



November 13, 2018

**VIA ELECTRONIC MAIL AND OVERNIGHT MAIL**

Melanie A. Bachman  
Executive Director  
State of Connecticut  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

**Petition No. 1218 – PSEG Power Connecticut LLC  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Fifteen Day Natural Gas Fuel Pipe Cleaning Operation Notification**

Dear Ms. Bachman:

In accordance with Conditions 5, 6, and 7 in the Connecticut Siting Council's Decision and Order, dated July 21, 2016, PSEG Power Connecticut LLC (PSEG) is providing the required fifteen (15) day notice of the natural gas fuel pipe cleaning which is scheduled to begin in late November 2018. Natural gas will not be used for fuel gas pipeline cleaning during construction or future modifications to the facility.

The scope of this notice is the natural gas fuel piping that supplies the combustion turbine (CT) and heat recovery steam generator (HRSG) duct burners, as well as the Auxiliary Boiler. Generally, the piping runs from the interface point with Southern Connecticut Gas installed supply pipeline to the site, and then to the Turbine Building, HRSG, and Auxiliary Boiler. The natural gas piping is routed through the fuel gas compressor building / area, above ground or in trenches, and below ground.

For commercial and practical reasons, PSEG will clean the high and low pressure systems in accordance with the procedures and system boundary drawings provided in Exhibit 1, although the small diameter space heating supplies will generally not be subject to Special Inspector oversight. The low pressure gas piping to buildings for space heating is installed consistent with typical commercial standards.

Included in this notification are:

1. Procedures that describe the cleaning process and hazards, including mitigation of hazards, applicable regulations and industry practices, and worker safety provisions (Exhibit 1);
2. Pipe cleaning boundary drawings (Exhibit 1);
3. Contractor identification and experience information (Exhibit 2);
4. Contact and qualification information for the Special Inspector (P. Convery P.E.) engaged for the work (the City of Bridgeport approval of the Special Inspector will be provided via separate cover) (Exhibit 3); and
5. Proof of notice to the applicable Connecticut State Agencies (Exhibit 4)

**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

PSEG has engaged Reed Industrial Services of Bedford New Hampshire to perform the work. They will manage and perform the natural gas pipe cleaning scope. Reed has previously performed pipe cleaning operations using the specified processes for other generating and industrial facilities in the northeastern United States. Tucker Mechanical of Meridan Connecticut will assist Reed as required.

PSEG will utilize an air blow and / or water flushing pipe cleaning processes with compressed air as the media to clean the fuel gas process piping systems. The air blow process uses temporary air compressors to pressurize the system and valves to rapidly vent the piping systems. The pressurization and depressurization cycles are repeated until the piping systems are determined to be clean.

With regard to known hazards, the air blow process cleaning removes pipeline fabrication-related materials, water, and other construction debris from the pipe interiors. Safety boundaries and/or exclusion zones will be established as required to provide for personnel safety and mitigate safety risks to both personnel and other plant equipment. All personnel involved with the pipeline cleaning will be briefed / trained. PSEG has incorporated the codes and standards cited in the Decision and Order Condition 7 into the design and planning for the facility related to this scope.

As noted above, PSEG has provided the required notices to the State of Connecticut and City of Bridgeport agencies listed in Exhibit 4.

If you have any questions or require clarification, please contact me at 973-856-0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 856-359-7645.

Very truly yours

A handwritten signature in black ink, appearing to read "David Hinchey", with a stylized flourish at the end.

David Hinchey  
Manager – Environment Major Permits and Projects

PSEG Power LLC  
Fossil Environment, Health and Safety

**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

**Enclosures - Exhibits:**

- 1. Specification and System Boundary Drawings**
- 2. Contractor Qualifications**
- 3. Special Inspector Qualifications**
- 4. Proof of Certified Mailings to Designated Connecticut State Agencies**

**Copies:**

Michael Perrone (3 full hardcopy and electronic copy)  
Henry Polite – City of Bridgeport Fire Marshal (1 full hardcopy and electronic copy)  
Harold Blinderman, Esq (electronic copy)  
Leilani M. Holgado, Esq. (electronic copy)  
Karl Wintermeyer (electronic copy)  
Scott Matheson (electronic copy)  
Jeffrey Pantazes (electronic copy)  
Leonard Rodriguez, Esq.- United Illuminating Company (electronic copy)  
Thomas Gill – City of Bridgeport (electronic copy)

**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

**Exhibit 1 – Specification and System Boundary Drawings**



# **Reed Industrial Services, LLC**

## **Bridgeport Harbor Unit #5**

### **Fuel Gas TAP Flush Guideline**

#### **Underground Piping**

#### **Prepared for**

#### **Tucker Mechanical, Inc.**

**October 2018**

<b>Revision No. 1</b>	<b>October 18, 2018</b>
<b>Revision No. 2</b>	<b>October 24, 2018</b>
<b>Revision No. 3</b>	<b>November 10, 2018</b>

## Scope

Reed Industrial Services has been tasked with cleaning the underground fuel gas piping for PSE&G at the Bridgeport Unit 5 Energy Facility. The cleaning will consist of 2 methods for cleaning, Turbulent Aerated Pig (TAP) flushing (See attached description) and Cycled Air Blowing. TAP flushing will be used for the lines 6" – 3". Air blowing will be used for the 2" lines. The lines to be cleaned are as follows:

- UG to Aux Boiler
- UG to 2" Aux Boiler drain/vent
- UG to Turbine Building Heating
- UG to Admin/Control/Aux. Building Heating
- UG to Warehouse/Maintenance Building Heating
- UG to Duct Burners
- UG to 2" Duct Burner drain/vents

Once these lines have been flushed and dried, the UG to AG/User connections will be restored and the lines will be further Air Blown to the User interface with the OEM Provided Equipment.

See attached Appendix for P&ID and ISO list. SNC Lavalin 5FGA-M2381G Rev1 sheet 7 of 8 Line Numbers and Battery Limits.

## Reference Codes and Standards

NFPA 37 2010 edition  
NFPA 54 2009 edition  
NFPA 54 Temporary Interim Amendment August 25, 2010  
NFPA 56 2017 edition  
NFPA 850 2010 edition  
NFPA 850 Temporary Interim Amendment 10-2 Nov. 9 2010  
ASME B31 2007  
ASME B31.1 appendix 4 & 5 2007

## Velocities

The TAP flushing process will yield velocities between 40 – 60 feet per second. The air blowing process will yield velocities of 30 -70 feet per second in the 2" lines.

## 1.0 Process Safety –

1. A written Safety Validation shall be completed and reviewed prior to start of the cleaning work.
2. Inspect all temporary jumpers (see attached drawings) for integrity and proper installation. All hoses being used should be properly routed and supported to enable them to bear the weight of water. They will be inspected prior to beginning any cleaning evolution.
3. Whip checks must be installed on any flexible air hoses in accordance with proper air hose installation practice.
4. Review the permanent installed system to ensure that all piping is complete, pressure tested and ready for service.
5. Ensure that all in line devices, instruments or spools not part of the cleaning are removed, bagged, tagged and stored.
6. Complete a JSA/PHA with all parties involved in the cleaning activities. Sign off and post the JSA/PHA in the proximity of the work area. This should be completed for each of the evolutions.
7. Install barrier tape as deemed necessary around the work area in accordance with the Safety Validation Plan.
8. Ensure that all personnel are wearing the appropriate and required PPE as per the Safety Validation Plan. Also ensure that authorized personnel are equipped with radios for communication.
9. Have a full set of hand tools nearby to be able to address any leaks that occur.
10. Ensure that any temporary piping is properly installed and secured to prevent excessive movement.
11. Be certain that all required system pipe hangers are installed and ready for service.
12. Be certain that all personnel involved in the cleaning are trained in how to safely shut down the temporary compressor in case of a major leak. This includes how to quickly LOTO the machine if needed.
13. All personnel should heed the importance of the barricades and boundaries at the exit points of each flow path and stay clear of the exiting air/water plume at the containment point for each flow point. Water will be contained/controlled to avoid ponding and or ice buildup for personnel safety and environmental compliance.
14. Note that anyone involved in the process can terminate the TAP flush at any time if they detect any issue which they feel is unsafe. Correct any issues and ensure that all parties are confident in the system integrity before restarting.

**NOTE: The air compressor to be provided for this TAP Flushing and Air Blowing evolution produces 750+ SCFM of oil free high quality air at up to 135 PSIG.**

## 2.0 - Initial Preparations – Per the following Drawing:

### 5FGA-M2381G Sheet 7 of 8

1. Remove piping spool at 5FGA-01701-FB1-6 where the exit of the Fuel Gas Pressure Reduction Skid piping enters connects to the UG piping.
2. Install the TAP flush temporary inlet piping to the UG piping flange.
3. Assemble the balance of the TAP flush equipment.
4. Remove spool from UG to 5FGA-VLV-1012. Blind at UG.
5. Remove spool from UG to 5FGA-VLV0082 (Duct Burners). Blind at UG.
6. Remove spool from UG to 5FGA-VLV0074 (Warehouse/Maintenance Building). Blind at UG.
7. Remove spool from UG to 5FGA-VLV0076 (Admin/Control/Aux Building Heating). Blind at UG.
8. Remove spool from UG to 5FGA-VLV0071 (Turbine Building Heating). Blind at UG.
9. Remove spool from UG to 5FGA-VLV1011. Blind at UG.
10. Remove spool from UG to 5FGA-VLV0079 (Aux Boiler). Install TAP flush exit piping and hoses. This will be the first flowpath to be flushed.

### NOTE:

*Order replacement soft goods (seals and gaskets) for restoration of all items disassembled for cleaning.*



### 3.0 – TAP Flush No. 1:

1. Start the diesel air compressor and initiate air flow thru the piping the first exit location at the Auxiliary Boiler UG/AG exit location.
2. Verify that air is exiting and that no hydro water is present.
3. Close the air valve to the TAP former and build up to 20 psi in the air receivers.
4. Open the air valve and blow the system to clear any standing water from the lines.
5. Fill the TAP former with the 20 gallons of water.
6. Fill the air receiver(s) with 135 psi air.
7. Release the TAP slug thru the line by opening the air valve between the air receiver and TAP former at an average drive pressure of 40 psi.
8. Once the TAP slug exits the piping, continue flowing air for 30 seconds.
9. Repeat this process until the TAP slug appears to be visually clean.
10. Once the line is deemed to be visually clean, grab a sample of the exiting TAP slug and run it thru the Millipore machine. Inspect the Millipore patch for particulate. If none is present and the patch is not highly discolored, secure the line by installing a blind.

### 4.0 – Air Blow No. 1:

1. Remove the blind at 5FGA-VLV1011. Step the blind off the end of the line with threaded rod and allow for a 2" air gap.
2. Start the air compressor and air blow the 2" line with continuous air flow.
3. Allow the line to flow for 30 minutes.
4. Secure the air flow and install a wood target on the stepped off blind. Blow the line for 5 minutes against the wood target.
5. Secure the air and remove the target and inspect for debris. If solids are present in the target surface, Repeat the 30-minute air blow and the targeting process.
6. Repeat until the target is clean and contains no embedded debris.
7. Once clean, reinstall blind.

### 5.0 – TAP Flush No. 2:

1. Remove the blind at 5FGA-VLV0071 (Turbine Building Heating).
2. Start the air compressor and initiate air flow thru the piping the first exit location at the Auxiliary Boiler UG/AG exit location.
3. Verify that air is exiting and that no hydro water is present.
4. Close the air valve to the TAP former and build up to 20 psi in the air receivers.
5. Open the air valve and blow the system to clear any standing water from the lines.
6. Fill the TAP former with the 20 gallons of water.
7. Fill the air receiver(s) with 135 psi air.
8. Release the TAP slug thru the line at an average drive pressure of 40 psi.

9. Once the TAP slug exits the piping, continue flowing air for 30 seconds.
10. Repeat this process until the TAP slug appears to be visually clean.
11. Once the line is deemed to be visually clean, grab a sample of the exiting TAP slug and run it thru the Millipore machine. Inspect the Millipore patch for particulate. If none is present and the patch is not highly discolored, secure the line by installing a blind.

## 6.0 - Air Blow No. 2:

1. Remove the blind at 5FGA-VLV0076 (Admin/Control/Aux Building Heating). Step the blind off the end of the line with threaded rod and allow for a 2" air gap.
2. Start the air compressor and air blow the 2" line with continuous air flow.
3. Allow the line to flow for 30 minutes.
4. Secure the air flow and install a wood target on the stepped off blind. Blow the line for 5 minutes against the wood target.
5. Secure the air and remove the target and inspect for debris. If solids are present in the target surface, Repeat the 30-minute air blow and the targeting process.
6. Repeat until the target is clean and contains no embedded debris.
7. Once clean, reinstall blind.

## 7.0 – TAP Flush No. 3:

1. Remove the blind at 5FGA-VLV0082 (Duct Burners).
2. Start the air compressor and initiate air flow thru the piping the first exit location at the Duct Burner UG/AG exit location.
3. Verify that air is exiting and that no hydro water is present.
4. Close the air valve to the TAP former and build up to 20 psi in the air receivers.
5. Open the air valve and blow the system to clear any standing water from the lines.
6. Fill the TAP former with the 30 gallons of water.
7. Fill the air receiver(s) with 135 psi air.
8. Release the TAP slug thru the line at an average drive pressure of 40 psi.

9. Once the TAP slug exits the piping, continue flowing air for 30 seconds.
10. Repeat this process until the TAP slug appears to be visually clean.
11. Once the line is deemed to be visually clean, grab a sample of the exiting TAP slug and run it thru the Millipore machine. Inspect the Millipore patch for particulate. If none is present and the patch is not highly discolored, secure the line by installing a blind.

## 8.0 - Air Blow No. 3:

Remove the blind at 5FGA-VLV0074 (Warehouse/Maintenance Building Heating). Step the blind off the end of the line with threaded rod and allow for a 2" air gap.

1. Start the air compressor and air blow the 2" line with continuous air flow.
2. Allow the line to flow for 30 minutes.
3. Secure the air flow and install a wood target on the stepped off blind. Blow the line for 5 minutes against the wood target.
4. Secure the air and remove the target and inspect for debris. If solids are present in the target surface, Repeat the 30-minute air blow and the targeting process.
5. Repeat until the target is clean and contains no embedded debris.
6. Once clean, reinstall blind.

## 9.0 - Air Blow No. 4:

1. Remove the blind at 5FGA-VLV1012 (Duct Burners). Step the blind off the end of the line with threaded rod and allow for a 2" air gap.
2. Start the air compressor and air blow the 2" line with continuous air flow.
3. Allow the line to flow for 30 minutes.
4. Secure the air flow and install a wood target on the stepped off blind. Blow the line for 5 minutes against the wood target.
5. Secure the air and remove the target and inspect for debris. If solids are present in the target surface, Repeat the 30-minute air blow and the targeting process.
6. Repeat until the target is clean and contains no embedded debris.
7. Once clean, reinstall blind.

## 10.0 – TAP Flush System Drying

1. Once the lines have all been TAP flushed and or air blown, they will need to be dried using the high volume temporary air compressor and dryer.
2. The main header to the Auxiliary Boiler will be dried first.
3. At 5FGA-VLV1016, a blind should be installed with a ¾" ball valve tapped into the face of the blind.
4. Open the ¾" valve and start the air compressor thru the dryer, allow this to blow for several hours.

