



MONTHLY PROGRESS REPORT

Project: **Wallingford Energy Center Expansion Project**
Client **Wallingford Energy II, LLC**
Location **Wallingford, Connecticut**
Job Number: **1015-5113**
Reporting Period **November 1st, 2017 through November 30th, 2017**

Submitted:
December 7th, 2017
Rocky Johnson
Site Manager

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EXECUTIVE SUMMARY

ProEnergy is pleased to report that Unit 6 & Unit 7 achieved first fire on November 1 & November 4 respectively. These milestones were reached 12 days & 14 days ahead of schedule based on the 10/26/16 baseline schedule

- CTG6 First Fire – 11/1/2017
- CTG7 First Fire – 11/4/2017

Currently the project is tracking to achieve Substantial Completion 12/16/2017 as was issued as a notice to LS Power in Change Order No. 17.

The focus for PES this month was to:

- First fire Units 6 & 7
- Run in units to burn out ducts and install SCR catalyst for Units 6 & 7
- Install remaining instrumentation on SCR's
- Finalize generator protection installation
- Complete the site berm outside the sound wall
- Complete replacement of questionable parts in 13.8kV Switchgear
- Publish IFC controls drawings
- Finish site lighting
- Heat trace and insulate all critical lines to prevent freezing

The critical path is presently performing the tie-ins to the low side of GSU 7X & 8X during a scheduled outage. The outage will also be utilized to perform all necessary electrical protection testing from and to the Wallingford Electric yard. After the outage the units can be run to burn in the catalyst and start the acceptance tests.

Weekly review meetings are continuing to be held each Thursday morning to discuss project status and issues.

ProEnergy is actively looking to improve the schedule dates for each major milestone and most importantly the Substantial Completion.

1. MAJOR ACTIVITIES COMPLETED

- 1.1. ENGINEERING-** None reported
- 1.2. PROCUREMENT** - None reported
- 1.2 FABRICATION / SHOP WORK** - None reported

1.3 CONSTRUCTION

1.4.1. MECHANICAL

#6 CTG Equipment

- Installed generator vent fan A motor enclosure panel.
- Continued installing insulation on pipe lines

#6 Stack & SCR

- Installed Catalysts
- Installed ammonia header instrumentation
- Installed hardware in stairs and platforms
- Completed CO module installation
- Completed SCR module installation

#7 CTG Equipment

- Installed CO2 bottles
- Continued installing insulation on pipe lines

#7 Stack & SCR

- Installed Catalysts
- Installed ammonia header instrumentation
- Installed hardware in stair and platforms
- Completed CO module installation
- Completed SCR module installation

1.4.2. ELECTRICAL

BOP Panels

- Made 549 terminations

480 Auxiliary Switchgear and Transformer – No Work Scheduled

480V System

- Made 489 terminations
- Rerouting wires for generator protection
- Pulled 1310 feet of cable
- Installed 20 feet of 2" conduit

24VDC System

- Pulled 3485 feet of cable
- Made 514 terminations
- Installed 4 welding receptacles

- Installed 80 feet of ¾" conduit
- Installed 110 feet of 1" conduit
- Installed 150 feet of 1-1/2" conduit
- Installed 20 feet of 2" conduit

PDC Building – No Work Scheduled

Lighting

- Build 4 lights and wired.
- Installed lighting contactor
- Installed lights at PDC
- Installed 40 feet of 3/4" conduit lighting
- Pulled 300 feet of cable

Heat Trace

- Continued working on heat trace installation
- I & C operators getting Heat Trace online- accomplished
- Pulled 1850 feet of cable

125 VDC System– No Work Scheduled

CEMS – No Work Scheduled

1.4.3. CONTROLS

- PES hired NEI to complete the MCC I/O design, turbine controls, BOP integration and system checkouts. CEG is contracted to design the Generator Protection Panel. The table below shows the tasks and percent complete.

1	Create BOP integration one-line integration topology diagram. (4)	100%
2	Purchase BOP integration PLC hardware (5)	100%
3	Install, test, and commission BOP integration PLC hardware. (6)	90%
4	MCC New PLC Programming (8)	90%
5	90/70. Review current program relating to MCC monitoring, control, and protection. (10)	75%
6	Functional testing and commissioning of MCC I/O devices to new PLC. (12)	0%
7	MCC. Integrate new MCC PLC controller into BOP HMI. (13)	60%

8	CEMS: Test and commission communications between the CEMS PLC's and the new DAHS system. Determine requirements to integrate the two new CEMS data into the facility DAHS (15)	75%
9	Unit 6 & Unit 7 - Review current local Wonderware HMI screens	100%
10	Unit 6 & 7 - NEI to make necessary modifications to the Local Wonderware HMI screens. (18)	100%
11	Install local Workstation computer.	100%
12	Sega Cable List (50 to BOP Cabinet): Review Cables List with GE Numbers to determine any new I/O that needs to be added to the MCC BOP PLC. - Create point to point termination drawings for items in the Sega list & BOM. (26)	95%
13	Sega Cable List (50 to BOP Cabinet): Modify MCC BOP PLC inter-connect drawing to add additional BOP I/O based on Cables List. Create new MCC BOP PLC hardware BOM based on additional BOP I/O. (27)	90%
14	WEII - Exhibit B-1, 6.1 Balance of Plant Control System (Facility SCADA). Review, analyze, and implement required SCADA screens. (34)	100%
15	WEII - Exhibit B-1, 6.2 Combustion Turbine Generator & Auxiliaries. Review, analysis, and implementation to Integration T6 and T7 remote monitoring and control into existing facility SCADA (Cimplicity) HMI. (37)	75%
16	WEII - Exhibit B-1 - xc.pdf, 6.3 Continuous Emission Monitoring System. Review, analyze, and incorporate new CEMS shelter into existing facility CEMS server/DAHS. (40)	90%
17	SCR. Review, analyze, and incorporates stand-alone controls into existing facility BOP. (43)	0%
18	8X Transformer. Review, analyze, and incorporate monitoring into existing facility BOP. (46)	100%
19	Heat Trace. Review, analyze, and incorporate monitoring into existing facility BOP. (52)	0%
20	8X Transformer Hydrogen (Dissolved gas) Review, analyze, and incorporate monitoring into existing facility BOP. (55)	95%
21	Unit 6 & 7 10-Minute Start. Review, analyze, implement & Test (58)	0%
22	Mk VI Fuel Controller. Install Unit T6 & T7 CPU. Power up and install program. (64)	100%
23	Unit 6 & 7 90/70: Sequence modifications: Add anti-icing monitoring, control, and protection. (66)	95%
24	Unit 6 & 7 90/70: Sequence modifications: Add Evap cooler monitoring, control, and protection. (67)	95%
25	90/70: Sequence modifications: Add Fuel block and bleed, monitoring, control, and protection. (68)	95%

