



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

February 1, 2023

Kristen Grillo  
Bloom Energy Corporation  
4353 North First Street  
San Jose, CA 95134  
[Kristen.Grillo@bloomenergy.com](mailto:Kristen.Grillo@bloomenergy.com)

RE: **PETITION NO. 1510** – Bloom Energy Corporation declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a customer-side 1-megawatt fuel cell facility and associated equipment to be located at Bozzuto's Inc., 400 Industrial Avenue, Cheshire, Connecticut.

Dear Kristen Grillo:

The Connecticut Siting Council (Council) is in receipt of the notification for pipe cleaning procedure dated January 31, 2023 regarding compliance with Condition No. 5 of the Council's Declaratory Ruling of July 8, 2022 for the above-referenced facility.

The Council acknowledges that the condition has been satisfied. This acknowledgment applies only to the condition satisfied by the January 31, 2023 correspondence.

Please be advised that deviations from the standards established by the Council in the Declaratory Ruling are enforceable under the provisions of Connecticut General Statutes §16-50u.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman  
Executive Director

MB/MP/laf

**From:** Kristen Grillo <Kristen.Grillo@bloomenergy.com>  
**Sent:** Tuesday, January 31, 2023 12:21 PM  
**To:** CSC-DL Siting Council <Siting.Council@ct.gov>  
**Subject:** PE1510 - Bloom Energy Fuel Cell Installation, 400 Industrial Avenue, CheshireCT-  
Letter of Notification for Pipe Cleaning Procedures

Good afternoon,

Per condition #5 cited in Siting Council Declaratory Ruling Letter for Petition #PE1510, please find the attached Letter of Notification for pipe cleaning procedures to be performed at the Bozzuto's Inc. Bloom Energy Fuel Cell Installation site, located at 400 Industrial Avenue in Cheshire, CT.

If you should have any questions or require further information, please don't hesitate to contact me.

Thank you for your time.



**Kristen Grillo**

Senior Permitting Specialist | East Coast Field Office  
Customer Installations Group | North America  
(917) 803-4511

[Kristen.Grillo@bloomenergy.com](mailto:Kristen.Grillo@bloomenergy.com)

Bloom Energy Corporation  
4353 North First Street, San Jose, CA 95134  
(408) 543-1500  
[www.bloomenergy.com](http://www.bloomenergy.com)

January 31, 2023

Melanie Bachman, Esq.  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: PETITION NO. 1510**—Bloom Energy Corporation petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a customer-side 1-megawatt fuel cell facility and associated equipment to be located at Bozzuto's Inc., 400 Industrial Avenue, Cheshire, Connecticut.

Dear Ms. Bachman:

At a public meeting held on July 7, 2022, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal meets air and water quality standards of the Department of Energy and Environmental Protection and would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need with certain conditions. As requested in the declaratory ruling, the following information is being provided not less than 15 days prior to any fuel pipe cleaning operations related to the fuel cell construction, installation, or modification:

**4. The use of natural gas as a fuel system cleaning medium during fuel cell construction, installation or modification shall be prohibited;**

- Bloom Energy uses an inert gas (Nitrogen) to handle cleaning the fuel system during construction, installation, or modification of its fuel cell projects.

**5. Submit the following information to the Council 15 days prior to any fuel pipe cleaning operations related to fuel cell construction, installation, or modification:**

- Pipe cleaning operations occur during the commissioning state of the project. A copy of the "Gas System Commissioning" standard operating procedure (SOP) is provided as Exhibit 1. The information below derives from this SOP.

**a. Identification of the cleaning media to be used;**

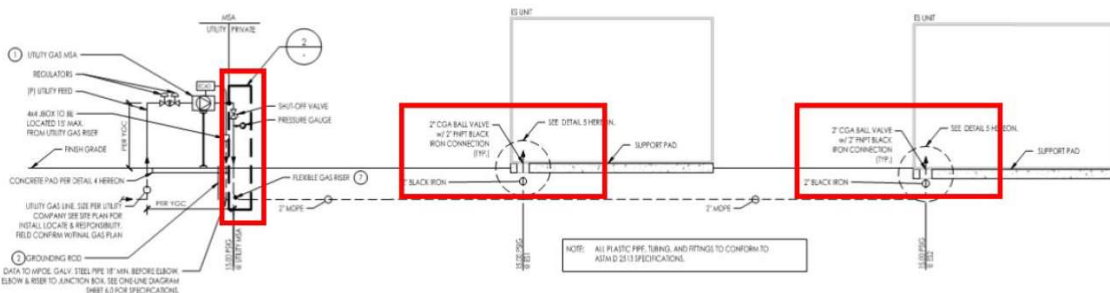
Nitrogen is the cleaning media to be used.



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408 543 1500  
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# What Powers You

- b. **Identification of any known hazards through use of the selected cleaning media;**  
Nitrogen is selected as a cleaning media as it is inherently safe, however there are hazards in dealing with any high pressure gas including operating the equipment, debris existing in the lines during the cleaning process, high noise, and typical construction site hazards.
- c. **Description of how known hazards will be mitigated, including identification of any applicable state or federal regulations concerning hazard mitigation measures for such media;**  
Bloom Energy and its contractors will proceed in accordance to the provided method of procedure in addition to compliance with OSHA and NFPA Standards. Compressed Nitrogen will be transported and handled in compliance with all federal, state, and local codes, PPE will be worn at all times and areas of hazard will be barricaded off.
- d. **Identification and description of accepted industry practices or relevant regulations concerning the proper use of such media;**  
OSHA, NFPA 54, NFPA 56, NFPA 853, ASME B31 and DOT Title 49.
- e. **Provide detailed specifications (narratives/drawings) indicating the location and procedures to be used during the pipe cleaning process, including any necessary worker safety exclusion zones;**
- Ensure all PPE is in place:  
Min requirements: Safety glasses, gloves, hardhat, high visibility clothing, safety shoes, hearing protection, combustible gas monitor, and oxygen monitor.
  - Set up barricades around all above ground points of the fuel line to be cleaned and ensure all non-essential personal removed. Areas to be barricaded and where cleaning to take place shown on the below fuel piping schematic.