5. Loosen the balance of the temporary blinds in the system at the Turbine Building Heating, Admin/Control/Aux. Building Heating, Warehouse Maintenance Building Heating and Duct Burners.
6. Allow air to flow at all points.
7. Measure and record the Dew Point hourly at each location.
8. Continue to purge the system until a dew point of -20 degF is reached at all locations.
9. As each line is dried to the acceptable dew point, tighten the temporary blind and focus the flow to the other lines.
10. Continue until all lines/branches are dried to -20 degF.
11. Once all lines have been dried, shut down the temporary air compressor and disconnect from the system.
12. Restore all spools and or valves that have been removed for cleaning.

## 11.0 – AG Air Blows to Building/Equipment Users

1. Restore the following UG/AG Interface connections and close all valves:
  - 5FGA-VLV0079
  - 5FGA-VLV1011
  - 5FGA-VLV0071
  - 5FGA-VLV0076
  - 5FGA-VLV0074
  - 5FGA-VLV0082
  - 5FGA-VLV1012
2. Starting at Aux Boiler Building Heating, open all drip legs or service caps. Secure the exit points from personnel in proximity to the exit locations.
3. Open 5FGA-VLV0079, 5FGA-VLV1016 and 5FGA-VLV1017.
4. Start the Air Compressor and proceed to blow the user lines to the Aux Boiler Building Heating Units.
5. Blow each line or distribution branch for 10 minutes.
6. Shut the air flow off from the air compressor and close 5FGA-VLV0079, 5FGA-VLV1016 and 5FGA-VLV1017.
7. Open 5FGA-VLV0071, 5FGA-VLV0072 and close 5FGA-VLV1023.
8. Secure the exit points from personnel in proximity to the exit locations. Start the air compressor and proceed to blow the lines to the Turbine Building Heating Headers. Blow each exit point for 10 minutes.
9. Secure the air compressor and close 5FGA-VLV0071, 5FGA-VLV0072.
10. Open 5FGA-VLV0076, 5FGA-VLV0078 and close 5FGA-1022.
11. Start the Air Compressor and proceed to blow the user lines to the Admin/Control/Aux Building Heating Users.
12. Blow each exit point for 10 minutes.
13. Secure the air compressor and close 5FGA-VLV0076, 5FGA-VLV0078.
14. Open 5FGA-VLV0074 and 5FGA-VLV0035 close 5FGA-VLV1021.

15. Restart the air compressor and blow the lines to the Warehouse/Maintenance/Building heating header to the Building Heating Users. Blow each line for 10 minutes.
16. Secure the air compressor and close 5FGA-VLV0074 and 5FGA-VLV0035.
17. Open 5FGA-VLV0082, 5FGA-VLV0083 and close 5FGA-VLV1020, 5FGA-VLV1043, 5FGA-VLV1044. Remove the internals of PRV-1044 or spool thru the valve if flanged.
18. Restart the air compressor and blow the line to the Duct Burner Control Skid for 10 minutes.
19. Secure the air compressor and close 5FGA-VLV0082, 5FGA-VLV0083. Restore PRV-1044.

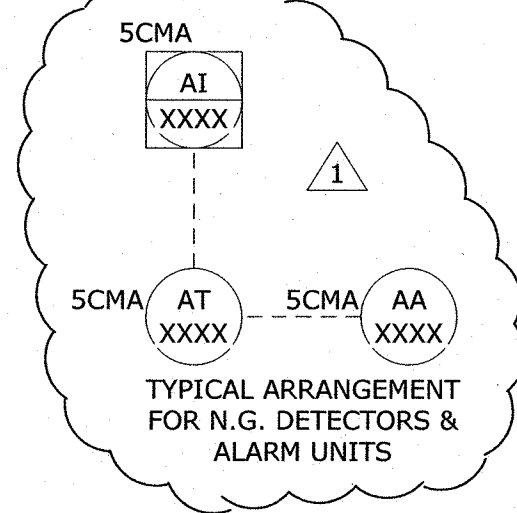
## Cleanliness Acceptance Criteria

1. Targets shall be considered acceptable if there are no embedded materials, no general cloudiness as viewed with the naked eye. General target background should be clean and free of clouding or excessive discoloration. Target material is to be white painted furniture grade wood.
2. Millipore patches will be 50 microns. The patches will be acceptable if the general appearance of the patch contains no particles visible to the naked eye and a general background color close to that of the incoming water.
3. A baseline Millipore test will be done on the incoming potable water for reference.
4. The Service blows to the User End points will be blows of a duration of 10 minutes each and considered clean.
5. Drying acceptance will be -20 degF at all exit locations.
6. All flushing, blowing and drying log sheets will be turned over at the completion of the work along with all Millipore patches.

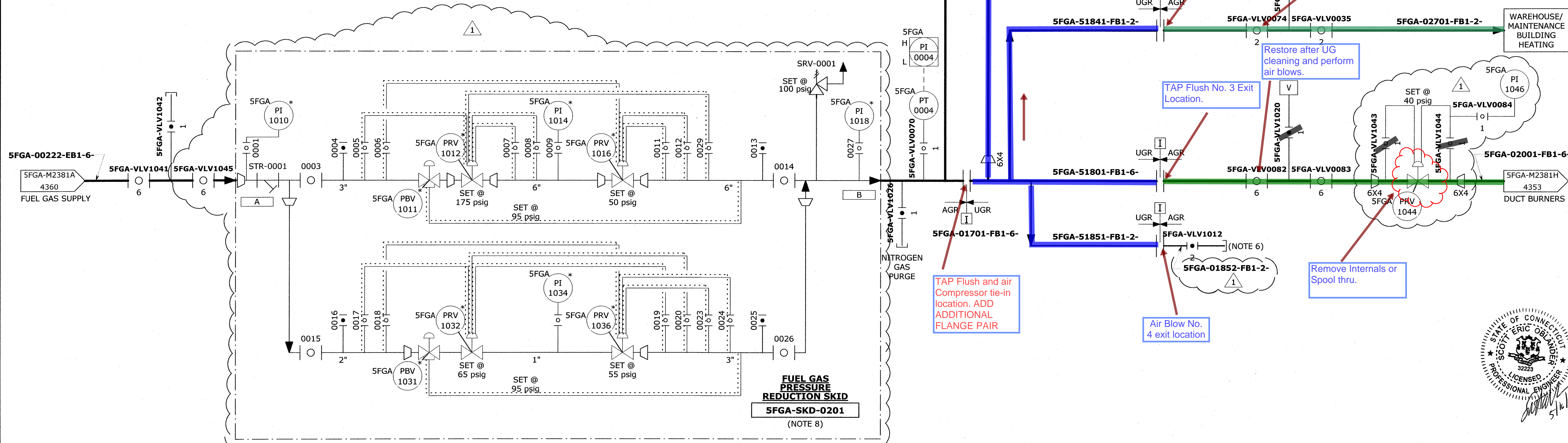
End of Guideline.



TAG NUMBER	DESCRIPTION
SCMA-AT-0005	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0006	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0007	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0008	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0009	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0010	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0011	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0013	FUEL GAS HEATER AREA GAS DETECTOR
SCMA-AT-0014	FUEL GAS HEATER AREA GAS DETECTOR
SCMA-AT-0016	AUXILIARY BOILER BLDG GAS DETECTOR
SCMA-AT-0017	HRSG AREA GAS DETECTOR
SCMA-AT-0018	HRSG AREA GAS DETECTOR
SCMA-AT-0019	HRSG AREA GAS DETECTOR
SCMA-AT-0020	HRSG AREA GAS DETECTOR



UNIT 5 TAP FLUSHING  
AND AIR BLOWING  
MARKUP FOLLOWED BY  
ABOVE GROUND AIR  
BLOWING



#### GENERAL NOTES:

- THIS DRAWING INCLUDES START UP SYSTEMS:  
5FGA
- REFER TO DRAWING 5AAA-M2001 FOR OTHER NOTES AND SYMBOL DEFINITIONS.
- AN ASTERISK (\*) INDICATES ITEM SUPPLIED BY VENDOR.
- ALL VENTS SHALL BE ROUTED TO SAFE LOCATION.
- DELETED -----
- ARRANGE PIPING TO CONNECT THE BRANCH POINT ON THE BOTTOM AT THE MAIN HEADER SUCH THAT IT SERVES BOTH AS A DRAIN AND AS A VENT. LOCATE NEAR RISER AT DOWNSTREAM UGR/AGR INTERFACE.
- DELETED -----
- REFERENCE DRAWINGS:  
FUEL GAS PRESSURE REDUCTION SKID P&ID  
GAUMER PROCESS  
DRAWING NUMBER: C28212-01-PID-01
- SLCI FUNCTIONAL DESCRIPTION: 644911-5FGA-I135-M2381

#### LEGEND:



ORIGINAL

ISSUED FOR CONSTRUCTION  
A1: ADDED INSTRUMENTATION TABLE  
A4: ADDED 5FGA-VLV1045  
A4-C5:  
E4: REMOVED HOLDS  
B1: ADDED INSTRUMENTATION DETAIL  
D2, D5: ADDED PIPE ID NUMBER  
F2: REVISED NOTE 8

ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.
01	11/02/17	DS	AR	WAT	LA		SEO

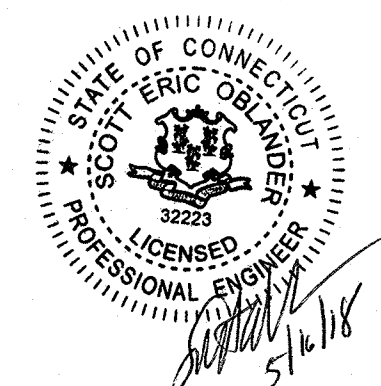
PROJECT ENGINEERING DIVISION  
PSEG  
Power Connecticut LLC

SNC • LAVALIN  
CONSTRUCTORS INC.

SCALE: N/A  
BRIDGEPORT 05

FUEL GAS  
FUEL GAS SYSTEM  
P&ID

SHT. 7 OF 8  
DESIGN-PIPING  
VENDOR NO. 644911 - 5FGA-M2381G





# **Reed Industrial Services, LLC**

## **Bridgeport Harbor Unit #5**

### **Fuel Gas Air Blow Guideline**

#### **Above Grade Piping**

**Prepared for**

**Tucker Mechanical, Inc.**

**October 2018**

<b>Revision No. 1</b>	<b>October 4, 2018</b>
<b>Revision No. 2</b>	<b>October 24, 2018</b>
<b>Revision No. 3</b>	<b>November 10 2018</b>

## 1.0 Process Safety –

1. Inspect all temporary jumpers for integrity and proper installation. If hoses are being used they should be properly routed and supported to enable them to bear the weight of water.
2. Whip checks must be installed on any flexible air hoses.
3. Review the installed system punch list to ensure that all piping is complete.
4. Complete a JSA with all parties involved in the air blows. Sign off and post the JSA in the proximity of the work area. This should be completed for each of the blow paths.
5. Install barrier tape as deemed necessary around the work area.
6. Ensure that all personnel are wearing the appropriate and required PPE.
7. Have a full set of hand tools nearby to be able to address any leaks that occur.
8. Ensure that any temporary piping is properly installed and secured to prevent excessive movement.
9. Be certain that all required system pipe hangers are installed and ready for service.
10. Be certain that all personnel involved in the air blow are trained in how to safely shut down the temporary compressor in case of a major leak. This includes how to quickly LOTO the machine if needed.
11. Adhere to the Safety Plan provided by RIS and or that of TUCKER MECHANICAL and PSE&G/SNC LAVALIN .
12. Note that anyone involved in the process can terminate the blows at any time if they detect any issue which they feel is unsafe. Correct any issues and ensure that all parties are confident in the system integrity before restarting.

**NOTE: The air compressor to be provided for this blowing evolution produces 1600+ SCFM of oil free high quality air. Velocities during cleaning will be very high!**

### Reference Codes and Standards

NFPA 37 2010 edition  
NFPA 54 2009 edition  
NFPA 54 Temporary Interim Amendment August 25, 2010  
NFPA 56 2017 edition  
NFPA 850 2010 edition  
NFPA 850 Temporary Interim Amendment 10-2 Nov. 9 2010  
ASME B31 2007  
ASME B31.1 appendix 4 & 5 2007



## Reference P&IDS

5FGA-M2381A Sheet 1 of 8  
5FGA-M2381B Sheet 2 of 8  
5FGA-M2381C Sheet 3 of 8  
5FGA-M2381G Sheet 7 of 8

### 2.0 - Initial Preparations – Per the following Drawings:

#### 5FGA-M2381A Sheet 1 of 8

1. Connect temporary Exit piping and blow valve to SCGCO Fuel Gas Metering Station outlet.
2. Isolate the Fuel Gas metering skid by closing BV-0032 and BV-0034(?) Remove flanged 12" blow out spool from outlet of Fuel Gas Metering skid and install temporary exit piping and blow out valve with Tee (12").
3. Close valve BV-0033 and open (cycle) temporary blow valve at outlet of Metering Skid. BV-0033 will be opened once Blow No. 2 is completed. Blow No. 1 will then be performed by blowing thru the FG Metering Skid Bypass.
4. Open valve BV-0033 and prepare to blow thru the bypass of the Metering skid. (Blow No.1)
5. Remove and spool thru valves ABV0001 and PCV0003
6. Close all root valves for vents, purge lines and PT's and other instrumentation in 10" line to Suction Scrubber/Fuel Gas Compressor (SFGA-00202-EB1-10).
7. Install 8" Spool at PCV0-0005.
8. Close all vents and instruments in Line SFGA-00215-EB1-8 to CTG Conditioning Skid (Compressor Bypass).
9. Open 5FGA-VLV0028, 5FGA-VLV0001, 5FGA-VLV0002, 5FGA-VLV0003. Close but cycle the bypass valve 5FGA-0004
10. Ensure that the low-pressure gas users are isolated
11. Ensure that 5GFA-VLV1007 is closed.

#### 5FGA-M2381B Sheet 2 of 8

1. Connect Temporary air compressor and air receiver tank and hoses to Fuel Gas Compressor (Future) 10" line. 5FGA-VLV0015. This will be the temporary air supply point for Blows No. 1 & 2, 2A, 2B, 2C, 2D.
2. Remove and roll spool SFGA-00202-EB1-10 from Suction scrubber connection (A) at 5FGA-VLV1002.
3. If possible, remove spool 5FGA-00601-DB4-12 and bolt in line to another spool for blowing. In lieu of that 5FGA-00601-DB4-12 can be hand cleaned, inspected and reinstalled in a secure fashion.
4. Remove internals of 5FGA-VLV1003.

5. Close SFGA-VLV0018.
6. Install temporary exit piping and blow valve at 5FGA-VLV0016 (8").
7. Isolate all vents, PT's, instruments in all lines.

### 5FGA-M2381C Sheet 3 of 8

1. Unbolt and provide a gap or roll the piping from FG Compressor Discharge (from Trench) to BB-200 at Fuel Gas Absolute Separator.
2. Install temporary exit piping at the FGAS BB-200 connection and route to safe location, barricade as needed.

### 5FGA-M2381D Sheet 4 of 8

1. Not in scope.

### 5FGA-M2381E Sheet 5 of 8

1. Not in scope.

### 5FGA-M2381F Sheet 6 of 8

1. Not in scope.

### 5FGA-M2381G Sheet 7 of 8

1. Remove inlet spool to FGPR Skid 5FGA-SKD-0201.
2. Install temporary exit piping at FGPR Inlet piping 5FGA-00222-EB1-6. Route to safe location.
3. Once all Flow Path 1 and 2 flow paths are complete move temporary Air Compressor to FGPR Skid outlet connection (LP Gas). The air receiver tank is not required for this blow path nor is the temporary blow valve. This leg be blown in a steady state fashion.
4. Install a blind at the AG/UGR flange location separating the UG piping system from the LP AG Piping.
5. Remove 5FGA-VLV0077. This will be exit point for the LP blows. Install safe boundary area and personnel protection.
6. Open 5FGA-VLV0075.
7. Close 5FGA-VLV1019.

