What Powers You

March 21, 2022

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

RE: Petition of Bloom Energy Corporation for a Declaratory Ruling for the Location and Construction of a 2,000-Kilowatt Fuel Cell Customer-Side Distributed Resource at Americold, 24 Northwest Drive, Plainville, Connecticut

Dear Attorney Bachman:

We are submitting an original and fifteen (15) copies of the above-captioned Petition, together with the filing fee of $625.

In the Petition, Bloom Energy Corporation ("Bloom") requests the Connecticut Siting Council approve the construction and operation of a 2,000-kilowatt fuel cell and associated equipment at the Americold facility under construction in Plainville, Connecticut (the "Facility"). The Facility will be installed at 24 Northwest Drive (the "Site"). Electricity generated by the Facility will benefit Americold's operation. The Facility will be fueled by natural gas.

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

Sincerely,
Bloom Energy

Kristen Grillo
kristen.grillo@bloomenergy.com
(917) 803-4511

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

PETITION OF BLOOM ENERGY CORPORATION FOR A DECLARATORY RULING FOR THE LOCATION AND CONSTRUCTION OF A 2,000-KILOWATT FUEL CELL CUSTOMER-SIDE DISTRIBUTED RESOURCE AT AMERICOLD, 24 NORTHWEST DRIVE, PLAINVILLE, CT	:	PETITION NO. ____
	:	MARCH 21, 2022

PETITION OF BLOOM ENERGY CORPORATION
FOR A DECLARATORY RULING

I. INTRODUCTION

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 et seq., Bloom Energy Corporation ("Bloom") requests that the Connecticut Siting Council ("Council") approve by declaratory ruling the location and construction of a customer-side distributed resources project at the Americold Logistics LLC ("Americold") warehouse at 24 Northwest Drive, Plainville, Connecticut (the "Site"). Bloom will install a fuel cell consisting of seven (7) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the "Facility") that will provide a total of 2,000 kilowatts ("kW") (net) of power to the Site. *See* Exhibits 1 and 3. The Facility will be installed, maintained and operated by Bloom under a 6-year managed services agreement with Americold.

Conn. Gen. Stat. § 16-50k(a) provides that:

> Notwithstanding the provisions of this chapter or title 16a, the council shall, in the exercise of its jurisdiction over the siting of generating facilities, approve by declaratory ruling ... (B) the construction or location of any fuel cell, unless the council finds a substantial adverse environmental effect, or of any customer-side distributed resources project or facility ... with a capacity of not more than sixty-five megawatts, as long as such project meets air and water quality standards of the Department of Energy and Environmental Projection….

The proposed fuel cell will be a customer-side distributed resources facility under 65 MW that complies with the air and water quality standards of the State of Connecticut Department of Energy and Environmental Projection ("DEEP"). Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Site or in the State of Connecticut.

II. COMMUNICATIONS

Correspondence and other communication regarding this petition should be directed to the following parties:

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (917) 803-4511
Fax: (408) 543-1501
Email: Kristen.Grillo@bloomenergy.com

Nedal Sumrein
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (408) 543-1500
Fax: (408) 543-1501
Email: Nedal.Sumrein@bloomenergy.com

III. DISCUSSION

A. The Facility

The Facility will be a 2,000-kW customer-side distributed resource consisting of seven (7) Bloom solid oxide fuel cell Energy Servers, five (5) model ES5-YASAAC and two (2) model ES5-EAXAAC, and associated equipment. As shown on Exhibits 2 and 3, the fuel cell and associated equipment (utility cabinets, water deionizers, telemetry cabinets, and disconnect switches) will be installed at the northeast corner of the Americold refrigerated warehouse under development at the Site.

Connections to existing electric and telco utilities will extend underground to a main breaker switchboard on the northern side of the building, then overhead to electrical and telco utilities within the building. The Facility's water connection will be underground, west of the

proposed installation. The Facility will be fueled by natural gas supplied by Yankee Gas from a gas main on Northwest Drive. Exhibits 1 and 2 depict the Facility location; Exhibit 3 contains plans; Exhibit 4 contains photographs and equipment specifications.

Bloom has sized the system at 2,000 KW based on consultation with Americold representatives and analysis of Americold's projected operational needs. The system will function as a micro-grid. Approximately 1.4 MW of the capacity is allocated to serve the large refrigeration load with uninterrupted power; the remainder is expected to be consumed for Americold's related operations. *See* Exhibit 4.