CLEAN ENERGY SERVER NATURAL GAS SUPPLY DIAGRAM



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4353 North First Street, San Jose, CA 95134  
408 543 1500  
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# What Powers You

- Ensure all fuel system valves closed and isolate the incoming utility gas valve and the fuel cell gas meter.
- Connect Nitrogen gas bottle through a regulator downstream of the incoming gas utility valve at the fuel cell gas meter.
- Connect vent hoses at the fuel cell gas connections and open valves as required to allow flow from the Nitrogen gas bottle through the fuel system plumbing to clean out system of moisture and residual debris.
- Monitor combustible gas levels and oxygen levels on all personal during cleaning process. Closes valves and halt the cleaning process and notify the process supervisor if the combustible gas levels exceed 25% of LEL (Lower Explosive Limit) or if the oxygen levels fall below 19.5%.
- Remove vent hoses from the fuel cell gas connection and close the valves at the fuel cell connections.
- Remove the Nitrogen gas bottle and regulator from the fuel cell gas meter.

f. **Identification of the contractor or personnel performing the work, including a description of past project experience and the level of training and qualifications necessary for performance of the work;**

Employees of Bloom Energy will oversee and perform the procedures detailed in the Gas System Commissioning procedure. Bloom Energy has safely commissioned more than 200 fuel cell installation projects in California, New York, New Jersey, Delaware and Connecticut. The required safety trainings to complete this procedure include:

- Natural Gas Safety
- Compressed Nitrogen Safety
- Fire Extinguisher Safety
- Combustible Gas Indicator Operation
- Corporate Control of Hazardous Energies

g. **Contact information for a special inspector hired by the project developer who is a Connecticut Registered Engineer with specific knowledge and experience regarding electric generating facilities or a National Board of Boiler and Pressure Vessel Inspector and written approval of such special inspector by the local fire marshal and building inspector; and**

- Richard Gregoire, P.E.  
IDEA Engineering, Inc.  
612 Wheelers Farms Road, 1<sup>st</sup> Fl  
Milford CT 06464  
T: (203) 671-7021  
CT License No. 16221 - *\*A company profile of IDEA Engineering Inc. is provided as Exhibit 2, and demonstrates specific knowledge and experience regarding generating facilities.*



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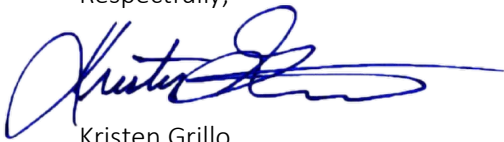
# What Powers You

- h. Certification of notice regarding pipe cleaning operations to all state agencies listed in General Statutes § 16-50j(h) and to the Department of Consumer Protection, Department of Labor, Department of Public Safety, Department of Public Works, and the Department of Emergency Management and Homeland Security;

Bloom Energy has provided notice via Certified Mail (Exhibit 3) to the following agencies:

- Department of Energy and Environmental Protection
- Department of Public Utility Regulatory Authority
- Department of Public Health Protection
- Council on Environmental Quality
- Department of Agriculture
- Office of Policy and Management
- Department of Transportation
- Department of Economic and Community Development
- Division of Emergency Management and Homeland Security (DEMHS)
- Department of Consumer Protection
- Department of Administrative Services
- Department of Labor

Respectfully,



Kristen Grillo

**Senior Permitting Specialist | East Coast Field Office**

Customer Installations Group | North America

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# Exhibit 1

# Gas System Commissioning – N2

**DOC-1010208**

**Revision A**

**Estimated Evolution Time: 2 hrs**

**Number of Personnel: 2 Total**

**1 Inlet Attendant &**

**1 Discharge Attendant**



## Gas System Commissioning - Nitrogen



DOC-1010208 Rev A

### Purpose

- This procedure intends to provide a clear process for CIG field workers ensuring natural gas delivery to site within Bloom Energy Specifications. More specifically, the objective of this procedure is to:
  - Ensure Compliance with:
    - NFPA 54 National Fuel Gas Code
    - OSHA and CalOSHA construction safety standards
    - Title 49 of the Code of Federal Regulations (DOT) safety standards
    - Regional Air Quality Management Board Regulations
    - Bloom Energy's Critical to Quality Standards, especially regarding
      - Gas piping system blow-down and purging standards
    - Only valid in the state of CT

### Scope

- This procedure applies to all US BE construction sites in Connecticut.

### Audience

- 1 CDA Input attendant (general or sub-contractor)
- 1 Discharge Attendant (Bloom Qualified Gas Personnel)

### Applicable Documents

- NFPA 54
- DOC-1007152 SVC
- DOC-1009468 – Gas System Commissioning - CDA

## Gas System Commissioning - Nitrogen



DOC-1010208 Rev A

### Preliminary Requirements

#### **Required Safety Trainings**

- Bloom personnel on site must be documented as Bloom Energy (BE) Qualified Gas System Personnel, which includes:
  - Pipeline Safety
  - Compressed Gas Safety
  - LOTO
  - Valve Safety

#### **Required Personal Protection Equipment (PPE)**

- Safety glasses
- Gloves
- Hard hat
- High visibility clothing
- Work boots with safety toe protection

#### **Special Precautions and Potential Hazards**

- Verify fuel plumbing has been pressure tested for leaks by the utility and general contractor before executing this SOP (House Line Release).
- Oxygen monitoring is required for this operation.

#### **Required Tools, Materials, and Equipment**

- YFP Purge Hose (124422)
- House line installed
- Multi-Gas Monitor: minimum detection of Oxygen and Methane LEL
- Adjustable Wrench Set and/or two (2) Pipe Wrenches
- Gas Sampling Kit (BE# 131263)
- Caution tape and delineators
- Fire Extinguisher (2A or better).
  - This should already be on site.
- Filled Nitrogen Tank
  - QTY 1 approximately 75 Cu. Ft tank per 250 linear feet of 2" gas line (Praxair part NI-Q or equivalent)
  - QTY 1 approximately 140 Cu. Ft tank per 500 linear feet of 2" gas line (Praxair part NI-S or equivalent)

# Gas System Commissioning - Nitrogen

## Section A: Nitrogen Purge of Construction Plumbing

### 1. Site Setup

- 1.1. Ensure all customer protocols are met and scheduled accordingly
  - 1.1.1. Multiple RSA on the same site requires a dedicated MOP, using this procedure as a guide.
- 1.2. Put On PPE.
- 1.3. Turn on personal gas monitor(s) and attach to the person(s) at the discharge location.
- 1.4. Set up cones and caution tape to establish a discharge area around the fuel stub up farthest from the MSA with a 10 foot radius around the point of discharge. Remove all non-essential personnel.
  - 1.4.1. Ensure that there will be no open flame within 50 ft
- 1.5. Ensure a 2A or better fire extinguisher is located within 50 feet of the discharge area.
- 1.6. Verify Each Fuel stub up valve is in the closed position (at YFP, and Upstream facilities valve, where applicable and shut each fuel stub up valve. See Figure 1.