### 5FGA-M2381H Sheet 8 of 8

1. Not in scope.

### NOTE:

*Order replacement soft goods (seals and gaskets) for restoration of all items disassembled for air blowing.*

### 3.0 – Blow No. 1 – Main Header backward toward FGM Skid (B connection) Temp Discharge Spool.

1. Complete all safety walkdown requirements, JHA, barricade placement and system integrity inspection.
2. Ensure flow path valves are in correct position and that the exhaust path is open to atmosphere.
3. Start and warm up temporary air compressor.
4. Open discharge valve from air compressor and load up air compressor to begin making air.
5. All drain, purge and vent valves are to be closed at this time as mentioned in the preparation steps. They can be cycled during the blows to ensure that they are free of debris and flowing clearly.
6. Immediately verify that air is exiting at the proper exit point. A rusty plume of very small debris will verify this.
7. If no mechanical issues are noted, continue blowing the system open ended for 10 minutes.
8. Once the system has been blown for 10 minutes, begin cycling the manual blow valve and increase the pressure in steps to the max setting of the air compressor (135-150 PSI). This pressure will be determined by noting the gauge pressure on the air compressor discharge. This will produce the cleaning forces required to remove all construction debris.
9. STOP cycling if any issues arise such as excessive water (slugs) exiting the piping or a leak that requires repair.
10. Continue cycling from initial open-ended pressure to 135-150 PSIG for 10 cycles.
11. Idle the air compressor and install a target at the exit point.
12. Reload the air compressor and increase the pressure to 135-150 PSIG. Open the blow valve and discharge all the air past the target.
13. Idle the air compressor and remove and inspect the target.
14. If acceptable, shut down the air compressor and sign off on the target. Install a second target if required by the Engineer/Owner.
15. Restore the system as quickly as possible and realign the valving to perform Blow No. 2

### 4.0 Blow No. 2 – Main Header backward thru FGMS Bypass exiting at SCGCO Fuel Gas Metering Station.

1. Ensure that the primary flow path is lined up to be open to atmosphere. All vents, drains shall be closed they may be cycled during the process to blow them down and ensure they are clear of debris. Refer to P&IDs for valve numbers and locations.
2. As noted above in Blow No. 1 ensure that all safety precautions, JSA and barricades are in place as required to safely perform the air blow.
3. Start the air compressor and blow the line open ended to verify the flow path is correct.

4. Once the flow path is verified as correct, begin cycling the blow valve and increasing the pressure 20 PSI per blow.
5. Note and correct any leaks or issues before continuing. Shut down and correct if needed.
6. Continue blowing for 20 cycles.
7. During the blowing process, cycle vent and drain valves to ensure that they flow freely. .
8. Install a target and inspect. While doing so, idle the Air Compressor.
9. Idle the compressor again and remove and inspect the target. If target is acceptable to, shut down compressor, sign off target and restore system. If target is not acceptable, continue blowing as needed to achieve clean targets.

## 5.0 Blow No. 2A - Main Header backward to CTG Conditioning Skid (Compressor Bypass)

1. Ensure that the primary flow path is lined up to be open to atmosphere. All vents, drains shall be closed they may be cycled during the process to blow them down and ensure they are clear of debris. Refer to P&IDs for valve numbers and locations.
2. As noted above in Blow No. 1 ensure that all safety precautions, JSA and barricades are in place as required to safely perform the air blow.
3. Start the air compressor and blow the line open ended to verify the flow path is correct.
4. Once the flow path is verified as correct, begin cycling the blow valve and increasing the pressure 20 PSI per blow.
5. Note and correct any leaks or issues before continuing. Shut down and correct if needed.
6. Continue blowing for 20 cycles.
7. During the blowing process, cycle vent and drain valves to ensure that they flow freely.
8. Install a target and inspect. While doing so, idle the Air Compressor.
9. Idle the compressor again and remove and inspect the target. If target is acceptable to, shut down compressor, sign off target and restore system. If target is not acceptable, continue blowing as needed to achieve clean targets.

## 6.0 – Blow No. 2B – Main Header to FG Compressor (Future) at FG Lube Oil Skid Connection “M” with 5FGA VLV0018 closed.

1. Again repeat steps 1-9 in section as detailed above.
2. If target is acceptable to Tucker, PSE&G and others, shut down compressor and sign off on target and restore system. If target is not acceptable, continue blowing as needed until clean targets are achieved.

## 7.0 – Blow No. 2C – Main Header to FG Suction Scrubber Connection (A).

1. Repeat steps 1 – 9 in the above sections.
2. If target is acceptable to Tucker, PSE&G and others, shut down compressor and sign off on Target and restore the system. If target is not acceptable, continue blowing as needed until clean targets are achieved.

## 8.0 – Blow No. 2D – Main Header to FGPR Skid Connection (A).

1. Repeat steps 1-9 in the above sections.
2. If target is acceptable to Tucker, PSE&G and others, shut down compressor and sign off on Target and restore the system. If target is not acceptable, continue blowing as needed until clean targets are achieved.

## 9.0 – Blow No. 3 – FGPR Skid Outlet (B) to FGC Building Heating

1. This blow will require that the temporary air compressor be moved and connected at the "B" connection of the FGPR Skid outlet. This blow will be continuous blow and will not require a blow valve.
2. Once connected, start the air compressor and blow the line for 20 minutes open ended to atmosphere.
3. Secure the compressor and install a target at the outlet end of the piping.
4. Restart the compressor and blow the line for 5 minutes across the target. After 5 minutes, idle the air compressor.
5. Remove the target and inspect for impacts. If acceptable shut down the compressor and demobilize all air blowing equipment. J

## Velocity

The minimum velocity for cleaning 10" piping is 458 Cu/ft/min. The minimum flow rate during the blows will be 1600 Cu/Ft/min which would occur when/if the air compressor is flowing steady state. The flow rates during the blowdown of the piping and air receiver will be much higher. Velocities are expected to be 40-70 ft/sec.

## Target Acceptance Criteria

1. Targets shall be considered acceptable if there are no raised hits, no embedded materials and no hits larger than .5mm as viewed with the naked eye. General target background should be clean and free of clouding or excessive discoloration. Target material TBD.

End of Guideline.





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A

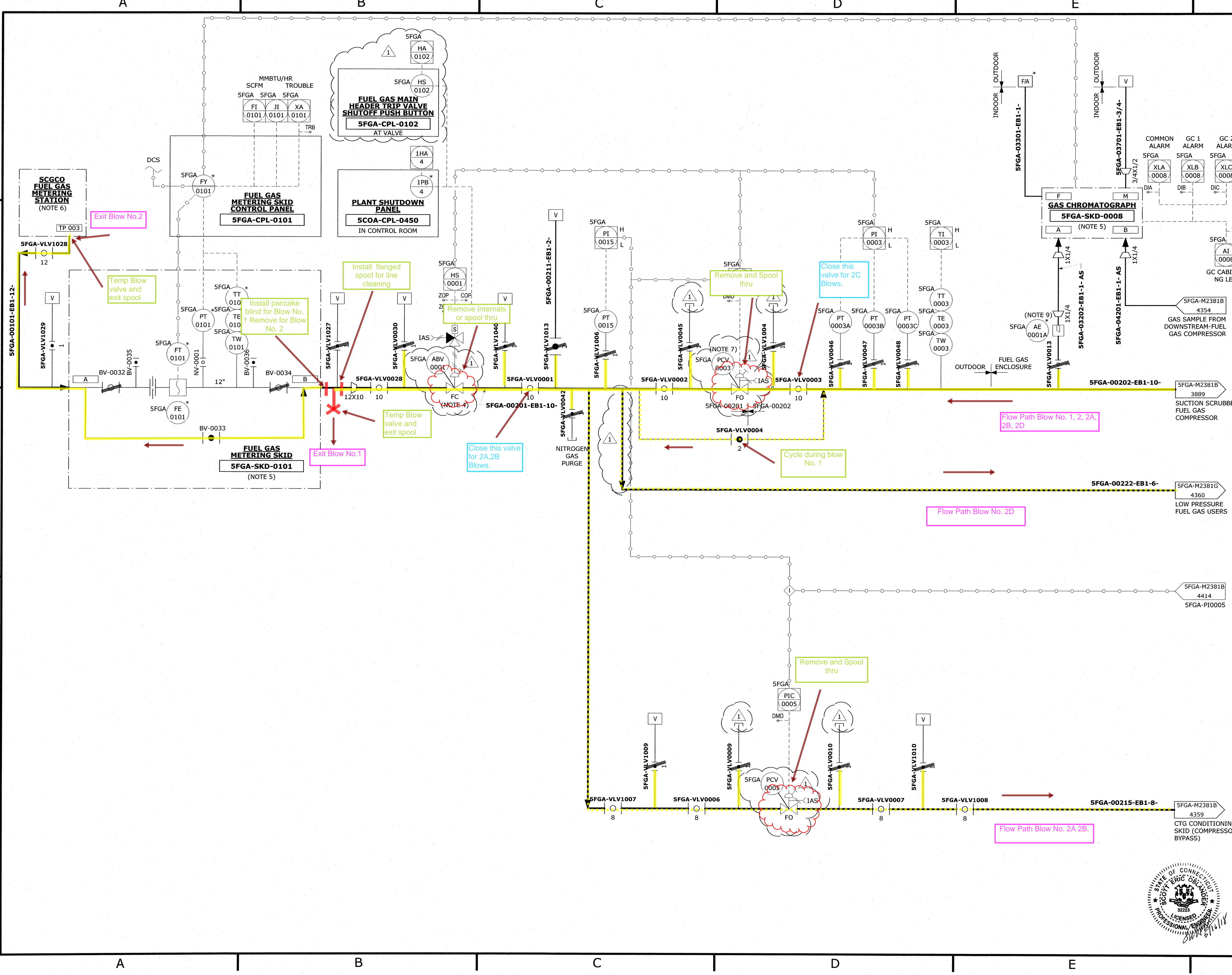
B

C

D

E

F



GENERAL NOTES:

- THIS DRAWING INCLUDES START UP SYSTEMS:  
SFGA
- REFER TO DRAWING 5AAA-M2001 FOR OTHER NOTES AND SYMBOL DEFINITIONS.
- AN ASTERISK (\*) INDICATES ITEM SUPPLIED BY VENDOR.
- A FAIL-SAFE TRIP STOP VALVE SHALL BE INSTALLED TO AUTOMATICALLY CLOSE IN LESS THAN 1 SEC.
- REFERENCE DRAWINGS:  
FUEL GAS CHROMATOGRAPH P&ID  
EMERSON  
DRAWING NUMBER: 734895P2  
FUEL GAS METERING SKID P&ID  
GAUMER PROCESS  
DRAWING NUMBER: C26986-PID-01
- PIPING DESIGN PRESSURE AT 660 psig. SCGCO CONFIRMS MAXIMUM OPERATING PRESSURE OF 600 psig AND MINIMUM OF 250 psig.
- SUPPLY TO GAS COMPRESSOR SHALL BE CONTROLLED TO 540 psig MAXIMUM TO MAINTAIN 60 psig DIFFERENTIAL MINIMUM.
- SLCI FUNCTIONAL DESCRIPTION: 644911-SFGA-1135-M2381.
- THIS PROBE IS RETRACTABLE. DURING OPERATION IT SHALL BE INSERTED INTO THE MAIN LINE.

ORIGINAL

ISSUED FOR CONSTRUCTION  
B1: ADDED SFGA-CPL-0102  
B2, D2, D4: REMOVED HOLDS  
C2, D2, D4: ADDED PLUGS TO VENT LINES  
C3: RELOCATED LINE SFGA-00222

15/7/18 DS [Signature] [Signature] [Signature] [Signature] [Signature]

ISSUED FOR CONSTRUCTION  
11/02/17 DS [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

ISSUED FOR APPROVAL  
09/13/17 DS [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

CONVERTED TO SMARTPLANT  
02/28/17 HMK [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.	INSTR.

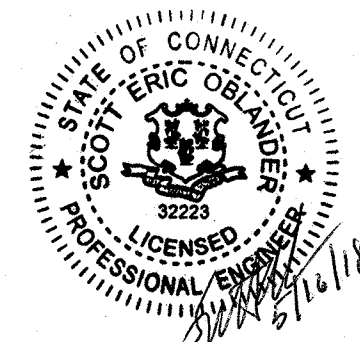
PROJECT ENGINEERING DIVISION  
PSEG  
Power Connecticut LLC

SNC • LAVALIN  
CONSTRUCTORS INC.

SCALE: N/A  
BRIDGEPORT 05

FUEL GAS  
FUEL GAS SYSTEM  
P&ID

P&ID SHT. 1 OF 8 DESIGN-PIPING  
VENDOR NO. 644911 - SFGA-M2381A



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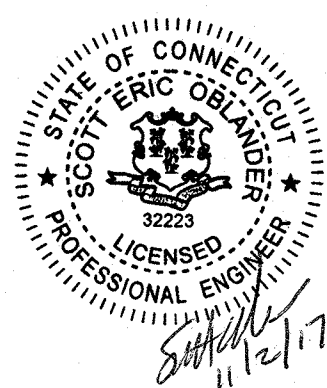
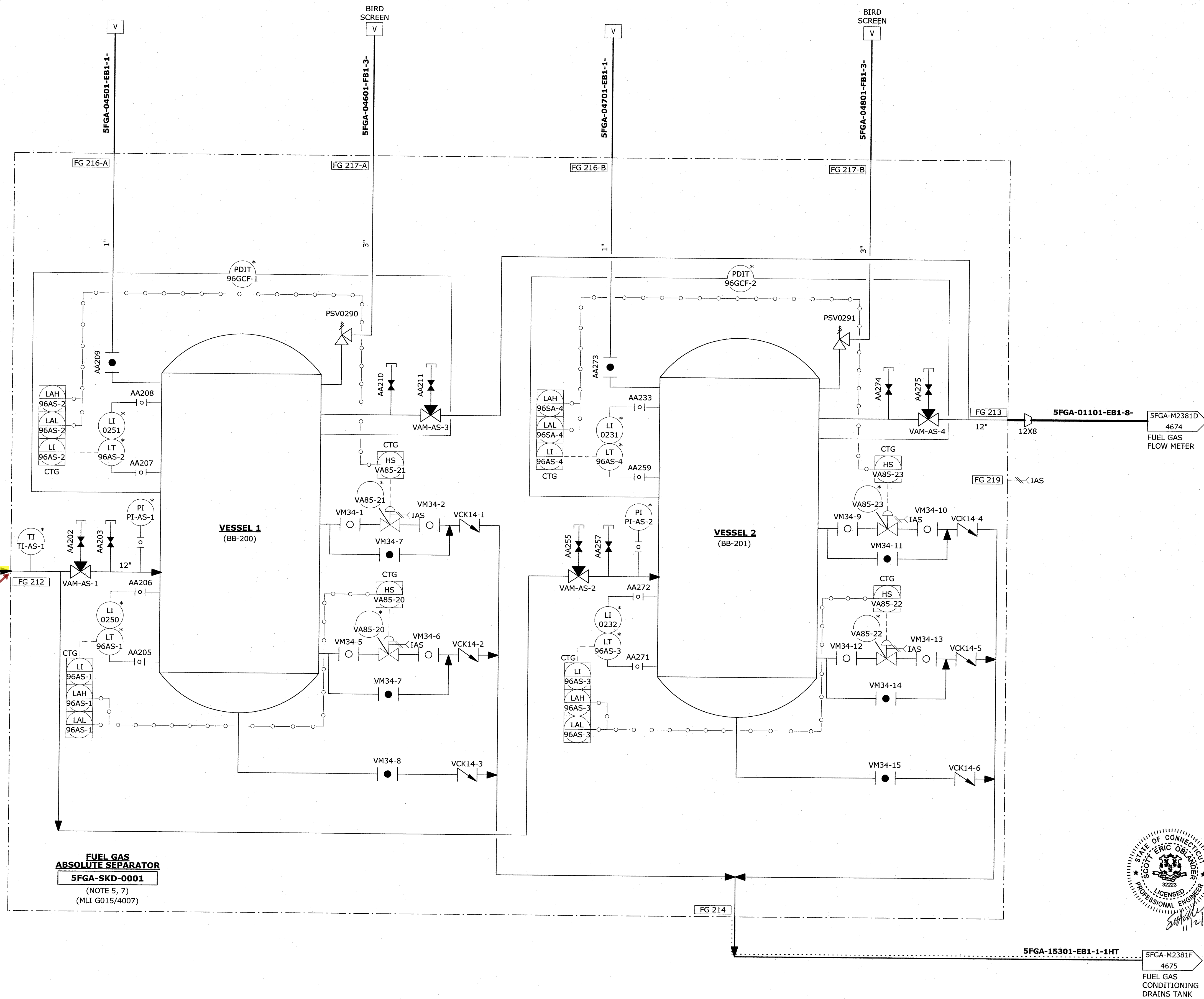
B

