

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 Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

June 18, 2024

Kristen Grillo Bloom Energy Corporation 4353 North First Street San Jose, CA 95134 Kristen.Grillo@bloomenergy.com

RE: **PETITION NO. 1563** - Bloom Energy Corporation Declaratory Ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the construction, maintenance and operation of a customer-side 250-kilowatt fuel cell facility and associated equipment located at Manchester Community College, 14 Great Path, Manchester, Connecticut. **Compliance with Condition No. 6.**

Dear Kristen Grillo:

The Connecticut Siting Council (Council) is in receipt of the notification for pipe cleaning procedure dated June 18, 2024 regarding compliance with Condition No. 6 of the Council's Declaratory Ruling of May 26, 2023 for the above-referenced facility.

The Council acknowledges that the condition has been satisfied. This acknowledgment applies only to the condition satisfied by the June 18, 2024 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

MiliaBack

MAB/IN/dll



June 18th, 2024

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

RE: PETITION NO. 1563 - 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 250-kilowatt fuel cell facility and associated equipment to be located at Manchester Community College, 14 Great Path, Manchester, Connecticut.

Dear Ms. Bachman:

Per condition #6 outlined in the Siting Council's declaratory ruling letter received on May 26th, 2023, we are respectfully submitting the attached report to notify the Council of the means and methods that will be used to perform fuel pipe cleaning procedures, to be completed in accordance with Public Act 11-101.

In compliance with condition #6h, copies of this correspondence and accompanying report are being sent via electronic email to the state agencies on the attached list.

If you have any questions, concerns or require additional information, please contact me at (917) 803-4511.

Respectfully,

Kristen Grillo

Bloom Energy Corporation

Senior Permitting Specialist | East Coast Field Office

Customer Installations Group | North America

(917) 803-4511

Kristen.Grillo@bloomenergy.com





A/Z Corporation 46 Norwich Westerly Road North Stonington, Connecticut 06359 P: (800) 400-2420

F: (860) 445-3599

Project: C-P-0026 CTU007-MCC Manchester
FuelCell
14 Great Path

Manchester, Connecticut 06040

Submittal #220000-006.0 - Purge Plan 220000 - Plumbing

Revision 0

Submittal Manager E

Bill Burgon (A/Z Corporation)

Status Open

Date Created Jun 13, 2024

Issue Date Jun 13, 2024

Spec Section 220000 - Plumbing

Responsible Contractor

A/Z Mechanical

Received From Daniel Cruz (A/Z Mechanical)

Received Date

Submit By

Final Due Date Jun 17, 2024

Lead Time

Cost Code

Location

Type Document

Sub Section

Approvers

Jack Min (SK ecoplant Americas Corp)

Ball in Court

Jack Min (SK ecoplant Americas Corp)

Distribution

Description

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Jack Min		Jun 17, 2024		Pending	





Our review is for the general conformance with the design concept and contract documents. Any marking or comments must not be construed as relieving the subcontractor/supplier from compliance with the project plans and specifications nor departures there from. The subcontractor / supplier remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes for the techniques of assembly, and for performing this work in a safe manner and in accordance with all applicable codes.

Date: 06/13/2024

Reviewed By: William Burgon

Rev A

METHOD OF PROCEDURE

CTU007

RE	Building Name	CTU007 MCC Manchester/ SKEPA / BLOOM ENERGY - FUEL CELLS
	Work Site Address	14 Great Path, Manchester, CT 06040

WHEN

Work Start Date	20-Jun	Shift Start Time	7:00:00 AM
Work Complete Date	20-Jun	Shift Complete Time	3:30:00 PM

WHAT

Site ID	CTU007	Description of Work	FUEL CELL
Project Title	MCC Manchester	MOP Type	Sequence of Operation for Nitrogen Purge

WHO

					Approved or
Name	Company	Title	Function/Department	Date	Approval Not Req
Rob Kloss	A-Z Corp	Project Manager	СМ		
Bill Burgon	A-Z Corp	Project Engineer	СМ		
Daniel Cruz	A-Z Corp	Project Manager	Mechanical		
Nicholas Baldi	A-Z Corp	Project Foreman	Mechanical		
Sung Lee	SKEPA	Project Controls Manager	Remote Oversight		
Brad Park	SKEPA	Project Manager	Remote Oversight		
Jack Min	SKEPA	Engineering Manager	Remote Oversight		
Andrew Lathrop	SKEPA	Superintendent	Remote Oversight		
Richard Gregoire	Idea Engineering	Engineer	3rd Party Inspection Agenc	у	
Manchester Fire Departm	Town of Mancheste	Dispatch	Remote Oversight - In Cas	e of Emer	gency

DOC- 1010418 Rev A	CTU007 MCC Manchester / SKEPA / BLOOM ENERGY - FUEL CEL	LS	
C-P-0026	CTU007 (14 Great Path, Manchester, CT 06040)		
SECT.			·
1	Planning Tasks		
2	Shutdown Tasks		