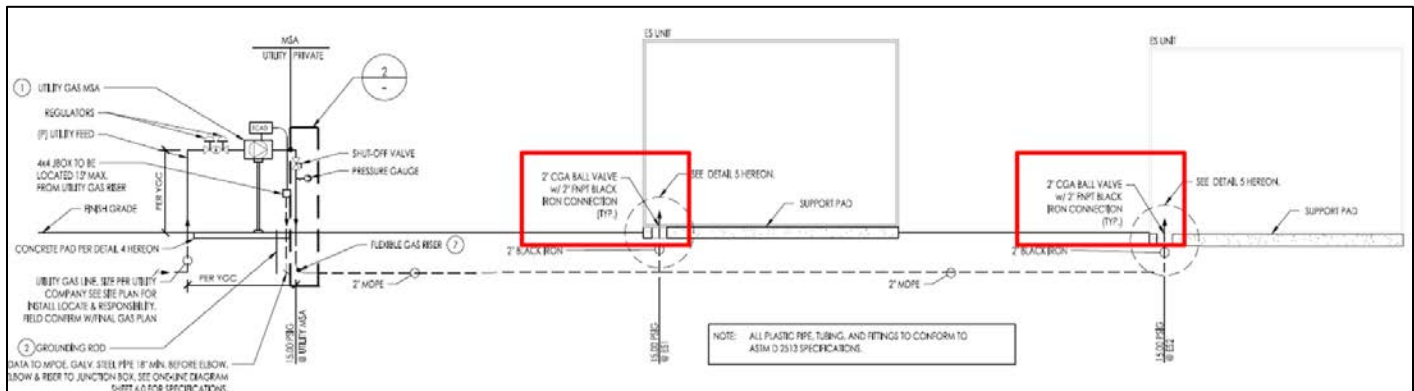


Figure 1

# Gas System Commissioning - Nitrogen

1.7. Identify Isolation valves on meter assembly.

1.8. Ensure all shut off valves are open between MSA and ESS and the stub-up valves are closed.

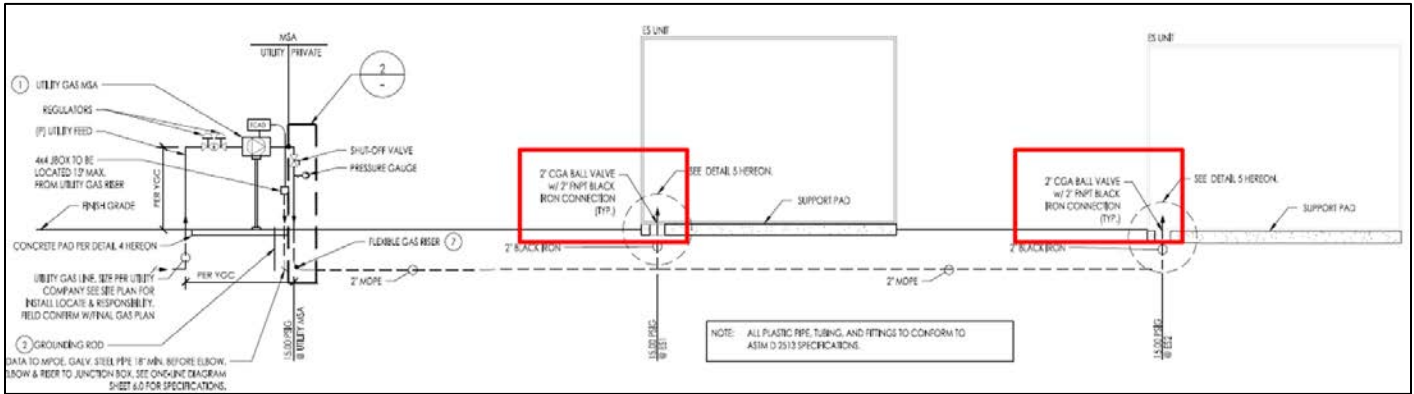


Figure 2

- a. If a YBB, reach out to the Construction Program Manager. Future instructions will go here. See Figure 3.

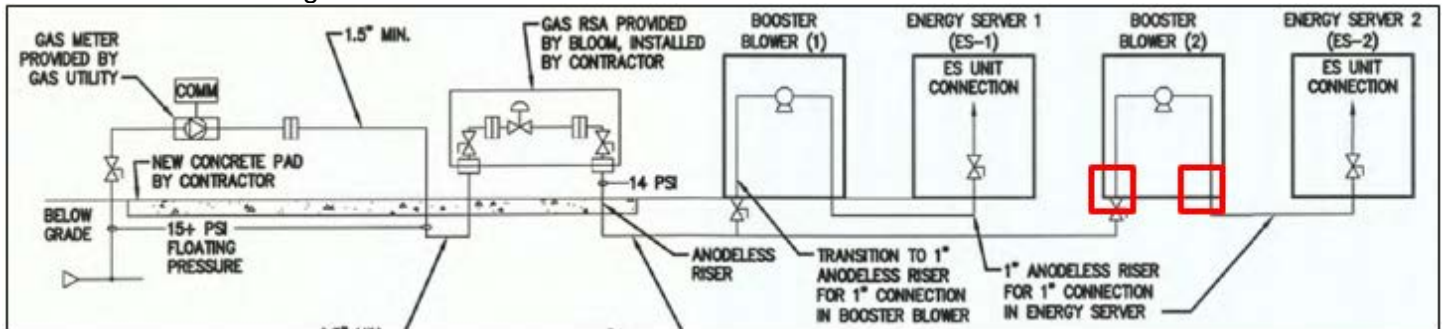


Figure 3

## Gas System Commissioning - Nitrogen

2. Follow the gas line from the MSA (or MSA gap) to the isolation valve on the stub up.
  - 2.1. Identify Isolation valve on meter assembly.
  - 2.2. Determine if gas pressure is available to the plumbing being purged, apply a LOTO to isolate gas if required.
  - 2.3. Perform a valve lineup to achieve the following:
    - 2.3.1. Meter Isolation valve is shut
    - 2.3.2. System gas stub up valve is shut
    - 2.3.3. All other valves between the meter isolation and system gas stub up are open
      - 2.3.3.1. If Parallel regulators, ensure only one set open, close isolations to the other set of regulators