The operational life of the Facility is for the life of the 6-year contract with Americold. At the conclusion of the 6-year contract, Americold may renew the contract, return the Facility at no cost, or buy the Facility at a fair market value.

The interconnection application for the Facility was filed with Eversource in January 2022; approval is anticipated in June 2022.

B. Public Health and Safety

The Facility will be installed in compliance with applicable building, plumbing, electrical, and fire codes. The Facility is enclosed, factory-assembled and tested prior to installation on the Site. Solid oxide media in the fuel cells are exchanged at roughly five-year intervals. Extensive hardware, software and operator safety control systems are utilized, and will be controlled from a Bloom Energy Remote Monitoring Control Center ("RMCC"). Internal sensors continuously monitor system operation and provide for system components to shut down if safety circuits detect a condition outside normal operating parameters; the RMCC operator can initiate an emergency shutdown if warranted. Bloom will provide Town of Plainville ("Town") Fire Department personnel and Americold operations/emergency personnel with an Emergency Response Plan and offer to provide training. Exhibit 6.

The Facility will be installed in accordance with NFPA 853[1]. The Facility does not burn natural gas; it is used in a chemical reaction to generate electricity, and is digested almost immediately upon entering the unit and is no longer combustible. Before commissioning, the fuel lines (pipes) are cleaned in accordance with Conn. Gen. Stat. Section 16-50ii[2].

C. Existing and Proposed Environment

i. The Site

The approximately 24-acre Site is located in the northern part of the Town, south of the Town of Farmington boundary. The surrounding area consists of corporate/industrial development to the north, south and west. The Pequabuck River abuts the property to the east; a mix of residential and corporate development is beyond the river. Robertson Airport is approximately 800 feet to the west. The Site is within the Restricted Industrial (RI) zone.

The Site is under development with the Americold warehouse, an approximately 240,000 square foot building; parking areas and driveways will surround the building. The fuel cell installation will be located in the northern portion of the Site alongside the building, in an area disturbed during Site development.

The Facility has been designed to take into account planned infrastructure, including utilities, as well as operational requirements and traffic and pedestrian flow within the Site. The overall impact on the Site is negligible.

ii. Wildlife and Habitat

Based on a review of the publicly available Connecticut Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDB) December 2021 data, the proposed Facility is not within an NDDB area, an identified location of endangered, threatened

[1] Standard for the Installation of Stationary Fuel Cell Power Systems, 2015 Edition
[2] Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission

and special concern species or significant natural community. Exhibit 5. Therefore, no consultation with DEEP NDDB is required.

Subject to approval, the Facility will be installed while development activities and immediate post-development stabilization are ongoing. Therefore, no effect on wildlife habitat or activities is anticipated.

iii. Wetlands and Watercourses

The Pequabuck River is to the east of the Site; associated floodways extend onto the Site. The Americold development was reviewed and approved by the Town of Plainville Inland Wetlands and Watercourses Commission. The Facility will not be located within areas previously identified as wetland or watercourse resources, and will not disturb any undeveloped areas. Therefore, the Facility will not have any adverse effect on wetlands or watercourses. As described herein, appropriate erosion and sedimentation control measures will be employed during construction.

iv. Flood Zones and Aquifer Protection Area

A review of the flood hazard mapping data from Federal Emergency Management Agency's ("FEMA") National Flood Insurance Program ("NFIP") shows the 100-year flood zone associated with the Pequabuck River extends onto the far eastern portion of the Site, approximately 190 feet from the Facility. The Facility would not be located in either a 100-year or 500-year flood zone. *See* Exhibit 5.

The Site is within Aquifer Protection Area according to GIS data provided by DEEP. The proposed installation involves only shallow excavation in a recently disturbed area, and therefore will not have any adverse effect on the Aquifer Protection Area.

i. Cultural Resources

The Site, including the Facility location, has been previously developed and disturbed as part of the Americold development. The construction and operation of the Facility will therefore not have a substantial adverse effect on cultural (archaeological and historical) resources.