26	NEI Startup support: (81) Installation, Testing, and Commissioning	85 %
27	Device Calibrations: LM6000 Instrumentation Calibrations. (Assumes 6, 10-hour days). Instrument Tech. ST, OT, and DT (85)	100%
28	Loop checks: (88)	100%
29	TCP LM90 Sequencer PLC (94)	100%
30	Create new MCC drawing schematics (95)	100%
31	Create 125VDC Drawing (96)	100%
32	#6 & #7 Generator Breaker Failure Indication (97)	0%
33	#6 7 #7 Review "Fiber" requirement for generator protection relays SEL-2664 and SEL-700G. Define cable for PES to order if needed. (99)	100%
34	Create new Shallbetter 115KV Switchgear as-built wiring schematics (102)	100%
35	Generator Protection Panel Design and Wiring Schematics (103)	0%
36	Unit 6 and Unit 7 Aux transformer Termination drawings (105)	100%
37	U 6 and Unit 7 GE Cable Optional List Review(106)	70%
38	MCC Main Breaker Wiring Drawing (107)	100%
39	MCC Transfer Switch Restoration (108)	100%
40	Revenue / Billing Meer Telemetry	10%

1.4.4. CIVIL & PAVING

- DeBaise Landscape, on site build Berm and planted trees

2. PLANNED ACTIVITIES FOR NEXT PERIOD

2.1. ENGINEERING

- 2.1.1. Controls - NEI & CSE will continue to work on the BOP
Integration, battery systems and SCADA screens

2.2. PROCUREMENT LOOK AHEAD

- 2.2.1. Continue with Procurement as outlined in the schedule.

2.3. FABRICATION / SHOP WORK - No scheduled work**2.4. CONSTRUCTION****2.4.1. MECHANICAL**

#6 CTG Equipment – No work scheduled/ mechanically complete

#6 Auxiliary Skid– No work scheduled/ mechanically complete

#6 Sprint Skid – No work scheduled/ mechanically complete

#6 Fuel Gas System

- Finish insulation
- Finish silencer installation

#6 Ammonia Injection Skid – No Work Scheduled

#6 Evap System – No work scheduled/ mechanically complete

#6 De-Icing System

- Complete insulation

#6 LP Water Injection Skid – No work scheduled/ mechanically complete

#6 CO2 Rack Skid – No work scheduled/ mechanically complete

#6 Oily Water Drains – No work scheduled/ mechanically complete

#6 Wash Water Drains – No work scheduled/ mechanically complete

#6 SCR – No work scheduled/ mechanically complete

#6 Stack – No work scheduled/ mechanically complete

#7 CTG Equipment – No work scheduled/ mechanically complete

#7 Auxiliary Skid

- Relocate TLO demister

#7 Sprint Skid – No work scheduled/ mechanically complete

#7 Fuel Gas System

- Install silencer and insulation

#7 Ammonia Injection Skid – No work scheduled/ mechanically complete

#7 Evap System – No Work Scheduled

#7 De-Icing System

- Complete insulation

#7 LP Water Injection Skid – No Work Scheduled

#7 CO2 Rack Skid – No work scheduled/ mechanically complete

#7 Oily Water Drains – No Work Scheduled

#7 Wash Water Drains – No Work Scheduled

#7 SCR

- Complete insulation

#7 Stack – No work scheduled/ mechanically complete

2.4.2. ELECTRICAL

15KV System– No Work Scheduled

480 Auxiliary Switchgear and Transformer – No Work Scheduled

480V MCC

- Complete Punch list

Control, Instrument and Power Cables

- Complete terminating power and instrument cables to both units.

PDC Building

- Install all fire stop cable tray penetrations
- Complete the Generator Protection Panels

Heat Trace

- Complete heat trace installation

Lighting

- Complete lighting installation

2.4.3. CONTROLS

- Complete Control Wiring Drawings

- PDC BOP Rx3I PLC
 - Complete device IP Addresses
 - Complete engineering design of the Motor Control Center (MCC) monitoring and control system.
 - Program new PLC.
- Modify control system program to incorporate:
 - Anti-icing monitoring, control, and protection.
 - Evap cooler monitoring, control, and protection.
 - New fuel block and bleed monitoring, control, and protection.
- Review existing display screens for Unit T6 and Unit T7. Modify existing Wonderware HMI screens as required

2.4.4. CIVIL– No Work Scheduled

2.4.5. STRUCTURAL– No Work Scheduled

3. STARTUP & COMMISSIONING

SUMMARY

- Commissioning has been focused this month on First Fire on both Units.
- Secondary focus for the month has been to complete documentation for any and all Turnover Packages which are able to be sent to the owner. We are also pushing to complete as many Punch list items as possible during the outages. Installation of the CO and SCR Catalyst including all associated instrumentation, loop check completion, etc.

