings & Fabrication Time	13.5	24-Jun-14 A	21-Aug-14	Approve Vendor Drawings & Fabrication Time																																									
1345	PROC.GRND.80	Ship From Vender to Jobsite	4.5	25-Jun-14 A	25-Aug-14	Ship From Vender to Jobsite																																									
1346	Lightning Protection		76.1	22-Jul-14	14-Oct-14																																										
1347	PROC.LGTN.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14*	28-Jul-14	Issue For Bid & Receive Bids From Venders																																									
1348	PROC.LGTN.20	Issue Purchase Order & Receive/Review Shop Drawings	10.0	29-Jul-14	11-Aug-14	Issue Purchase Order & Receive/Review Shop Drawings																																									

100 MW Combustion Turbine Project

22-Jul-14

#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014					July 2014					August 2014					S					October 2014					N					D					January 2015					F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1349	PROC.LGTN.30	Approve Vendor Drawings & Fabrication Time	15.0	12-Aug-14	01-Sep-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14 June 2014 July 2014 August 2014 S October 2014 N D January 2015 F																																		
						8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11
1394	PROC.MSCSTL.50	Ship From Vender to Houston, TX Port	2.0	08-Sep-14	09-Sep-14	Ship From Vender to Houston, TX Port																																		
1395	PROC.MSCSTL.80	Load on Vessel	5.0	10-Sep-14	16-Sep-14	Load on Vessel																																		
1396	PROC.MSCSTL.60	Ship From Houston, TX to Bay Bulls Port	35.0	17-Sep-14	14-Oct-14	Ship From Houston, TX to Bay Bulls Port																																		
1397	PROC.MSCSTL.70	Transport From Bay Bulls' Port to Jobsite	5.0	15-Oct-14	18-Oct-14	Transport From Bay Bulls' Port to Jobsite																																		
1398	Foundation Anchors, Imbeds & Mounting Steel		23.6	04-Jun-14 A	17-Aug-14																																			
1399	CTG Anchors, Imbeds & Mounting Steel		17.4	04-Jun-14 A	08-Aug-14																																			
1400	Power Block Anchors, Imbeds & Mounting Steel		0.0	04-Jun-14 A	30-Jun-14 A																																			
1401	PROC.FND.PB.10	Issue For Bid & Receive Bids From Venders	0.0	04-Jun-14 A	17-Jun-14 A																																			
1402	PROC.FND.PB.20	Issue Purchase Order & Fabrication Time	0.0	17-Jun-14 A	23-Jun-14 A																																			
1403	PROC.FND.PB.70	Ship From Vender to Northeast (Via Air Freight)	0.0	23-Jun-14 A	27-Jun-14 A																																			
1404	PROC.FND.PB.80	Transport From Airport to Jobsite	0.0	26-Jun-14 A	30-Jun-14 A																																			
1405	Exhaust Anchors, Imbeds & Mounting Steel		17.4	22-Jul-14	08-Aug-14																																			
1406	PROC.FND.EX.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14																																			
1407	PROC.FND.EX.20	Issue Purchase Order & Fabrication Time	5.0	29-Jul-14	04-Aug-14																																			
1408	PROC.FND.EX.60	Transport From Vender to Jobsite	5.0	05-Aug-14	08-Aug-14																																			
1409	Intake Air Filter House Anchors, Imbeds & Mounting Steel		17.4	22-Jul-14	08-Aug-14																																			
1410	PROC.FND.IN.10	Issue For Bid & Receive Bids From Venders	5.0	22-Jul-14	28-Jul-14																																			
1411	PROC.FND.IN.20	Issue Purchase Order & Fabrication Time	5.0	29-Jul-14	04-Aug-14																																			
1412	PROC.FND.IN.60	Transport From Vender to Jobsite	5.0	05-Aug-14	08-Aug-14																																			
1413	Lube Oil Cooler Anchors, Imbeds & Mounting Steel		11.8	22-Jul-14	04-Aug-14																																			
1414	PROC.FND.LO.10	Issue For Bid & Receive Bids From Venders	2.5	22-Jul-14	24-Jul-14																																			
1415	PROC.FND.LO.20	Issue Purchase Order & Fabrication Time	5.0	24-Jul-14	31-Jul-14																																			
1416	PROC.FND.LO.70	Transport From Vender to Jobsite	5.0	31-Jul-14	04-Aug-14																																			
1417	Rotor Air Cooler Anchors, Imbeds & Mounting Steel		11.8	22-Jul-14	04-Aug-14																																			
1418	PROC.FND.AC.10	Issue For Bid & Receive Bids From Venders	2.5	22-Jul-14	24-Jul-14																																			
1419	PROC.FND.AC.20	Issue Purchase Order & Fabrication Time	5.0	24-Jul-14	31-Jul-14																																			
1420	PROC.FND.AC.80	Transport From Vender to Jobsite	5.0	31-Jul-14	04-Aug-14																																			
1421	GSU Anchors, Imbeds & Mounting Steel		0.0	09-Jul-14 A	10-Jul-14 A																																			
1422	PROC.FND.GSU.	Issue For Bid & Receive Bids From Venders	0.0	09-Jul-14 A	09-Jul-14 A																																			
1423	PROC.FND.GSU.	Issue Purchase Order & Fabrication Time	0.0	09-Jul-14 A	09-Jul-14 A																																			
1424	PROC.FND.GSU.	Transport From Vender to Jobsite	0.0	10-Jul-14 A	10-Jul-14 A																																			
1425	Auxillary Transformer Anchors, Imbeds & Mounting Steel		12.5	07-Aug-14	17-Aug-14																																			
1426	PROC.FND.AUX.	Issue For Bid & Receive Bids From Venders	2.5	07-Aug-14	09-Aug-14																																			
1427	PROC.FND.AUX.	Issue Purchase Order & Fabrication Time	5.0	09-Aug-14	13-Aug-14																																			
1428	PROC.FND.AUX.	Transport From Vender to Jobsite	5.0	13-Aug-14	17-Aug-14																																			
1429	Emergency Generator Anchors, Imbeds & Mounting Steel		12.5	29-Jul-14	08-Aug-14																																			
1430	PROC.FND.EG.70	Issue For Bid & Receive Bids From Venders	2.5	29-Jul-14	31-Jul-14																																			
1431	PROC.FND.EG.80	Issue Purchase Order & Fabrication Time	5.0	31-Jul-14	04-Aug-14																																			
1432	PROC.FND.EG.1.	Transport From Vender to Jobsite	5.0	04-Aug-14	08-Aug-14																																			
1433	Black Start Generator Anchors, Imbeds & Mounting Steel		12.5	06-Aug-14	15-Aug-14																																			
1434	PROC.FND.BS.70	Issue For Bid & Receive Bids From Venders	2.5	06-Aug-14	07-Aug-14																																			
1435	PROC.FND.BS.80	Issue Purchase Order & Fabrication Time	5.0	08-Aug-14	11-Aug-14																																			
1436	PROC.FND.BS.120	Transport From Vender to Jobsite	5.0	12-Aug-14	15-Aug-14																																			
1437	Water Tanks Anchors, Imbeds & Mounting Steel		12.5	05-Aug-14	14-Aug-14																																			
1438	PROC.FND.DWT.	Issue For Bid & Receive Bids From Venders	2.5	05-Aug-14	06-Aug-14																																			