C

D

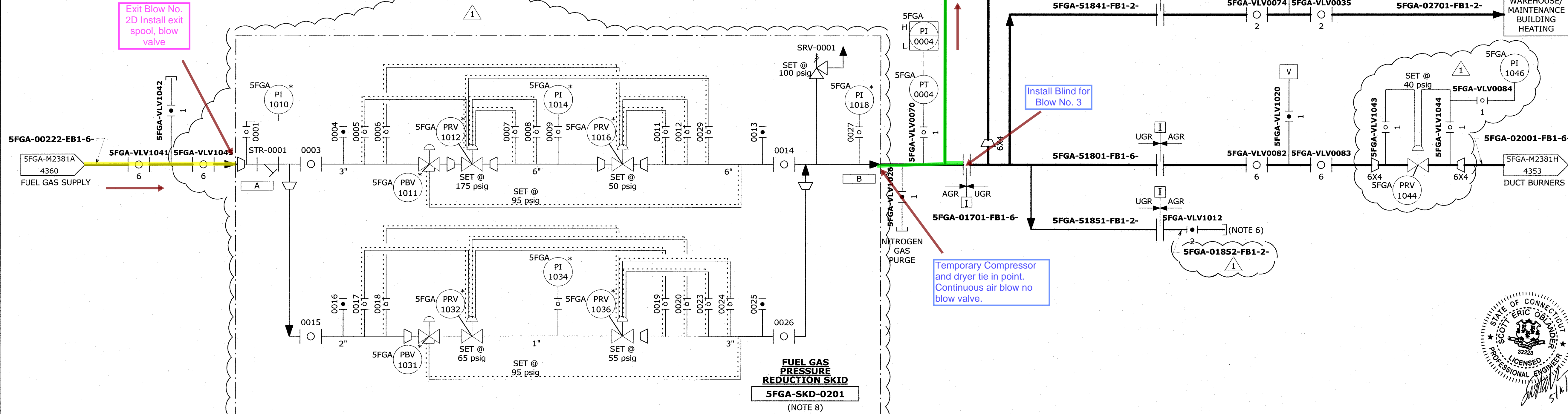
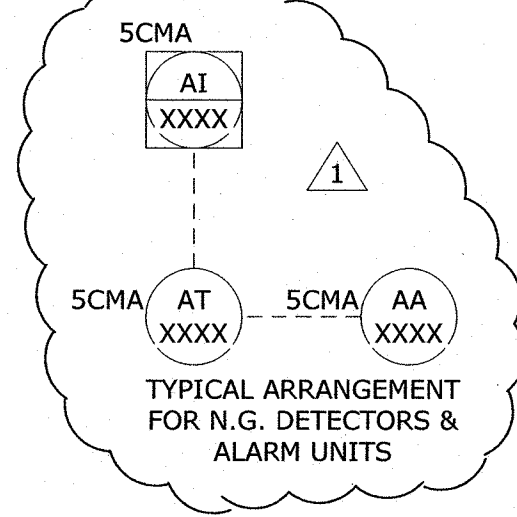
E

F





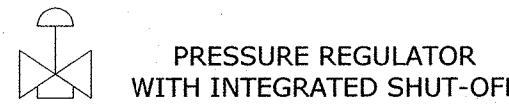
TAG NUMBER	DESCRIPTION
SCMA-AT-0005	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0006	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0007	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0008	FUEL GAS COMPRESSOR AREA GAS DETECTOR
SCMA-AT-0009	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0010	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0011	TURBINE BLDG AREA GAS DETECTOR
SCMA-AT-0013	FUEL GAS HEATER AREA GAS DETECTOR
SCMA-AT-0014	FUEL GAS HEATER AREA GAS DETECTOR
SCMA-AT-0016	AUXILIARY BOILER BLDG GAS DETECTOR
SCMA-AT-0017	HRSG AREA GAS DETECTOR
SCMA-AT-0018	HRSG AREA GAS DETECTOR
SCMA-AT-0019	HRSG AREA GAS DETECTOR
SCMA-AT-0020	HRSG AREA GAS DETECTOR



#### GENERAL NOTES:

- THIS DRAWING INCLUDES START UP SYSTEMS:  
5FGA
- REFER TO DRAWING 5AAA-M2001 FOR OTHER NOTES AND SYMBOL DEFINITIONS.
- AN ASTERISK (\*) INDICATES ITEM SUPPLIED BY VENDOR.
- ALL VENTS SHALL BE ROUTED TO SAFE LOCATION.
- DELETED -----
- ARRANGE PIPING TO CONNECT THE BRANCH POINT ON THE BOTTOM AT THE MAIN HEADER SUCH THAT IT SERVES BOTH AS A DRAIN AND AS A VENT. LOCATE NEAR RISER AT DOWNSTREAM UGR/AGR INTERFACE.
- DELETED -----
- REFERENCE DRAWINGS:  
FUEL GAS PRESSURE REDUCTION SKID P&ID  
GAUMER PROCESS  
DRAWING NUMBER: C28212-01-PID-01
- SLCI FUNCTIONAL DESCRIPTION: 644911-5FGA-I135-M2381

#### LEGEND:



ORIGINAL

ISSUED FOR CONSTRUCTION  
A1: ADDED INSTRUMENTATION TABLE  
A4: ADDED 5FGA-VLV1045  
A4-C5:  
E4: REMOVED HOLDS  
B1: ADDED INSTRUMENTATION DETAIL  
D2, D5: ADDED PIPE ID NUMBER  
F2: REVISED NOTE 8

ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.
1	11/02/17	DS	AR	WAT	LA		SEO

PROJECT ENGINEERING DIVISION

PSEG  
Power Connecticut LLC

SNC • LAVALIN  
CONSTRUCTORS INC.

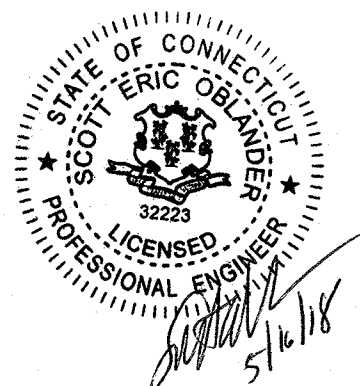
SCALE: N/A

BRIDGEPORT 05

FUEL GAS  
FUEL GAS SYSTEM  
P&ID

SHT. 7 OF 8  
DESIGN-PIPING

VENDOR NO. 644911 - 5FGA-M2381G



**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

**Exhibit 2 – Contractor Qualifications**

## POWER PROJECT LIST

PROJECT	CLIENT	ARCH/ENG	CONTRACT VALUE	COMPLETION DATE	CLEANING PROCESS
<b>FUEL CELL ENERGY GLASTONBURY ERG PLANT</b> GLASTONBURY, CT General Contractor/Mechanical Work	FUEL CELL ENERGY/ UNITED ILLUMINATED/CONNECTICUT NATURAL GAS	BURNS AND ROE	\$3,500,000	Sep-2015	TARGETED AIR BLOW
<b>MIDDLETOWN POWER PLANT REPOWERING PROJECT</b> ABOVEGROUND PIPING MIDDLETOWN, CT	GEMMA POWER SYSTEMS, LLC / GENCONN MIDDLETOWN, LLC	SIGMA ENERGY SOLUTIONS	\$3,500,000	Feb-2011	TARGETED AIR BLOW
<b>YALE CENTRAL POWER PLANT BOILER UPGRADES</b> NEW HAVEN, CT	WHITING-TURNER / YALE UNIVERSITY	CHARNEY ARCHITECT, LLC	\$8,500,000	Nov-2011	TARGETED AIR BLOW
<b>YALE UNIVERSITY STERLING POWER PLANT COGENERATION &amp; EXPANSION</b> NEW HAVEN, CT Scope of work: Furnish & Install Process Piping, Plbg, HVAC & FP for Cogen Plant 14 MW	HUNT CONSTRUCTION GROUP, INC.	CHARNEY ARCHITECTS, LLC	\$15,000,000	June-2010	TARGETED AIR BLOW
<b>KIMBERLY CLARK COGENERATION FACILITY</b> NEW MILFORD, CT Scope of work: Installed Power and Process Piping for 15 MW Cogeneration Facility.	CR MEYER - CM / KIMBERLY CLARK - OWNER	R. G. VANDERWEIL	\$4,200,000	Dec-2008	TARGETED AIR BLOW
<b>BRIDGEPORT ENERGY COMBINED CYCLE POWER PLANT</b> PHASE II - BOP PIPING BRIDGEPORT, CT	SIEMENS CORPORATION	SIEMENS CORP	\$13,000,000	June-1999	TARGETED AIR BLOW
<b>FAIRFIELD COGEN</b> PLBG, HVAC, FP FAIRFIELD, CT	CARRIER CORP / FAIRFIELD UNIVERSITY	PROGRESSIVE ENGINEERS	\$400,000	June-2007	TARGETED AIR BLOW

*Martin J. Waung*

President & CEO

## EDUCATION

**The Ohio  
State  
University**

**Bachelor of  
Science –  
Mechanical  
Engineering,  
1987**

## EXPERIENCE

**President & CEO|  
TUCKER MECHANICAL**

January, 2018 - Present

**President|  
TUCKER MECHANICAL**

May, 2017 – January, 2018

**Vice President|  
KIRLIN MID-ATLANTIC, LLC**

July, 2014 – May, 2017

Worked closely with the President to fine tune existing operational procedures; overhaul the estimating department; update project management functions; and set up procedures to better forecast revenue/profit for ongoing projects.

Duties also included managing a team of over 210 people with a project backlog of \$116 million.

## PPL – ENERGY SERVICES GROUP

**Vice President – H.T. Lyons, Inc., Albany, NY**

March, 2012 – July, 2014

Was part of senior leadership team to manage company growth and execute a company merger with employees.

**CEO/President – Westech International, Fishkill, NY**

March, 2009 - March, 2012

**President – General Mechanical Systems, Albany, NY**

March, 2007 - March, 2012

**President – Titan Mechanical, Hartford, CT**

August, 2005 - March, 2012



**Executive Vice President|  
J & A MECHANICAL, INC.**  
1998 – July, 2004

Joined this privately owned \$30 million merit shop mechanical contracting firm specifically to help increase volume, improve profitability and consolidate project management functions. Primary responsibilities revolved around sales, marketing and estimating with primary oversight in operations and corporate administrative functions.

**Project Executive|  
HARRY GRODSKY & COMPANY, INC.**  
1995 – 1998

**Senior Project Manager|  
LIMBACH COMPANY**  
1992 - 1995

**Project Coordinator|  
AAROTEC/AIRWAYS ENGINEERING ASSOCIATES**  
1991 - 1992

**Project Manager|  
LIMBACH COMPANY**  
1987 – 1991

**ACCOMPLISHMENTS /CERTIFICATIONS**

- Engineer-in-Training Certificate, Commonwealth of Ohio, 1987
- ASHRAE member since 1994
- LEED Associate
- S1 Heating License – Connecticut - Active

*Full Service Mechanical Contractor*

Daniel H. Kondracki

*Industrial Power General Manager*

**EDUCATION**

Central  
Connecticut  
State  
University  
**BSIT:  
Construction  
Management**

Waterbury  
State  
Technical  
College  
**AS:  
Mechanical  
Engineering**

**EXPERIENCE**

**Industrial Power General Manager/ Project Manager  
TUCKER MECHANICAL**

2000-Present

- Project Manager for Fuel Cell Account, New Construction & Service
- Yale University Sterling Power Plant Cogeneration & Expansion
- 15 Mw Cogeneration Plant – \$15 Million
- Complete Mechanical Package – Process, HVAC, Plumbing, Fire Protection, Instrumentation and Controls , New Haven, CT
- Pepperidge Farms 1.2 MW Fuel Cell Install
- Kimberly Clark Cogeneration BOP 15 Mw
- Bridgeport Harbor Station, Power Piping Upgrades Bridgeport, CT
- Fairfield University Cogeneration Plant Fairfield, CT
- New Milford Gas Recovery Cogeneration Plant Installation New Milford, CT
- Wesleyan University USDAN Center - \$5.5 Million Plumbing and HVAC Middletown, CT
- Sikorsky- Various Projects
  - Production Facility
  - Boiler & Chiller Plant Upgrades Stratford, CT

**Notable Projects:**

**1998 to Present** – Yale University – School of Medicine Various Projects  
Meriden Combined Cycle Facility- 520 MW Underground Pipe Package  
Meriden, Connecticut

Fuel Cell Inc. – Danbury, CT MW Fuel Cell Simulator

Bridgeport Energy- 520 MW Combined Cycle

Project Manager – Outages Bridgeport, Connecticut

**1999 – 2000** – City of Meridian WWTP Digester Complex Upgrade Meridian, Connecticut

**1998** – City of Taunton WWTP Plant Upgrade and Modifications Taunton, Massachusetts

**1998** - Danbury Landfill Cap Danbury, Connecticut

**1997-1998** –Mashantucket Pequot Tribal Nation WWTP Upgrade and Expansion Ledyard, Connecticut

**1997 – 1998** - Bridgeport WWTP Bridgeport, Connecticut

**PROFESSIONAL AFFILIATIONS**

- Plumbers and Steamfitters Local 777

## **EDUCATION**

**United Association  
of Plumbers &  
Pipefitters  
Apprenticeship  
Program  
Wallingford, CT  
1998 to 2003**

**Middlesex  
Community  
College—  
Middletown, CT  
1996 to 1998  
Major –  
Environmental  
Science  
Minor –  
Biotechnology**

**Mark T. Sheehan  
High School  
Wallingford, CT  
1989 to 1993**

## **EXPERIENCE**

### **Senior Project Manager| TUCKER MECHANICAL**

2012 – Present

#### **Notable Projects:**

- UCONN North Eagleville Infrastructure Project – Currently \$7.1 Million
- UCONN Student Recreation Center - Currently \$858K
- UCONN Engineering and Science Building - Currently \$5.9 Million
- UCONN Avery Point – \$1.4 Million
- Tangers Outlets at Foxwoods - \$11.1 Million
- Plainfield Renewable Power -24 Million

### **Mechanical Estimator/ Assistant Project Management/ Project Foreman| TUCKER MECHANICAL**

1999-2011

#### **Mechanical Estimator**

Estimating of Commercial Plumbing & HVAC, Design Build & Design Development Projects. Overseeing of estimates from Bid Invites, PVF Takeoff, Equipment Pricing, Subcontract Scope Review, Bid Submission, Contract Negotiations and Project Turnover

#### **Successful Estimating Project Examples:**

- Yale LEPH Infrastructure Renovations
- Yale I-Wing Phase 2 Renovations
- Yale CPP Boiler Upgrades / Expansion
- CT Dept of Public Health State Lab Building
- St Vincent's Hospital Renovation Phases 5-8
- Aetna Middletown Heat Exchanger Replacement
- Gold Building Cooling Tower Replacement
- Kleen Energy Generation Building
- Kleen Energy Industrial Water Treatment Plant



- Pepe's Pizza at Mohegan Casino
- New Haven Rail Yard Fueling Facility
- Mohegan Casino - Government Center
- Mohegan Casino - Asian Gaming
- Mohegan Casino – Casino of the Wind
- CT Science Center Plumbing
- Cabela's Retail Center – Hartford, CT
- Mannkind – Inhaleable Insulin
- New Haven Rail Yard Maintenance Facility

#### **Assistant Project Management**

Assist with Project Management including Change Order Billing, Labor Tasking, Submittals, RFI's, Subcontracts, O&M Manuals, Scheduling, Purchasing, etc.