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Critical Step? (*)	Step No	Procedure / Task	Responsible Parties	Planned Start Date	Time	Initial Here
		PLANNING TASKS				
	1	Review the Bloom Energy N2 Commissioning requirements and the CSC Letter Dated 5/26/23 and make provisions to complete all required work needed to safely purge and energize the new gas piping installation.	A/Z Corp/Bloom Energy/SKEPA	6/13/2024	N/A	
	2	Verify fuel plumbing has been pressure tested for leaks by the final inspections complete prior to executing this MOP	A/Z Corp	6/13/2024	N/A	
	3	Per CSC Letter Item#6a Compressed Nitrogen will be the identified cleaning media for the fuel cell new piping installation.	A/Z Corp	6/13/2024	N/A	
	4	Verify Tools are available: Gas Meter Detector RKI-GX2012, Adjustable Pipe Wrenches, Caution Tape, Fire Extinguisher (2A or better), Nitrogen Bottle with Pressure Regulator and Certified Gauges	A/Z Corp	6/20/2024	7am	
	5	Required PPE: Safety Glasses, Gloves Lvl4 cut resistant, Hard Hat, High Visibility Clothing, Steel Toe or Composite Work Boots with safety toe protection	A/Z Corp	6/20/2024	N/A	
	6	Per CSC Letter Item#6b Identify Known Hazards of Compressed Nitrogen are as follows: Contains Gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation	A/Z Corp	6/13/2024	N/A	
	7	Per CSC Letter Item#6c Description of how known hazards will be mitigated: A/Z will perform operation in outdoor area away from mechanical intakes or building openings. Compressed Nitrogen tanks will be stored out of direct sunlight, upright and secured to prevent tank from being susceptible to extreme temperatures above 52 deg C/ 125deg F.	A/Z Corp	6/13/2024	N/A	
	8	Per CSC Letter Item#6d A/Z jobsite foreman and any other affected employees conducting work shall conduct a site specific safety meeting with the Compressed Nitrogen material SDS sheet regards to safe working methods. All work to conform to the requirements set forth in the NFPA 54 1213.0 Pressure Testing, Inspection, and Purging.	A/Z Corp	6/20/2024	7am	
	9	Per CSC Letter Item#6f A/Z Corporation will be performing the Nitrogen Media Purge as the project Plumbing Contractor approved by the State of CT.	A/Z Corp/SKEPA	6/20/2024	N/A	
	10	Per CSC Letter Item#6g - Notify 3rd Party Inspection Agency to schedule witness inspection for Fuel Pipe Cleaning. Agency will be Idea Engineering, Inc 612 Wheelers Farms Rd 1st Flr. Milford, CT 06461	A/Z Corp/Bloom Energy/SKEPA	6/13/2024	N/A	
	11	Per CSC Letter Item#6h - Review MOP with SKEPA and Bloom Energy. If approved, SKEPA to submit notice to CSC of purging clean new gas piping.	A/Z Corp/Bloom Energy/SKEPA	6/13/2024	N/A	

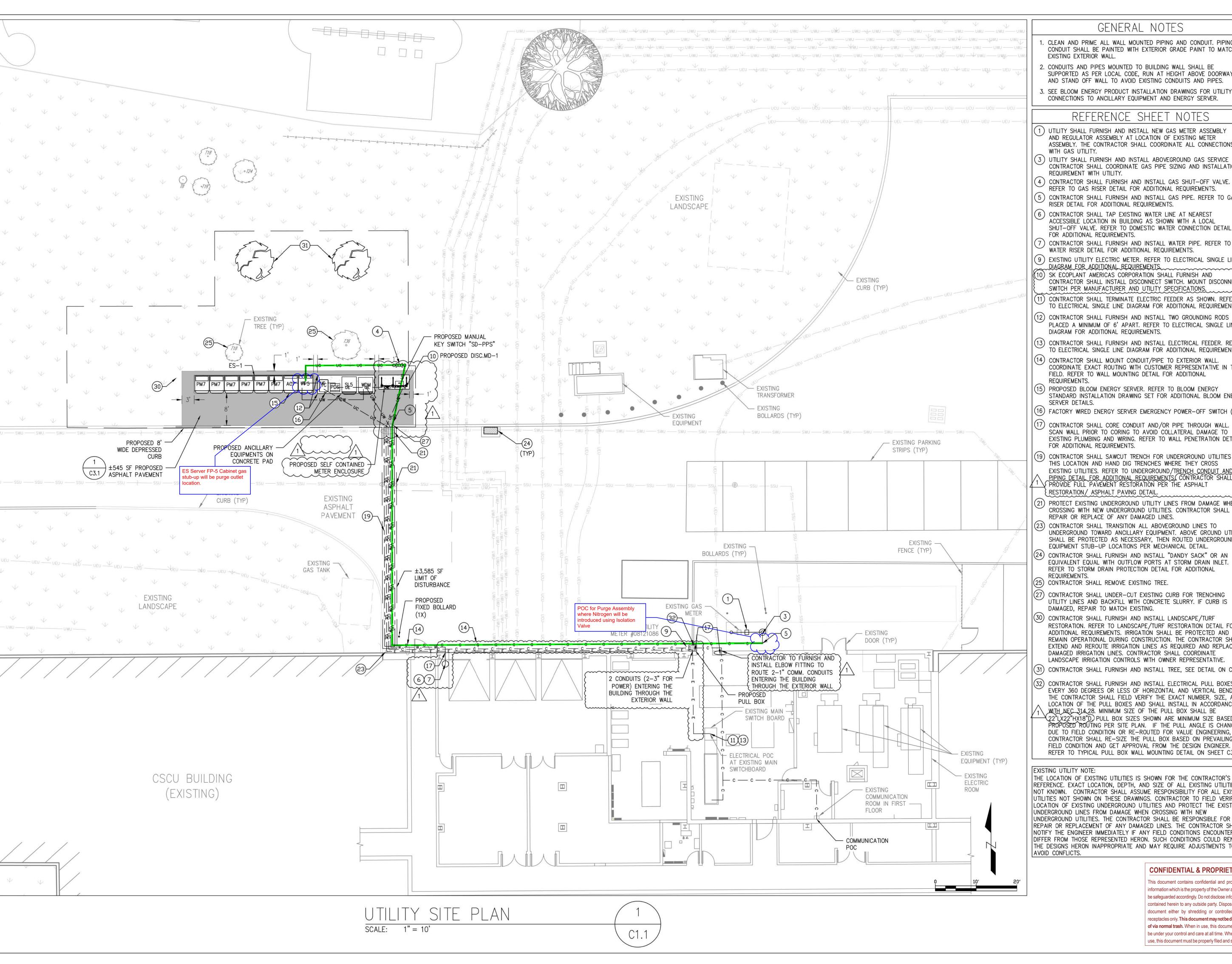
12	Field Coordination: Setup Barricades with caution tape and or cones within a 10ft radius around the point of discharge. Ensure no open flame within 50ft of equipment. Make sure Fire Extinguisher is within reach less than 50ft from discharge area. Confirm all Valves are in the closed position at all fuel stubups and meter. Notify Fire Department Dispatch	A/Z Corp	6/13/2024	7am 7am	
	SHUTDOWN TASKS				
1	Per CSC Letter Item# 6e - Gather A-Z Team Together for Stand-Down to Discuss MOP and Go Over Any Questions/Concerns. Persons not involved in the purging operations shall be evacuated from all areas within 10ft of point of discharge	All Teams	6/20/2024	7am	
2	Purge Open End of piping with Compressed Nitrogen using a pressure regulator with certified gauge rated for 60psi and controlled shutoff valve. Starting Point will be at Gas Meter POC and piping will be valved off at the ES module. (See drawing)	A/Z Corp/Bloom Energy	6/20/2024	8:00am	
3	The point of discharge shall be located at least 10ft away from sources of igntion, building openings, and 25ft from mechanical intake openings. (See Drawing) Compressed Nitrogen will be purged at 60psi for 60 seconds approximately 6 times at the single (1) outlet location noted on the plan. (See Drawing).	A/Z Corp/Bloom Energy/3rd Party Inspector	6/20/2024	8:00am	
4	Close System Open End shutoff valve for purging and make connections to Bloom Fuel Cell Equipment.	A/Z Corp/Bloom Energy	6/20/2024	10:00am	
5					
6					
7					
8					
9					