D. Environmental Effects and Mitigation

i. Natural Gas Desulfurization Process

Sulfur compounds that are added to natural gas as an odorant are removed in the first step of electricity production in a Bloom Energy Server. Sulfur is separated from the natural gas by filtering in a specialized canister within the Energy Server (the "Desulf Unit") that uses a copper catalyst to remove the sulfur. The Desulf Units are periodically removed and replaced. The spent units are transported to ShoreMet, L.L.C. (ShoreMet) in Indiana, where they are opened, the contents are removed and copper is used as an ingredient in various products. The Desulf Units are then cleaned, refilled, and sent back to the field for reuse. Handling and transportation are performed in accordance with hazardous waste restrictions.

ii. Water, Heat and Air Emissions

The construction and operation of the Facility will comply with DEEP's air and water quality standards and will not have a substantial adverse environmental effect.

The Facility is designed to operate without water discharge under normal operating conditions. There are no connections or discharge points to the proposed Facility. The Facility uses no water after start-up, which requires a 672-gallon injection.

Heat generated by the proposed Facility is used internally to increase the electrical efficiency of the fuel cell system. As a result, there is no useful waste heat generated by the fuel cell. The minimal amount of thermal load present at the Site would preclude the efficient deployment of a combined heat and power application.

Conn. Agencies Regs. § 22a-174-42 exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility.[3] It should be noted, however, that Bloom Energy fuel cells do meet the emissions standards of Section 22a-174-42.

The Facility will also meet state criteria thresholds for all greenhouse gases defined in Section 22a-174-1(49). Table 1 lists thresholds set by the Low and Zero Emissions Renewable Energy Credit (LREC/ZREC) program[4], and compares them to emissions generated from the proposed Facility. By virtue of the non-combustion process the Bloom Energy fuel cells virtually eliminate NOx, SOx, CO, VOCs and particulate matter emissions from the energy production process. Similarly, there are no CH_4, SF_6, HFC or PFC emissions.

Table 1: Connecticut Thresholds for Greenhouse Gases

Emission Type	Bloom Output	LREC allowance
Nitrous Oxides (NOx)	<0.01 lbs/MWh	0.07 lbs/MWh
Carbon Monoxide (CO)	<0.05 lbs/MWh	0.10 lbs/MWh
Sulfur Oxides (SOx)	Negligible	Not Listed
Volatile Organic Compounds (VOCs)	<0.02 lbs/MWh	0.02 lbs/MWh
Carbon Dioxide (CO2)[5]	679-833 lbs/MWh	Not Listed

The proposed Facility will ultimately displace less efficient fossil fueled marginal generation on the ISO New England system. Based upon US Environmental Protection Agency (EPA) "eGrid" data, the proposed Facility is expected to reduce carbon emissions by more than 25% while essentially eliminating local air pollutants like NOx, SOx, and particulate matter.

The Town's 2019 Plan of Conservation and Development ("POCD") promotes sustainability and includes among potential strategies "[p]roviding for alternative energy

[3] See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).
[4] Sec. 16-244t
[5] Carbon dioxide is measured at Bloom's stated lifetime efficiency level of 53-60%.

strategies (fuel cell, micro-grids, etc.)." The Town's Zoning Regulations, effective December 1, 2010 and revised to October 12, 2021, are silent as to alternative energy strategies other than solar.

iii. Sound Levels

The Facility will comply with State of Connecticut regulations for the Control of Noise. The Town does not have a noise ordinance.

Bloom retained Veneklasen Associates to evaluate the impact of noise from the proposed Facility on adjacent property lines and sensitive noise receptors. *See* Exhibit 7, Veneklasen Associates Fuel Cell Acoustical Analysis ("Report"). The Report documents that noise levels at Site property lines will be in compliance with State regulations without mitigation.

Bloom typically performs project construction Monday through Friday, 7:00 a.m. to 5:00 p.m.

ix. Visual Effects

The visual effect of the Facility will be minimal. The addition of the Facility is minor relative to the overall Site development. The Facility will be visible from Northwest Drive in the immediate vicinity of the Site. Views will be partially obstructed by evergreen plantings near the Site perimeter. The Americold building will block views from the south and southwest. Existing dense vegetation, as well as distance, will minimize views from the residential area to the east beyond the Pequabuck River.

E. Project Construction and Maintenance

Bloom anticipates construction to start in the early third quarter of 2022 with approximately four months of total construction time (4 - 6 weeks of site prep, 4 - 6 weeks of installation, and 4 – 6 weeks of commissioning).