- Middletown Re-Powering Project
- University of Massachusetts Central Heating Plant
- Mohegan Sun Casino – Casino of the Sky
- Mohegan Sun Casino – Child Daycare
- Krispy Kreme Donuts @ Mohegan Casino

#### **Project Foreman**

Supervision of Mechanical System Installation including Manpower Loading & Management, Scheduling, Material Procurement & Layout

- Pfizer Clinical Research Center, New Haven, CT
- Mohegan Casino – Krispy Cream Donuts
- Mohegan Casino – Arena Skybox Bathroom's

#### **Steamfitter Apprentice |**

#### **WALTER J. SULLIVAN MECHANICAL CONTRACTING**

1998-1999

Installation of HVAC Piping & Equipment at UConn Health Center Expansion.

#### **SPECIFIC PERTINENT ACCOMPLISHMENTS / CERTIFICATIONS**

- S-2 Steamfitter License CT – HTG.0394184
- Member of Local 777 since 1998

Thomas Tracy

*General Foreman, Superintendent*

**ACCOMPLISHMENTS**  
**/ CERTIFICATIONS**

1971 - 1973  
U. S. Army

**EXPERIENCE**

**General Foreman, Superintendent |**  
**TUCKER MECHANICAL**

1988 - Present

**Notable Projects:** (if applicable)

- UCONN Steam & Condensate Line and Vault Replacement, Storrs, CT - \$3.8 Million
- Plainfield Renewable Energy Project, Plainfield, CT - \$24 Million
- Millstone Nuclear Plant Shutdown Unit # 3 – Fall of 2011
- Millstone Nuclear Plant Shutdown Unit # 2 – Spring of 2011
- Millstone Nuclear Plant Shutdown Unit # 3 – Spring of 2010
- Yale Central Power Plant Boiler Upgrades / Expansion - \$9 Million
- Yale Sterling Power Plant Cogeneration & Expansion - \$15 Million
- UMASS Amherst, Central Heating Plant - \$18 Million
- SBC/SNET, 111 Trumbull Street, Hartford - \$1 Million Replacement of (3) Chillers
- The Hartford, Hartford, CT – Condenser Water Modifications
- Pepperidge Farm Bakery, Bloomfield, CT - \$8 Million 290,000sf Food Processing & Warehouse Facility
- Meriden Combined Cycle CoGen
- Mohegan Sun Casino – Phase II Expansion including 14,000 ton CHW Plant. \$115 Million – 3.5 million sf Facility consisting of 115,000 sf Casino, 10,000 seat Arena, 200,000 sf of Retail space plus 100,000 sf Convention space, Central Energy Plant, Parking and 34-story Hotel tower.
- UI Bridgeport – Combined Cycle Power Plant, 520 MW
- Pfizer - Groton, CT. - Bldg. 101 & 168 - 600# Super Heated Steam PRV's
- A T & T - Bridgeport, CT - Chiller Plant Replacement
- Hamilton Standard Plating and Waste Treatment Facility –
- Windsor Locks CT
- Bristol Myers CUP Building - Add 1500 Ton Steam Absorption Chiller, Wallingford, CT
- Aetna Capitol Avenue Renovations, Hartford, CT
- Shawmut Data Center, Hartford, CT
- Middletown Court House, Middletown, CT
- Pratt & Whitney - Building 220- Middletown, CT
- Connecticut Mutual Chiller Replacement - Hartford, CT

- Pfizer Solvent Recovery - Groton, CT  
\$2,500,000 fast track Process Piping Project
- Pfizer Building B-4 Piping - Groton, CT  
Utility relocation project - installation of Steam and Process Piping in Building B-4 and associated pipe racks
- SNET – 350 George Street, New Haven, CT

**General Foreman |  
C. N. Flagg Company**

1987 - 1988

**Notable Projects:**

- Hartford Hospital - removing and installing chillers and cooling towers.
- Connecticut Yankee Power Plant - Install new cooling system

**General Foreman |  
THOMAS O'CONNOR COMPANY**

1986 - 1987

**Notable Projects:**

- \$12,000,000 contract, Trash to Energy Plant, Hartford, CT. Piping of Boilers, Turbines, Instrumentation piping, etc.

**Foreman |  
C. N. Flagg Company**

1984 - 1986

**Notable Projects: (if applicable)**

- Hartford Steam Company - Capitol Avenue piping.
- Connecticut Yankee Power Plant - piping and seismic hangers, steam generators.

**General Foreman |  
SCHNEIDER COMPANY**

1983

**Notable Projects:**

- Connecticut Yankee Power Plant

**Steamfitter, Welder |  
C. N. FLAGG COMPANY**

1982

**Notable Projects:**

- City Place, Hartford, CT.

**General Foreman |  
CATALYTIC COMPANY**

1981 - 1982

**Notable Projects:**

- Connecticut Yankee Power Plant

**Steamfitter, Welder |  
THE TUCKER COMPANY**

1979 – 1981

**Notable Projects:**

- Heating & Cooling Systems, Various Projects

**Superintendent |  
CATALYTIC COMPANY**

1976 - 1979

**Notable Projects:**

- Calverts Cliff Nuclear Power Plant, Lusby, Md.
- D. M. Cook Nuclear Power Plant, Benton Harbor, MI
- FMC Chlorine Plant, South Charlestown, W.VA
- Air Products Chemical Plant, Calvert City, KY

**Steamfitter, Welder, Foreman |  
C. N. FLAGG**

1973 - 1975

**Notable Projects:**

Foreman, Scott Paper Mill, Hinkley, ME.

- Monsanto Plant, S. Windsor, CT.

Steamfitter/Welder

- M. J. Daly Company and
- M. A. Fierberg Company

Todd Tattersall

Jobsite Superintendent

### EDUCATION

5 Years US  
Navy

4 Years  
Steamfitter  
Apprentice  
Program

High School  
Graduate

### EXPERIENCE

Jobsite Superintendent |  
**TUCKER MECHANICAL**

1995 - Present

#### **Notable Projects:**

- VA Hospital CoGen - \$5 million
- Boehringer Pilot Plant – Process Piping - \$9.5 million
- Trumpf Laser Manufacturing Facility - \$10 million
- Pfizer Aurora Lab, Plumbing & Heating
- Pfizer Steam Turbine
- Pfizer Warehouse, Steam Heating – Chill Water Cooling
- Meriden Combined Cycle Facility, 520 MW
- Fuel Cell 3 MW Facility
- Superior Court House, Hartford – Boiler installation
- Foxwoods, Plumbing & Heating work
- Choate School, Boiler installation
- Naugatuck High School, Boiler installation
- Pratt & Whitney, E. Hartford – Installation (2) new Chillers
- Aetna, Hartford – (4) Boiler renovations, Steam & chill water coil replacements, repairs to steam and chill water systems, replace (2) Cooling Towers.
- Superintendent – Pfizer Chemical (Effluent Basin) – Groton, CT
- Superintendent – Pratt and Whitney, East Hartford, CT
- Major Process Piping for Test Labs
- Superintendent – (Night Shift) Bridgeport Energy Power Plant Major Power Station Upgrade
- Superintendent – Foxwoods Casino Fit-Out of Hotel Spas, Pools, Recreation areas
- First American Tucker, LLC - General Superintendent Various Plumbing, Heating, Welding projects at Foxwoods Casino
- New Chiller Building - Fleet Bank, Hartford
- Tucker Mechanical, General Foreman Hamilton Standard Chemical Lab and Waste Water Plant



## **Accomplishments /Certifications**

- S-2 Connecticut License
- Various Welding / Piping Certifications
- Numerous Professional Development Courses related to Jobsite Superintendent as well as safety practices



Tucker Mechanical can be your  
one source for all your building  
and facilities needs.

***What can we do for you?***



# Working with Tucker Mechanical has advantages—

- » Established Business Since 1951
- » Strongest Bonding Capability in the Industry
- » Excellent Safety Performance
- » State of the Art Fabrication Facility
- » DAS Certified
- » Fast Track Expertise and Solutions
- » Building Information Modeling (BIM)
- » Extensive Expertise in Mission Critical Facilities
- » License Types: S1, P1, F1, SM1, MG1
- » Local Presence, National Strength

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### Mechanical Services

- » Preconstruction Services
- » Design Build
- » Pipe Fabrication with Asme (S) (R) (PP) Code Stamps
- » Plumbing and Piping installations
- » Medical Gas systems
- » Process Piping
- » Fire Protection
- » HVAC
- » LEED Accredited Professionals
- » Mission Critical Systems
- » Cogeneration Plants
- » Fuel Cells
- » Geothermal Systems
- » Value Cost Savings

### Computer Aided Design (CAD) Services

- » 3D/BIM Coordination
- » Site Scanning of existing systems into 3D BIM Model
- » All Trade coordination drawings

### Facility Services

- » Operations and Maintenance
- » Building Automation Systems
- » Energy Audits and other Energy Services
- » Predictive and Preventative Maintenance
- » HVAC
- » Refrigeration
- » Commissioning and Re-Commissioning
- » Indoor Air Quality (IAQ) Benchmarking
- » LEED Accredited Professionals

## Contact us today!

### Tucker Mechanical

203.630.7200 tuckermech@emcorgroup.com

367 Research Parkway, Meriden, CT 06450-7148

www.tuckermech.com







Reed Industrial Services, LLC

November 6, 2018  
Tucker Mechanical  
Bridgeport Energy Unit 5 Project  
Bridgeport, CT.

Dear Dan,

Reed Industrial Services and my work prior have performed at least 45 projects cleaning/testing fuel gas lines with either instrument quality air, TAP or Froth Flushing followed by air drying or using Nitrogen as the cleaning medium.

The following is a partial list of those projects:

Pueblo, CO Airport Cogen Facility  
Harvard University Blackstone Power Plant  
Yale University Central Power and Medical School Power  
Cornell University Cogen  
Samalucca Mexico Cogen Project  
Iberdrola Cogen Project, Spain  
MIT Cogen Project  
Westbrook Maine Cogen  
Pfizer Pharmaceutical, Groton CT  
Deer Island, Boston MA  
Bridgeport Harbor Cogen  
Southern Company Coal Gasification Project, MS

I was heavily involved in developing the new mandates for Fuel Gas Line cleaning after the Middletown, CT event. I worked with OSHA and the Chemical Safety Board to develop the latest standards.

Regards,

RICH

Richard C. Reed  
Reed Industrial Services, LLC  
1 Hardy Road, # 205  
Bedford, NH 03110  
[Rcreed@reedindserv.com](mailto:Rcreed@reedindserv.com)

1 Hardy Road, Box # 205 Bedford, NH 03110  
(603) 493-2865  
[Rcreed@reedindserv.com](mailto:Rcreed@reedindserv.com)

# RICHARD CHAPIN REED

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23 Weymouth Drive, Bedford, NH 03110 | 603-493-2865 | rcreed@reedindserv.com

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## EXPERIENCE

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**2/2015 to present**    **Owner, Reed Industrial Services, LLC – 1 Hardy Road #205 Bedford, NH**

- Managing Partner of my own Industrial Services company focusing on industrial services in the Northeast and Continental US region as well as Eastern Canada. This includes College and University utility facilities, Petrochemical facilities including ethylene and distillate plants, district steam heating facilities, condensate return systems, industrial pipelines and liquid and gaseous fuel systems, lubrication and industrial hydraulic fluid systems, mine tailing and cooling lines. Also included are cleaning of heat exchange devices such as Boilers, HRSG's and heat exchangers and condensers, I am focused on providing a full spectrum of subcontract services. In addition, I am also providing Project Management and Team/Shift Lead Services to other Industrial Services Companies or Owners/Operators for projects in need of experienced personnel capable of providing expertise in technically challenging cleaning and commissioning solutions or startup operations especially those with schedule challenges.

2/1994 – 2/2015

Executive VP, Boyle Energy Services & Technology, Inc.

\* Key roles were oversight of the following: inventory, fabrication of new equipment, control of Pressure Vessel and Code Documents and repairs, field operations, engineering, specification/design of new equipment, purchasing and maintenance of all key major equipment, management of all company owned facilities, vehicles and material handling equipment. Additionally, I was the Director of Safety. I also was responsible for sales and servicing of all the college, university and hospital projects in the US and the Eastern Canadian Provinces as well as Mining and specialty projects as far north as Vorky's Bay in Labrador Canada.

**12/1991 – 2/1994**    **Inside Sales Manager, Northeast Pump Company Inc.**

- Responsible for sales of complete pumps, service and parts for a complex mix of pump types and from a multitude of different manufacturers. Also managed and scheduled the fabrication and repair shop and field work staff.

**3/1990 – 7/1991**    **Manufacturing Manager, EMTEK Incorporated.**

- Oversaw the manufacturing of groundwater recovery and treatment equipment removing spilled petroleum and chemicals from sites with failed underground storage tanks.

**3/1987 – 1/1990**    **Apprentice Electrician, Electric Dimensions, Inc.**

- Apprentice Electrician specializing in light commercial and residential wiring projects. Specifically focused on the new pool and spa installation services and smoke and fire alarm installations in Historic New England homes and Apartment Buildings.

**3/1987 – 1/1990**    **Manufacturing Floor Manager, Benchmark Industries, Inc.**

- Crew leader for the manufacturing of robotic electronic seam sealing equipment. Also performed domestic and international field service and repair.

## EDUCATION AND CERTIFICATIONS

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9/1982 - 5/1985      Associates in Mechanical Engineering, NH Technical Institute, Concord, NH

OSHA 30 Hour Construction Safety

Houston Area Safety Council Basic Plus

Transportation Worker Identification Certificate (TWIC)

Industrial Safety Training Council Basic Plus

Incident Investigation Certification

Certified Forklift Operator

Member National Safety Council of Northern New England

Former EMT-D with Henniker NH Fire Department

Incident Investigation Specialist.

**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

**Exhibit 3 - Special Inspector Qualifications**



## EXPERIENCE SUMMARY

Mr. Convery has over 33 years of engineering experience working for major system operators, project developers and engineering firms. He has served in many engineering, and project management roles and has experience in construction, inspection, operations, product development, teaching, engineering management and executive management.

He has provided consulting services to operators and developers in the areas of strategic planning, project development, acquisitions, operating efficiency, facility siting (including LNG facility siting) and many other areas. Mr. Convery has led successful design and construction and commissioning of compressor and pump stations, meter & regulator stations, gas distribution systems, LNG plant facilities, LNG plant life extensions, in-line inspection facilities, major pipeline bridge attachments, CNG stations and specialty gas system installations and GIS systems for pipelines.