Acceptance Testing

- Emissions Testing
 - CEMS Certification
 - Protocol Complete
 - Compliance Testing
 - Protocol Complete
- Performance Testing
 - Protocol Complete
- Reliability Testing
 - Procedure Complete
- 10 Minute Start
 - Procedure Complete
- Sound Level Test Procedure
 - Procedure Complete
- Auxiliary Load Test Procedure
 - Procedure Complete
- Ammonia Consumption Test

- Procedure Complete

Commissioning activities

- First Fired Unit #7 to FSNL
- First Fired Unit #6 to FSNL
- All systems have been Turned over to Commissioning from Construction
- Systems which have been turned over from Construction to Commissioning:
 - Instrument Air
 - Service Air
 - Fuel Gas
 - Potable Water
 - Demineralized Water
 - Hydraulic Start #6 & #7
 - High Voltage
 - Medium Voltage
 - Low Voltage
 - UPS & 125DC
 - Turbine Lube Oil Units #6 & #7
 - Generator Lube Oil Units #6 & #7
 - NOx Injection #6 & #7
 - Sprint Water #6 & #7
 - Control System
 - Water Wash Unit #6 & #7
 - Generator #6 & #7
 - Ammonia Distribution
 - Turbine Unit #6 & #7
 - Evap Cooler Unit #6 and #7
 - Ventilation and Combustion Air Unit #6 & #7
 - CEMS Unit #6 & #7
 - Fire Protection Unit #6 & #7 High Voltage
 - Heat Trace
 - Area Lighting and grounding
 - SCR Units 6 & 7
 - Waste Water
- Systems Turned Over from Commissioning to LS Power:
 - Turbine Lube Oil Units # 6 & #7
 - Generator Lube Oil Units #6 & #7
 - Fire Protection Unit #6 & #7
 - Fuel Gas
 - Ventilation and Combustion Air Unit #6 & #7
 - Instrument Air
 - Potable Water

- Demin Water
 - Service Air
 - Hydraulic Start Unit #6 & #7 (Under Review)
 - Ammonia Distribution (Under Review)
 - Generator Unit #6 & #7
- Systems Accepted by LS Power:
- Turbine Lube Oil Units #6 & #7
 - Generator Lube Oil Units #6 & #7
 - Fire Protection Unit #6 & #7
 - Fuel Gas
 - Ventilation and Combustion Air Unit #6 & #7
 - Instrument Air
 - Potable Water
 - Demin Water
 - Service Air
 - Generator Unit #6 & #7

3.1. MECHANICAL

- Started Flushing and Completed NOx Injection Unit #6
- Started Flushing and Completed NOx Injection Unit #7
- Started Flushing and Completed Sprint Water Unit #6
- Started Flushing and Completed Sprint Water Unit #7
- Started Flushing and Completed Water Wash Unit #6
- Started Flushing and Completed Water Wash Unit #7
- Fit up CDP 90 elbow engine connection Unit #6 & #7.
- Fab & install HP Sprint tubing to manifold connection Unit #6 & #7.

3.2. INSTRUMENTATION

- Instrumentation Summary
- Installed FE and FC 6243 Unit # 6
- Installed FE and FC 6243 Unit # 7
- Calibration Summary
 - Unit #6 Calibrations 100% Complete
 - Unit #7 Calibrations 100% Complete
- Loop Checks
 - Unit #6 Loops shot 100% Shot
 - Unit #7 Loops Shot 100% Shot

3.3. ELECTRICAL

- Completed 100% of Motor Run ins
- MCC's and/or equipment which has been energized and is under commissioning jurisdiction as follows:
 - Generator L/O Unit #6 Heaters
 - Generator L/O Unit #7 Heaters
 - Turbine L/O heater Unit #6
 - Turbine L/O heater Unit #7
 - Generator space heater #6
 - Exciter space heater #6
 - Generator space heater #7
 - Exciter space heater #7
 - Generator Enclosure lighting Unit #7
 - Generator Enclosure lighting Unit #6
 - 125 DC battery chargers and batteries
 - 24V DV battery chargers and batteries
 - Energized TCP #7
 - Energized TCP #6
 - Energized Sprint Skid Heaters
 - Energized 15KV switch gear heaters
 - 24V power supplies 1-10 energized
 - Lighting Panel A
 - Lighting Panel B
 - Energized NOx skid Heater
 - Energized Turbine enclosure lighting Unit #6
 - Energized Turbine enclosure lighting Unit #7
 - Energized the UPS Inverters
 - Aux Transformer #6
 - Aux Transformer #7
 - 480V MCC on Perm Power
 - Hydraulic Oil Heater #6
 - Hydraulic Oil Heater #7
 - Gen. Enclosure Space Heaters #6
 - Gen. Enclosure Space Heaters #7
 - Aux Skid Space Heaters #6
 - Aux Skid Space Heaters #7
 - Energized Heat Trace Transformer

- Energized Heat Trace Panel
- Energized all heat trace circuits less 1 circuit

3.4. CONTROL SYSTEM

- Installed FE and FC 6246 Unit #6 & #7
- Communication checkout on CEMS to PDC and to Control Room