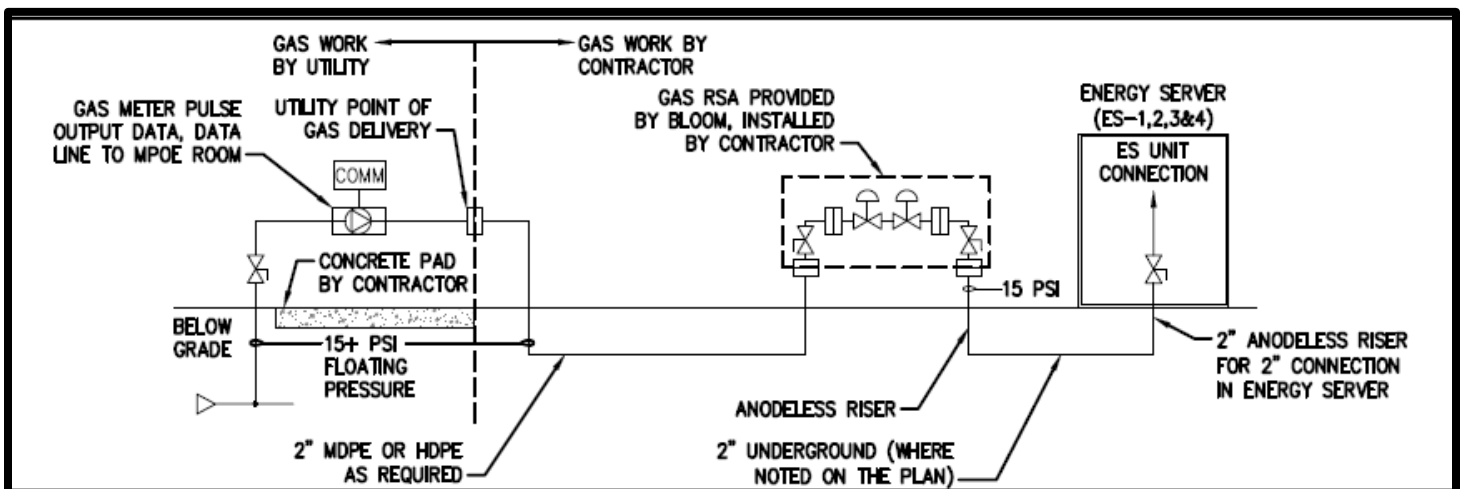


Figure 4

3. General/Subcontractor connects the supply of Nitrogen to the furthest point upstream without interfering with the Gas Utility scope of work.
4. Position Discharge Attendant with air monitor at the point of discharge.

## Gas System Commissioning - Nitrogen



DOC-1010208 Rev A

5. Connect YFP Purge Hose.
  - 5.1. Disconnect YFP from the fuel stub up, if connected
  - 5.2. Attach YFP purge hose to fuel stub up
  - 5.3. Attach YFP purge hose to overhead QDC
6. Inlet attendant supplies intended operational system pressure (min of 60 PSI) to plumbing and corrects any leaks.
7. Once pressure holds, the Discharge Attendant slowly opens all valves between the Nitrogen supply and the discharge assembly
8. Discharge attendant then opens the discharge assembly full open
  - 8.1. Continuously monitor the discharge area for the following and create an incident report if any are found:
    - 8.1.1. Debris
    - 8.1.2. Liquid water
    - 8.1.3. Gas other than compressed air
    - 8.1.4. Discharge attendant shall continuously monitor the discharge area and be prepared to secure the flow.
9. Let Nitrogen flow through the purge assembly for 60 seconds, then secure for 60 seconds.
  - 9.1. Perform at least 6 on/off cycles (6 cycles per 200 ft. of underground pipe)
10. Close the stub up isolation valve
11. If part of the assembly, remove the purge hose Y strainer
  - 11.1. If debris found, take pictures, clean and log an incident.
12. Reinstall "y" strainer.
13. If the Gas stick is provided by Bloom, perform Section B, if it is provided by the utility (fixed pressure) Move to Section C

## Section B: Setting the Bloom Gas Regulators

### 1. Possible Bloom Gas Stick Setups:

#### 1.1. Dual Regulator (two regulators on a single run of pipe)

1.1.1. Perform Section B as written

#### 1.2. Dual Parallel (four regulators on two runs of pipe)

1.2.1. Perform Section B once for each set

1.2.2. Ensure that the set not being used is isolated

#### 1.3. Single Regulator (one regulator on a single run of pipe)

1.3.1. Follow instructions for the upstream regulator only

2. Di Discharge Attendant throttles open the discharge valve as little as possible while still discharging air.

3. Contract Plumber will throttle the compressed gas regulator to achieve delivery pressure (min of 60PSI) on pressure gauge upstream of the regulator set.

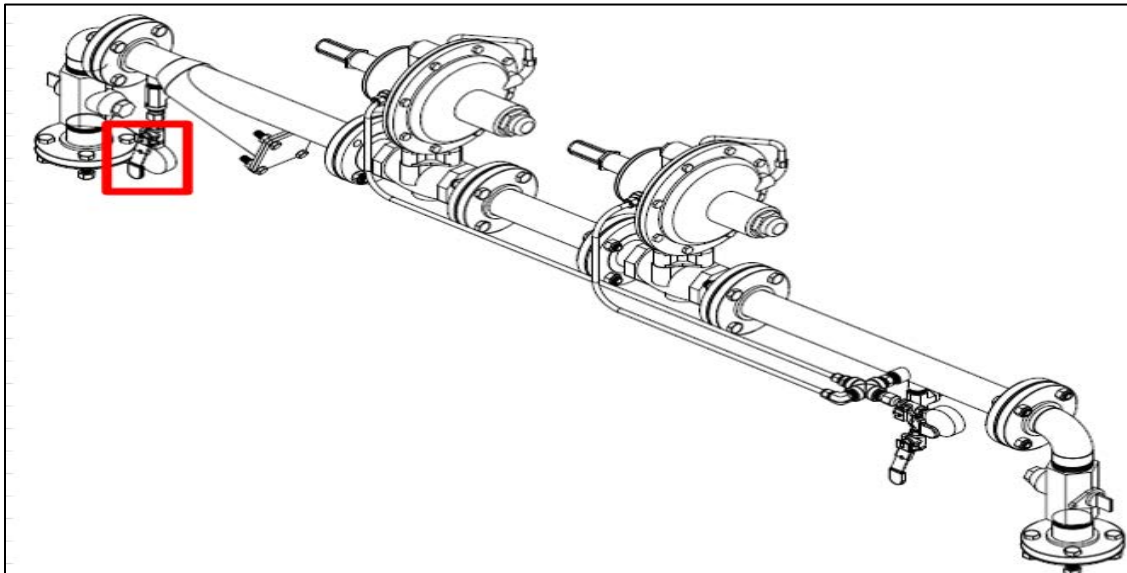


Figure 10

## Gas System Commissioning - Nitrogen

4. Discharge Attendant closes the valve on the vent assembly.
5. Remove the gray plastic covers from the Main Body Pilot adjustment screw from both regulators. Leave the cover on the small independent series 67 pilot assembly alone. See Figure 11.