Construction of the Facility would conform to best management practices for erosion and sedimentation ("E&S") controls, including those provided for in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. During construction, appropriate erosion and sedimentation (E&S) controls will be installed and areas of disturbance will be promptly stabilized in order to minimize the potential for soil erosion and the flow of sediments off site. Temporary E&S control measures will be maintained and inspected throughout construction to ensure their integrity and effectiveness. The temporary E&S control measures will remain in place until the work is complete and all disturbed areas have been stabilized. No effects to drainage patterns or stormwater discharges are anticipated. Due to the limited disturbance required for the Facility's installation, no construction-related storm water permits will be required.

Soils that are generated during construction activities would not be stored or stockpiled inside of wetlands or adjacent to a watercourse, and appropriate E&S control measures would be employed and maintained for any temporary soil stockpiles. Any excavated soils compatible for reuse will be used as backfill in proximity to the same excavation area from where it originated. Any excess excavated soils not suitable for reuse would be trucked off-site and managed in accordance with applicable regulations. Rock, concrete and other debris would be removed and trucked off-site.

Areas affected by construction would be re-graded as practical and stabilized using revegetation or other measures before removing temporary E&S controls. Construction-related impacts will therefore be minimal.

If there is a default in the contract or the Facility is to be removed at the end of the contract, the Energy Servers, associated equipment and components will be dismantled and removed and the site will be restored as nearly as practicable to its effective original condition.

IV. NOTICE AND CONSULTATION

Bloom has provided notice of this petition via certificate of mailing to abutting property owners and appropriate municipal officials and governmental agencies to whom notice is required to be given pursuant to Conn. Agencies Regs. § 16-50j-40(a). Lists of officials and abutting property owners, a copy of the notice letter and documentation of mailing are provided in Exhibit 8.

A representative of Bloom contacted Mr. Mark DeVoe, Town Planner, on February 22, 2022. Mr. DeVoe reviewed Bloom's proposed plans and information on an anticipated application for amendment of previously approved site plan for the Americold development. Based on ongoing contact with Mr. DeVoe, it is Bloom's understanding that the requested amendment is to be considered by the Town Planning and Zoning Commission on March 22, 2022. Mr. DeVoe has indicated that the Town will provide comments to the Council if desired. *See* Exhibit 9.

V. CONCLUSION

Under Conn. Gen. Stat. § 16-50k(a), the Council is required to approve by declaratory ruling the construction or location of a customer-side distributed resources project or facility with a capacity of not more than 65 MW, as long as the facility meets DEEP air and water quality standards. The proposed Facility meets each of these criteria.

The proposed project will replace a portion of the Site's baseload with a Class I renewable energy source, assist in achieving the State's sustainability goals, and improve reliability of electrical systems and equipment.

Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Site or

in the State of Connecticut. Accordingly, Bloom respectfully requests that the Council approve the proposed Facility by declaratory ruling.

Respectfully submitted,

Bloom Energy Corporation

By:_____

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (917) 803-4511
Email: kristen.grillo@bloomenergy.com