3.5. SAFETY

- Mon. Tool Box Talk
- Confined space entry to valve vault

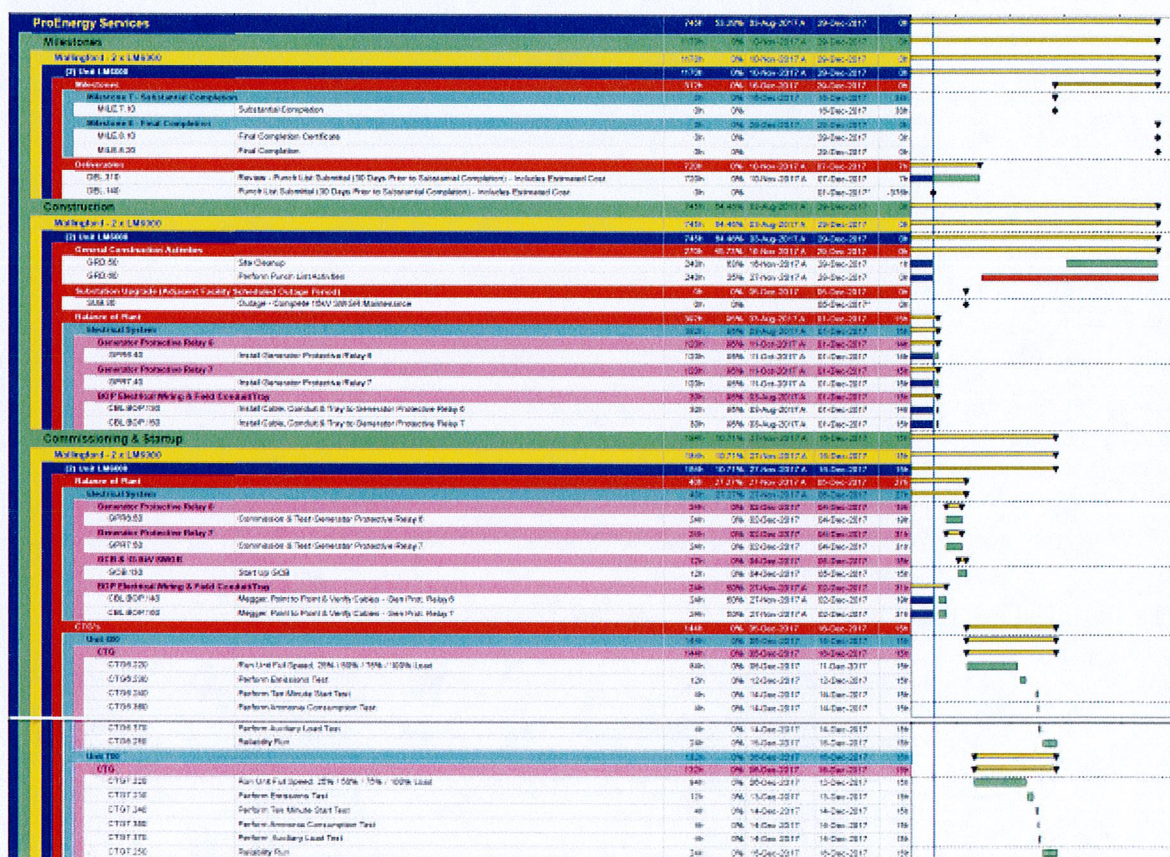
3.6. PLANNED ACTIVITIES FOR NEXT PERIOD:

- Sync, Tune and Load Unit #6
- Sync, Tune and Load Unit #7
- Acceptance Testing Unit #6 & #7

4. PROCUREMENT STATUS – None**5. DELIVERY STATUS – None****6. SCHEDULE****6.1. CRITICAL PATH ANALYSIS**

The current critical path flows through performing the outage to reterminate the cable bus on the low side of both GSU's and closing the GCB to finalize run in time and testing of the units.

Please note that the system is critical to the activities driving the substantial completion date which has pushed out past the 12/15/2017 contractual date to 12/16/2017 based on outage availability provided by LS Power.



Items following closely behind the critical path are:

- Installing, Commissioning and Start Up of the Ammonia System to support emissions testing
- Finalizing Punch List and Completing Punch List Activities for Final Completion

ProEnergy is in process of finalizing the Ammonia system and has requested the removal of the LOTO on the tie-in at the valve box.

Site currently is walking down the systems with the client and simultaneously working on completing punch list tasks.

6.2 MILESTONES COMPLETED:

- I&C Engineering IFC Drawings Released – November 21, 2017
- CTG6 First Fire – November 4, 2017
- CTG7 First Fire – November 1, 2017

6.3 MILESTONE SLIPPAGE**6.3.1. CTG6 First Sync**

- Date slipped 12 days based on availability of outage to reterminate the cable bus to the lower side of the GSU.
- New Date 12/5/2017.

6.3.2. CTG7 First Sync

- Date slipped 13 days based on availability of outage to reterminate the cable bus to the lower side of the GSU.
- New Date 12/6/2017.

6.3.3. Mechanical Completion

- Due to delaying the first sync of the units, mechanical completion has pushed out as well.
- Moved 13 days.

6.3.4. Substantial Completion

- Due to the date allowed for an outage, the substantial completion date has moved to 12/16/2017.
- Moved 11 days.

6.4 NOTABLE CHANGES:

- 6.4.1.** Reduced duration of activity CTG6.250 'Reliability Run' from 3 days to 2 days based on clients request to perform test over 2 day period instead of 3 days.
- 6.4.2.** Reduced duration of activity CTG7.250 'Reliability Run' from 3 days to 2 days based on clients request to perform test over 2 day period instead of 3 days.
- 6.4.3.** Reduced duration of FGC6.370 'Install Fuel Gas Coalescer Heat Trace' from 12 days to 3 days based on heat trace progress.
- 6.4.4.** Reduced duration of FGC6.410 'Install Fuel Gas Coalescer Insulation' from 12 days to 2 days based on contractor progress.
- 6.4.5.** Reduced duration of FGC7.370 'Install Fuel Gas Coalescer Heat Trace' from 12 days to 3 days based on heat trace progress.
- 6.4.6.** Reduced duration of FGC7.410 'Install Fuel Gas Coalescer Insulation' from 12 days to 2 days based on contractor progress.
- 6.4.7.** Added SS relationship with 1 day lag between CTG6.220 'Run Unit Full Speed, 25% / 50% / 75% / 100% Load' and CTG7.220 'Run Unit Full Speed, 25% / 50% / 75% / 100% Load'. This was added to show the process that will be performed with the units in the run in

of the units and soaking the SCR catalyst. Unit 6 will start first, then Unit 7 will start the day after.