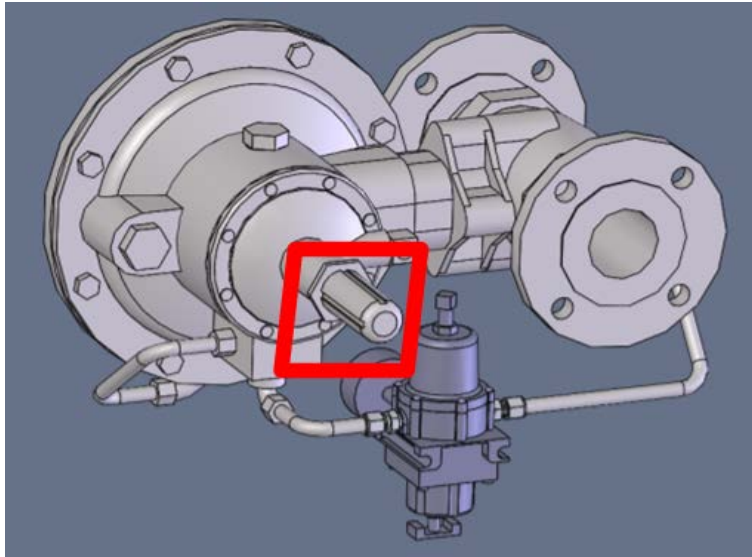


Figure 11

6. Turn the **Main Body Pilot** on the **upstream** regulator fully counter clockwise to stop any flow of gas.
  7. Turn the **Main Body Pilot** on the **downstream** regulator clockwise so the regulator is fully open.
- 7.1. If single regulator, ignore all **downstream** regulator instructions

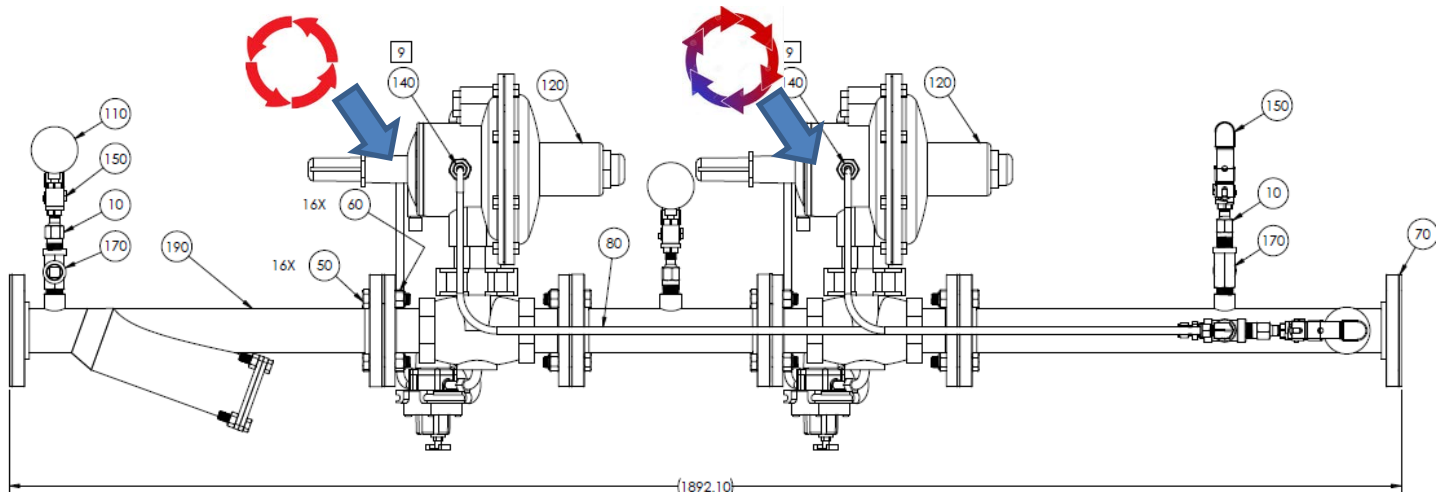


Figure 12



## Gas System Commissioning - Nitrogen

8. Crack open the discharge valve just enough so that the flow of air can be heard or felt.



Figure 13

9. Adjust the **Upstream** regulator first.
10. On the **Main Body Pilot** assembly, turn the adjusting screw clockwise to increase outlet pressure to achieve **18** psi as read on a gauge as far downstream as possible.
- 10.1. Be sure to adjust slowly to allow system pressure to stabilize after adjustment.