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1439	PROC.FND.DWT.	Issue Purchase Order & Fabrication Time	5.0	07-Aug-14	10-Aug-14
1440	PROC.FND.DWT.	Transport From Vender to Jobsite	5.0	11-Aug-14	14-Aug-14
1441	Liquid Fuel Tanks Anchors, Imbeds & Mounting Steel		0.0	09-Jul-14 A	17-Jul-14 A
1442	PROC.FND.LFT.70	Issue For Bid & Receive Bids From Venders	0.0	09-Jul-14 A	09-Jul-14 A
1443	PROC.FND.LFT.80	Issue Purchase Order & Fabrication Time	0.0	09-Jul-14 A	13-Jul-14 A
1444	PROC.FND.LFT.1	Transport From Vender to Jobsite	0.0	10-Jul-14 A	17-Jul-14 A
1445	Liquid Fuel Off-Loading Pumps/Shed Anchors, Imbeds & Mounting Steel		12.5	24-Jul-14	03-Aug-14
1446	PROC.FND.LFS.70	Issue For Bid & Receive Bids From Venders	2.5	24-Jul-14	26-Jul-14
1447	PROC.FND.LFS.80	Issue Purchase Order & Fabrication Time	5.0	26-Jul-14	30-Jul-14
1448	PROC.FND.LFS.1	Transport From Vender to Jobsite	5.0	30-Jul-14	03-Aug-14
1449	Liquid Fuel Truck Off-Loading Area Anchors, Imbeds & Mounting Steel		12.5	01-Aug-14	10-Aug-14
1450	PROC.FND.LFO.70	Issue For Bid & Receive Bids From Venders	2.5	01-Aug-14	02-Aug-14
1451	PROC.FND.LFO.80	Issue Purchase Order & Fabrication Time	5.0	03-Aug-14	06-Aug-14
1452	PROC.FND.LFO.1	Transport From Vender to Jobsite	5.0	07-Aug-14	10-Aug-14
1453	CTG Building Anchors, Imbeds & Mounting Steel		12.5	29-Jul-14	08-Aug-14
1454	PROC.FND.BLDC	Issue For Bid & Receive Bids From Venders	2.5	29-Jul-14	31-Jul-14
1455	PROC.FND.BLDC	Issue Purchase Order & Fabrication Time	5.0	31-Jul-14	04-Aug-14
1456	PROC.FND.BLDC	Transport From Vender to Jobsite	5.0	04-Aug-14	08-Aug-14
1457	I&C		112.8	10-Jul-14 A	25-Nov-14
1458	BOP Controls System		67.8	10-Jul-14 A	26-Oct-14
1459	PROC.BOPCS.10	Issue For Bid & Receive Bids From Venders	4.0	10-Jul-14 A	15-Aug-14
1460	PROC.BOPCS.20	Issue Purchase Order & Receive/Review Shop Drawings	15.0	15-Aug-14	05-Sep-14
1461	PROC.BOPCS.30	Approve Vendor Drawings & Fabrication Time	20.0	05-Sep-14	03-Oct-14
1462	PROC.BOPCS.70	Perform FAT & Sign Off	5.0	03-Oct-14	10-Oct-14
1463	PROC.BOPCS.60	Transport From Vender to Jobsite	20.0	10-Oct-14	26-Oct-14
1464	Unit 100 Control System Upgrades		112.8	14-Jul-14 A	25-Nov-14
1465	PROC.100CS.10	Issue Purchase Order & Receive/Review Shop Drawings	19.3	14-Jul-14 A	18-Aug-14
1466	PROC.100CS.20	Approve Vendor Drawings & Fabrication Time	30.0	18-Aug-14	29-Sep-14
1467	PROC.100CS.30	Ship From Vender to Sedalia, Install & Perform FAT Testing	15.0	29-Sep-14	20-Oct-14
1468	PROC.100CS.70	Load on Vessel	5.0	20-Oct-14	24-Oct-14
1469	PROC.100CS.50	Ship From Houston, TX to Bay Bulls Port	35.0	24-Oct-14	21-Nov-14
1470	PROC.100CS.60	Transport From Bay Bulls' Port to Jobsite	5.0	21-Nov-14	25-Nov-14
1471	Instrumentation		63.8	23-Jul-14	02-Oct-14
1472	PROC.INST.10	Issue Purchase Order & Receive/Review Shop Drawings	5.0	23-Jul-14	30-Jul-14
1473	PROC.INST.20	Receive Feedback From BOP Systems Fabricators	5.0	30-Jul-14	06-Aug-14
1474	PROC.INST.30	Approve Vendor Drawings & Fabrication Time	12.5	06-Aug-14	25-Aug-14
1475	PROC.INST.40	Ship From Vender to Houston, TX Port	2.5	25-Aug-14	27-Aug-14
1476	PROC.INST.50	Load on Vessel	5.0	27-Aug-14	31-Aug-14
1477	PROC.INST.60	Ship From Houston, TX to Bay Bulls Port	35.0	31-Aug-14	28-Sep-14
1478	PROC.INST.70	Transport From Bay Bulls' Port to Jobsite	5.0	28-Sep-14	02-Oct-14
1479	Civil		98.0	01-Jul-14 A	07-Nov-14
1480	Backfill		16.0	01-Jul-14 A	12-Aug-14
1481	CTG Backfill		16.0	01-Jul-14 A	12-Aug-14
1482	PROC.CTG.BFL.10	Procurement of Backfill	16.0	01-Jul-14 A	12-Aug-14
1483	Fuel Oil Berm Backfill		12.5	01-Jul-14 A	11-Aug-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1529	GSU.FND.250	Remove Forms on Containment Wall	1.3	23-Jul-14	23-Jul-14
1530	GSU.FND.120	Install Grounding Tails to Rebar	2.5	22-Jul-14	24-Jul-14
1531	GSU.FND.270	QA/QC Acceptance - Pedistal	0.1	21-Jul-14 A	24-Jul-14
1532	GSU.FND.240	Containment Concrete Cure Time	9.0	22-Jul-14	25-Jul-14
1533	GSU.FND.230	Backfill Containment Wall & Compact	2.5	25-Jul-14	26-Jul-14
1534	GSU.FND.140	Pedistal Concrete Cure Time	49.8	21-Jul-14 A	07-Aug-14
1535	GSU.ELEC.20	Install & Dress Out GSU	25.0	07-Aug-14	27-Aug-14
1536	13.8kV Generator Circuit Breaker		8.8	16-Sep-14	23-Sep-14
1537	GCB.20	Install GCB	8.8	16-Sep-14	23-Sep-14
1538	13.8kV Generator Switchgear		17.5	13-Nov-14	27-Nov-14
1539	GWGR.20	Install Generator Switchgear	17.5	13-Nov-14	27-Nov-14
1540	Iso Phase Buss		12.5	20-Nov-14	30-Nov-14
1541	ISB.10	Install ISO Phase Buss (GCB to Switchgear)	12.5	20-Nov-14	30-Nov-14
1542	ISB.20	Install ISO Phase Buss (Switchgear to GSU)	12.5	20-Nov-14	30-Nov-14
1543	4160 V System		95.0	16-Aug-14	01-Dec-14
1544	Black Start Generator		88.1	16-Aug-14	25-Oct-14
1545	BS.ELEC.10	Install Black Start Generator Foundation	17.5	16-Aug-14	29-Aug-14
1546	BS.ELEC.20	Install Black Start Generator (Solar With Out Generator)	12.5	06-Sep-14	16-Sep-14
1547	BS.ELEC.30	Install Solar Unit Generator	8.8	18-Oct-14	25-Oct-14
1548	13.8kV to 4.16kV Auxillary Transformer		38.5	17-Aug-14	29-Sep-14
1549	AX.ELEC.40	Install Auxiliary Transformer	8.8	22-Sep-14	29-Sep-14
1550	Auxillary Transformer's Foundation		32.3	17-Aug-14	22-Sep-14
1551	AUX.FND.10	Excavate For Slab	3.8	17-Aug-14	20-Aug-14
1552	AUX.FND.20	Compact Soil Per Specification For Slab	2.5	20-Aug-14	22-Aug-14
1553	AUX.FND.30	Install Forms for Slab	3.8	22-Aug-14	25-Aug-14
1554	AUX.FND.40	Install Rebar/Anchors/Embeds & Joints For Slab	8.8	25-Aug-14	01-Sep-14
1555	AUX.FND.50	QA/QC Acceptance - Pad	0.6	01-Sep-14	01-Sep-14
1556	AUX.FND.60	Pour Concrete For Slab	0.4	01-Sep-14	02-Sep-14
1557	AUX.FND.100	Remove Forms for Slab	0.5	03-Sep-14	04-Sep-14
1558	AUX.FND.70	Slab Concrete Cure Time	8.9	02-Sep-14	05-Sep-14
1559	AUX.FND.80	Install Forms For Pedistals	3.8	04-Sep-14	07-Sep-14
1560	AUX.FND.220	Install Forms For Containment Wall	3.8	04-Sep-14	07-Sep-14
1561	AUX.FND.90	Install Rebar/Anchors/Embeds & Joints for Pedistals	3.8	07-Sep-14	10-Sep-14
1562	AUX.FND.210	Install Rebar/Anchors/Embeds & Joints for Cotainment Wall	3.8	07-Sep-14	10-Sep-14
1563	AUX.FND.110	QA/QC Acceptance - Containment Wall	0.3	10-Sep-14	10-Sep-14
1564	AUX.FND.120	Pour Concrete for Containment Wall	0.8	10-Sep-14	10-Sep-14
1565	AUX.FND.130	Install Grounding Tails to Rebar	2.5	10-Sep-14	12-Sep-14
1566	AUX.FND.150	QA/QC Acceptance - Pedistals	0.3	12-Sep-14	12-Sep-14
1567	AUX.FND.180	Remove Forms on Containment Wall	1.3	11-Sep-14	12-Sep-14
1568	AUX.FND.160	Pour Concrete for Pedistals	0.8	12-Sep-14	12-Sep-14
1569	AUX.FND.230	Install Rebar For Masonry Wall	0.6	12-Sep-14	12-Sep-14
1570	AUX.FND.140	Containment Concrete Cure Time	9.0	10-Sep-14	13-Sep-14
1571	AUX.FND.190	Remove Forms on Pedistals	1.3	14-Sep-14	14-Sep-14
1572	AUX.FND.200	Backfill Containment Wall & Compact	2.5	13-Sep-14	15-Sep-14
1573	AUX.FND.240	Lay Block Courses	3.8	12-Sep-14	15-Sep-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014					July 2014					August 2014					S					October 2014					N					D					January 2015					F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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1709	BOP-DB-G	BOP-DB-G.70 Remove Forms From Duct Banks (As Necessary)	1.3	30-Jul-14	31-Jul-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
1799	BOP-DB-Q.70	Remove Forms From Duct Banks (As Necessary)	1.3	31-Jul-14	01-Aug-14
1800	BOP-DB-Q.80	Duct Bank Back Fill & Install Marker Tape	1.3	01-Aug-14	02-Aug-14
1801	Electrical Cables		61.3	10-Sep-14	29-Oct-14
1802	BOP.ELEC.20	Install Electrical Cables	61.3	10-Sep-14	29-Oct-14
1803	Grounding Grid		86.4	22-Jul-14	29-Sep-14
1804	CTG Area Grounding		68.9	22-Jul-14	15-Sep-14
1805	GG.CTG.10	Install Grounding Grid, Grounding Plates & Pigtails	26.3	25-Aug-14	15-Sep-14
1806	Grounding Pig Tails		35.0	22-Jul-14	18-Aug-14
1807	GSU		35.0	22-Jul-14	18-Aug-14
1808	GG.GSU.560	Install 2 Grounding Pig Tails in CTG Foundation	17.5	22-Jul-14	04-Aug-14
1809	GG.GSU.580	Terminate Grounding Pig Tails on GSU	17.5	05-Aug-14	18-Aug-14
1810	Grounding Fence Posts		35.0	22-Jul-14	18-Aug-14
1811	GG.GSU.600	Install 12 Grounding Tails to GSU Fence Posts	17.5	22-Jul-14	04-Aug-14
1812	GG.GSU.610	Install Ground Wire Across Each Horizontal Joint on Upper Fence Rail	17.5	05-Aug-14	18-Aug-14
1813	Grounding Grid		17.5	22-Jul-14	04-Aug-14
1814	GG.GSU.440	Install Grounding Grid That Travels Under or Through Foundation	17.5	22-Jul-14	04-Aug-14
1815	GG.GSU.450	Install Grounding Grid Around Perimeter of Foundation	17.5	22-Jul-14	04-Aug-14
1816	GG.GSU.620	Install 2 Grounding Grid Ties From GSU Loop to Building Grounding Loop	17.5	22-Jul-14	04-Aug-14
1817	GG.GSU.630	Install Grounding Grid Tie From GSU Loop to Aux XMFR's Grounding Loop	17.5	22-Jul-14	04-Aug-14
1818	CTG Building Area Grounding		86.4	22-Jul-14	29-Sep-14
1819	GG.BLDG.10	Install Grounding Grid, Grounding Plates & Pigtails	43.8	25-Aug-14	29-Sep-14
1820	Grounding Rods		17.5	22-Jul-14	04-Aug-14
1821	GG.GSU.670	Install Grounding Rod GR-33	17.5	22-Jul-14	04-Aug-14
1822	GG.GSU.680	Install Grounding Rod GR-34	17.5	22-Jul-14	04-Aug-14
1823	GG.GSU.690	Install Grounding Rod GR-35	17.5	22-Jul-14	04-Aug-14
1824	GG.GSU.700	Install Grounding Rod GR-36	17.5	22-Jul-14	04-Aug-14
1825	GG.GSU.710	Install Grounding Rod GR-37	17.5	22-Jul-14	04-Aug-14
1826	GG.GSU.720	Install Grounding Rod GR-38	17.5	22-Jul-14	04-Aug-14
1827	GG.GSU.730	Install Grounding Rod GR-39	17.5	22-Jul-14	04-Aug-14
1828	GG.GSU.840	Install Grounding Rod GR-40	17.5	22-Jul-14	04-Aug-14
1829	GG.GSU.850	Install Grounding Rod GR-41	17.5	22-Jul-14	04-Aug-14
1830	GG.GSU.860	Install Grounding Rod GR-42	17.5	22-Jul-14	04-Aug-14
1831	GG.GSU.870	Install Grounding Rod GR-43	17.5	22-Jul-14	04-Aug-14
1832	GG.GSU.880	Install Grounding Rod GR-44	17.5	22-Jul-14	04-Aug-14
1833	GG.GSU.890	Install Grounding Rod GR-45	17.5	22-Jul-14	04-Aug-14
1834	GG.GSU.900	Install Grounding Rod GR-46	17.5	22-Jul-14	04-Aug-14
1835	GG.GSU.910	Install Grounding Rod GR-47	17.5	22-Jul-14	04-Aug-14
1836	GG.GSU.920	Install Grounding Rod GR-48	17.5	22-Jul-14	04-Aug-14
1837	GG.GSU.930	Install Grounding Rod GR-49	17.5	22-Jul-14	04-Aug-14
1838	GG.GSU.940	Install Grounding Rod GR-50	17.5	22-Jul-14	04-Aug-14
1839	GG.GSU.950	Install Grounding Rod GR-51	17.5	22-Jul-14	04-Aug-14
1840	GG.GSU.960	Install Grounding Rod GR-52	17.5	22-Jul-14	04-Aug-14
1841	GG.GSU.1180	Install Grounding Rod GR-53	17.5	22-Jul-14	04-Aug-14
1842	Grounding Test Wells		17.5	22-Jul-14	04-Aug-14
1843	GG.GSU.740	Install Grounding Test Well G TW-5	17.5	22-Jul-14	04-Aug-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	14	June 2014							July 2014							August 2014							S							October 2014							N							D							January 2015							F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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1844		GG.GSU.750	Install Grounding Test Well G TW-6	17.5	22-Jul-14	04-Aug-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	Gantt Chart																																			
						14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11
1979	Aux XMFR's Grounding			35.0	22-Jul-14	18-Aug-14																																			
1980	Grounding Rods			17.5	22-Jul-14	04-Aug-14																																			
1981	GG.GSU.260	Install Grounding Rod GR-62	17.5	22-Jul-14	04-Aug-14																																				
1982	GG.GSU.270	Install Grounding Rod GR-63	17.5	22-Jul-14	04-Aug-14																																				
1983	GG.GSU.280	Install Grounding Rod GR-64	17.5	22-Jul-14	04-Aug-14																																				
1984	GG.GSU.290	Install Grounding Rod GR-65	17.5	22-Jul-14	04-Aug-14																																				
1985	GG.GSU.300	Install Grounding Rod GR-66	17.5	22-Jul-14	04-Aug-14																																				
1986	GG.GSU.1200	Install Grounding Rod GR-67	17.5	22-Jul-14	04-Aug-14																																				
1987	Grounding Test Wells			17.5	22-Jul-14	04-Aug-14																																			
1988	GG.GSU.330	Install Grounding Test Well G TW-11	17.5	22-Jul-14	04-Aug-14																																				
1989	GG.GSU.340	Install Grounding Test Well G TW-12	17.5	22-Jul-14	04-Aug-14																																				
1990	Grounding Pig Tails			35.0	22-Jul-14	18-Aug-14																																			
1991	Aux XMFR			35.0	22-Jul-14	18-Aug-14																																			
1992	GG.GSU.350	Install 4 Grounding Pig Tails in Aux XMFR's Pedistals	17.5	22-Jul-14	04-Aug-14																																				
1993	GG.GSU.370	Terminate Grounding Pig Tails on Aux XMFR's	17.5	05-Aug-14	18-Aug-14																																				
1994	Cable Bus Structure			35.0	22-Jul-14	18-Aug-14																																			
1995	GG.GSU.420	Install 3 Grounding Pit Tails in Aux XMFR's Containment	17.5	22-Jul-14	04-Aug-14																																				
1996	GG.GSU.430	Terminate 3 Grounding Pig Tails on Cable Bus Support Structure	17.5	05-Aug-14	18-Aug-14																																				
1997	Grounding Fence Posts			17.5	22-Jul-14	04-Aug-14																																			
1998	GG.GSU.390	Install 10 Grounding Tails to GSU Fence Posts	17.5	22-Jul-14	04-Aug-14																																				
1999	Grounding Grid			17.5	22-Jul-14	04-Aug-14																																			
2000	GG.GSU.230	Install Grounding Grid That Travels Under or Through Foundation	17.5	22-Jul-14	04-Aug-14																																				
2001	GG.GSU.240	Install Grounding Grid Around Perimeter of Foundation	17.5	22-Jul-14	04-Aug-14																																				
2002	GG.GSU.410	Install 2 Grounding Grid Ties From Aux XMFR Loop to Building Grounding Loop	17.5	22-Jul-14	04-Aug-14																																				
2003	Site Lighting			17.5	18-Oct-14	01-Nov-14																																			
2004	YDLT.10	Install Site Lighting	17.5	18-Oct-14	01-Nov-14																																				
2005	Civil			165.6	13-Jun-14 A	01-Dec-14																																			
2006	Grading			12.5	13-Jun-14 A	01-Dec-14																																			
2007	CIVIL.20	Perform Initial Site Grading/Grubbing	0.0	13-Jun-14 A	03-Jul-14 A																																				
2008	CIVIL.30	Perform Final Site Grading & Site Dressout	12.5	21-Nov-14	01-Dec-14																																				
2009	Fuel Offload Truck Turnaround			61.0	23-Jun-14 A	08-Sep-14																																			
2010	ROAD.20	Excavate Soil to Subgrade	9.4	23-Jun-14 A	29-Jul-14																																				
2011	ROAD.30	Level and Compact to Subgrade	6.3	29-Jul-14	03-Aug-14																																				
2012	ROAD.40	Install Culverts & Drainage Slopes	3.8	03-Aug-14	06-Aug-14																																				
2013	ROAD.50	Engineered Backfill & Compact	8.8	06-Aug-14	13-Aug-14																																				
2014	ROAD.60	Install Traffic Median Barriers	6.3	13-Aug-14	18-Aug-14																																				
2015	ROAD.10	Install Fuel Offload Road	6.3	03-Sep-14	08-Sep-14																																				
2016	Ditches			15.0	21-Aug-14	02-Sep-14																																			
2017	DTCH.10	Install Ditch Around Unloading Truck Drive	10.0	21-Aug-14	29-Aug-14																																				
2018	DTCH.20	Install Ditch Around Containment Berm	15.0	21-Aug-14	02-Sep-14																																				
2019	Retaining Wall			35.0	03-Oct-14	31-Oct-14																																			
2020	WALL.10	Install Retaining Wall	35.0	03-Oct-14	31-Oct-14																																				
2021	Gravel Yard Area			31.6	27-Oct-14	21-Nov-14																																			
2022	GVLVD.10	Install Gravel Yard on East Side of CTG Building	26.3	27-Oct-14	17-Nov-14																																				
2023	GVLVD.30	Install Gravel Yard on West Side of CTG Building	26.3	27-Oct-14	17-Nov-14																																				