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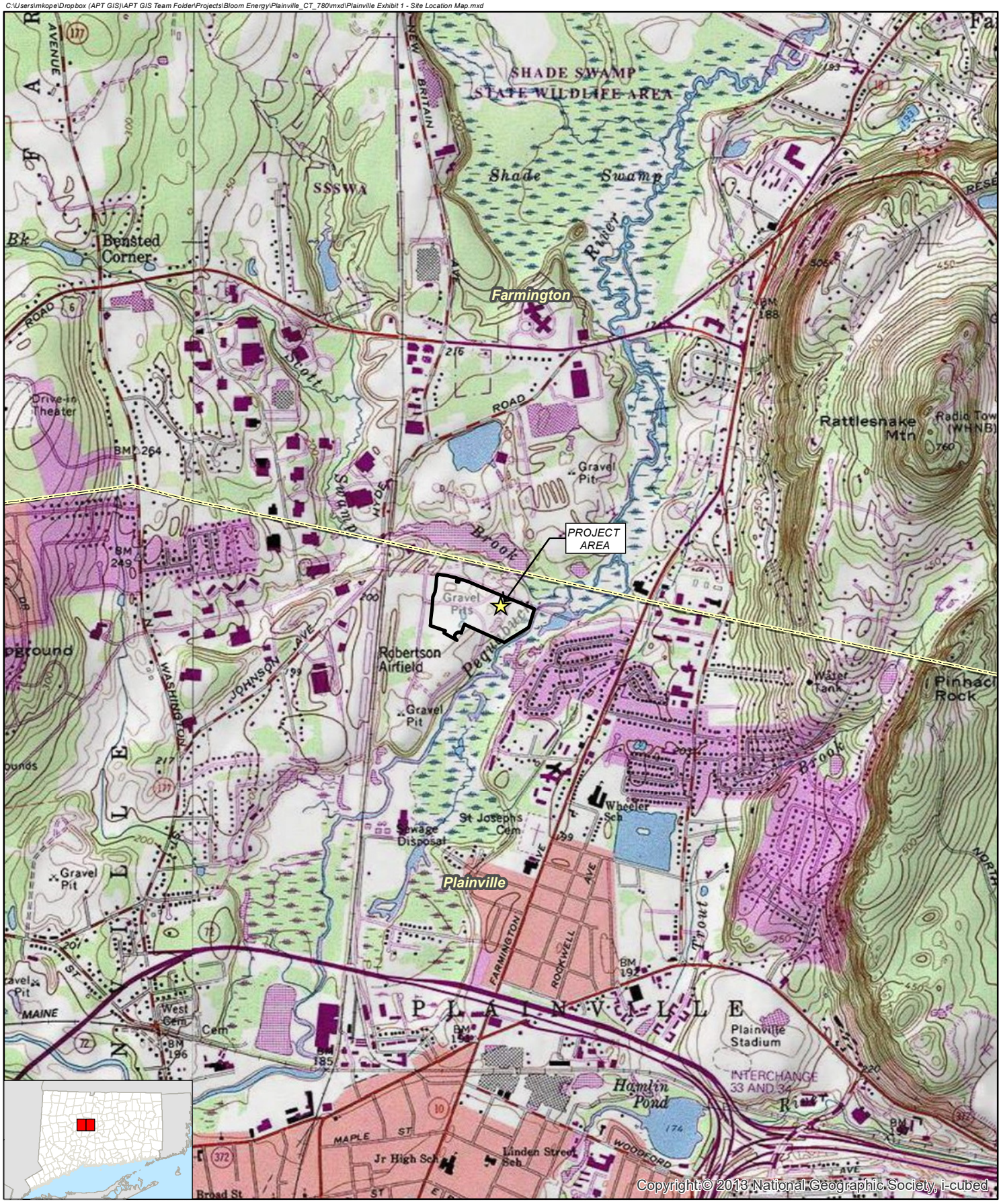
Exhibit 1

C:\Users\mkope\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Plainville_CT_780\mxd\Plainville Exhibit 1 - Site Location Map.mxd



Legend

- Project Area
- Site
- Municipal Boundary (CTDEEP)

<u>Map Notes:</u>
Base Map Source: USGS 7.5 Minute Topographic Quadrangle Map: Bristol, CT (1984) and New Britain, CT (1992)
Map Scale: 1:24,000
Map Date: March 2022

N W E S

1,000 500 0 1,000 Feet

Exhibit 1
Site Location Map

Proposed Bloom Energy Facility
Americold
24 Northwest Drive
Plainville, Connecticut

Bloomenergy

ALL-POINTS TECHNOLOGY CORPORATION

Bloomenergy®

Exhibit 2

Legend

- Site
- Abutting Property
- Project Area
- Limit of Disturbance/Underground Utilities
- Proposed Electrical Equipment
- Electrical Service
- Water Service
- Gas Service
- Data Service
- Approximate Assessor Parcel Boundary
- Municipal Boundary

N
W E
S

300 150 0 300
Feet

Map Notes:
Base Map Source: CTECO 2019 Aerial Photograph
Map Scale: 1 inch = 300 feet
Map Date: March 2022

Exhibit 2
Site Vicinity

Proposed Bloom Energy Facility
Americold
24 Northwest Drive
Plainville, Connecticut

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ALL-POINTS TECHNOLOGY CORPORATION

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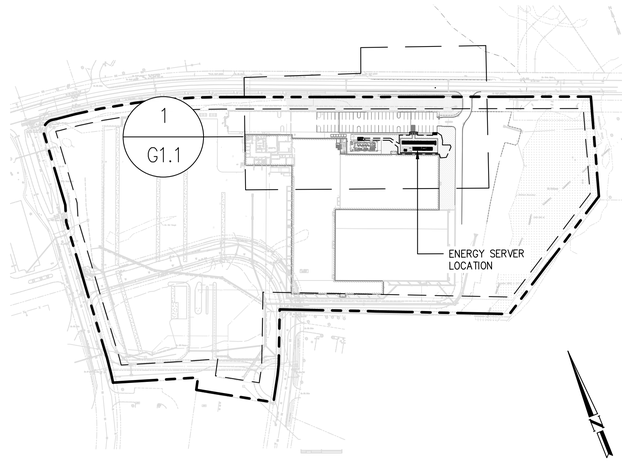
Exhibit 3



OVERALL SITE PLAN

SCALE: = NTS

2
G1.1

NORTHWEST DR.