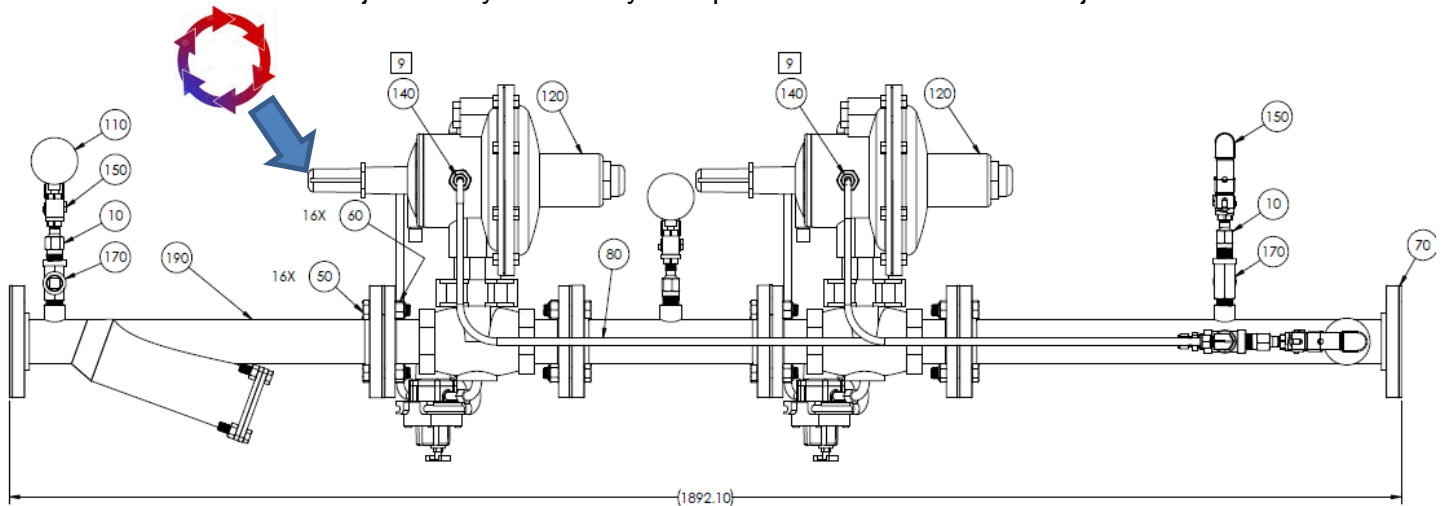


Figure 14

## Gas System Commissioning - Nitrogen

### 11. Adjust the **downstream** regulator second

11.1. On the **Main Body Pilot** assembly, turn the adjusting screw clockwise to increase outlet pressure or counterclockwise to decrease outlet pressure to achieve **15 psi** as read as far downstream as possible.

11.2. Be sure to wait for system pressure to change.

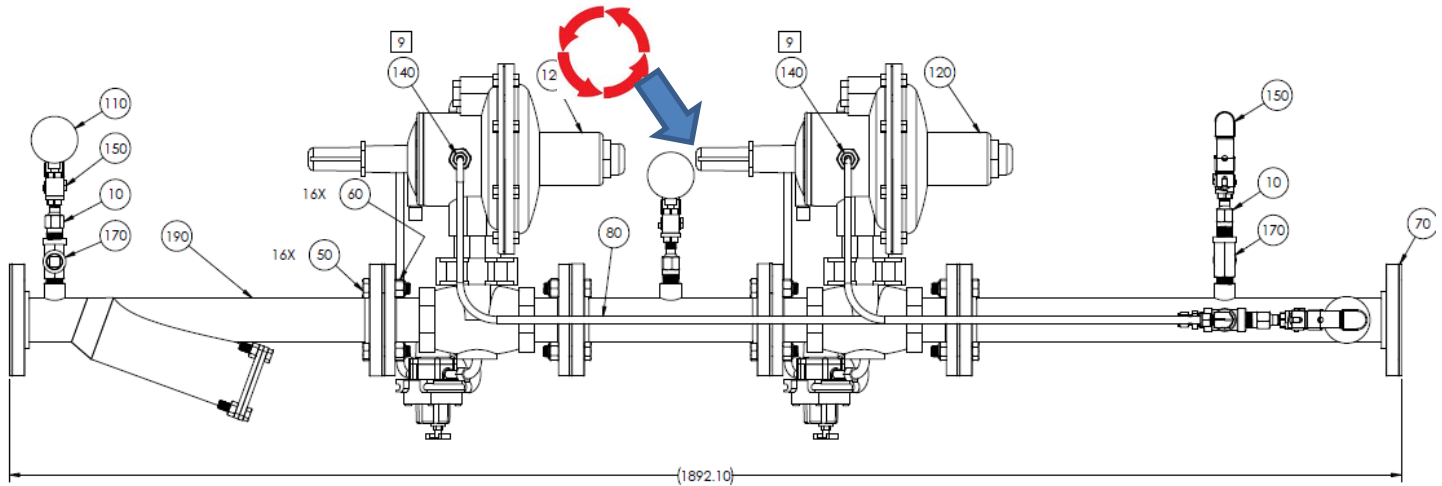


Figure 15

12. If the pressure on the upstream RSA riser gauge drops below expected delivery pressure at any time during the procedure, **STOP**, and re-pressurize the line and consider throttling down on the discharge valve.

13. Close the vent assembly valve.

## Gas System Commissioning - Nitrogen

14. If the gas stick is a dual parallel set and this is the first set dialed in, do the following (skip to next step if not):
- 14.1. Isolate the dialed in set with the valves provided on the turndown
  - 14.2. Open the isolation valves for the pair that has not yet been set
  - 14.3. Repeat Section B for the second set of regulators

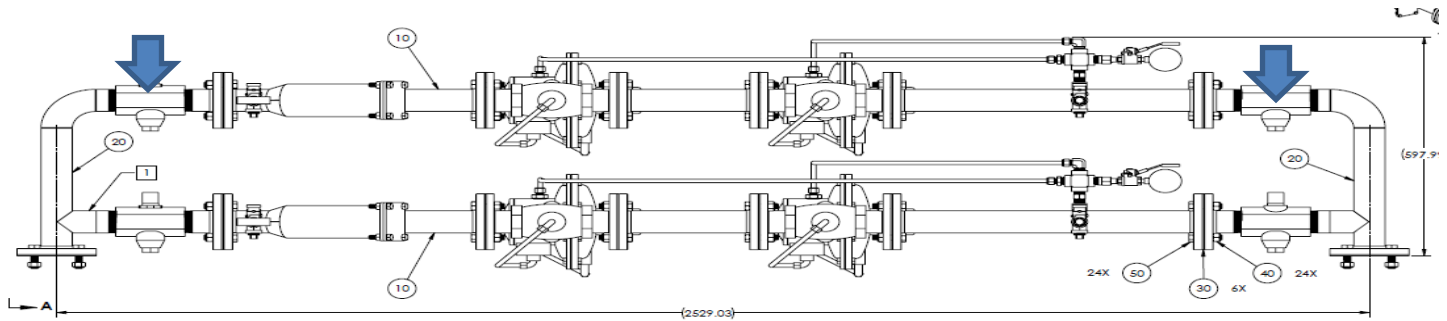


Figure 16

### Section C: Process closeout

#### 1. Restore system Conditions

- 1.1. Turn off the air compressor
- 1.2. Isolate the test equipment from the system
- 1.3. Remove all test equipment
  - 1.3.1. Air Compressor
  - 1.3.2. Purge Hose
- 1.4. Close all fuel stub up valves and reconnect YFP to fuel stub up
- 1.5. Leave meter isolation valves open
  - 1.5.1. If dual parallel, leave only one set open, isolate the second set