 Actual Work   Milestone
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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
2024	GVLVD.20	Install Gravel Yard on South Side of CTG Building	26.3	31-Oct-14	21-Nov-14
2025	Buildings & HVAC		107.5	16-Jun-14 A	18-Nov-14
2026	CTG Building		96.3	16-Jun-14 A	18-Nov-14
2027	Phase I (Water/Electrical)		96.3	16-Jun-14 A	18-Nov-14
2028	CTG.BLD1.50	Foundation Excavation	0.0	16-Jun-14 A	04-Jul-14 A
2029	CTG.BLD1.60	Foundation Install Engineering Backfill & Compact	3.8	02-Aug-14	05-Aug-14
2030	CTG.BLD1.70	Foundation Instal Base Forms	5.0	05-Aug-14	09-Aug-14
2031	CTG.BLD1.80	Foundation Install Rebar, Anchor Bolts & Imbeds	5.0	09-Aug-14	13-Aug-14
2032	CTG.BLD1.160	Foundation Install 32 Grounding Plates, 12 Bus Connections, 3 Grounding Loc	5.0	09-Aug-14	13-Aug-14
2033	CTG.BLD1.90	Install Grounding Conduit Stub Ups	1.3	13-Aug-14	14-Aug-14
2034	CTG.BLD1.100	Install Floor Drains (As Required)	2.5	13-Aug-14	15-Aug-14
2035	CTG.BLD1.110	Foundation QA/QC	0.3	15-Aug-14	15-Aug-14
2036	CTG.BLD1.120	Foundation Pour Concrete	0.3	15-Aug-14	15-Aug-14
2037	CTG.BLD1.130	Foundation Concrete Cure Time	9.0	15-Aug-14	18-Aug-14
2038	CTG.BLD1.140	Foundation Remove Forms	2.5	16-Aug-14	18-Aug-14
2039	CTG.BLD1.150	Foundation Back Fill & Compact	2.5	18-Aug-14	20-Aug-14
2040	CTG.BLD1.20	Install Building & HVAC	35.0	20-Aug-14	17-Sep-14
2041	CTG.BLD1.40	Install Cable Tray	26.3	29-Oct-14	18-Nov-14
2042	Electrical Room		35.0	20-Aug-14	17-Sep-14
2043	CTG.BLD1.30	Install Electrical Room Masonry Walls & Ceiling	35.0	20-Aug-14	17-Sep-14
2044	Phase II (CTG/Black Start)		63.5	29-Sep-14	18-Nov-14
2045	CTG.BLD2.20	Install Building & HVAC	35.0	29-Sep-14	27-Oct-14
2046	CTG.BLD2.40	Install Cable Tray	26.3	29-Oct-14	18-Nov-14
2047	Switchgear Enclosure		8.8	06-Nov-14	13-Nov-14
2048	CTG.BLD2.30	Install 13.8kV Switchgear Enclosure	8.8	06-Nov-14	13-Nov-14
2049	Fuel Oil Pumphouse		29.3	16-Jun-14 A	22-Aug-14
2050	FO.BLDG.10	Foundation Excavation	0.0	16-Jun-14 A	30-Jun-14 A
2051	FO.BLDG.20	Foundation Install Engineering Backfill & Compact	1.3	22-Jul-14	22-Jul-14
2052	FO.BLDG.30	Foundation Instal Basel Forms	2.5	22-Jul-14	23-Jul-14
2053	FO.BLDG.50	Foundation Install Rebar	3.8	24-Jul-14	26-Jul-14
2054	FO.BLDG.60	Install Grounding Conduit Stub Ups	0.6	27-Jul-14	27-Jul-14
2055	FO.BLDG.70	Install Floor Drains (As Required)	2.5	27-Jul-14	28-Jul-14
2056	FO.BLDG.90	Foundation QA/QC	0.3	29-Jul-14	29-Jul-14
2057	FO.BLDG.100	Foundation Pour Concrete	0.3	29-Jul-14	29-Jul-14
2058	FO.BLDG.120	Foundation Remove Forms	1.3	30-Jul-14	31-Jul-14
2059	FO.BLDG.110	Foundation Concrete Cure Time	9.0	29-Jul-14	01-Aug-14
2060	FO.BLDG.130	Foundation Back Fill & Compact	1.3	31-Jul-14	01-Aug-14
2061	FO.BLDG.140	Install Fuel Pumphouse Building	26.3	01-Aug-14	22-Aug-14
2062	Water Systems		115.4	20-Aug-14	20-Nov-14
2063	Demin Water System		115.4	20-Aug-14	20-Nov-14
2064	Demin Water Tanks		99.1	20-Aug-14	07-Nov-14
2065	WTR.TNK.10	Install Demin Tank Foundations	18.8	20-Aug-14	04-Sep-14
2066	WTR.TNK.20	Install Demin Tanks	12.5	29-Oct-14	07-Nov-14
2067	Water Treatment System		8.8	14-Nov-14	20-Nov-14
2068	WTR.TR.20	Install Water Treatment System	8.8	14-Nov-14	20-Nov-14