	Contingency Plan
Concern	In case of a emergency
Response	Contact the Fire Department
Concern	
Response	
Concern	
Response	
Concern	
Response	
Concern	
Response	
Concern	
Response	
Concern	
Response	

DOC-1010418 Rev A

PROJECT CONTACTS LIST

Name	Company	Title	Function/Department	Email	Phone
Robert Kloss	A-Z Corp	Project Manager	СМ	rkloss@a-zcorp.com	860-949-9734
Bill Burgon	A-Z Corp	Site Superitendant	СМ	bburgon@a-zcorp.com	860-917-5297
Daniel Cruz	A-Z Corp	Project Manager	Mechanical	dcruz@a-zcorp.com	860-235-3945
Nicholas Baldi	A-Z Corp	Project Foreman	Mechanical	nb4433@a-zcorp.com	860-867-0893
Sung Lee	SKEPA	Project Controls Manager	Remote Oversight	sunglee@sk.com	213-712-6094
Brad Park	SKEPA	Project Manager	Remote Oversight	brad_park@sk.com	408-784-9265
Jack Min	SKEPA	Engineering Manager	Remote Oversight	jackmin@sk.com	201-716-9502
Andrew Lathrop	SKEPA	Superintendent	Remote Oversight	andrew lathrop@sk.com	917-239-2275
Richard Gregoire	Idea Engineering, Inc.	Engineer	3rd Party Inspection Agency	richard.gregoire@ideas4eng.com	203-500-1743
Manchester Fire Deparment	Town of Manchester	Admin/Dispatch	Oversight	firemarshal@manchesterct.gov	860-533-8625



GENERAL NOTES

- CLEAN AND PRIME ALL WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING EXTERIOR WALL.
- 2. CONDUITS AND PIPES MOUNTED TO BUILDING WALL SHALL BE SUPPORTED AS PER LOCAL CODE, RUN AT HEIGHT ABOVE DOORWAYS, AND STAND OFF WALL TO AVOID EXISTING CONDUITS AND PIPES.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