## Gas System Commissioning - Nitrogen



DOC-1010208 Rev A

## Version History

Revision	Date	Process Owner	Change Description	Training Required
A		Andy Blakeslee	Initial Release	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A	4/27/17	Shane Peters	Reformatted into Standard Template, suggested edits	<input type="checkbox"/> Yes <input type="checkbox"/> No
A	6/8/17	Shane Peters	Thomas Sipe updates, with Shane's reformatting.	<input type="checkbox"/> Yes <input type="checkbox"/> No
A	2/20/18	Thomas Sipe	Split CDA, N2 and Moisture Sample	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

Electronic Signature approvals are on file in Agile.

## Exhibit 2

**Experience:**

Mr. Gregoire holds a Masters Degree in Chemical Engineering with over 25 years of experience in specialty & hazardous chemicals, solids handling, pharmaceutical, bio-pharmaceutical, high purity systems, environmental and polymer industries. His background encompasses the full range of process engineering activities, code and safety reviews / evaluations, as well as project engineering and business development work at several major engineering firms. Mr. Gregoire has lectured at Interphex on "Controlling Solvent Emissions from Process Vents". He is a registered Professional Engineer in 13 U.S. states. He is also a registered NCEES member. Mr. Gregoire has responsibility for various process/project engineering activities and technical leadership at **IDEA**.

**RELEVANT PROJECTS:**

**Fuel Cell Gas Line Purge Special Inspections**

Witness and Special Inspections of various pre-start-up fuel line purges using nitrogen for A/Z Corp., ENCON and Bloom Energy.

**Generation Bridge II, LLC**

**New Haven Harbor Power Station, New Haven, CT**

Fuel Oil Dock engineering services including preparation of Electrical Area Classification Maps at barge dock.

**Bedoukian Research, Inc. – Danbury, CT**

500 gal. Still System - Schematic Design Package for a 45' high process structure including 2 reactors/stills, condensers and associated support systems.

Vent KO Tank Project – 200 gal. Vent KO Tank detailed design to decouple relief and vent header systems.

Safety and Environmental Upgrade Project – Evaluation and design for 13 reactor/vessel systems involving relief system upgrades and N<sub>2</sub> padding modifications for enhanced safety and environmental control.

Synthetic chemistry scale-up project including bulk solids addition system, reactor & overheads system and high alloy vertical axis, top discharge centrifuge.

**A/Z Corporation – Stamford, CT**

**Fuel Cell Gas Line Purge Witness**

Co-witness to a Special Inspection for several Bloom energy fuel cell gas line purges at NBC Sports Group in Stamford, CT

**Rust-Oleum – Attleboro, MA**

PHA Addendum Safety Review including flammable liquids, combustible dust, equipment, electrical classification, containment and egress reviews.

**BD Biosciences – Miami, FL**

Advanced Bioprocessing Media Manufacturing Facility Solids Processing Lines - Weighing/Dispensing, N<sub>2</sub> Recycle Milling System, Blending, Multiple Container Size Packaging System. Liquids Processing Line – Up to 3000L compounding, Bulk and Bottle Sterile Filling Lines Utilities expansion including a new WPI POU's and a new UPW sub-loop.

**Hamilton Sundstrand – Windsor Locks, CT**

Advanced Pneumatic Testing Lab Project with state-of-the-art controls and utilities including -70° to 800°F pneumatic temperature capabilities.

**ASPEN AEROGELS – E. Providence, RI**

Facility RTO and dust/fume scrubber systems for misc. process and drying ovens emission & fume environmental control.

**Boston University Medical Center – Boston, MA**

Commissioning of a national emerging infectious diseases laboratory and research center consisting of a seven (7) story building (194,000 sq. ft.) with Biosafety Level 2, 3, and 4 Laboratories, associated MEP systems and administrative offices.

**U.S. Surgical Corp. (div. of TYCO Healthcare) – North Haven, CT**

Monomer area expansion of cracking reactor, crystallizer & solvent recovery systems including hot oil & steam utilities studies.

**Sandoz Pharmaceuticals - East Hanover, NJ**

Environmental summary package for a state-of-the-art solvent recovery system.  
Comparison study of various fluid bed and pan coater systems for a solids dosage development facility.

**Lockheed Martin / Sikorsky – Stratford, CT**  
Multiple PHA reviews including flammable liquids, autoclaves, steam systems, as well as as-builts of applicable processes.

**RAS-TECH – Brentwood, NH**  
Dust safety and process code study for a recycle asphalt shingle process.

**MACDERMID ENTHONE – West Haven, CT**  
Multiple specialty high purity process upgrades. Site utilities as-builts.

**King Industries – Norwalk, CT**  
Code and Engineering Evaluation reviews for a new grass roots Specialty Chemical Manufacturing Facility.

**The Lee Company – Westbrook, CT**  
Utilities upgrades, fume and dust safety studies.

**DSM Pharmaceuticals – Greenville, NC**  
Major pharmaceuticals Dust Remediation Safety Study including code reviews, evaluations and estimates for 95+ Dust Collector systems.

**Confidential Client – Long Island, NY**  
Agent for insurance investigations and code reviews pertaining to a dust collector system metal dust fire.

**BALCHEM Corporation – Slate Hill, NY**  
Nutraceutical Encapsulation Process blending, cooling and conveying study.

**NEXEO SOLUTIONS – Various Corporate Sites**  
Flammable bulk chemical and EH&S upgrade projects including ventilation, submerged fill & bottom loading.

**BALCHEM Corporation – Slate Hill, NY**  
Probiotics & Flavor Containment Area Study  
**Wyeth-Ayerst - Rouses Point, NY.**  
Solvent recovery and tank farm expansion  
Chem. development facility emissions reduction project  
Granulation and fluid bed drying expansion projects (3)  
Chemical development expansion  
Solvent emissions control and plant utilities upgrade  
Solvent emissions reduction scheme for a pharma spray drying process including permitting assistance.  
Solvent coating system estimate package.

**Sabic Innovative Plastics - Mt. Vernon, IN**  
Specials solids handling BEP including supersack unloading, recycle N2 solids transfer, solids storage, and batch weigh systems.