He has trained and led teams of engineers, designers, drafters, construction forces, material managers, and other professionals in the completion of many safe, highly functional and durable energy infrastructure projects.

## SLECTED PROJECT EXPERIENCE

### 1985 Hanover (NJ) Compressor Station, Compression Engineer

New gas turbine mainline gas compressor station, two units, Solar Centaurs, PLC-based remote controlled, low noise

### 1986 Southeast (NY) Compressor Station, Quality Control Manager

New gas turbine mainline gas compressor station, two units, Solar Centaur-H, PLC-based remote controlled, fiber optic plant network, very low noise

### 1987 Gas Aftercooler, Cromwell, CT, Project Manager

After cooler for multi-unit reciprocation mainline compressor station, Honeywell loop controllers, low speed, low noise fans

### 1988 - 89 Dry low-NOx gas turbine retrofit program, Project Manager

Replacement of several Solar Centaur, H, and Taurus units with SoLoNOx technology, controls retrofits, spare parts management

### 1990 Compressor Addition, Southeast (NY), Project Manager

Added one Solar Mars/C601 gas turbine package to an existing station with two small turbines. Remote control, compressor noise reduction, low NOx

## EDUCATION

BE(E), Electrical Engineering,  
Manhattan College

MSEE, Electrical Engineering, Tufts  
University

ALM, Government, Harvard  
University

## AREA OF EXPERTISE

Gas and Oil Pipeline Facilities  
Design

Natural Gas M&R Station Design

LNG Facility Siting & Design

CNG Facility Design

Propane System Design

Economic/Technical Feasibility  
Studies

Project Development

Gas and Oil System Planning

Instrumentation & Control Systems

## REGISTRATIONS/ AFFILIATIONS

Professional Engineer :  
MA,ME,NH,VT,CT,RI,NY,NJ,TX,NM  
Chartered Engineer, MIEI

Member NFPA, Industrial Fire  
Protection Section, 59A and 56  
Technical Committees

## OFFICE

Worcester, MA, USA

## YEARS OF EXPERIENCE

33

## CONTACT

[PConvery@CornerstoneEnergyInc.com](mailto:PConvery@CornerstoneEnergyInc.com)

**1991 Compressor Addition, Burrillville, RI, Project Manager**

Added two Solar Taurus gas turbine compressors to an existing station with three Clark TLA-8 engines. Common header operation, pulsation analysis and mitigation, measurement systems, PLC- based controls, large volume pressure regulation.

**1992 - 94 Chaplain (CT) Compressor Station, Project Manager**

New station including two Solar Taurus units. Very low noise, low impact, low-NOx, condensed footprint, PLC based, remote controlled.

**1993 Pipeline GIS System Implementation, Project Manager**

New GIS system for 300 mile pipeline system including aerial imagery, asset inventory, alignment map generation, ad-hoc reporting, and support for class location determination.

**1994 Providence, RI Algonquin LNG Expansion Project, Project Engineer**

Regional peaking facility concept including 400 MMSCF/d high pressure sendout (remotely heated), 40 MMSCF/D Liquefaction (16,000 Hp electric motor drive), boiloff compressor system. Project designed and permitted by FERC, not constructed due to shift in business environment.

**1997 Providence , RI Algonquin LNG Expansion Project, Project Manager**

Added three water bath vaporizers, total output 150 MMSCF/d, boiloff compressor system consisting of two electric driven flooded screw compressors, PLC-based distributed control, safety systems.

**1997 British Gas, Project Engineer**

Low emissions technology compendium for gas pipeline compressor applications, prepared for BG to assist in system planning.

**1998 Maritime & Northeast Pipeline, Phase II meter stations, Project Manager**

Design of 14 stations to support distribution of new source of gas from Sable Island, includes one- half of the interconnect at Westbrook and the high-volume delivery station at Dracut, MA.

**1998 - 99 Iroquois Eastchester Expansion, Project Engineer**

Early stage development planning and design for large scale pipeline expansion, compressor additions, sub-sea routing, densely populated (NYC) routing, capital planning.

**1998 Londonderry (NH), Combined Cycle Generation Station, Gas Systems Engineer**

Gas fuel metering, regulation, pre-treatment system for new high-efficiency combined cycle plant.

**1999 Devon Meter Station, Project Manager**

Delivery point to power plant, high pressure, high volume.

**2000 Tiverton (RI) Combined Cycle Generating Station, Gas Systems Engineer**

Gas fuel metering, regulation, pre-treatment system for new high-efficiency combined cycle plant.

**2000 - 2002 Project Manager**

New product introduction manager for new technology 14XX semiconductor lasers for Raman optical amplifiers for DWDM communications market.

**2002 NSTAR Marlborough Meter Station, Project Manager**

Electrical design, ExP MC/MI cable system, limited relay logic, back-up generation.

**2003 Huallaga Ethanol Pipeline, Project Engineer**

Feasibility study and rout design for 1000-km ethanol export pipeline from the Huallaga river valley across the Andes to the Pacific coast terminal at Bayovar.

**2003 Bowline (NY) Generating Station, Project Manager**

Design of main fuel gas trim regulators retrofit.

**2004 NSTAR Electric Stoughton-Boston 345kV, Project Engineer**

Bridge attachment designs for three 8" pipe-type cable in urban environment.

**2004 NSTAR Framingham Meter Station, Project Manager**

EPC contract for new meter/regulator station, compressed site, direct access from highway, ultrasonic metering, multiple regulation systems, remotely heated gas pre-heat, back up generation.

**2004 Keyspan LNG, Project Manager**

Dike modifications project, design/build contract.

**2004 Keyspan Energy Delivery, Project Manager**

Cape Cod winter preparations program, LNG injection site preparations at Chatham, Eastham, & Orleans, MA.

**2004 - 2005 Keyspan LNG, L.P., Project Manager**

LNG Import terminal development, overall project manager for design and construction of 375 MMSCF/d high-pressure send out, new ship berth, new high volume boil off compressor system, administration building expansion, electric service modernization (dual-feed, 34kV).

**2006 ElPaso Energy, Project Manager**

Wright Interchange redesign. 400 MMSCFD high-pressure interchange. Design of new hydronic preheat system, regulator replacement, building replacement.

**2006 Keyspan Energy Delivery, Project Manager**

Everett Interchange, 6 MMSCFH at 22 psig, principle IP feed to Boston. Complete redesign of IP regulator runs.

**2007 CMEEC Wallingford, Project Manager**

Power plant gas fuel delivery system, Design/Build. High pressure inlet pipeline, metering to Spectra specifications, electric preheat, regulation to Yankee Gas specifications, building, site development.

**2007 Spectra Energy, Project Manager**

Sandwich, MA M&R Station, Design/Build. New feed to Keyspan on Cape Cod. 4 MMSCFH, metering to Spectra specifications, preheat and regulation to Keyspan specifications.

**2007 Spectra Energy, Project Manager**

Northeast Gateway Onshore Facilities - Salem Meter Station, Design/Build. Reverse flow direction and add low flow meter run, extend concrete building.

**2008 - 2012 Hess LNG, Engineering Project Manager**

Weaver's Cove – New LNG import terminal in Fall River Massachusetts, storage, vaporization, trucking, interconnector pipelines, remote berth with sub-sea LNG transfer lines.

**2008 - 2012 Hess LNG, Engineering Project Manager**

New LNG import terminal in Tarbert, Co. Kerry, Ireland, storage, vaporization, interconnector pipeline, EU procurement regulations.

**2009 - 2012 Hess LNG, Engineering Project Manager**

Crown Landing LNG – A new LNG import terminal located in Logan Township in New Jersey. Supported process development, CHP strategy, and general engineering issues.

**2012 Confidential Client, Consultant**

Stranded oil user LNG trucking study feasibility study. Examination of supply options, trucking logistics, and storage/vaporization/utilization equipment requirements for an industrial fuel user in the Northeast US.

**2013 PB Power/Hess NEC**

Design of a Williams/Transco specification gas meter station in Newark New Jersey. 5.3 MMSCFD, prefabricated skid construction.

**2013 Summit Natural Gas of Maine**

Design of a new gas distribution company in the Augusta area, including a Spectra Energy specification meter station (5 MMSCFH) at Pittston, ME; 60 miles of 1440 PSIG transmission line and seven district regulator stations.



**2013 Daniel O'Connell's Sons/ XNG**

Design of a Spectra specification meter station in Eliot, Maine, 18 MMSCFD.

**2013 Kleinfelder/NSTAR**

Front End Engineering (FEED) for the replacement of an LNG satellite storage/peak shaving plant in Massachusetts.

**2013 Northeast Midstream**

Siting analysis for a small-scale LNG liquefier 200,000 gallons per day

**2013 RH White**

Piping design and code compliance support for new propane installation at Monadnock Regional hospital in Peterborough, NH.

**2013 Tetrattech/Shell**

Value engineering for a major LNG export project in the US.

**2013 RH White**

Commissioning plan and field support for purge, pack and pickle of an industrial gas distribution system fed from trucked LNG in Florence, VT.

**2014 Summit Natural Gas of Maine**

Design of a Spectra Energy specification meter station (800 MSCFD), with regulation and preheat for a new gas distribution area in Cumberland/Falmouth/Yarmouth, Maine.

**2014 Direct Energy**

Design and procurement support for an Iroquois-spec meter station (700 MSCFD) in Manheim, NY.

**2014 Engie**

Provide conceptual design, CAPEX estimates, optimization studies and project planning for a gas compression facility to feed a large power generation complex.

**2014 Tetrattech/United Illuminating**

Program support for Connecticut Natural Gas and Southern Connecticut Gas LNG plant modernization multi-year capital program.

**2014 Centurion Pipeline**

Design of crude oil gathering pipeline facilities including hydraulic modeling, traps, metering, tank tie-ins, valve sites, etc. for the Midkiff East and Northwest laterals projects.

**2014 Tetrattech/Source One/Dartmouth College**

Conceptual Design and siting analysis for LNG truck-in and vaporize plant near Dartmouth College in Hanover, NH.

**2015 RH White**

Propane system design for the Waterbury State Office Complex in Waterbury, VT. Underground storage, electric vaporizer and two stage pressure regulation.

**2015 Gexcon USA /HQC/China National Petroleum Company**

Working with Dr. Filippo Gavelli of Gexcon, prepare and conduct a training class for ~100 engineers in Beijing to provide familiarity with NFPA 59A standard for LNG facilities.

**2015 Centurion Pipeline**

Detailed design and project support for a new eight mile crude oil gathering system in the Permian Basin including PD pumps with soft starters, traps, LACT tie-ins and all required design services.

**2015 PB Power/Macquarie Infrastructure**

Design of a Spectra specification gas meter station in Bayonne New Jersey. 6.9 MMSCFD, with 7,500 feet of 16" high pressure connecting pipeline to supply a power plant addition at the Bayonne Energy Center.

**2015 Liberty Utilities**

Provide conceptual facility siting and regulatory support for a new LNG liquefier for utility peak shaving purposes in Fall River, MA.

**2015 Tetrattech/Confidential Client**

Provide conceptual design, CAPEX & OPEX estimates, project plans for a new peak shaving LNG plant to serve a power generator in the western US.

**2015 Confidential Client**

Conduct desktop and field investigation to quantify structure counts and gas demand in a new potential gas distribution franchise area.

**2015 RH White**

Design of a relocated high volume service to the central plant at the Mohegan Sun Casino complex in Connecticut to make room for the Earth Hotel development.

**2015 EPCOR**

Provide conceptual gas distribution design options, CAPEX & OPEX estimates, and project planning services for a potential new gas distribution franchise area on the eastern shore of Lake Huron.

**2015 Eversource**

Design of a replacement of several older outdoor motor controls with new indoor MCC equipment at an operating LNG peak shaving plant in Acushnet, MA

**2016 RH White/Connecticut Natural Gas, Rocky Hill**

Provided design and construction support services as part of an EPC Team lead by RH White to replace the sendout pumps at the Rocky Hill LNG facility for Connecticut Natural Gas. Project included innovative pump mounting plan, individual recycle control, AC-AC VFDs, spill containment, and siting study.

**2017 RH White/Liberty Utilities, Fall River**

Provided design and construction support services as part of an EPC Team lead by RH White to replace the sendout system at Fall River, including new shell-and-tube vaporizers, hot water heaters, enhanced boil off system, controls replacement, and new electric service.

**2018 EPCOR, Ontario**

Oversight of a system integrity study including development of digital capacity model, bottleneck identification, capital cost estimating and strategic planning.

**2018 Woodard & Curran/GEO Environmental, Tewksbury, MA**

Design and permitting of an elevated pressure gas service in Massachusetts, materials selection audit, detailed design, testing, MA state permitting.



## EXPERIENCE SUMMARY

Mr. Sanghai works closely with clients, design teams and contractors on oil and gas projects, conception through completion, realizing client design goals while conforming to applicable codes and standards. He is a part of the decision-making process on facility design, material selection, and selecting major equipment for the projects. He has been involved in submitting successfully accepted proposals for various energy infrastructure projects.

## RELEVANT EXPERIENCE

### 2018 South Bruce Transmission and Distribution System Analysis

Managed the system analysis to support the design as well as the following rate filing effort for EPCOR's proposed transmission and distribution system that would to serve the communities of Chesley, Paisley, Inverhuron, Tiverton, Kincardine, Lurgan Beach, Point Clark, Ripley, Lucknow and the Bruce Energy Centre in Ontario, Canada.

### 2018 EPCOR Natural Gas LP System Integrity Study

Managed the system integrity study to address the integrity issues in the existing local distribution company that distributes natural gas in Southern Ontario to approximately seven thousand customers in the Town of Aylmer and surrounding regions. system.

### 2018 Nipigon LNG Facility and LNG Depots

Supporting Northeast Midstream to manage the development of an LNG facility in the Township of Ledger and the regasification facilities at industrial locations in Northern Ontario.

### 2018 North Shore Distribution System

Supporting Northeast Midstream to manage the development of a local gas delivery system in each of the communities of Manitouwadge, Marathon, Schreiber, Terrace Bay and Wawa in Northern Ontario.

### 2018 Lowell Vaporizer Test Facility

Managed the engineering and procurement efforts in support of a National Grid Vaporizer Test Facility in Lowell, MA

### 2017 Fall River LNG Peak Shaving Facility Send-out system Upgrade Project

Life extension efforts at the LNG peak shaving facility in Fall River, MA. Services included engineering and design, procurement support, survey, coordination between suppliers, subcontractors and client for the upgrade of the LNG send-out system including pumps, vaporizers and associated equipment.

## EDUCATION

B.Sc., Mechanical Engineering,  
Mumbai University, India

M.Sc., Mechanical Engineering,  
University of Massachusetts,  
Amherst

## AREA OF EXPERTISE

Natural Gas M&R Station  
Design

LNG Facility Design

CNG Facility Design

Propane System Design

Feasibility Studies

Equipment Specification and  
Procurement Support

Project Development

Project Management

## REGISTRATIONS/ AFFILIATIONS

Member : PMI

## OFFICE

Worcester, MA

## YEARS OF EXPERIENCE

5

## CONTACT

[YSanghai@cornerstoneenergy.com](mailto:YSanghai@cornerstoneenergy.com)

**2016 BEC, Natural Gas Custody Transfer Metering and Pipeline Lateral**

Engineering services and support for a 165 MMSCFD custody transfer meter station and 7,500 feet pipeline lateral on the Texas Eastern pipeline feeding a 640 MW powerplant in Bayonne, New Jersey. Services included designing, master scheduling, coordination between consultants, managing sub-contractors, leading the procurement effort for all major equipment including selection of skid fabricators.