REFERENCE SHEET NOTES

- (1) UTILITY SHALL FURNISH AND INSTALL NEW GAS METER ASSEMBLY AND REGULATOR ASSEMBLY AT LOCATION OF EXISTING METER ASSEMBLY. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- (3) UTILITY SHALL FURNISH AND INSTALL ABOVEGROUND GAS SERVICE TAP. CONTRACTOR SHALL COORDINATE GAS PIPE SIZING AND INSTALLATION REQUIREMENT WITH UTILITY.
- (4) CONTRACTOR SHALL FURNISH AND INSTALL GAS SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- (5) CONTRACTOR SHALL FURNISH AND INSTALL GAS PIPE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- (6) CONTRACTOR SHALL TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION IN BUILDING AS SHOWN WITH A LOCAL SHUT-OFF VALVE. REFER TO DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- (7) CONTRACTOR SHALL FURNISH AND INSTALL WATER PIPE. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- (9) EXISTING UTILITY ELECTRIC METER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- (10) SK ECOPLANT AMERICAS CORPORATION SHALL FURNISH AND CONTRACTOR SHALL INSTALL DISCONNECT SWITCH. MOUNT DISCONNECTS SWITCH PER MANUFACTURER AND UTILITY SPECIFICATIONS
-) CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER/ TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- (12) CONTRACTOR SHALL FURNISH AND INSTALL TWO GROUNDING RODS PLACED A MINIMUM OF 6' APART. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- (13) CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL FEEDER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- (14) CONTRACTOR SHALL MOUNT CONDUIT/PIPE TO EXTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
- (15) PROPOSED BLOOM ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY
- SERVER DETAILS. (16) FACTORY WIRED ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
- (17) CONTRACTOR SHALL CORE CONDUIT AND/OR PIPE THROUGH WALL. SCAN WALL PRIOR TO CORING TO AVOID COLLATERAL DAMAGE TO EXISTING PLUMBING AND WIRING. REFER TO WALL PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- (19) CONTRACTOR SHALL SAWCUT TRENCH FOR UNDERGROUND UTILITIES IN THIS LOCATION AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH_CONDUIT_AND
- PROVIDE FULL PAVEMENT RESTORATION PER THE ASPHALT RESTORATION / ASPHALT PAVING DETAIL
- REPAIR OR REPLACE OF ANY DAMAGED LINES. (23) CONTRACTOR SHALL TRANSITION ALL ABOVEGROUND LINES TO UNDERGROUND TOWARD ANCILLARY EQUIPMENT. ABOVE GROUND UTILITIES SHALL BE PROTECTED AS NECESSARY, THEN ROUTED UNDERGROUND TO
- EQUIPMENT STUB-UP LOCATIONS PER MECHANICAL DETAIL. (24) CONTRACTOR SHALL FURNISH AND INSTALL "DANDY SACK" OR AN EQUIVALENT EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO STORM DRAIN PROTECTION DETAIL FOR ADDITIONAL
- REQUIREMENTS. (25) CONTRACTOR SHALL REMOVE EXISTING TREE.
- (27) CONTRACTOR SHALL UNDER—CUT EXISTING CURB FOR TRENCHING UTILITY LINES AND BACKFILL WITH CONCRETE SLURRY. IF CURB IS DAMAGED, REPAIR TO MATCH EXISTING.
- (30) CONTRACTOR SHALL FURNISH AND INSTALL LANDSCAPE/TURF RESTORATION. REFER TO LANDSCAPE/TURF RESTORATION DETAIL FOR ADDITIONAL REQUIREMENTS. IRRIGATION SHALL BE PROTECTED AND REMAIN OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL EXTEND AND REROUTE IRRIGATION LINES AS REQUIRED AND REPLACE DAMAGED IRRIGATION LINES. CONTRACTOR SHALL COORDINATE LANDSCAPE IRRIGATION CONTROLS WITH OWNER REPRESENTATIVE.
- (31) CONTRACTOR SHALL FURNISH AND INSTALL TREE, SEE DETAIL ON C3.2.
- (32) CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL PULL BOXES EVERY 360 DEGREES OR LESS OF HORIZONTAL AND VERTICAL BENDS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT NUMBER, SIZE, AND LOCATION OF THE PULL BOXES AND SHALL INSTALL IN ACCORDANCE WITH NEC 314 28. MINIMUM SIZE OF THE PULL BOX SHALL BE
- (22"LX22"HX18"D)PULL BOX SIZES SHOWN ARE MINIMUM SIZE BASED ON PROPOSED ROUTING PER SITE PLAN. IF THE PULL ANGLE IS CHANGED DUE TO FIELD CONDITION OR RE-ROUTED FOR VALUE ENGINEERING, THE CONTRACTOR SHALL RE-SIZE THE PULL BOX BASED ON PREVAILING FIELD CONDITION AND GET APPROVAL FROM THE DESIGN ENGINEER. REFER TO TYPICAL PULL BOX WALL MOUNTING DETAIL ON SHEET C3.3.

EXISTING UTILITY NOTE: THE LOCATION OF EXISTING UTILITIES IS SHOWN FOR THE CONTRACTOR'S REFERENCE. EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES IS NOT KNOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROTECT THE EXISTING UNDERGROUND LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HERON. SUCH CONDITIONS COULD RENDER THE DESIGNS HERON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO

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Bloomenergy

4353 N. FIRST STREET SAN JOSE, CA 95134 t: (408) 543-1500

ENGINEER OF RECORD CARSON TURNER, P.E. LICENSE # 22700



Digitally signed by Carson Turner Carson Turner DN: CN=Carson

Date: 2024.05.17 11:15:18-07'00'

CUSTOMER SITE

MANCHESTER COMMUNITY COLLEGE 14 GREAT PATH MANCHESTER, CT 06040



REV	ISSUE PURPOSE	DATE
OA	INITIAL RELEASE	11/17/2023
1 REVISED FOR IFC		04/12/2024

DESIGNED BY	REVIEWED BY
SCOTT BARD	KATE TAYLOR
DRAWN BY	APPROVED BY
LAKSHMI SRINIVAS	CARSON TURNER
	M-

SHEET TITLE

DETAILED SITE PLAN

DRAWING NUMBER

BLOOM ENERGY DOCUMENT NUMBER

THIS DRAWING IS 24" X 36" AT FULL SIZE SITE ID: CTU007.0 SHEET 04 OF 16



Gas System Commissioning – N2

DOC-1010208 Revision A

Estimated Evolution Time: 2 hrs Number of Personnel: 2 Total

1 Inlet Attendant & 1 Discharge Attendant

Company Confidential 1 of 14



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:
 - o 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

Company Confidential



Preliminary Requirements

Required Safety Trainings

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



Section A: Nitrogen Purge of Construction Plumbing

- 1. Site Setup
 - 1.1. Ensure all customer protocols are met and scheduled accordingly1.1.1. 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 the 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.