100 MW Combustion Turbine Project

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																												
						June 2014							July 2014							August 2014							September 2014				October 2014			
						14	8	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	04	11	18	25	01	08	15	22
2069	Demin Water Pumps			18.8	28-Oct-14	12-Nov-14																												
2070	DWP.10	Install Demin Water Pumps	18.8	28-Oct-14	12-Nov-14																													
2071	Demin Water Piping			35.0	02-Oct-14	30-Oct-14																												
2072	DW.PIPE.10	Install Demin Water Piping	35.0	02-Oct-14	30-Oct-14																													
2073	Raw Water System			44.6	02-Oct-14	07-Nov-14																												
2074	Raw Water Piping			44.6	02-Oct-14	07-Nov-14																												
2075	RW.PIPE.10	Install Raw Water Piping	26.3	02-Oct-14	23-Oct-14																													
2076	RW.PMP.10	Install Raw Water Pumps	26.3	17-Oct-14	07-Nov-14																													
2077	Oily/Water System			45.4	19-Oct-14	24-Nov-14																												
2078	WW.10	Install Oily/Water Piping	43.8	19-Oct-14	22-Nov-14																													
2079	WW.20	Install Oily/Water Equipment	21.9	06-Nov-14	24-Nov-14																													
2080	Compressed Air System			79.1	17-Sep-14																													19-Nov-14
2081	CA.20	Install Compressed Air Equipment	37.5	17-Sep-14	16-Oct-14																													
2082	CA.10	Install Compressed Air Piping	60.0	02-Oct-14	19-Nov-14																													
2083	Liquid Fuel System			108.8	18-Jun-14 A	19-Nov-14																												
2084	Liquid Fuel Tanks			106.2	18-Jun-14 A	17-Nov-14																												
2085	Tank #1			106.2	18-Jun-14 A	17-Nov-14																												
2086	TANK1.10	Excavate For Foundation	0.0	18-Jun-14 A	02-Jul-14 A																													
2087	TANK1.30	Compact Soil Per Specification For Foundation	0.0	02-Jul-14 A	05-Jul-14 A																													
2088	TANK1.40	Install Forms For Foundation	3.4	16-Jul-14 A	24-Jul-14																													
2089	TANK1.20	Install Rebar/Anchors/Embeds/Grounding Tails & Joints	0.5	16-Jul-14 A	25-Jul-14																													
2090	TANK1.70	QA/QC Acceptance	0.3	25-Jul-14	25-Jul-14																													
2091	TANK1.60	Pour Concrete For Foundation	0.4	25-Jul-14	25-Jul-14																													
2092	TANK1.80	Remove Forms From Foundation	1.3	26-Jul-14	27-Jul-14																													
2093	TANK1.50	Foundation Concrete Cure Time	9.0	25-Jul-14	28-Jul-14																													
2094	TANK1.130	Install Geotextile, Geomembrane & Back Fill & Compact to Specifications	1.3	29-Jul-14	30-Jul-14																													
2095	TANK1.150	Liquid Fuel Tank Foundation Complete	0.0		30-Jul-14																													
2096	TANK1.160	Install Fuel Tank	37.5	03-Oct-14	02-Nov-14																													
2097	TANK1.170	Paint Interior & Exterior of Tank & Cure	18.8	02-Nov-14	17-Nov-14																													
2098	Tank #2			104.9	18-Jun-14 A																													17-Nov-14
2099	TANK2.10	Excavate For Foundation	0.0	18-Jun-14 A	02-Jul-14 A																													
2100	TANK2.20	Compact Soil Per Specification For Foundation	0.0	02-Jul-14 A	02-Jul-14 A																													
2101	TANK2.40	Install Forms For Foundation	0.0	03-Jul-14 A	10-Jul-14 A																													
2102	TANK2.30	Install Rebar/Anchors/Embeds/Grounding Tails & Joints	0.0	11-Jul-14 A	17-Jul-14 A																													
2103	TANK2.50	QA/QC Acceptance	0.0	16-Jul-14 A	18-Jul-14 A																													
2104	TANK2.60	Pour Concrete For Foundation	0.0	22-Jul-14 A	23-Jul-14 A																													
2105	TANK2.80	Remove Forms From Foundation	1.3	23-Jul-14	23-Jul-14																													
2106	TANK2.70	Foundation Concrete Cure Time	5.2	22-Jul-14 A	25-Jul-14																													
2107	TANK2.90	Install Geotextile, Geomembrane & Back Fill & Compact to Specifications	1.3	26-Jul-14	26-Jul-14																													
2108	TANK2.100	Liquid Fuel Tank Foundation Complete	0.0		26-Jul-14																													
2109	TANK2.110	Install Fuel Tank	37.5	03-Oct-14	02-Nov-14																													
2110	TANK2.120	Paint Interior & Exterior of Tank & Cure	18.8	02-Nov-14	17-Nov-14																													