GAS POC IN NORTHWEST DR.

APPROXIMATE PROPERTY LINE PER RECORD PLANS

Ex. CL&P #15563

EXISTING SIDEWALK RAMP

35'-0"

35' SETBACK LINE

EXISTING FENCE

132'-0"

EXISTING ASPHALT PARKING AREA

CONTRACTOR SHALL STRIPE EXISTING PARKING SPACE WITH 4" WIDE WHITE TRAFFIC PAINT

EXISTING CONCRETE SIDEWALK

EXISTING CURB (TYP)

EXISTING STORM GRATE (TYP)

EXISTING TRANSFORMERS TYP (6X)

EXISTING DOOR

EXISTING ELECTRICAL CABINET

ATS WITH MAIN BREAKER SWITCHBOARD

LIMIT OF DISTURBANCE

WATER POC

DEPRESSED CURB AND SIDEWALK

GAS MSA

EXISTING DATA ROOM

MSB3 EXISTING UTILITY METER #08123785

MSB4 EXISTING UTILITY METER #08121539

MSB5 EXISTING UTILITY METER

ELECTRICAL POC

MSB2 EXISTING UTILITY METER

MSB1 EXISTING UTILITY METER

RC EXISTING UTILITY METER

EXISTING ELECTRICAL ROOM

EXISTING ELECTRICAL CABINET

BLOOM ENERGY SERVER (7X)

±3,350 SF ASPHALT SERVICE AREA

BOLTED PRESSURE SWITCH SW-PS1

BOLTED PRESSURE SWITCH SW-PS2

2500kVA XFMR-MG

UPS

ASPHALT CURB

MI5-B

MI5 (7X)

SL5 (7X)

1
C1.1

1
M1.1

2
C1.1

2
M1.1

AMERICOLD
(EXISTING)

0 20' 40'

SITE REFERENCE NOTE:

EXISTING SITE CONDITIONS TAKEN FROM PLAN PREPARED BY TIGHE & BOND TITLED "C-400 UTILITY PLAN" DATED 01/24/2020 REV.9

OVERALL SITE PLAN

SCALE: 1" = 20'