**2016 RH White/UIL LNG Pump Replacement Project**

Engineering services to support the life extension efforts at the peak shaving facility in Rocky Hill, Connecticut. Services included designing, procurement, coordination between suppliers, subcontractors and client for the replacement of the LNG send-out pumps and associated equipment.

**2015 Centurion Pipeline Midkiff East/West Lateral Expansion Project**

Engineering services and support including designing, scheduling, procurement and field engineering support for approximately 60,000 BPD oil metering facility for Centurion Pipeline LC in Midland County, Texas.

**2015 Liberty Utilities**

Conceptual facility siting, CAPEX and OPEX estimates for replacing their existing LNG Liquefaction and Send-out systems for their peak shaving facility located in Fall River, MA

**2015 EPCOR, Southern Bruce Gas Distribution System**

Conceptual development activities including, conceptual design, CAPEX and OPEX estimates for a potential new gas distribution system in the Southern Bruce region of Ontario, Canada.

**2015 Confidential Client, LNG Liquefaction and Vaporization Facility**

Conceptual development activities including, conceptual design, CAPEX and OPEX estimates for a potential new LNG Peak Shaving facility in the western US.

**2014 Confidential Client, Compressor Station Feasibility Study and Conceptual Design**

Feasibility assessment and cost estimate for a natural gas compressor station for a confidential client in Massachusetts. Project activities include concept development, compressor sizing and configuration, process design, project schedule, and preparing CAPEX and OPEX estimate for the project.

**2014 Direct Energy, Manheim Natural Gas Custody Transfer Metering**

Engineering services and support including designing, master scheduling, coordination between consultants and suppliers, preparing CAPEX estimates and procurement packages for all major equipment for the 15.8 MMSCFD meter station on the Iroquois pipeline feeding a new CNG trailer filling facility for Direct Energy in Manheim, New York.

**2014 Confidential Client, LNG Vaporization facility**

Engineering services for a mid-scale LNG vaporization system for a confidential client in New Hampshire. Services include concept development, siting analysis, project scheduling and preparing CAPEX estimates based on all major equipment for the facility.

**2014 Confidential Client, Transmission Pipeline feasibility study**

Feasibility assessment and cost estimate for a natural gas transmission pipeline approximately 300 miles long. The need for one or more compressor stations was estimated based on delivery flow and pressure. Project CAPEX was developed for various options and alternatives based on pipe size, delivery pressure and deliverability.

**2014 Summit Natural Gas of Maine, Cumberland Natural Gas Gate Station**

Engineering services and support including design, scheduling and procurement support for the 20 MMSCFD meter and regulator station on the M&N pipeline system for a new distribution line feeding the towns of Cumberland, Falmouth and Yarmouth in Maine.

**2013 Summit Natural Gas of Maine, Purge and Commissioning**

Developed and executed detailed procedure conforming to NFPA 59 standards for the purging and commissioning of the newly installed 60 miles of natural gas transmission and distribution pipeline serving the Kennebec Valley in Maine.

**2013 CNG Facility**

Engineering services and support including concept development, designing, master scheduling, coordination between consultants and suppliers, preparing CAPEX estimates and procurement packages for all major equipment for the CNG trailer filling facility for Hess Energy Marketing in the Albany region in New York.

**2013 XNG, Natural Gas Custody Transfer Metering**

Engineering services and support including concept development, design, scheduling and procurement support for the 18 MMSCFD meter station on the M&N pipeline system feeding a new CNG Trailer Filling facility for Xpress Natural Gas in Eliot, ME.

**2013 UGIES Uprate Procedure**

Engineering support including review and preparation of the CAPEX estimate report for the plan to uprate the Auburn Line from its current MAOP of 720 PSIG to 823 PSIG for UGI Energy Services.

**2013 Iroquois, Domestic Fuel Upgrade**

Provided engineering services and support for the overpressure protection to the downstream equipment and gas leak detection system for the domestic fuel system at the Boonville and Dover Compressor Stations in New York for the Iroquois Pipeline Operating Company.

**2013 OMYA, Purge and Commissioning**

Developed and executed detailed procedure conforming to NFPA 59 standards for the purging and commissioning of the newly installed LNG piping system at the OMYA Plant in Florence, Vermont.



## EXPERIENCE SUMMARY

Mr. Sweeney has over 2 years of experience working closely with clients, design teams, and contractors on oil, gas and cryogenic projects. He can support client needs from conception through completion, realizing client design goals while conforming to applicable codes and standards. He is a part of the decision-making process on material selection, facility design, and selecting various components for the projects. He has been an engineer on multiple LNG, natural gas transmission, and distribution projects since he has started working at Cornerstone Energy Services. In addition, he has been tasked with multiple field engineering duties on numerous projects and has functioned as a purge controller and commissioning lead while performing other engineering tasks.

## SELECTED PROJECT EXPERIENCE

### 2018 RH White, Engineer - Lead

Engineering lead for a new construction, cryogenic LN2 testing facility for National Grid located in Lowell, Ma. New system design with glycol transfer equipment and LN2 piping to test portable vaporizers.

### 2018 Xpress Natural Gas, Eliot Meter Station, Engineer-Lead

Continuation of expansion design for Xpress Natural Gas in Eliot, ME. Mechanical engineering and procurement lead for design for reverse flow addition to existing plant, following Enbridge processes and specifications.

### 2017 – 2018 RH White, Fall River Vaporization, Engineer-Lead

Equipment engineering lead for an LNG send-out system replacement project for Liberty Utilities located in Fall River, Ma. New system design with LNG pumps, boilers vaporizers, ambient heaters and ancillary equipment. Personally, provided equipment specification, procurement, submittal review, process engineering and design review. Following these activities, became on-site Field Engineer the project. Provided construction oversight, purge procedures, design wrap-up, purge controlling, commissioning plans, work documentation, testing and commissioning controlling as well as other construction support tasks.

### 2017 Macquarie Infrastructure, Field Engineer

On-site Field Engineering support for Bayonne Energy Center compressor addition. Provided purge procedures, on-site construction assistance, purge controlling, commissioning support and plans as well as turnover book consolidation.

## EDUCATION

B.S. Mechanical Engineering,  
Syracuse University

## AREA OF EXPERTISE

Field Engineering & Construction  
Support

Purge Procedure Development and  
Execution

Commissioning

LNG Facility Siting & Design

Gas and Oil Pipeline Facilities  
Design

Natural Gas M&R Station Design

Propane System Design

Instrumentation & Control Systems

## REGISTRATIONS/ AFFILIATIONS

Transportation Worker  
Identification Credential (TWIC)  
Card Holder

Hydrogen Sulfide Training

## OFFICE

Worcester, MA, USA

## YEARS OF EXPERIENCE

2

## CONTACT

[ASweeney@CornerstoneEnergyInc.com](mailto:ASweeney@CornerstoneEnergyInc.com)

**2017 Xpress Natural Gas, Eliot Meter Station, Engineer**

P1 Spectra specification expansion design for Xpress Natural Gas in Eliot, ME. Engineering and procurement support for reverse flow addition to existing plant.

**2016 – 2017 RH White, Rocky Hill LNG Replacement, Field Engineer**

Replacement of LNG send out pump system for Connecticut Natural Gas in Rocky Hill, CT. New system design including piping, process control, operating procedures and structures. In addition, demolition plans, procurement and code compliance. Following these activities, became on-site Field Engineer the project. Provided construction oversight, purge procedures, design wrap-up, purge controlling, commissioning plans, work documentation, testing and commissioning controlling as well as other construction support tasks including turnover book creation and assistance.

**2016 – 2017 Centurion Pipeline, Engineer**

Procurement and engineering support of a 53-mile gathering pipeline, in New Mexico. Project consisted of line pipe connecting various crude oil sites all joined back at an origination station.

**2016 Norwich Public Utilities, Engineer**

Design of gas main relocation for a bridge replacement in Preston, CT. Included hot tap, temporary pipe locations, piping staging and final main attachment to new bridge exterior.

**2016 Macquarie Infrastructure, Engineer**

Design and construction support of a power plant addition to the Bayonne Energy Center in Bayonne, NJ. Added four gas compressors, gas blending skid, cooling skid and ADC building. Project also included new system design, piping, operating, procurement and materials tracking.

**2016 PB Power/Macquarie Infrastructure, Engineer**

Engineering and construction support of a Spectra specification gas meter station in Bayonne New Jersey. 6.9 MMSCFD, with 7,500 feet of high-pressure connecting pipeline to supply a power plant addition at the Bayonne Energy Center. Project also included new system design, piping, operating, procurement and materials tracking.

**2016 Kendal at Hanover, Engineer**

Propane system expansion design for Kendal at Hanover in Hanover, NH. Truck skid replacement, vaporizer yard design, underground storage and flow investigation.



# energy infrastructure development

engineering & design | survey & mapping | row acquisition | project management



## SURVEY & MAPPING

- GPS Control Networks
- Digital Orthophotography Generation
- Traverse & Detail Surveys
- Property Line Surveys
- Quad/Aerial Photo Based Overview Maps
- Alignment Sheet Generation
- Site Specific Drawing Generation

## FEASIBILITY STUDIES

- Land and Utility Research
- Field Investigations
- Environmental Database Searches
- Conceptual Base Plan Development
- Engineering/Environmental Permit Requirement Identification

## RIGHT-OF-WAY

- Lands / Title Research
- Access Permissions
- Easement / Fee Negotiations
- Plat Production
- Stakeholder Outreach
- Damage Evaluation & Settlement

## PERMITTING

- Federal DOT, State and Local Highway & Railroads
- Local Building Permits
- Zoning Variances
- Stormwater and Erosion Control Plans

## ENERGY FACILITIES DESIGN

- Meter & Regulation Stations
- LNG / CNG Facilities
- Compressors
- Material Specifications & Procurement
- Power Plant Fuel Gas Boost Compressors
- LNG Pumping, Vaporization & Boiloff Compression

## PIPELINE ALIGNMENT

- Engineering Route Analysis
- Workspace Configurations
- Access Road Analysis
- Contractor/Pipeyard Analysis

## PIPELINE DESIGN

- Directional Drills
- Road & Railroad Crossings
- Cathodic Protection
- Mainline Valves, Launcher/Receivers

## PUBLIC RELATIONS & PROPERTY RIGHTS

- FERC – Public Scoping Hearings
- State & Local Outreach Programs
- Property Easement Procurement
- Construction Damages Evaluation & Settlements

## CONSTRUCTION SERVICES

- Construction Bid Package Preparation
- Construction Bid Evaluation
- Shop & Field Inspection
- As-Built Facility Drawings
- As-Built Pipeline Mapping



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Energy Services

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start with the Cornerstone*

Massachusetts | Maine | Florida | Idaho | West Virginia | Connecticut | Washington | New Jersey | New Hampshire | Texas

[cornerstoneenergyinc.com](http://cornerstoneenergyinc.com)

# LNG PROJECT CAPABILITIES



Through years of experience in the LNG industry, Cornerstone has the skills, knowledge, tools, dedication, and techniques to support all types of LNG projects from inception to commissioning.

Our skilled professionals possess the process knowledge, safety-first mindset and attention to detail required in the LNG industry. Regardless of the project complexity or scale, our multi-discipline team can deliver high quality results on schedule. Successful LNG projects start with the Cornerstone!



**Cornerstone**  
Energy Services

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## FRONT-END ENGINEERING & DESIGN

- Siting & Permitting
- Feasibility Studies
- Hazard Analysis & Tank Sizing
- FERC RR11 & RR13 Packages

## DETAILED FACILITY DESIGN

- Design Basis & Controls Narratives
- 3D Modelling of existing & proposed facilities
- P&IDs for existing & proposed facilities
- Tank Piping Modifications & Tie-ins
- Liquefaction Systems
- Pump Systems
- Vaporizer Systems
- Boilers & Hydronic Systems
- Truck Loading Facilities
- Boil-Off Gas Systems
- LN2 Systems
- Controls Integration
- Buildings & Structures
- Construction Drawings
- HAZOP Analysis
- Pipe Stress Analysis
- Fire Studies
- Equipment Specifications & Procurement Support

## COMMISSIONING

- Commissioning Manuals and Planning
- Purge Procedures & On-site Purge Control
- Field Engineering Support
- Documentation, Witnessing and Records
- Training Seminars
- Turnover Package Creation/Auditing

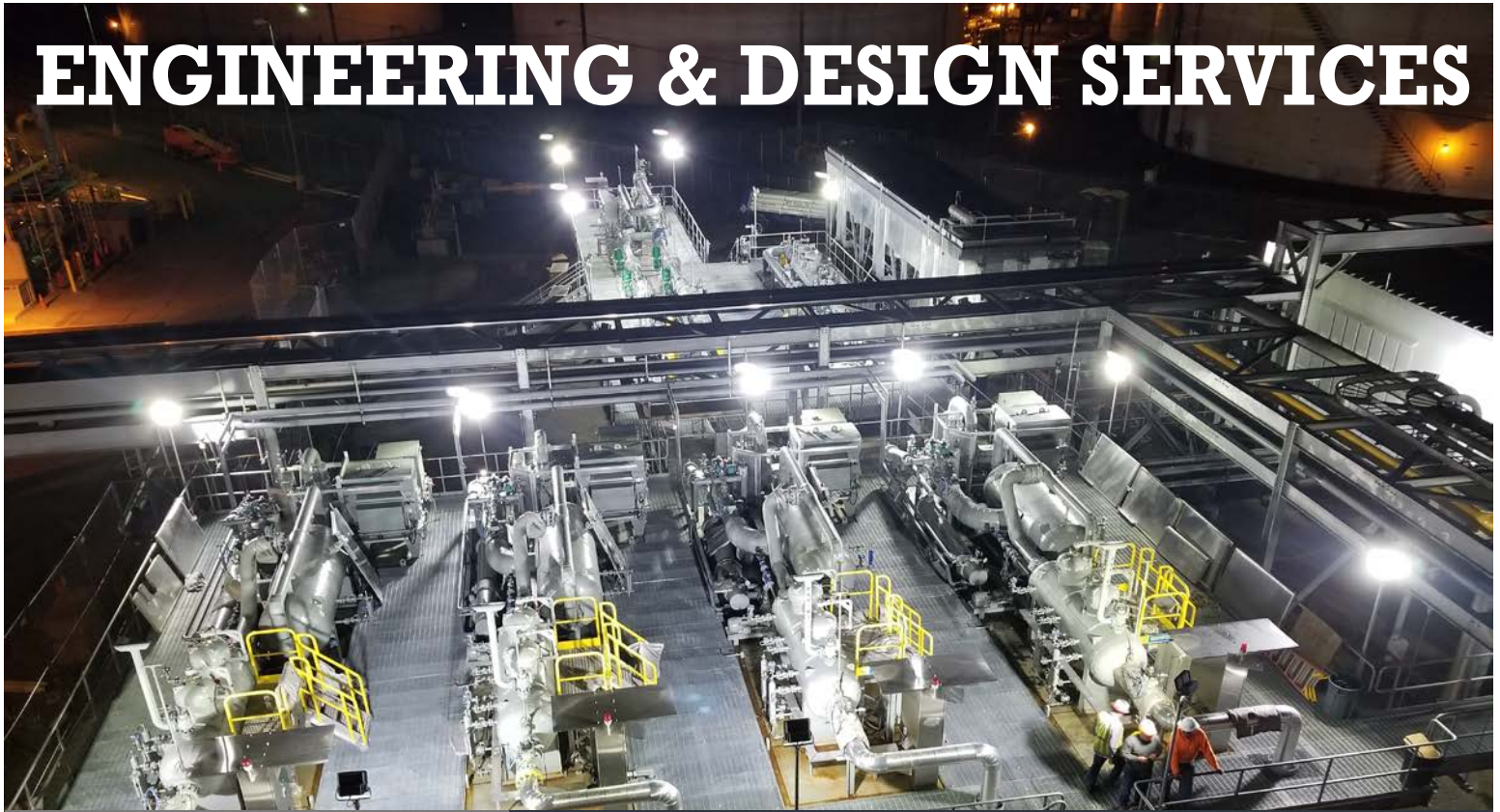


CONNECTICUT | FLORIDA | IDAHO | MAINE | MASSACHUSETTS | NEW HAMPSHIRE | NEW JERSEY | TEXAS | WEST VIRGINIA

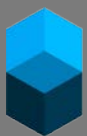
WWW.CORNERSTONEENERGYINC.COM



# ENGINEERING & DESIGN SERVICES



Cornerstone's Engineering and Design team brings extensive experience in the energy infrastructure industry to deliver safe, trouble-free, and cost-effective solutions to our clients. Our engineering staff is composed of Civil, Structural, Mechanical, and Electrical engineers, licensed in CT, ID, LA, ME, MA, MD, NH, NJ, NM, NY, OH, OK, PA, PI, TX, VT, VA, and WV. Our clients benefit from our expertise in Project Development, Project Execution, and Construction Phase Services. Our successful project background includes – Custody Transfer Gate Stations, LPG, LNG and CNG facilities, crude oil gathering lines including storage and pumping terminals, as well as natural gas distribution and transmission pipelines.