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[illegible]

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[illegible]

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[illegible]

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish	June 2014							July 2014							August 2014							September 2014							October 2014							November 2014							December 2014							January 2015							February 2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

#	Activity ID	Activity Name	Remaining Duration	Start	Finish
2294	COM100.360	Readiness Review	1.3	03-Dec-14	04-Dec-14
2295	COM100.370	Balance Engineer on Site	0.6	04-Dec-14	05-Dec-14
2296	COM100.380	Initial Turbine Roll (Test 1 & 2)	0.6	04-Dec-14	05-Dec-14
2297	COM100.390	Run Unit Full Speed, No Load-Oil (Test 3 & 4)	0.6	05-Dec-14	05-Dec-14
2298	COM100.420	Commission Water Injection	1.3	05-Dec-14	06-Dec-14
2299	COM100.400	Commercial Unit Operation	0.6	06-Dec-14	07-Dec-14
2300	Contractual		25.0	07-Dec-14	27-Dec-14
2301	COM100.280	Emissions Test	6.3	07-Dec-14	12-Dec-14
2302	COM100.290	Performance Test	3.8	12-Dec-14	15-Dec-14
2303	COM100.300	Reliability Run	2.5	17-Dec-14	19-Dec-14
2304	COM100.310	Contractual/Customer Tests (Black Start Plant)	3.8	19-Dec-14	22-Dec-14
2305	COM100.320	Contractual Unit Operation	1.3	22-Dec-14	23-Dec-14
2306	COM100.330	Generate As-Built's	5.0	23-Dec-14	27-Dec-14
2307	COM100.340	Final Vibration Data to Commissioning Manual	1.3	26-Dec-14	27-Dec-14
2308	Commissioning Work Package		60.4	03-Oct-14	20-Nov-14
2309	COM100.260	Test Fuel Piping (Nitrogen PSI Testing)	3.8	08-Oct-14	11-Oct-14
2310	COM100.250	Perform High Velocity Lube Oil Flush	17.5	03-Oct-14	17-Oct-14
2311	GTG100.730	Fuel Oil Flush	11.1	11-Oct-14	20-Oct-14
2312	COM100.150	Inspect & Check Out Motor Starters In MCC's	7.5	28-Oct-14	03-Nov-14
2313	COM100.170	Megger MCC Bus & MCC Transformers	5.0	31-Oct-14	04-Nov-14
2314	COM100.180	Power Up MCC's	1.3	04-Nov-14	05-Nov-14
2315	COM100.160	Megger Cables & Motors	10.0	03-Nov-14	11-Nov-14
2316	COM100.230	Calibrate Turbine Controls Devices (Control Valves, IGV's, Etc)	6.0	07-Nov-14	12-Nov-14
2317	COM100.140	Install Batteries & Commission Charger	10.0	05-Nov-14	13-Nov-14
2318	COM100.210	Perform Calibration & Function Loops Of Instrumentation	12.5	07-Nov-14	17-Nov-14
2319	COM100.220	Perform Motor Commissioning Of Fans, Pumps, Etc	12.0	11-Nov-14	20-Nov-14
2320	A1010	Unit 100 Commissioning Complete	0.0		20-Nov-14
2321	BOP Systems		59.5	29-Sep-14	03-Dec-14
2322	Electrical System		59.0	29-Sep-14	03-Dec-14
2323	Electrical Equipment		56.0	01-Oct-14	03-Dec-14
2324	13.8 kV System		56.0	01-Oct-14	03-Dec-14
2325	GSU		3.0	01-Oct-14	02-Oct-14
2326	COM.GSU.10	Soak Transformer for 24 Hours	3.0	01-Oct-14	02-Oct-14
2327	13.8kV Generator Circuit Breaker		1.3	30-Nov-14	01-Dec-14
2328	COM.138CB.10	Check Relays, Controls, & Full Checkout	1.3	30-Nov-14	01-Dec-14
2329	13.8kV Generator Switchgear		3.8	30-Nov-14	03-Dec-14
2330	COM.138SWG.F	Check Relays, Controls, & Full Checkout	3.8	30-Nov-14	03-Dec-14
2331	4160 V System		40.6	31-Oct-14	02-Dec-14
2332	Black Start Generator		8.8	31-Oct-14	07-Nov-14
2333	COM.BSG.10	Perform Full Checkout	8.8	31-Oct-14	07-Nov-14
2334	13.8kV to 4.16kV Auxillary Transformer		1.3	31-Oct-14	01-Nov-14
2335	COM.AUX1.10	Perform Tests on XMFR	1.3	31-Oct-14	01-Nov-14
2336	4160 V Switchgear		1.3	02-Dec-14	02-Dec-14
2337	COM.416SWG.F	Check Relays, Controls, & Full Checkout	1.3	02-Dec-14	02-Dec-14
2338	480 V System		35.4	31-Oct-14	28-Nov-14

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#	Activity ID	Activity Name	Remaining Duration	Start	Finish
2339		4.16kV to 480V Auxiliary Transformer	1.3	31-Oct-14	01-Nov-14
2340	COM.AUX2.10	Perform Tests on XMFR	1.3	31-Oct-14	01-Nov-14
2341		Emergency Generator	3.8	31-Oct-14	03-Nov-14
2342	COM.EMGEN.10	Commission & Start Up	3.8	31-Oct-14	03-Nov-14
2343		480V MCC's	8.8	21-Nov-14	28-Nov-14
2344	COM.480MCC.10	Check & Test MCC's	8.8	21-Nov-14	28-Nov-14
2345		480V Switchgear	2.5	26-Nov-14	28-Nov-14
2346	COM.480SWG.	Check & Test 480 Switchgear	2.5	26-Nov-14	28-Nov-14
2347		125V DC System	2.5	27-Nov-14	29-Nov-14
2348	COM.125DC.10	Check and Test 125V DC System	2.5	27-Nov-14	29-Nov-14
2349		Electrical Cables	2.5	29-Oct-14	31-Oct-14
2350		Unit 100 Cables	2.5	29-Oct-14	31-Oct-14
2351	COM.100CBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2352		Water Treatment System Cables	2.5	29-Oct-14	31-Oct-14
2353	COM.WTCBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2354		Liquid Fuel System Cables	2.5	29-Oct-14	31-Oct-14
2355	COM.LFCBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2356		Compressed Air System Cables	2.5	29-Oct-14	31-Oct-14
2357	COM.CACBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2358		Black Start Generator Cables	2.5	29-Oct-14	31-Oct-14
2359	COM.BSGCBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2360		Emergency Generator Cables	2.5	29-Oct-14	31-Oct-14
2361	COM.EMGCBL.10	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2362		13.8kV to 4.16kV Transformer Cables	2.5	29-Oct-14	31-Oct-14
2363	COM.AUX1CBL.:	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2364		4.16kV to 480V Transformer Cables	2.5	29-Oct-14	31-Oct-14
2365	COM.AUX2CBL.:	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2366		BOP Control System Cables	2.5	29-Oct-14	31-Oct-14
2367	COM.CNTLCBL.	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2368		125V DC System Cables	2.5	29-Oct-14	31-Oct-14
2369	COM.125DCCBL	Review 'Install Documentation' & Visually Inspect	2.5	29-Oct-14	31-Oct-14
2370		Grounding Grid	2.5	29-Sep-14	01-Oct-14
2371	COM.GG.10	Check Out & Test Rectifier	2.5	29-Sep-14	01-Oct-14
2372		Water Systems	47.7	23-Oct-14	30-Nov-14
2373		Demin Water System	39.0	30-Oct-14	30-Nov-14
2374		Demin Water Tanks	3.8	28-Nov-14	30-Nov-14
2375	COM.DWT.10	Verify, Fill & Check For Leaks	3.8	28-Nov-14	30-Nov-14
2376		Water Treatment System	8.8	21-Nov-14	27-Nov-14
2377	COM.WTS.10	Verify, Load Filters, Vender Commission & Startup	8.8	21-Nov-14	27-Nov-14
2378		Demin Water Pumps	1.3	12-Nov-14	13-Nov-14
2379	COM.DWPMP.10	Ohm Motor, Run Motor & Align Pumps	1.3	12-Nov-14	13-Nov-14
2380		Demin Water Piping	7.5	30-Oct-14	05-Nov-14
2381	COM.DWPIP.10	Flush	3.8	30-Oct-14	02-Nov-14
2382		Valves	3.8	02-Nov-14	05-Nov-14
2383	COM.DWVLV.10	Grease, Point to Point, Stroke & Verify Valves	3.8	02-Nov-14	05-Nov-14