1
G1.1

Bloomenergy

4353 N. FIRST STREET
SAN JOSE, CA 95134

Bloomenergy

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

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

CUSTOMER SITE

AMERICOLD
24 NORTHWEST DR
PLAINVILLE, CT 06062

americold

REVISION HISTORY		
REV	REVISION ISSUE	DATE
–	INITIAL RELEASE	02/15/2022

DESIGNED BY SCOTT BARD	REVIEWED BY SASHA SCARLAT
DRAWN BY LATHASHREE	APPROVED BY CARSON TURNER

SHEET TITLE

OVERALL
SITE PLAN

DRAWING NUMBER

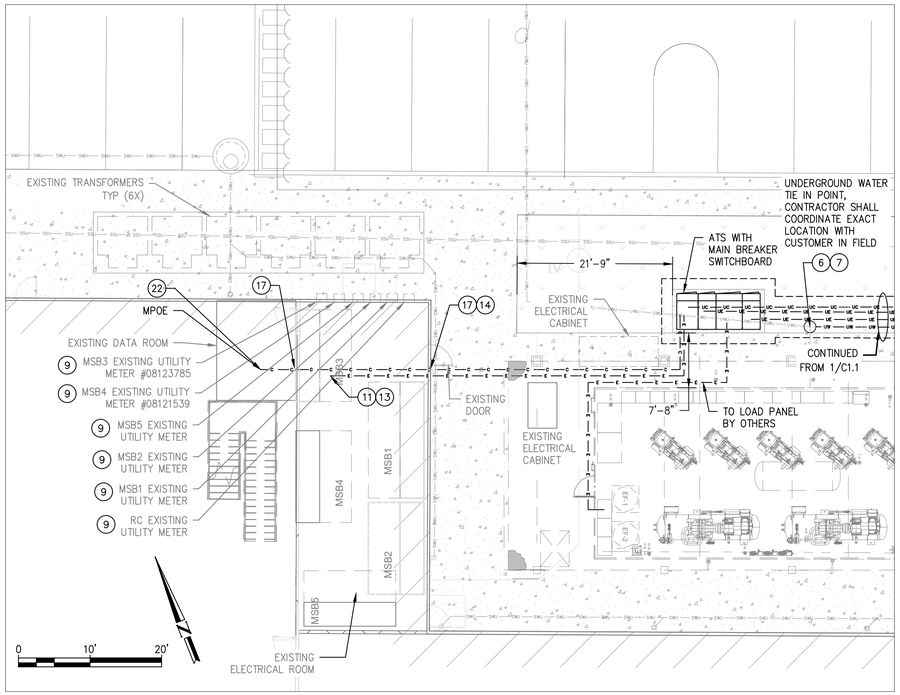
G1.1

BLOOM DOCUMENT

DOC-1014543

THIS DRAWING IS 24" X 36" AT FULL SIZE

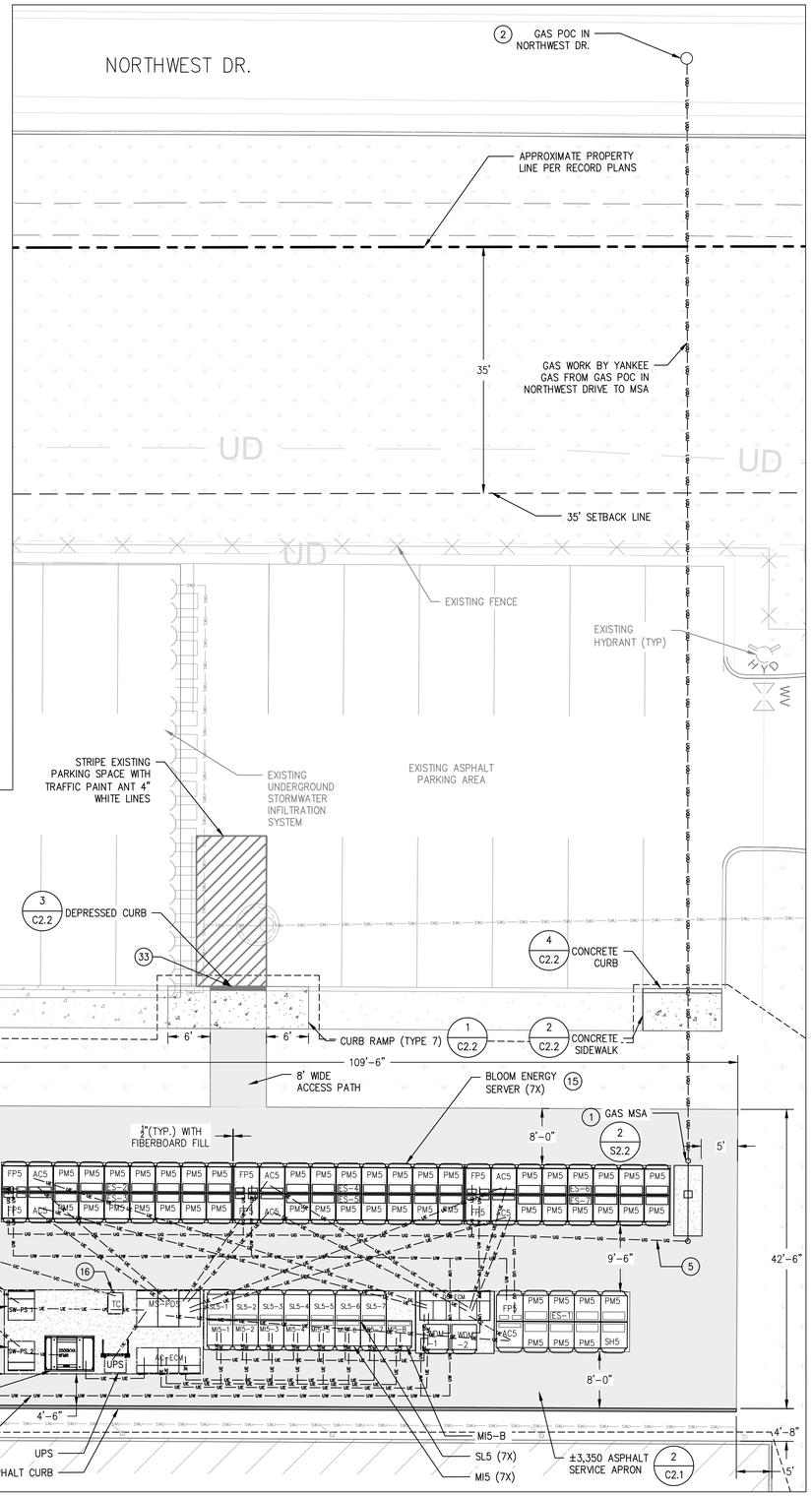
SITE ID: AMC015.0 | SHEET 03 OF 20



DETAILED SITE PLAN

SCALE: 1" = 10'