6.5. OVERVIEW

6.5.1. Schedule attached.

7. QUALITY -

- 7.1 Organizing documentation
- 7.2 Reporting Inspections: Walk down the following Fuel/Gas lines for release for insulation to Brand Insulators.
- 7.3 Reporting Inspections : Walk down the following BOP lines for release for Heat Trace to Dinto Elec
- 7.4 Reviewed Construction Books with Randy Bryan-LS Power for turnover, 8 books reviewed
- 7.5 Visual and Liquid Dye Penetrant Testing on the Spargers on unit # 6 & # 7

8. SAFETY

- 8.1. Daily safety audits performed on PES Crafts and subcontractors working on job site. No major issues to report.
- 8.2. Provide safety orientations to new personnel and new contractors coming to the job site as per PES EHS Manual.

9. ISSUES

- 9.1. ProEnergy has requested an outage for any time after November 22, 2017 in order to complete the necessary work. On November 20, 2017, an email from R. Johnson to G. Holk and N. Chubet stated that any outage after November 26th would be a day-for-day delay. The current status is a tentative outage on December 4, 2017. Outage approved on November 30, 2017 for December 4, 2017.

10. CHANGE MANAGEMENT**10.1. Open Change Orders**

- 10.1.1. Change Order NO 8 – 125VDC System
- 10.1.2. Change Order NO 9 – Temporary Diesel Generator Power
- 10.1.3. Change Order NO 10 – Past and Future Power Costs for Trailers
- 10.1.4. Change Order NO 11 – SB 270 Credit
- 10.1.5. Change Order NO 12 – Underground Fiber Optic Vault Interference / Relocation

- 10.1.6. Change Order NO 13 – Install Crushed Stone Along FG Pipe
- 10.1.7. Change Order NO 14 – H-Tower Disconnect Switch Credit
- 10.1.8. Change Order NO 15 – Billing Meter Telemetry
- 10.1.9. Change Order NO 16 – CO2 Dump Test
- 10.1.10. Change Order NO 17 – Delay to the Guaranteed Substantial Completion date

10.2. Pending Change orders

- PES is working on a several miscellaneous changes orders that will be issued next month.

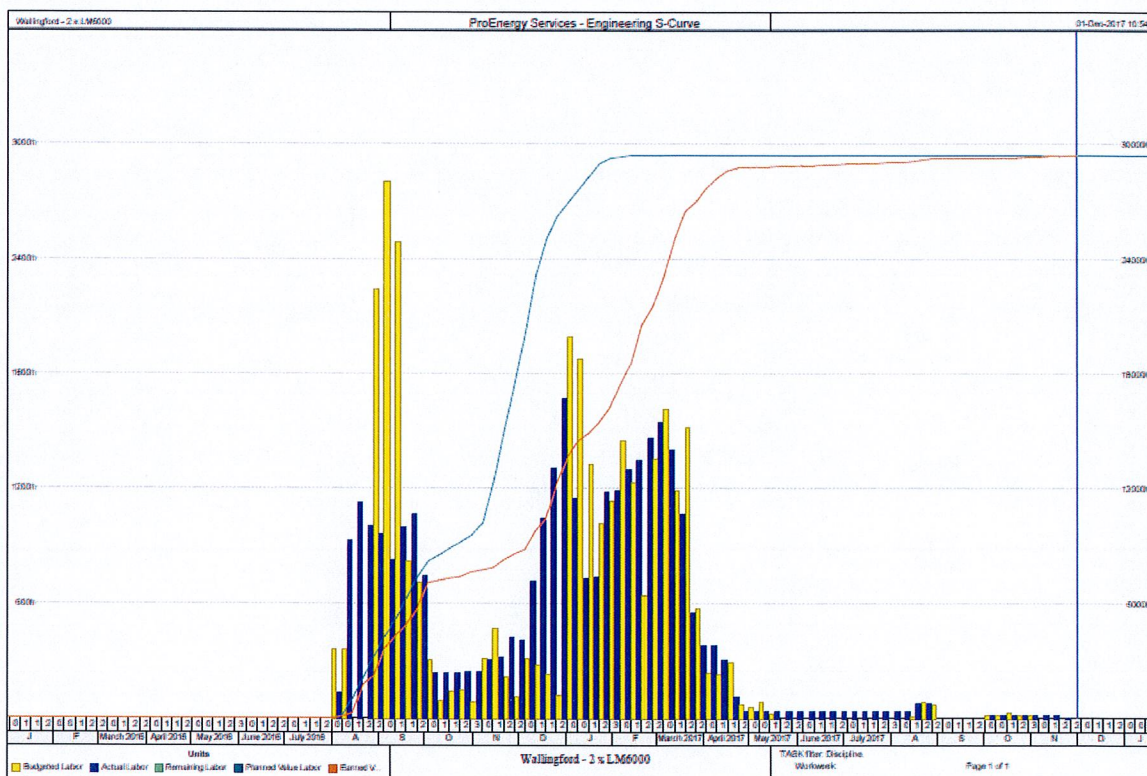
11. DRAWING LIST

- 11.1.** Schedule shows key drawing dates.