100 MW Combustion Turbine Project

22-Jul-14

[illegible]

Risk Analysis



WorleyParsons
resources & energy

Suite 604, Atlantic Place
Box 67, 215 Water Street
St. John's, NL A1C 6C9



DOCUMENT COVER SHEET

PROJECT No:

PROJECT TITLE:

New 100 MW Gas Turbine at Holyrood

WORLEYPARSONS
DOCUMENT No:

DOCUMENT TITLE:

Risk Management Plan

ELECTRONIC FILE LOCATION:

Originator:

Issue Date:

DOCUMENT STATUS					
A					
REV	DATE	DESCRIPTION	BY	CHKD	APPD

Risk Register Overview Information

Overview

Risk register owner	Stephen Parsons
Risk register custodian	Stephen Parsons

Roles and responsibilities

Risk register owner	- Allocates resources and assigns responsibilities for implementation, operation and ongoing management of identified risks within this register - Escalates material risks to the project manager
Risk register custodian	- Organizes the risk register workshop using a WorleyParsons approved facilitator - Manages and leads the ongoing review and monitoring of the risk register - Provides the risk register owner with register status information (e.g.: number of incomplete actions past agreed completion date)
Risk action owner <i>(‘Responsible person’ listed on the register)</i>	- Individual assigned with the responsibility of ensuring the risk mitigating actions are undertaken (they may delegate and/or share action implementation)

Standards and procedures

The WorleyParsons risk management standards and procedures form the basis of the risk workshop and risk register. The relevant documents are summarized below.

- Risk Management Standard (CRP-0007)
- Project Risk Management Procedure (CRP-0011)
- Risk Management Plan Task Sheet (PAP-9002)

Risk Management Requirements

Risk workshop	- A risk workshop is undertaken at the start of a project and at the start of the next phase of a project - The workshop must be facilitated by a WorleyParsons approved risk facilitator
Risk register review	- The risk register is reviewed monthly by an appropriate group of project team members commensurate with the size and complexity of the project - The register is reviewed for - action status and progress - changes (increase or decrease in risk level) - new risks (addition of any emerging risks) - invalid risks (closing of risks which are no longer valid)

Risk management approach

Action management	The risk process is used to identify the different types of risks which may impact on the success of the project. Risks are defined by four levels (extreme, high, moderate and low). Risk mitigating actions are then prioritized for implementation based on the level of risk evaluated (e.g.: extreme risks are scheduled for completion before low risks)
Project change	The risk classification form is updated if the project: - experiences major change - commences a new phase This may lead to the need for a new risk workshop to be undertaken



Index

Client:	Nalcor Energy
Project No:	
Project Title:	New 100 MW Gas Turbine
Date:	26-June-2014

Initial Risk Workshop Details

Initial

Facilitator/s:	Title	Attended
Enter facilitator name	Stephen Fitzpatrick	Yes

Attendees- Name:	Title:	Attended
Stephen Parsons	PM	Yes
Trevor Andrews	T&D	Yes
Terry Abbott	Electrical	Yes
Caryn Phillips	P&C	Yes
Gerard Piercey	Civil	Yes
Todd Collins	Engineering and Construction Coordinator	Yes
Terry Ledrew	Plant Mgr	Yes
Glen Hicks	Communications	Yes
Kerry Martin	Pro Energy Services - Quality	Yes
Sarah Giles	Safety	Yes



Context for Risk Workshop:

The purpose of this risk workshop is to install a new 100MW gas turbine at Holyrood next to existing terminal station and generating facility. This project must be ready for operation by mid December 2014 to meet high peak demand period. The existing black start turbine is no longer operational and the leased black start diesels must be replaced. There is also a need to increase island capacity to the grid until Muskrat Falls comes on line.

Key Success Factors:

- 1 Zero Harm - meeting HSE objectives for Nalcor
- 2 Communication - many parties involved and they need to know what each other are doing.
- 3 Meet the deadline
- 4 Meet budget target
- 5 Asset will work as required and be reliable.
- 6 Maintainable
- 7 Seamless integration to operations

Stakeholders:

- 1 PUB
- 2 Intervenors
- 3 Rate Payers
- 4 General public
- 5 Municipalities of Holyrood and CBS
- 6 Holyrood Generating Station Operations and employees
- 7 Government Regulators - Environment, Safety, Transportation
- 8 NL Hydro
- 9 TRO
- 10 Contractors
- 11 ProEnergy/Pennecon
- 12 FM Global
- 13 NLH Procurement
- 14 Community liaison committee
- 15 ECC
- 16 System Planning
- 17 Unit Operators
- 18 Newfoundland Power
- 19 Industrial Customers



Below are some **suggested** likelihood and consequence scales.

Project teams are advised to review the categories and determine a scale that is relevant to their project; in particular the 'Financial' and 'Production/Schedule' categories should be modified to be specific to each Project. All fields should be reviewed and amended/deleted as required prior to commencing the brainstorming session.

Likelihood Category				
E	D	C	B	A
Rare	Unlikely	Moderate	Likely	Almost Certain
Highly unlikely to occur on this project	Given current practices and procedures, this incident is unlikely to occur on this project	Incident has occurred on a similar project	Incident is likely to occur on this project	Incident is very likely to occur on this project, possibly several times

	Consequences				
	1 - Insignificant	2 - Minor	3 - Moderate	4 - Major	5 - Catastrophic
Safety and Health	First Aid Case	Minor Injury , Medical Treatment Case with/or Restricted Work Case.	Serious Injury or Lost Work Case	Major or Multiple Injuries - permanent injury or disability	Single or Multiple Fatalities
Environment	No impact on baseline environment. Localized to point source. No recovery required	Localized within site boundaries. Recovery measurable within 1 month of impact	Moderate harm with possible wider effect. Recovery in 1 year	Significant harm with local effect. Recovery longer than 1 year.	Significant harm with widespread effect. Recovery longer than 1 year. Limited prospect of full recovery
Financial	< \$500k	\$500k - \$1M	\$1M - \$10M	\$10M - \$20M	>\$20M
Production/Schedule	< 3 days	3 days – 1 week	1 wk – 2 weeks	2 weeks – 1 month	> 1 month
Reputation	Localised temporary impact	Localised, short term impact	Localised, long term impact but manageable	Localised, long term impact with unmanageable outcomes	Long term regional impact
Business Impact	Impact can be absorbed through normal activity	An adverse event which can be absorbed with some management effort	A serious event which requires additional management effort	A critical event which requires extraordinary management effort	Disaster with potential to lead to collapse of the project

Risk Register and Action Plan

Project Number:

Project Name: New 100 MW GT

Column Key:		Do not enter data - automatically generated field
		Drop down list, select one item from list
		Enter text in this column