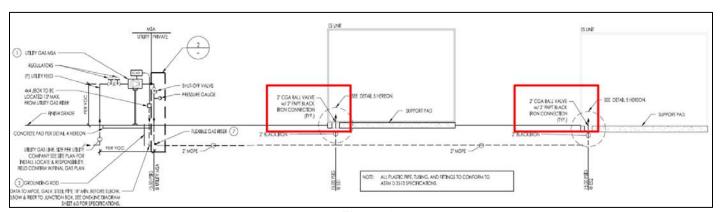


Figure 1

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- 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.

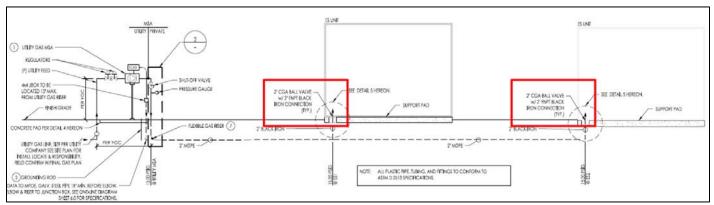


Figure 2

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

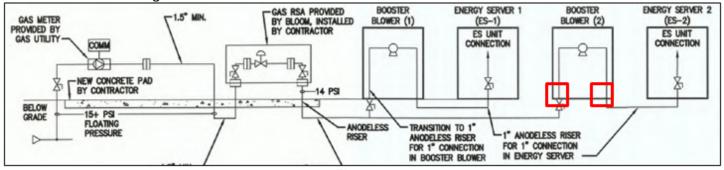


Figure 3

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- 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

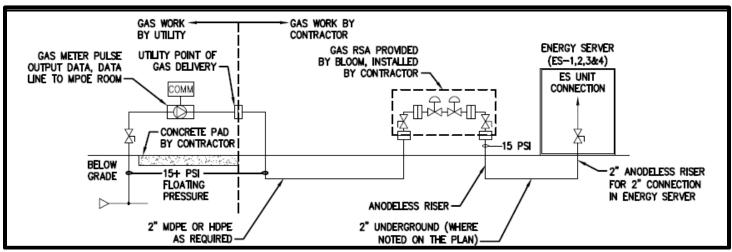


Figure 4

- 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.

Company Confidential 6 of 14



- 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.

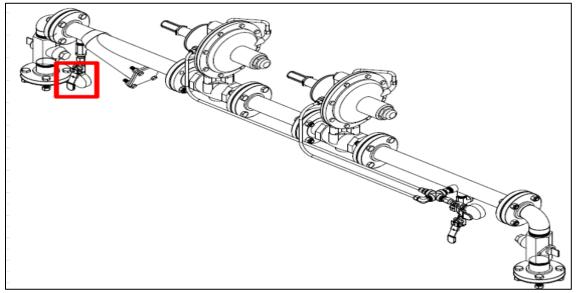


Figure 10

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- 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.

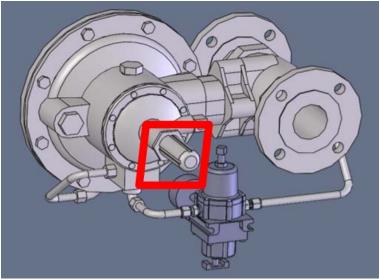


Figure 11

- 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

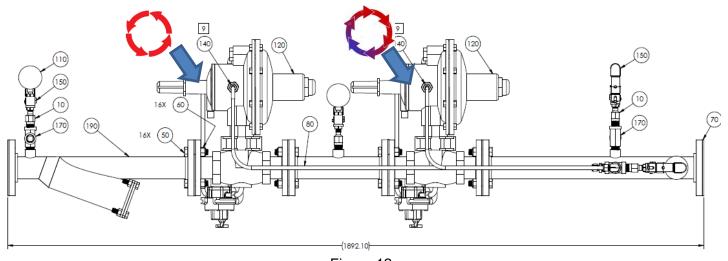


Figure 12

Company Confidential 9 of 14



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.

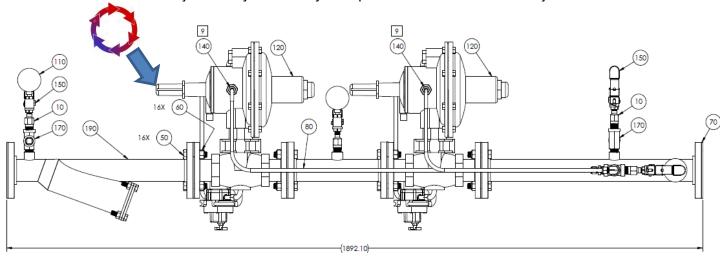


Figure 14

Company Confidential 10 of 14



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.

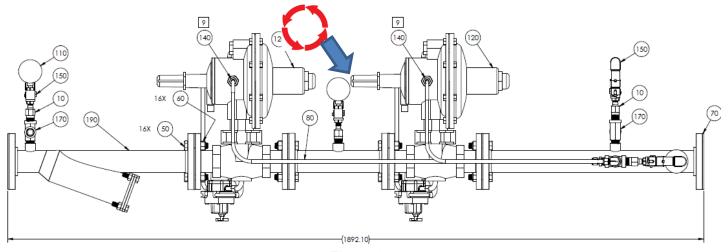


Figure 15

- 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.