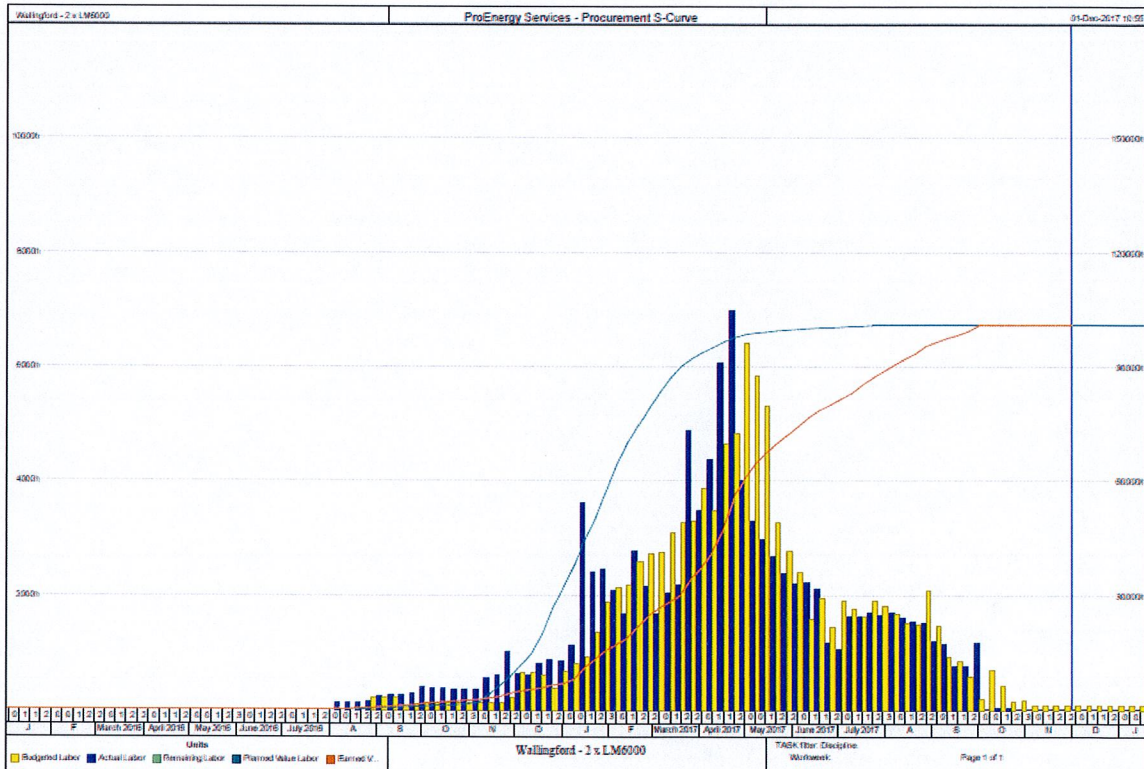
12. ANALYTICAL

See attached progress curves.

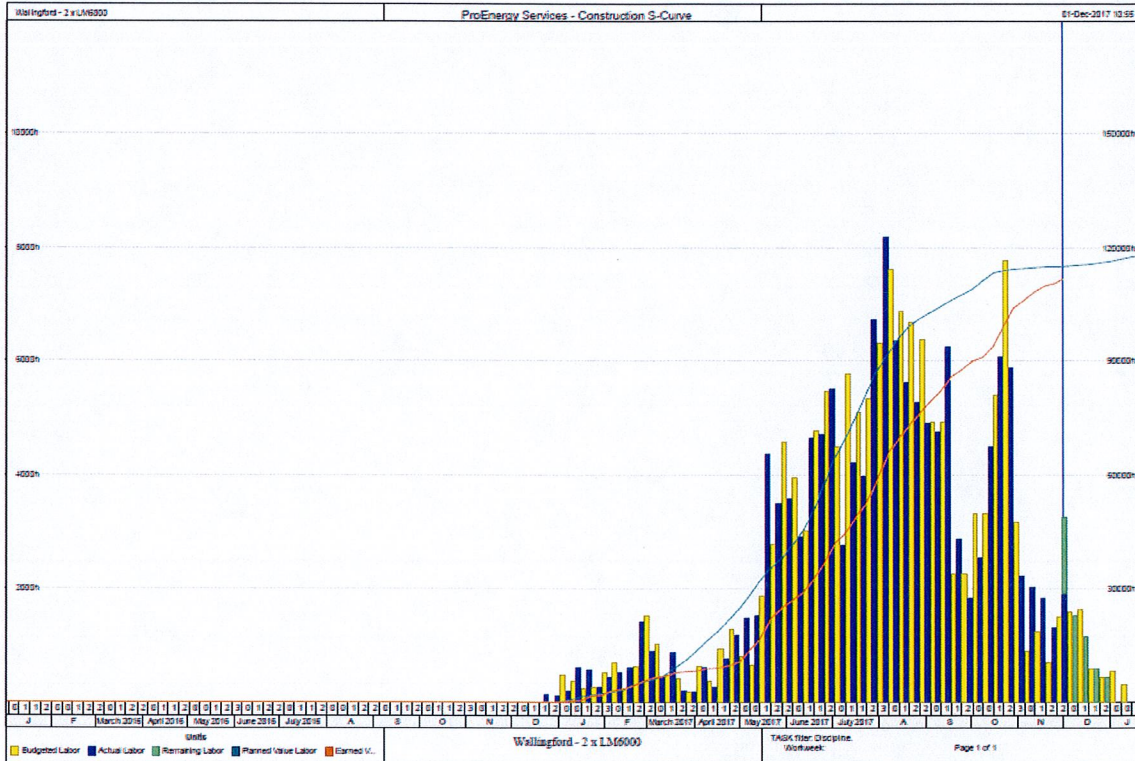
12.1. Engineering.