Number	Rank	Risk Description (Event and Consequence OR Cause)	Cat egor y	Existing Controls	Risk Severity Before Treatment				Risk Treatment Plan	Ability to Influence	Responsible Person (Risk Owner)	Due Date	Action Progress Status	Risk Status	
						Consequence		Likelihood							Risk Level Before Treatment
14	1	Construction activites leads to contact with energized lines leading to safety incident		Some OH lines relocated. Operator power line hazards training Permit system established Lift plans/demarkation/ spotters JSA	5	Catastrophic	D	Unlikely	Extreme	1. Analyze lift plans to ensure appropriate cautions in place. 2. Investigate - Request entire lift crew to participate in power line hazards training. 3. Investigate opportunity to deenergize adjacent lines where possible.		1. Sarah 2. Sarah 3. Todd	1. mid July 2. mid-July 3. early July		
32	2	Unfamiliarity with new equipment leads to delay in commissioning		4 weeks of training is included in Proenergy contract	4	Major	A	Almost Certain	Extreme	1. Engage the ops and commissioning personnel in the initial loop checks etc with Proenergy 2. Training on relays and "TRO" equipment		1. Alberta 2. Alberta	1. late Oct 2. late Oct		
51	3	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to safety issue		Underground scan Review existing drawings Discuss the plans with experienced personnel. Digging permits	4	Major	B	Likely	Extreme	Look at alternate excavation techniques to minimize impact		Gerard Piercy	end June		
10	4	Labour issues at the plant/TRO leads to delay in project		Contract currently under negotiation. Labour relations personnel	4	Major	C	Moderate	Extreme	May change with outcome of contract negotiations with TRO Labour.		N/R			
17	5	Lack of coordination of work with all of the work crews on site leads to safety incident		Integrated work plan HSE plan - integrated Site orientation Contractor coordination meetings Toolbox meetings and other	4	Major	C	Moderate	Extreme	1. Clear identification of roles and responsibilities 2. Daily communication with workforce - whiteboard activities at the entrance.		1. Sarah 2. Sarah/Kerry	1. mid-July 2. end June		
29	6	Aggressive project schedule does not allow for any delay in design - lead to schedule delay		Set review period for drawings	4	Major	C	Moderate	Extreme	1. Ensure that all POs are issued as per schedule and the schedule incorporates appropriate lead time for vendor drawing completion. 2. Close coordination between the fast track design and construction teams		1. Todd 2. Kerry	1. early July 2. now		
36	7	Delay in delivery of 230kV breakers, disconnects and insulators leads to schedule delay		none.	4	Major	C	Moderate	Extreme	Expedite delivery of long lead items		Terry Abbott	now and ongoing		
42	8	Project team distractions due to other projects leads to delay in schedule.		Creating a segregated project team. Not all the team is fully dedicated to this project. Org chart developed identifying dedicated and shared resources	4	Major	C	Moderate	Extreme	Identify opportunities to release key personnel from other commitments.		Steve Parsons	end June		
43	9	Delay in vendor information leads to delay in schedule.		None.	4	Major	C	Moderate	Extreme	Expediting		Todd	now and ongoing		
44	27	Lack of coordination of work leads to schedule delay (interface management)		Integrated schedule Contracting plan Coordinator assigned	3	Moderate	C	Moderate	High	1. Shift scheduling 2. Daily communication with workforce - whiteboard activities at the entrance. 3. Develop contingency plans for key interfaces.		1. Kerry 2. Sarah/Kerry 3. Todd	1. early July 2. now 3. end July		
47	10	Delay in ferry shipment leads to delay in schedule for ancillary equipment.		None.	4	Major	C	Moderate	Extreme	Provide enough lead time for delivery		Steve Parsons	now and ongoing		
12	11	Crane failure during offloading leads to damage to GT and schedule delay		Lift plans have been requested. Health and Safety audits regularly scheduled. Equipment inspections and personnel certifications	5	Catastrophic	E	Rare	High						
48	12	Delay in environmental approvals leads to schedule delay		Active communication with environment regulator	5	Catastrophic	E	Rare	High	Investigate running the turbine without environmental approval - need CEO approval		Steve Parsons	end Nov		
2	13	Damage during transport leads to significant repair on the unit leading to delay in schedule		Proenergy has had a high success rate of delivering major equipment with minimal damage...They have proven crating and shipping practices.	4	Major	D	Unlikely	High	Identify the shipments that could have a major impact and analyze approach and packaging.		Kerry	now and ongoing		
6	41	Unforeseen subsurface soil conditions leads to schedule delay		Geotechnical investigation completed. Fuel tank area not on critical path	3	Moderate	D	Unlikely	Moderate						
9	14	Labour issues with contractor leads to delay in project		Experienced contractor which has good relationship with unions	4	Major	D	Unlikely	High	Investigate status of union contract with Proenergy/Pennecon		Kerry	now		

Risk Register and Action Plan

Project Number:

Project Name: New 100 MW GT

Column Key:		Do not enter data - automatically generated field
		Drop down list, select one item from list
		Enter text in this column

Number	Rank	Risk Description (Event and Consequence OR Cause)	Category	Existing Controls	Risk Severity Before Treatment				Risk Treatment Plan	Ability to Influence	Responsible Person (Risk Owner)	Due Date	Action Progress Status	Risk Status
						Consequence		Likelihood	Risk Level Before Treatment					
18	15	Congestion at the work site leads to safety incident		Standard Housekeeping practices HSE plan Segregation of plant vs work site activities site plan traffic control measures daily coordination meetings	4	Major	D	Unlikely	High					
20	16	Lack of availability of qualified and experienced trades leads to safety incident.		Standard process to check worker qualifications Pennecon has preferential rights with the union	4	Major	D	Unlikely	High	Give sufficient notice to the union	Kerry	now		
33	17	Unfamiliarity with new equipment leads to safety issue		4 weeks of training is included in Proenergy contract	4	Major	D	Unlikely	High	1. Establish an internal trainer for the facility 2. Investigate opportunity for Proenergy to provide an operator for a period of time. 3. Assign dedicated personnel for facility	1. Alberta 2. Alberta 3. Alberta	1. end Aug 2. end Aug 3. end Aug		
45	18	Lack of available space (laydown area) in Holyrood leads to delay in schedule		Site plan prepared	4	Major	D	Unlikely	High	Identify location for 100 ft poles in the site plan.	Trevor	end July		
11	19	Crane failure during offloading leads to safety incident		Lift plans have been requested. Health and Safety audits regularly scheduled. Equipment inspections and personnel certifications	4	Major	E	Rare	High					
13	20	Crane failure during offloading leads to damage to GT and cost impact		Lift plans have been requested. Health and Safety audits regularly scheduled. Equipment inspections and personnel certifications	4	Major	E	Rare	High					
28	21	Asbestos discovered/disturbed leading to a safety incident		Holyrood Asbestos Management Plan asbestos survey standard asbestos removal procedures	4	Major	E	Rare	High	1. Contractor Asbestos management plan 2. Investigate appropriate PPE for higher risk areas.	Sarah	1. early July 2. early July		
3	22	Delay in shipping due to weather delays leads to delay in schedule		We are shipping at a optimal time of the year for Newfoundland, but hurricane season for the Gulf.	3	Moderate	B	Likely	High	Place orders as early as possible to build in float	Todd	now and ongoing		
25	23	Procurement team unable to meet deadlines due to resource restrictions leading to delay in schedule		None.	3	Moderate	B	Likely	High	1. Provide sufficient lead time where possible to allow for sufficient procurement planning. 2. Investigate adding additional resources in procurement department.	1. Todd 2. Steve	1. now and ongoing 2. June30		
26	24	Hydro commissioning resources are not available when required leading to delay in schedule		Integrated resource plan being completed.	3	Moderate	B	Likely	High	1. Incremental work plan - meet every week to talk about incremental work that has not been identified in the current plan	Steve Parsons	ongoing		
39	25	Poor media relations leads to reputation impact.		Communications plan and regular communications meeting Regular issue of news releases	3	Moderate	B	Likely	High					
46	26	Lack of material management leads to delay in schedule		Proenergy and Pennecon has a materials manager assigned. Is there a gap in T&D and communications?	3	Moderate	B	Likely	High	1. Investigate space for storage (Holyrood GS or Whitbourne?) 2. Create material register.	1. Todd 2. Todd	1. mid July 2. early July		
1	28	Delay at the border due to customs issues leads to project delay		Proenergy has experience with crossborder work and delivery All paperwork is planned to be prepared and at the border prior to arrival at the border.	3	Moderate	C	Moderate	High	For people, we have personnel who can cover if foreign workers need to return home. Use an experienced customs broker for equipment	Kerry	now		
8	29	Delay of contract award for T&D, terminal station or other by management leads to schedule delay		None.	3	Moderate	C	Moderate	High	Expedite contract approvals with management.	Steve Parsons	as required		
16	30	Delay due to material delivery (esp. 230kV line) leads to schedule delay.		None.	3	Moderate	C	Moderate	High	1. Expedite delivery of long lead items 2. Create materials register 3. Investigate special transportation permits for nonstandard poles	1,2. Terry/Trevor 3. Trevor	now and ongoing		

Risk Register and Action Plan

Project Number:

Project Name: New 100 MW GT

Column Key:		Do not enter data - automatically generated field
		Drop down list, select one item from list
		Enter text in this column