- 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

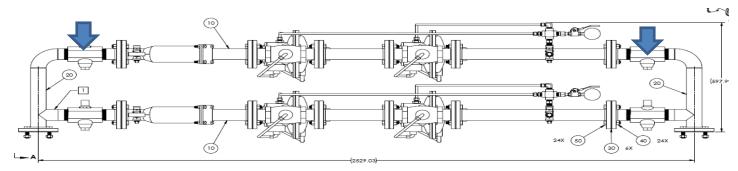


Figure 16

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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

Company Confidential 13 of 14



Version History

Revision	evision Date Process Owner		Change Description	Training Required		
Α		Andy Blakeslee	Initial Release	Yes	⊠ No	
Α	4/27/17	Shane Peters	Reformatted into Standard Template, suggested edits	Yes	☐ No	
Α	6/8/17	Shane Peters	Thomas Sipe updates, with Shane's reformatting.	Yes	☐ No	
Α	2/20/18	Thomas Sipe	Split CDA, N2 and Moisture Sample	⊠ Yes	☐ No	
				Yes	☐ No	

Electronic Signature approvals are on file in Agile.



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 Web Site: portal.ct.gov/csc

VIA ELECTRONIC & CERTIFIED MAIL RETURN RECEIPT REQUESTED

May 26, 2023

Kristen Grillo Bloom Energy Corporation 4353 North First Street San Jose, CA 95134 Kristen.Grillo@bloomenergy.com

RE: **PETITION NO. 1563** - 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 250-kilowatt fuel cell facility and associated equipment to be located at Manchester Community College, 14 Great Path, Manchester, Connecticut.

Dear Kristen Grillo:

At a public meeting held on May 25, 2023, 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 the following conditions:

- 1. Approval of any Project changes be delegated to Council staff;
- 2. Provide a copy of the Fuel Cell Emergency Response Plan to local emergency responders prior to facility operation and provide emergency response training that includes an itemized list of necessary fire suppression equipment;
- 3. Submit a Landscaping Plan to the Council for the replacement of two trees prior to the commencement of construction;
- 4. The use of natural gas as a fuel system cleaning medium during fuel cell construction, installation or modification shall be prohibited;
- 5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
- 6. Submit the following information to the Council 15 days prior to any fuel pipe cleaning operations related to fuel cell construction, installation, or modification:
 - a. Identification of the cleaning media to be used;
 - b. Identification of any known hazards through use of the selected cleaning media;
 - 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:
 - d. Identification and description of accepted industry practices or relevant regulations concerning the proper use of such media;

- 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;
- 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;
- 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
- 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;
- 7. Compliance with the following codes and standards during fuel cell construction, installation or modification, as applicable:
 - a. NFPA 54
 - b. NFPA 853; and
 - c. ASME B31;
- 8. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
- 9. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of Manchester;
- 10. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed **along with a representative photograph of the facility**;
- 11. The facility owner/operator shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v; and
- 12. This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility, including contact information for the individual acting on behalf of the transferee.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated March 17, 2023, and additional information dated April 27, 2023, and in compliance with Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission.

Enclosed for your information is a copy of the staff report on this project.

Sincerely,

Melanie A. Bachman Executive Director

Melineshal

MAB/IN/laf

Enclosure: Staff Report dated May 25, 2023

c: The Honorable Jay Moran, Mayor, Town of Manchester (jmoran@manchesterct.gov)
Steve Stephanou, Town Manager, Town of Manchester (sstephanou@manchesterct.gov)
David Mauldin, Fire Marshal, Town of Manchester (FireMarshal@manchesterct.gov)
The Honorable Michael P. Walsh, Mayor, Town of East Hartford (mwalsh@easthartfordct.gov)

Issue Date 07-Apr-2017 Revision Date 27-Sep-2021 , Version 1.3

NITROGEN, COMPRESSED

Safety Data Sheet



1. IDENTIFICATION

Product identifier

Product Name NITROGEN, COMPRESSED

Other means of identification

Safety data sheet number LIND-P086 UN/ID no. UN1066

Trade name Lasline N2 4.8; Lasline N2 5.0; Gourmet N; Grade 6.0, VOC Free, Emission Grade, Zero

0.2

Recommended use of the chemical and restrictions on use

Recommended Use Industrial and professional use. Food and Beverage. Calibration/test gas.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Messer Canada Inc. 5860 Chedworth Way

Mississauga, Ontario L5R 0A2

Phone: 905-501-2500

Email: service@messer-ca.com Website: www.messer-ca.com

Customer Service: 888-256-7359

Emergency telephone number

Company Phone Number +1 905-501-0802

FOR TRANSPORTATION EMERGENCIES ONLY: CANUTEC +1 613-996-6666 OR +1-888-226-8832

2. HAZARDS IDENTIFICATION

Gases under pressure	Compressed gas
Simple asphyxiants	Yes / Category 1

Label elements



Signal word Warning

Hazard Statements

Contains gas under pressure; may explode if heated May displace oxygen and cause rapid suffocation

Revision Date 27-Sep-2021

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Use and store only outdoors or in a well ventilated place Use a backflow preventive device in piping Use only with equipment rated for cylinder pressure Close valve after each use and when empty

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention/advice.

Precautionary Statements - Storage

Protect from sunlight when ambient temperature exceeds 52°C/125°F

Hazards not otherwise classified (HNOC)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure Gas

Chemical Name	Common names/synonyms	CAS No.	Volume %	Chemical Formula
NITROGEN	Not available	7727-37-9	>99	N ₂

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen.

If breathing has stopped, give artificial respiration. Get medical attention immediately.

Skin contact None under normal use. Get medical attention if symptoms occur.