**Procter & Gamble Pharmaceuticals – Norwich, NY**  
Hydrazine Analyzer Project  
Reactor Chiller Installation

**Sterling Pharmaceuticals, Inc. - Barceloneta, PR**  
Bulk pharmaceutical expansion project  
Debottlenecking study and estimate for an existing, fine organic chemical manufacturing facility.  
Hi purity water system and SIP for tumble dryer system.

**Wyeth BioPharma - Andover, MA**  
Biopharmaceutical advanced development facility field commissioning lead for 35 field engineers.

**Wyeth-Ayerst - Montreal, Canada**  
Chemical development expansion

**Merial, Ltd. – Athens, GA**  
Bio-pharmaceutical animal health facility - Site Utilities & Master Plan Scoping

**GE Plastics – Burkville, AL**  
Lexan Facility Major Capacity Expansions

**FMC Corporation - Baltimore, MD**  
Herbicide plant retrofit including wiped film still.

**General Electric Company - Waterford, NY.**  
Silicone polymer plant capacity stretch.  
Grassroots silicone polymer project definitive estimate.

**General Electric Company - South Korea.**  
Multi-product polymer compounding facility

**General Electric (GEM Polymers) - Osaka, Japan**  
Basic engineering package for a PPO facility.

**Arch Chemical – North Kingston, RI**  
New HP Photo Resist Facility

**GE Plastics - Mt. Vernon, IN**  
Specialty resin and resin drying system expansion  
Specialty Resin CIP System with first-of-a-kind equipment.  
Haz-Op and Dryer Focus Team  
Bulk/specialty compounding and pkg. facility expansion  
Solvent recovery revamp to reduce Methylene Chloride in wastewaters  
Solvent recovery pilot plant  
Methylene Chloride Loss Reduction Project  
Phosgene Capacity Study

**Olin Microelectronic Materials - Quonset Point, RI**  
High Purity Bulk Electronics Chemicals Facility incl. Packaging, High Purity Chemical Reactor & Vacuum Still System



**Plaskon Electronics Materials, Ltd. (subsidiary of Rohm & Haas, Inc.) Jurong, Singapore.**

Plant operating procedures with subsequent computer sequence descriptions, system startup and debugging of an electronics grade epoxy molding compound plant  
Specialty chemical debottlenecking and start-up

**Pfizer Inc. - Groton, CT**

Refrigeration retrofit estimate & const. sequencing pkg.  
Vent emissions calculation packages and end-of-line device evaluations including estimates.

**Nycomed Amersham - Rensselaer, NY**

Bulk Chem. Retrofit Conceptual Design Pkg. & Estimate  
Pilot Plant Upgrades & Modifications

**Analog Devices - Wilmington, MA**

Wafer Fabrication Facility  
Utilities Retrofit  
Multiple Chilled Water System Integration

**Syntex – Springfield, MO**

Bulk Chemical Upgrade  
Vent Emissions & Thermal Oxidizer Project  
**Cities Service Company - Mont Belvieu, TX**  
Natural gas liquids fractionation plant.

**Searle Food Resources, Inc. - Augusta, GA**

ASPERTAME (NUTRASWEET) product recov. system.  
Static Cryst. simulation. Site waste treatment facility

**Harris/Fairchild Semiconductor - Mountaintop, PA**

HP Chemical Distribution Systems

**Sanders – Nashua, NH**

Piping & utilities systems modifications and documentation.

**Shell Oil Company - Argo, IL**

Batch custom resin solutions plant

**MAJOR CAREER ASSIGNMENTS:**

***IDEA, Inc., Milford, CT***

Principal / Manager, Process Engineering

**SKANSKA E&C, Shelton, CT (formerly CPI PLANTS, Inc.)**

Manager, Process Engineering  
Process Manager  
Senior Process Engineer

**KVAERNER / JOHN BROWN E&C (formerly CRAWFORD & RUSSELL, INC.), Stamford, CT)**

Process Engineer

**EDUCATION:**

RENSSELAER POLYTECHNIC INSTITUTE

B.S., Chemical Engineering - 1978

MANHATTAN COLLEGE

M.S., Chemical Engineering - 1983

**SOCIETIES:**

American Institute of Chemical Engineers; International Society for Pharmaceutical Engineering

**LICENSES:**

Licensed Professional Engineer, States of Connecticut, New York, Massachusetts, Rhode Island, Vermont, New Hampshire, Maine, Texas, California, North Carolina, Florida, Virginia and Arizona.

NCEES Registered Professional Engineer

**PUBLICATIONS:**

ISPE course leader for a workshop entitled "Controlling Solvent Emissions from Process Vents"

## Exhibit 3

VIA ELECTRONIC MAIL

January 31, 2023

**RE: PETITION NO. 1510** –Bloom Energy Corporation petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a customer-side 1-megawatt fuel cell facility and associated equipment to be located at Bozzuto’s Inc., 400 Industrial Avenue, Cheshire, Connecticut.

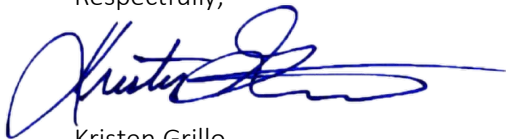
Dear Ladies and Gentlemen:

At a public meeting held on July 7, 2022, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need with certain conditions. As requested in the conditions of the declaratory ruling, Bloom Energy is providing notice not less than 15 days prior to any fuel pipe cleaning operations related to the fuel cell construction, installation, or modification.

Employees of Bloom Energy will oversee and perform the procedures detailed in their “Gas System Commissioning” procedure. Bloom Energy has safely commissioned more than 140 fuel cell installation projects in California, New York, New Jersey, Delaware, and Connecticut. During fuel pipe cleaning operations, a third-party Connecticut licensed mechanical engineer with specific knowledge and experience regarding generating facilities will inspect the work.

Additional information regarding the pipe cleaning procedures will be posted under Petition No. 1510 on the Council website.

Respectfully,



Kristen Grillo  
**Senior Permitting Specialist | East Coast Field Office**  
Customer Installations Group | North America  
(917) 803-4511  
[Kristen.Grillo@bloomenergy.com](mailto:Kristen.Grillo@bloomenergy.com)



Bloom Energy Corporation  
4353 North First Street, San Jose, CA 95134  
**408 543 1500**  
[www.bloomenergy.com](http://www.bloomenergy.com)