Number	Rank	Risk Description (Event and Consequence OR Cause)	Category	Existing Controls	Risk Severity Before Treatment				Risk Treatment Plan	Ability to Influence	Responsible Person (Risk Owner)	Due Date	Action Progress Status	Risk Status
						Consequence		Likelihood	Risk Level Before Treatment					
19	31	Lack of availability of trades labour leads to project delay		Pennecon is attuned to the local labour market. Regular topic in progress meetings	3	Moderate	C	Moderate	High					
22	32	Lack of work protection permit/coordination leads to safety incident		Coordinator assigned to the project. Regular status meetings Work group member training - work protection system OSR	3	Moderate	C	Moderate	High	1. Provide training in advance so that personnel can absorb and clarify as required. 2. Reinforce the requirement for issuing a late PC1 or new permit if there is a change in scope. 3. Ensure permitholders attend all meetings related to their permit.	Todd	1. now 2. now 3. now and ongoing		
23	33	Poor weather leads to delay in construction		Sensitive areas of the plant will be covered first as per the schedule.	3	Moderate	C	Moderate	High	Plan to get weather-sensitive scope completed early in the schedule.	Kerry	end June		
35	34	Security breach leads to safety incident		HSE Plan Gate security Dedicated security person assigned.	3	Moderate	C	Moderate	High					
37	35	Construction schedule for 230kV tieline is aggressive with limited resources leads to schedule delay		Schedule is being developed. Not critical path	3	Moderate	C	Moderate	High	Ensure plan is communicated to all relevant parties to ensure that appropriate planning is in place.	Trevor	end June		
38	36	Scope additions to existing EPC contract lead to delay in schedule. These are currently not in the schedule.		Change management process Has been discussed extensively with the contractor	3	Moderate	C	Moderate	High	Incorporate changes in schedule as soon as possible.	Steve Parsons	as required		
52	37	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to reputation impact		Underground scan Review existing drawings Discuss the plans with experienced personnel. Digging permits	3	Moderate	C	Moderate	High	Look at alternate excavation techniques to minimize impact	Gerard Piercy	end June		
5	38	Road from Route 60 to plant - unforeseen road construction leads to delay in delivery		Route survey completed.	2	Minor	B	Likely	High	Contact appropriate authorities to ensure that there are no conflicts with construction plan.	Steve Parsons	end June		
50	39	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to delay in schedule		Underground scan Review existing drawings Discuss the plans with experienced personnel. Digging permits	2	Minor	B	Likely	High	Consider alternatives for excavation	Gerard Piercy	end June		
24	40	Asbestos discovered leading to a need for remediation and delay in schedule		Transmission and substation have been surveyed.	1	Insignificant	A	Almost Certain	High	Contractor Asbestos management plan Investigate appropriate PPE for higher risk areas.	Sarah	early July		
4	42	Route survey does not pick up a physical obstacle leading to delay in schedule		None.	3	Moderate	D	Unlikely	Moderate	Validate the route just prior to shipping to ensure that there are no changes or something missed.				
40	43	Disgruntled public leads to aggressive behaviour and safety incident.		Regular issue of news releases Violence prevention policy CLC structure in place	3	Moderate	D	Unlikely	Moderate	Violence/protest procedure				
21	44	Work protection permit/coordination leads to schedule delay		Coordinator assigned to the project. Regular status meetings	2	Minor	C	Moderate	Moderate					
30	45	Substandard design quality due to aggressive schedule leads to schedule delay		Internal designs have three levels of review.	2	Minor	C	Moderate	Moderate					
31	46	Substandard design quality due to aggressive schedule leads to quality issues and cost impact		Internal designs have three levels of review.	2	Minor	C	Moderate	Moderate					
49	47	Fuel spill leads to environmental incident		Tanks are bermed. Fuel loading area is contained	2	Minor	C	Moderate	Moderate					
27	48	Congestion at the work site leads to schedule delay		Integrated plan. Directing traffic around work site project orientation requirements status meetings	1	Insignificant	B	Likely	Moderate	Limiting access to worksite				
7	49	Unforeseen subsurface soil conditions leads to cost impact		Geotechnical investigation completed.	2	Minor	D	Unlikely	Low					

Risk Register and Action Plan

Project Number:

Project Name: New 100 MW GT

Column Key:		Do not enter data - automatically generated field
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Number	Rank	Risk Description (Event and Consequence OR Cause)	Category	Existing Controls	Risk Severity Before Treatment				Risk Treatment Plan	Ability to Influence	Responsible Person (Risk Owner)	Due Date	Action Progress Status	Risk Status
						Consequence		Likelihood	Risk Level Before Treatment					
41	50	Redundant black start line to connect to T9. This may not be suitable as it has not been used in some time. Not critical path. Cost impact		Existing diesels will remain in place for black start until the new unit has been proven. Reviewing maintenance records for T9.	2	Minor	D	Unlikely	Low					
15	51	Lack of coordination of work with utility leads to schedule delay		Integrated plan in progress Previous experience working with Newfoundland Power	1	Insignificant	C	Moderate	Low					
34	52	Security breach leads to property loss and schedule delay		HSE Plan Gate security Dedicated security person assigned. Fenced area	1	Insignificant	C	Moderate	Low					



Risk Map Before Treatment			Consequence				
			Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
Likelihood	A	Almost Certain	24			32	
	B	Likely	27	5 50	3 25 26 39 46	51	
	C	Moderate	15 34	21 30 31 49	44 1 8 16 19 22 23 35 37 38 52	10 17 29 36 42 43 47	
	D	Unlikely		7 41	6 4 40	2 9 18 20 33 45	14
	E	Rare				11 13 28	12 48
			Low 4	Moderate 8	High 30	Extreme 10	

Risk Map After Treatment			Consequence				
			Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
Likelihood	A	Almost Certain	24				
	B	Likely	27		51 39		
	C	Moderate	15 34	47 3 25 46 23 21 30 31 49	32 26 19 35 37	10	
	D	Unlikely		44 45 16 38 52 5 50 7 41	29 36 42 43 2 6 1 8 22 4 40	17 9 18	
	E	Rare		48	33	14 20 11 13 28	12
			Low 12	Moderate 22	High 17	Extreme 1	



Risk Summary

Threats

			Sort	Sort
1	14	Construction activities leads to contact with energized lines leading to safety incident	Extreme	High
2	32	Unfamiliarity with new equipment leads to delay in commissioning	Extreme	High
3	51	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to safety issue	Extreme	High
4	10	Labour issues at the plant/TRO leads to delay in project	Extreme	Extreme
5	17	Lack of coordination of work with all of the work crews on site leads to safety incident	Extreme	High
6	29	Aggressive project schedule does not allow for any delay in design - lead to schedule delay	Extreme	Moderate
7	36	Delay in delivery of 230kV breakers, disconnects and insulators leads to schedule delay	Extreme	Moderate
8	42	Project team distractions due to other projects leads to delay in schedule. Delay in vendor information leads to delay in schedule. Delay in ferry shipment leads to delay in schedule for ancillary equipment.	Extreme	Moderate
9	43		Extreme	Moderate
10	47		Extreme	Moderate
27	44	Lack of coordination of work leads to schedule delay (interface management)	High	Low
11	12	Crane failure during offloading leads to damage to GT and schedule delay	High	High
12	48		High	Low
13	2	Damage during transport leads to significant repair on the unit leading to delay in schedule	High	Moderate
14	9	Labour issues with contractor leads to delay in project	High	High
15	18	Congestion at the work site leads to safety incident	High	High
16	20	Lack of availability of qualified and experienced trades leads to safety incident.	High	High
17	33	Unfamiliarity with new equipment leads to safety issue	High	Moderate
18	45	Lack of available space (laydown area) in Holyrood leads to delay in schedule	High	Low
19	11	Crane failure during offloading leads to safety incident	High	High
20	13	Crane failure during offloading leads to damage to GT and cost impact	High	High
21	28	Asbestos discovered/disturbed leading to a safety incident	High	High
22	3	Delay in shipping due to weather delays leads to delay in schedule	High	Moderate
23	25	Procurement team unable to meet deadlines due to resource restrictions leading to delay in schedule	High	Moderate
24	26	Hydro commissioning resources are not available when required leading to delay in schedule	High	High
25	39	Poor media relations leads to reputation impact.	High	High
26	46	Lack of material management leads to delay in schedule	High	Moderate
28	1	Delay at the border due to customs issues leads to project delay	High	Moderate
29	8	Delay of contract award for T&D, terminal station or other by management leads to schedule delay	High	Moderate
30	16	Delay due to material delivery (esp. 230kV line) leads to schedule delay.	High	Low
31	19		High	High
32	22	Lack of work protection permit/coordination leads to safety incident	High	Moderate
33	23	Poor weather leads to delay in construction	High	Moderate
34	35	Security breach leads to safety incident	High	High



Risk Summary

Threats

Sort

Sort

35	37	Construction schedule for 230kV tieline is aggressive with limited resources leads to schedule delay	High	High
36	38	Scope additions to existing EPC contract lead to delay in schedule. These are currently not in the schedule.	High	Low
37	52	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to reputation impact	High	Low
38	5	Road from Route 60 to plant - unforeseen road construction leads to delay in delivery	High	Low
39	50	Digging to install underground interconnection lines leads to discovery of uncharted equipment leading to delay in schedule	High	Low
40	24	Asbestos discovered leading to a need for remediation and delay in schedule	High	High
41	6	Unforeseen subsurface soil conditions leads to schedule delay	Moderate	Moderate
42	4	Route survey does not pick up a physical obstacle leading to delay in schedule	Moderate	Moderate
43	40	Disgruntled public leads to aggressive behaviour and safety incident.	Moderate	Moderate
44	21	Work protection permit/coordination leads to schedule delay	Moderate	Moderate
45	30	Substandard design quality due to aggressive schedule leads to schedule delay	Moderate	Moderate
46	31	Substandard design quality due to aggressive schedule leads to quality issues and cost impact	Moderate	Moderate
47	49	Fuel spill leads to environmental incident	Moderate	Moderate
48	27	Congestion at the work site leads to schedule delay	Moderate	Moderate
49	7	Unforeseen subsurface soil conditions leads to cost impact	Low	Low
50	41	Redundant black start line to connect to T9. This may not be suitable as it has not been used in some time. Not critical path. Cost impact	Low	Low
51	15	Lack of coordination of work with utility leads to schedule delay	Low	Low
52	34	Security breach leads to property loss and schedule delay	Low	Low