Eye contact None under normal use. Get medical attention if symptoms occur.

Ingestion Not an expected route of exposure.

Self-protection of the first aider RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING

APPARATUS.

Most important symptoms and effects, both acute and delayed

Symptoms Simple asphyxiant. May cause suffocation by displacing the oxygen in the air. Exposure to

oxygen-deficient atmosphere (<19.5%) may cause dizziness, drowsiness, nausea,

vomiting, excess salivation, diminished mental alertness, loss of consciousness and death.

Exposure to atmospheres containing 8-10% or less oxygen will bring about

unconsciousness without warning and so quickly that the individuals cannot help or protect

themselves. Lack of sufficient oxygen may cause serious injury or death.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None.

Specific extinguishing methods

Continue to cool fire exposed cylinders until flames are extinguished. Damaged cylinders should be handled only by specialists.

Specific hazards arising from the chemical

Non-flammable gas. Cylinders may rupture under extreme heat.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Monitor oxygen level. Wear self-contained breathing apparatus when entering area

unless atmosphere is proved to be safe.

Environmental precautions

Environmental precautions Prevent spreading of vapors through sewers, ventilation systems and confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop the flow of gas or remove cylinder to outdoor location if this can be done without risk.

If leak is in container or container valve, contact the appropriate emergency telephone

number in Section 1 or call your closest Messer location.

Methods for cleaning up Return cylinder to Messer or an authorized distributor.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distance, use a cart designed to transport cylinders. Never attempt to lift a cylinder by its valve protection cap. Never insert an object (e.g. wrench, screwdriver, pry bar,etc.) into valve cap openings. Doing so may damage valve, causing leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Use only with adequate ventilation. Use a backflow preventive device in piping. Close valve after each use and when empty. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Ensure the complete gas system has been checked for leaks before use.

Never put cylinders into trunks of cars or unventilated areas of passenger vehicles. Never attempt to refill a compressed gas cylinder without the owner's written consent. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.

Only experienced and properly instructed persons should handle gases under pressure. Always store and handle compressed gas cylinders in accordance with Compressed Gas Association publication CGA-P1, Safe Handling of Compressed Gases in Containers. Use only with equipment rated for cylinder pressure.

For additional recommendations consult CGA P-76 Hazards of Oxygen-Deficient Atmospheres.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in cool, dry, well-ventilated area of non-combustible construction away from heavily

> trafficked areas and emergency exits. Keep at temperatures below 52°C / 125°F. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling. Full and empty cylinders should be segregrated. Use a "first in-first out" inventory system to prevent full cylinders from being stored for excessive periods of time. Stored

containers should be periodically checked for general condition and leakage.

Incompatible materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
NITROGEN	: See Appendix F: Minimal	None	None
7727-37-9	Oxygen Content		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Provide general ventilation, local exhaust ventilation, process enclosure or other **Engineering Controls**

engineering controls to maintain airborne levels below recommended exposure limits and to maintain oxygen levels above 19.5%. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Work gloves and safety shoes are recommended when handling cylinders. Skin and body protection

Use positive pressure airline respirator with escape cylinder or self contained breathing Respiratory protection

apparatus for oxygen-deficient atmospheres (<19.5%).

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Gas Physical state **Appearance** Colorless Odor Odorless **Odor threshold** Not applicable Not applicable Hq Melting/freezing point Not applicable -196 °C / -321 °F Boiling point / boiling range Not applicable **Evaporation rate** Non-flammable gas Flammability (solid, gas) Lower flammability limit: Not applicable **Upper flammability limit:** Not applicable Flash point Not applicable Not available

Autoignition temperature

Revision Date 27-Sep-2021

Decomposition temperatureNot availableWater solubilitySlightly solublePartition coefficientNot availableKinematic viscosityNot applicable

Component Level Information:

Chemical Name	Molecular weight	Boiling point/range	Vapor Pressure	Vapor density (air =1)	Gas Density kg/m³@20°C	Critical Temperature
NITROGEN	28.01	-196 °C	Above critical temperature	0.97	1.153	-146.9 °C

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None under recommended storage and handling conditions (see Section 7).

Incompatible materials

None known.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Product is a simple asphyxiant.

Skin contact Not available

Eye contact Not available

Ingestion Not an expected route of exposure.

Information on toxicological effects

Symptoms Simple asphyxiant. May cause suffocation by displacing the oxygen in the air. Exposure to

oxygen-deficient atmosphere (<=19.5%) may cause dizziness, drowsiness, nausea, vomiting, excess salivation, diminished mental alertness, loss of consciousness and death.

Exposure to atmospheres containing 8-10% or less oxygen will bring about

unconsciousness without warning and so quickly that the individuals cannot help or protect

themselves. Lack of sufficient oxygen may cause serious injury or death.

Revision Date 27-Sep-2021

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Serious eye damage/eye irritation
Irritation
Sensitization
Germ cell mutagenicity

Not classified.
Not classified.
Not classified.
Not classified.
Not classified.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens listed by OSHA,

Reproductive toxicity
Developmental Toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Aspiration hazard

Not classified.
Not classified.
None known.
Not applicable.

Numerical measures of toxicity

Product Information

Oral LD50Not availableDermal LD50Not availableInhalation LC50Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known effect.

Persistence and degradability

Not applicable.

Bioaccumulation

No known effect.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDo not attempt to dispose of residual waste or unused quantities. Return in the shipping

container PROPERLY LABELED WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Messer for proper disposal.