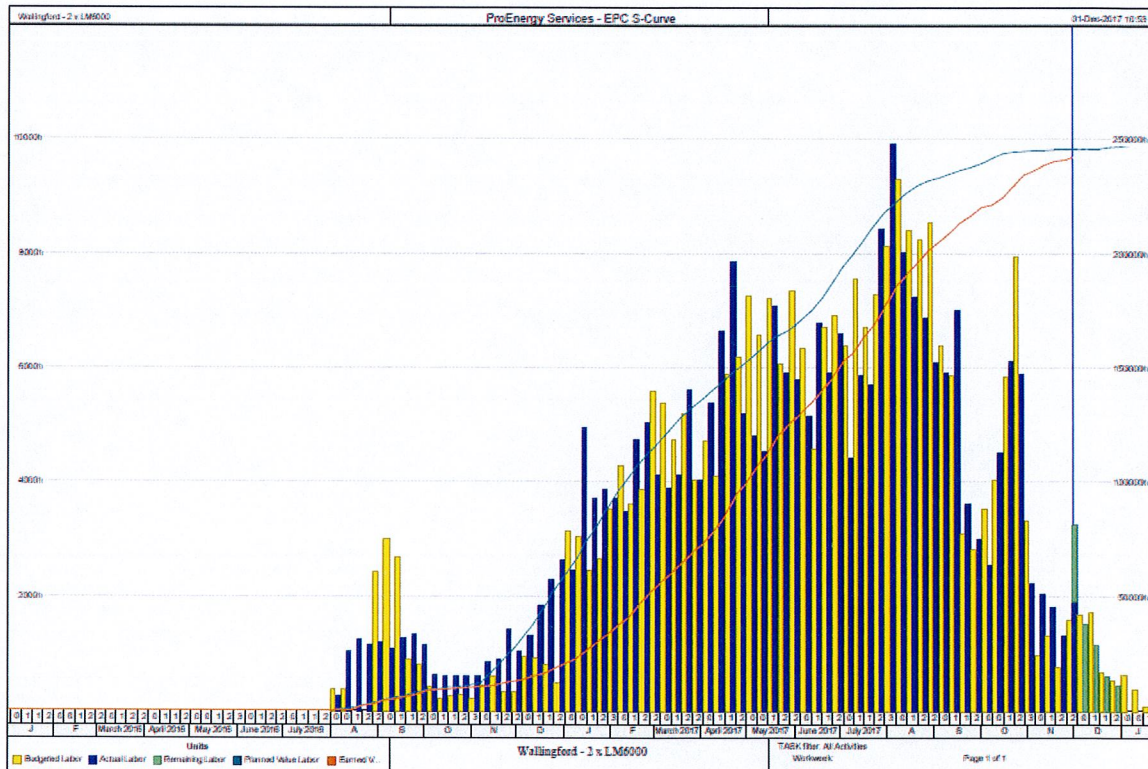
12.2. Procurement.



12.3. Construction.



12.4. EPC.



12.5. MATERIALS INSTALLED

CIVIL

Foundations	Flowable Fill	Concrete	Total Cubic Yards
GT Generators	172	344	516
Exhaust Stack/SCR	290	420	710
Electrical / Control Building	50	75	125
GSU Transformers 13.8kV delta x 13.8kV / 230 kV	30	100	130
Fin fan lube oil, Sprint, Water Injection, CTG removal pad, CO2 rack, Auxiliary skids, Fuel Filter	250	175	425
Cable Tray & Bus foundations	54	114	168
Sound wall & Grade beams	0	472	472
Back fill underground piping	566	0	566
Total cubic yards installed	1412	1700	3112

PIPING

Pipe	Installed in October	Total installed
Large Bore Pipe	0	788'-3"
Small Bore Pipe	0	6,000'-1"

CABLES & TERMINATIONS

Total Terms	From Terms Complete	To Terms Complete	% Terms Complete	% Cables pulled	Total Cables	Total Cables Pulled
7,600	1,393	1,393	89.3%	97.97%	985	965

13. LABOR STATISTICS.

13.1. ProEnergy Services Safety Information for Wallingford Project

	2017 November	Project Total
Employees	86	86
Hours worked	9,809	116,340
Lost Workdays Incident Rate	0	0
Total Recordable Incident Rate	0	0
DART (Days away, restricted, transferred)	0	0