**Cornerstone**  
Energy Services  
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## PROJECT DEVELOPMENT

- Feasibility studies
- Front End Engineering Design (FEED)
- CAPEX estimates
- Life cycle cost analysis
- Subsurface utility engineering (SUE)
- Permit identification

## PROJECT EXECUTION

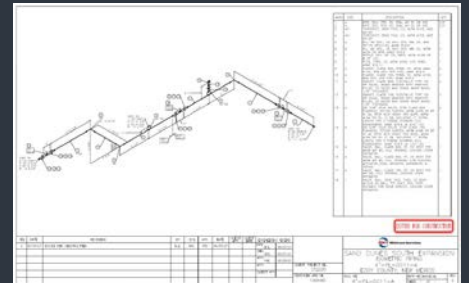
- Pipeline alignments
- Directional drill design
- Road & railroad crossings
- Hydraulic Analysis
- Pipe Stress Analysis
- PFDs & P&IDs
- Procurement support
- 3D Plant Modeling
- Stamped Construction Drawings

## CONSTRUCTION SERVICES

- Bid Solicitation
- Planning and scheduling activities
- Field engineering
- Shutdown and Start-up procedures
- Pressure test planning
- Commissioning plans
- Turnover documentation
- Pipeline & Facility As-built Documentation

## SOFTWARE

- GASCalc Suite
- GASWorks
- Flow of Fluids
- CAESAR II
- RISAFoundation
- Tekla Tedds
- Farris SizeMaster





# PROJECT MANAGEMENT



Project Managers at Cornerstone possess the skills, knowledge, tools, and techniques to ensure that your projects are successful from inception to commissioning. Our skilled professionals strive to develop exceptional relationships with our clients, lead the team, and manage projects through the entirety of their lifecycle. Regardless of the project complexity, our skillful and experienced team can support. From planning and sequencing, budgeting and procurement, to reporting and documentation, the Cornerstone Project Management team will lead you to success.



**Cornerstone**  
Energy Services

*Successful projects  
start with the Cornerstone*

## DEVELOP

- Project Organizational Chart
- Planning & Defining Scope
- Work Breakdown Structure
- Creating Charts & Schedules
- Developing Project Budget
- Activity Planning & Sequencing
- Resource Planning
- Business Partnering
- Strategic Influencing



## MANAGE

- Project Communication
- Managing Risks & Issues
- Working with Vendors/ Sub-contractors
- Documentation



## MONITOR & CONTROL

- Material Definition & Procurement
- Monitoring & Reporting Progress
- Time Estimating
- Cost Estimating
- Quality Assurance / Control
- Cost tracking
- Schedules
- Scalability, Interoperability and Portability Analysis



## SOFTWARE

- MS Project
- Deltrek Vision

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**Connecticut Siting Council  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Natural Gas Fuel Pipeline Cleaning Notice**

**Exhibit 4 – Proof of Certified Mailings to Designated Connecticut State Agencies**

Copies of this Notice were provided to the following agencies in accordance with the July 21, 2016 Decision and Order (PE1218) Condition 6(viii) and CGS § 16-50j(g). These copies were transmitted via United States Postal Service Certified Mail. Copies of the Certified mailing receipts are included below.

**Department of Energy and Environmental Protection  
Department of Public Health  
Council on Environmental Quality  
Department of Agriculture  
Public Utilities Regulatory Authority  
Office of Policy and Management  
Department of Economic and Community Development  
Department of Transportation  
Department of Emergency Services and Public Protection  
Department of Consumer Protection  
Department of Administrative Services  
Department of Labor  
Department of Construction Services  
Department of Emergency Management and Homeland Security  
City of Bridgeport Fire Marshal**



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☐ Return Receipt (electronic) \$0.00  
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☐ Adult Signature Required \$0.00  
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.50

**\$6.70**

Joseph Cassidy, Acting State Building Inspector  
Connecticut Department of Construction Services  
165 Capital Avenue  
Hartford, CT 06106

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 3010 0000 7779 5795

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☐ Adult Signature Required \$0.00  
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.50

**\$6.70**

Melody A. Currey, Commissioner  
Connecticut Department of Administrative Services  
450 Columbus Blvd.  
Hartford, CT 06103

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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MIDDLETOWN, CT 06457

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**\$6.70**

Dora B. Schirri, Commissioner  
Connecticut Department of Emergency Services and Public Protection  
1111 Country Club Road  
Middletown, CT 06457

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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**\$6.70**

Katie Dykes, Chair  
Public Utilities Regulatory Authority (PURA)  
Ten Franklin Square  
New Britain, CT 06051

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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BRIDGEPORT, CT 06604

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**\$6.70**

Henry Polite, Fire Marshal  
City of Bridgeport Fire Marshal  
45 Lyon Terrace  
Bridgeport, CT 06604

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Postage \$0.50

**\$6.70**

William J. Hackel, Deputy Commissioner/State Emergency Management Director  
Connecticut Department of Public Safety - Emergency Management & Homeland Security (DEMHS)  
25 Sigourney Street, 6th Floor  
Hartford, CT 06106-5042

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.50	
\$ Tot	\$6.70	

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Scott D. Jackson, Commissioner  
Connecticut Department of Labor  
200 Folly Brook Blvd.  
Wethersfield, CT 06109

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Michelle H. Seagull, Commissioner  
Connecticut Department of Consumer Protection (DCP)  
450 Columbus Blvd., Suite 901  
Hartford, CT 06103

Instructions

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James P. Redeker, Commissioner  
Connecticut Department of Transportation (DOT)  
2800 Berlin Turnpike  
Newington, CT 06111

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Catherine Smith, Commissioner  
Connecticut Department of Economic and Community Development (DECD)  
505 Hudson Street  
Hartford, CT 06106

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Benjamin Barnes, Secretary  
Connecticut Office of Policy and Management (OPM)  
450 Capitol Avenue  
Hartford, CT 06106

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Steve K. Reviczky, Commissioner  
Connecticut Department of Agriculture  
165 Capitol Avenue  
Hartford, CT 06106

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
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	\$6.70	

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Dr. Raul Pino, Commissioner  
Connecticut Department of Public Health  
410 Capitol Avenue  
Hartford, CT 06134

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Susan D. Merrow, Chair  
Connecticut Council on Environmental Quality  
79 Elm Street  
Hartford, CT 06106-5127

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
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	\$6.70	

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10/29/2018

Robert J. Klee, Commissioner  
Department of Energy & Environmental Protection  
79 Elm Street  
Hartford, CT 06106

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October 29, 2018  
NJ18110

Robert J. Klee, Commissioner  
Department of Energy & Environmental Protection  
79 Elm Street  
Hartford, CT 06106

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Klee:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

This notice applies to the pipe cleaning activities associated with the onsite natural gas supply piping to the combustion turbine, heat recovery steam generator, and auxiliary boiler for BHS5. The work will be performed by Tucker Mechanical from Meridan Connecticut. The Tucker construction team will be utilizing compressed air and water to clean the piping systems. This process cleans the new piping prior to introduction of any natural gas into the piping system. All relevant safety and environmental regulations will be observed and natural gas will not be used for pipe cleaning.

Should you have any questions or require additional information, feel free to contact me at 973.856.0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 609-440-0236.

Very truly yours

A handwritten signature in black ink, appearing to read "David Hinchey". The signature is fluid and cursive, with a large, stylized "D" and "H".

David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

## **Connecticut Agency Copies (Certified Mail - USPS)**

Department of Energy and Environmental Protection  
Department of Public Health  
Council on Environmental Quality  
Department of Agriculture  
Public Utilities Regulatory Authority  
Office of Policy and Management  
Department of Economic and Community Development  
Department of Transportation  
Department of Emergency Services and Public Protection  
Department of Consumer Protection  
Department of Administrative Services  
Department of Labor  
Department of Construction Services  
Department of Emergency Management and Homeland Security  
City of Bridgeport Fire Marshal

## **Electronic Copies:**

Melanie Bachman, CSC  
Michael Perrone, CSC  
Harold Blinderman, Esq  
Leilani M. Holgado, Esq.  
Karl Wintermeyer  
Scott Matheson  
Jeffrey Pantazes  
Leonard Rodriguez, Esq. - United Illuminating Company  
Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Dr. Raul Pino, Commissioner  
Connecticut Department of Public Health  
410 Capitol Avenue  
Hartford, CT 06134

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

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Very truly yours

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

### **Connecticut Agency Copies (Certified Mail - USPS)**

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Department of Public Health  
Council on Environmental Quality  
Department of Agriculture  
Public Utilities Regulatory Authority  
Office of Policy and Management  
Department of Economic and Community Development  
Department of Transportation  
Department of Emergency Services and Public Protection  
Department of Consumer Protection  
Department of Administrative Services  
Department of Labor  
Department of Construction Services  
Department of Emergency Management and Homeland Security  
City of Bridgeport Fire Marshal

### **Electronic Copies:**

Melanie Bachman, CSC  
Michael Perrone, CSC  
Harold Blinderman, Esq  
Leilani M. Holgado, Esq.  
Karl Wintermeyer  
Scott Matheson  
Jeffrey Pantazes  
Leonard Rodriguez, Esq. - United Illuminating Company  
Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Susan D. Merrow, Chair  
Connecticut Council on Environmental Quality  
79 Elm Street  
Hartford, CT 06106-5127

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Susan Merrow:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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Should you have any questions or require additional information, feel free to contact me at 973.856.0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 609-440-0236.

Very truly yours

A handwritten signature in black ink, appearing to read "David Hinchey". The signature is fluid and cursive, with a large, stylized "D" and "H".

David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

**Connecticut Agency Copies (Certified Mail - USPS)**

Department of Energy and Environmental Protection  
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City of Bridgeport Fire Marshal

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Leonard Rodriguez, Esq. - United Illuminating Company  
Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Steve K. Reviczky, Commissioner  
Connecticut Department of Agriculture  
165 Capitol Avenue  
Hartford, CT 06106

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Reviczky:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
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Thomas Gill – City of Bridgeport





October 29, 2018  
NJ18110

Benjamin Barnes, Secretary  
Connecticut Office of Policy and Management (OPM)  
450 Capitol Avenue  
Hartford, CT 06106

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Secretary Barnes:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Catherine Smith, Commissioner  
Connecticut Department of Economic and Community Development (DECD)  
505 Hudson Street  
Hartford, CT 06106

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Smith:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

James P. Redeker, Commissioner  
Connecticut Department of Transportation (DOT)  
2800 Berlin Turnpike  
Newington, CT 06111

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Redeker:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Michelle H. Seagull, Commissioner  
Connecticut Department of Consumer Protection (DCP)  
450 Columbus Blvd., Suite 901  
Hartford, CT 06103

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Seagull:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety



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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Scott D. Jackson, Commissioner  
Connecticut Department of Labor  
200 Folly Brook Blvd.  
Wethersfield, CT 06109

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Jackson:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

William J. Hackett, Deputy Commissioner/State Emergency Management Director  
Connecticut Department of Public Safety - Emergency Management & Homeland  
Security (DEMHS)  
25 Sigourney Street  
6th Floor  
Hartford, CT 06106-5042

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Deputy Commissioner/State Emergency Management Director Hackett:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Henry Polite, Fire Marshal  
City of Bridgeport Fire Marshal  
45 Lyon Terrace  
Bridgeport, CT 06604

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Fire Marshal Polite:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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Thomas Gill – City of Bridgeport





October 29, 2018  
NJ18110

Katie Dykes, Chair  
Public Utilities Regulatory Authority (PURA)  
Ten Franklin Square  
New Britain, CT 06051

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Katie Dykes:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Dora B. Schriro, Commissioner  
Connecticut Department of Emergency Services and Public Protection  
1111 Country Club Road  
Middletown, CT 06457

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Schriro:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Melody A. Currey, Commissioner  
Connecticut Department of Administrative Services  
450 Columbus Blvd.  
Hartford, CT 06103

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Commissioner Currey:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

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Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

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Thomas Gill – City of Bridgeport



October 29, 2018  
NJ18110

Joseph Cassidy, Acting Building Inspector  
Connecticut Department of Construction Services  
165 Capital Avenue  
Hartford, CT 06106

**RE: PSEG Power Connecticut LLC  
Notice Regarding Pipe Cleaning Operations  
Connecticut Siting Council Petition No. 1218**

Dear Mr. Cassidy:

The purpose of this letter is to provide notification that PSEG Power Connecticut LLC (PSEG) will be performing pipe cleaning operations to support the construction of the Bridgeport Harbor Station Unit 5 (BHS5) combined cycle power plant. The site is located at 1 Atlantic Street in Bridgeport. This notice is required by the Connecticut Siting Council's July 21, 2016 Decision and Order, Condition 6(viii), in the above referenced matter.

This notice applies to the pipe cleaning activities associated with the onsite natural gas supply piping to the combustion turbine, heat recovery steam generator, and auxiliary boiler for BHS5. The work will be performed by Tucker Mechanical from Meridan Connecticut. The Tucker construction team will be utilizing compressed air and water to clean the piping systems. This process cleans the new piping prior to introduction of any natural gas into the piping system. All relevant safety and environmental regulations will be observed and natural gas will not be used for pipe cleaning.

Should you have any questions or require additional information, feel free to contact me at 973.856.0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 609-440-0236.

Very truly yours

A handwritten signature in black ink, appearing to read "David Hinchey". The signature is fluid and cursive, with a large, stylized "D" and "H".

David Hinchey  
Manager – Environment Major Permits and Projects  
PSEG Power LLC  
Fossil Environment, Health and Safety

### **Connecticut Agency Copies (Certified Mail - USPS)**

Department of Energy and Environmental Protection  
Department of Public Health  
Council on Environmental Quality  
Department of Agriculture  
Public Utilities Regulatory Authority  
Office of Policy and Management  
Department of Economic and Community Development  
Department of Transportation  
Department of Emergency Services and Public Protection  
Department of Consumer Protection  
Department of Administrative Services  
Department of Labor  
Department of Construction Services  
Department of Emergency Management and Homeland Security  
City of Bridgeport Fire Marshal

### **Electronic Copies:**

Melanie Bachman, CSC  
Michael Perrone, CSC  
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Leilani M. Holgado, Esq.  
Karl Wintermeyer  
Scott Matheson  
Jeffrey Pantazes  
Leonard Rodriguez, Esq. - United Illuminating Company  
Thomas Gill – City of Bridgeport