14. TRANSPORT INFORMATION

<u>TDG</u>

UN/ID no. UN1066

Proper shipping name Nitrogen, compressed

Hazard Class 2.2

Description UN1066, Nitrogen, compressed, 2.2

<u>IATA</u>

UN/ID no. UN1066

Proper shipping name Nitrogen, compressed

Hazard Class 2.2 ERG Code 2L Special Provisions A69

LIND-P086 NITROGEN, COMPRESSED

Revision Date 27-Sep-2021

IMDG

UN/ID no. UN1066

Proper shipping name Nitrogen, compressed

Hazard Class 2.2 EmS-No. F-C, S-V

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

16. OTHER INFORMATION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical Proporties Simple

Properties Simple

asphyxiant

Note: Ratings were assigned in accordance with Compressed Gas Association (CGA) guidelines as published in CGA Pamphlet P-19-2019, CGA Recommended Hazard Ratings for Compressed Gases, 4th Edition.

Issue Date 07-Apr-2017 Revision Date 27-Sep-2021

Revision Note: SDS sections updated; 3

LIND-P086

General Disclaimer

For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between Messer LLC, Messer Merchant Production LLC, Messer North America, Inc., Messer Gas Puerto Rico, Inc. or Messer Canada Inc. (or any of their affiliates and subsidiaries) and the purchaser.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

End of Safety Data Sheet

Kristen Grillo

From: Kristen Grillo

Sent: Tuesday, June 18, 2024 11:27 AM

To: attorney.general@ct.gov; Katie.dykes@ct.gov; marissa.gillett@ct.gov;

dph.commissioner@ct.gov; paul.aresta@ct.gov; Bryan.Hurlburt@ct.gov; j.beckham@ct.gov; garrett.eucalitto@ct.gov; daniel.okeefe@ct.gov; brenda.bergeron@ct.gov; bryan.cafferelli@ct.gov; cindy.rusczyk@ct.gov;

dante.bartolomeo@ct.gov

Subject: CT Siting Council Petition No. 1563 - Notification of Fuel Cell Pipe Cleaning Procedures -

Manchester Community College, 14 Great Path, Manchester, Connecticut

RE: **PETITION NO. 1563** - 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 250-kilowatt fuel cell facility and associated equipment to be located

at Manchester Community College, 14 Great Path, Manchester, Connecticut.

Dear Ladies and Gentlemen:

At a public meeting held on May 25th, 2023, the Connecticut Siting Council (Council) considered and ruled that the above-referenced petition 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 required to provide notice 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 regarding any fuel pipe cleaning operations related to our fuel cell installation. Employees of Bloom Energy will oversee and perform the procedures detailed in their "Gas System Commissioning" procedure. Bloom Energy has safely commissioned over hundreds of fuel cell installation projects in California, New York, New Jersey, Massachusetts, Maryland, Delaware and Connecticut. During fuel pipe cleaning operations, Richard Gregoire, a Connecticut State licensed 3rd party special inspection agent, will be present to witness the work.

Additional information regarding the pipe cleaning procedures will be posted under PE1563 on the Council website. If you should have any questions or concerns, please do not hesitate to contact me. Thank you for your time.

Respectfully,



Kristen Grillo

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

Kristen.Grillo@bloomenergy.com

Bloom Energy Corporation HQ 4353 North First Street, San Jose, CA 95134 (408) 543-1500

www.bloomenergy.com

OFFICIALS

Name	Title	Mailing Address	Town	State	Zip
William Tong	Attorney General	165 Capitol Ave. (email: attorney.general@ct.gov)	Hartford	CT	06106
Katie Dykes	Commissioner, Dept. of Energy and	79 Elm St.	Hartford	СТ	06106-5127
katie.dykes@ct.gov	Environmental Protection				
Marissa Gillett	Chairman, Public Utilities Regulatory	10 Franklin Square	New Britain	СТ	06051
marissa.gillett@ct.gov	Authority				
Manisha Juthani, M.D.	Commissioner, Dept. of Public Health	410 Capitol Ave. (email: dph.commissioner@ct.gov)	Hartford	СТ	06134
Paul Aresta	Director, Council on Environmental Quality	79 Elm St. (email: paul.aresta@ct.gov)	Hartford	СТ	06106
Bryan P. Hurlburt	Commissioner, Dept. of Agriculture (e: bryan.hurlburt@ct.gov	450 Columbus Blvd., Suite 701	Hartford	СТ	06103
Jeffrey R. Beckham	Secretary, Office of Policy and Management	450 Capitol Ave. (email: j.beckham@ct.gov)	Hartford	СТ	06106
Garrett Eucalitto	Commissioner, Dept. of Transportation	2800 Berlin Tpke. (garrett.eucalitto@ct.gov)	Newington	СТ	06111
Daniel. O'Keefe	Commissioner, Dept. of Economic and	450 Columbus Blvd.	Hartford	СТ	06103
Daniel.OKeefe@ct.gov	Community Development				
Brenda Bergeron	Deputy Commissioner, Div. of Emergency	1111 Country Club Rd.	Middletown	СТ	06457
brenda.bergeron@ct.gov	Management and Homeland Security				
Bryan T. Cafferelli	Commissioner, Dept. of Consumer	450 Columbus Blvd., Suite 901	Hartford	СТ	06103
bryan.cafferelli@ct.gov	Protection				
Michelle Gilman	Commissioner, Dept. of Administrative	450 Columbus Blvd.	Hartford	СТ	06103
cindy.rusczyk@ct.gov	Services				
Danté Bartolomeo	Commissioner, Dept. of Labor	200 Folly Brook Blvd. (email: dante.bartolomeo@ct.gov)	Wethersfield	CT	06109