14. PERMIT STATUS.

14.1. ProEnergy received Connecticut Major Contractor license.

14.1.1. Storm Water received October 3.

14.1.2. D&M approval received on September 29.

14.1.3. None required for Change Order 2 work.

15. PHOTOS

Installed Catalysts



Unit 6 personnel screen installed



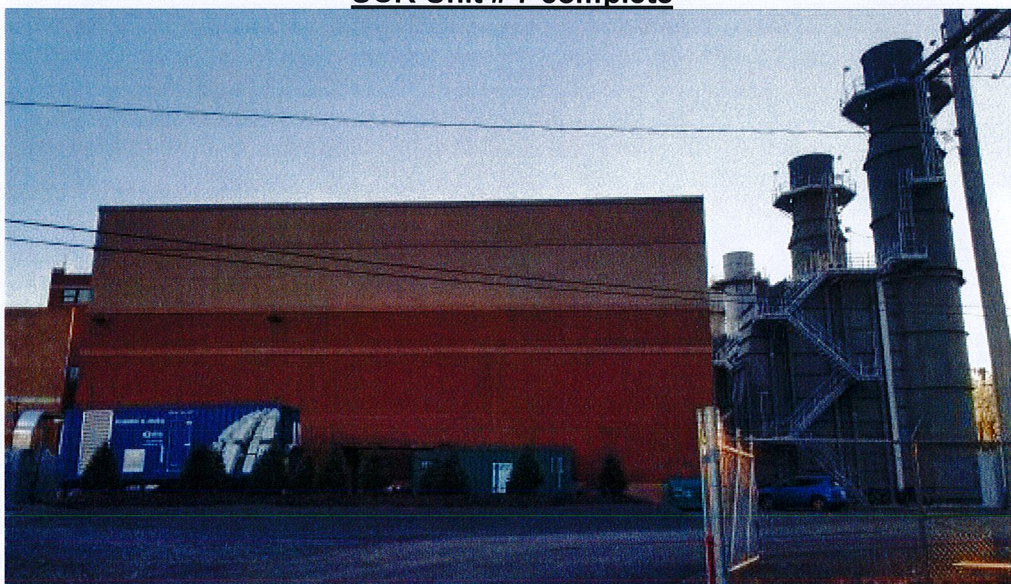
Unit 7 personnel screen installed



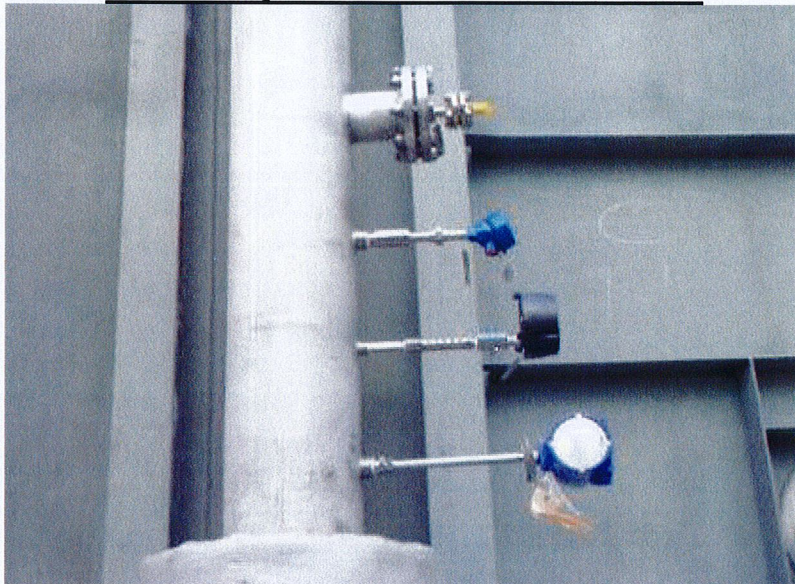
SCR Unit # 6 complete



SCR Unit # 7 complete



Installed injection header instrumentation



Installed duct thermocouples



Insulators working on fuel/gas skid



Insulation and aluminum jacket installed.



Above ground Fuel/Gas system being insulated



Heat Trace indicator lights on line and glowing!



Continued Heat tracing control panel/transformer



Working on Heat trace control panel.



Installed CO2 bottles



Access Road pole lights installed and functioning



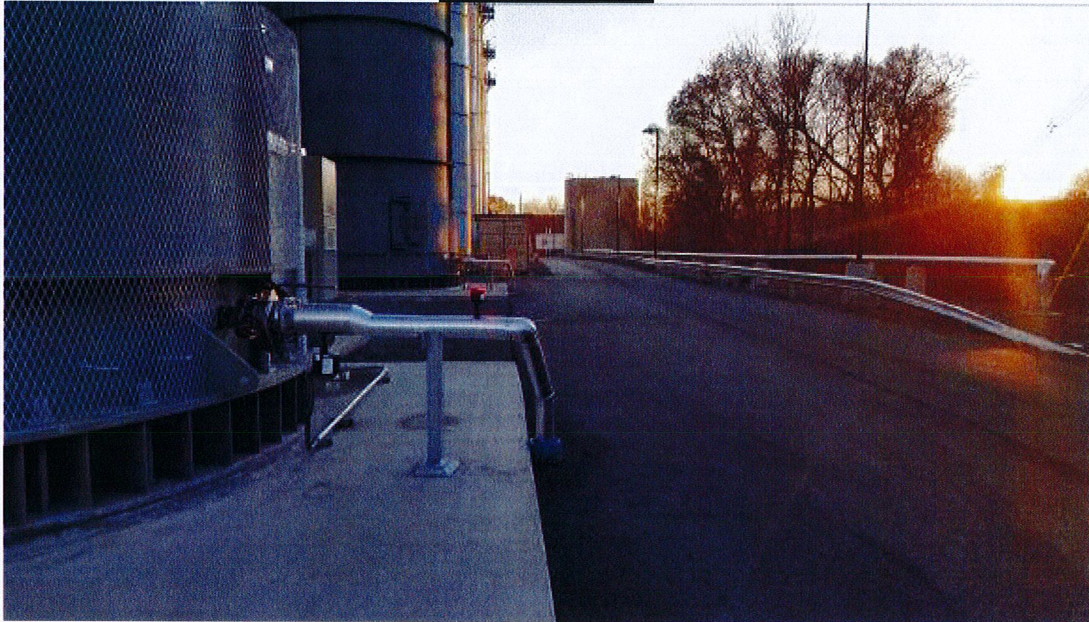
Landscapers installing Tree Island.



Road complete



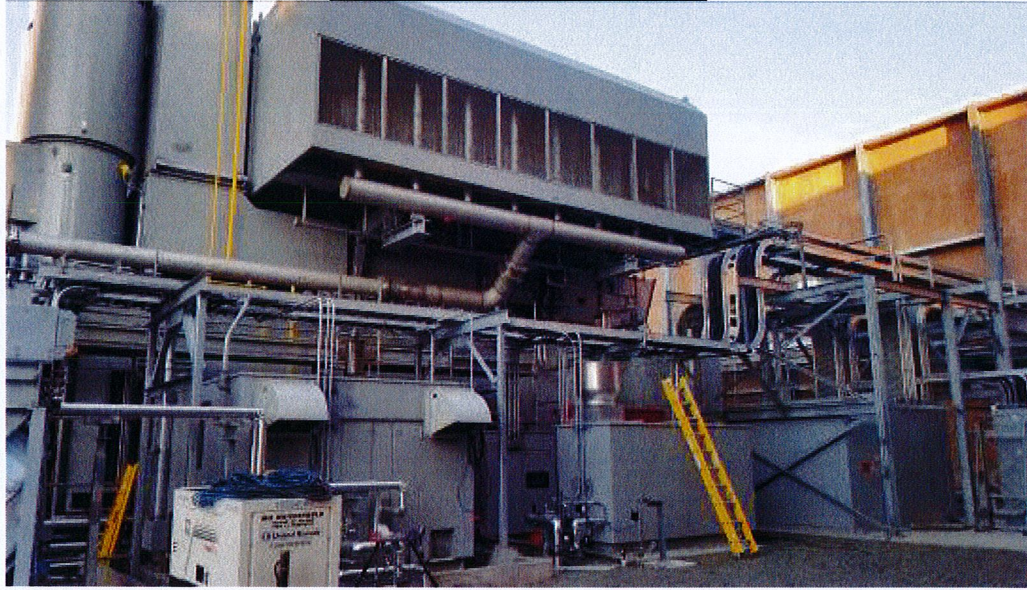
Road complete



November panoramic pics



November panoramic pics



November panoramic pics