2 / C1.1



DETAILED SITE PLAN

SCALE: 1" = 10'

1 / C1.1

GENERAL NOTES

1. CLEAN AND PRIME ALL NEW WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
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.
3. SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.
4. ALL EXISTING FEATURES SHALL REMAIN AND BE PROTECTED THROUGHOUT THE DURATION OF CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLANS.
5. ALL ABOVE FROST LINE SECTIONS OF WATER PIPES SHALL HAVE POWERED HEAT TRACE AND INSULATION. CONTRACTOR SHALL ENSURE UNDERGROUND WATER PIPE DEPTHS ARE BELOW FROST LINE.
6. ALL PULL BOXES AND VAULTS REQUIRED ARE NOT SHOWN, CONTRACTOR SHALL PROVIDE PULL BOX OR VAULT FOR CONDUIT RUNS WITH MORE THAN, 360-DEG BENDS OR OTHERWISE REQUIRED PER CABLES PULLING TENSION OR VAULT IN COMPLIANCE WITH NEC REQUIREMENT.

REFERENCE SHEET NOTES

1. NEW UTILITY PROVIDED AND INSTALLED GAS METER ASSEMBLY. CONTRACTOR SHALL PROVIDE PAD PER DETAILS IN ACCORDANCE WITH UTILITY REQUIRMENT. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
2. NEW UNDERGROUND GAS SERVICE TAP BY UTILITY COMPANY. UTILITY COMPANY SHALL BE RESPONSIBLE FOR ENTIRE INSTALLATION FROM POINT OF CONNECTION TO NEW GAS METER. CONTRACTOR SHALL COORDINATE WITH GAS UTILITY FOR SCHEDULE OF THIS WORK PRIOR TO CONSTRUCTION.
5. NEW GAS PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
6. TAP EXISTING UNDERGROUND WATER LINE AS SHOWN WITH A LOCAL SHUT-OFF VALVE. REFER TO DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
7. NEW WATER PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
9. EXISTING UTILITY ELECTRIC METER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
10. NEW BLOOM ENERGY FURNISHED, CONTRACTOR INSTALLED, DISCONNECT SWITCH. MOUNT TO PAD PER MANUFACTURER AND UTILITY SPECIFICATIONS.
11. CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
12. SEE GROUNDING PLAN FOR GROUNDING REQUIREMENTS.
13. NEW ELECTRICAL FEEDER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
14. MOUNT NEW CONDUIT/PIPE TO EXTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
15. NEW BLOOM ENERGY SERVER MOUNTED ON A PRECAST CONCRETE PAD. PRECAST CONCRETE PAD DESIGNED BY PRECAST MANUFACTURER. REFER TO PRODUCTION INSTALLATION DRAWINGS FOR ADDITIONAL BLOOM ENERGY SERVERS AND PRECASTE PAD DETAILS INCLUDING STUB UP DETAILS AND PAD CUT OUT LOCATIONS. REFER TO SINGLE LINE DIAGRAM FOR UFER REQUIREMENTS.
16. FACTORY WIRED BLOOM 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.
21. PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES.
22. CONTRACTOR SHALL PROVIDE NEW UNDERGROUND CONDUIT AND CABLE FROM TC TO ATS AND ABOVE GROUND CONDUIT AND CABLE FROM ATS TO MPOE IN DATA ROOM (CEILING MOUNTED IN ELECTRICAL AND DATA ROOM). REFER TO BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR CONNECTION REQUIREMENTS.
30. CONTRACTOR SHALL PROVIDE TURF RESTORATION. REFER TO TURF RESTORATION DETAIL FOR ADDITIONAL REQUIREMENTS.
33. CONTRACTOR SHALL DEMOLISH EXISTING 6" CONCRETE CURB AND PROVIDE AND INSTALL DEPRESSED CURB IN AREAS AS SHOWN ON THE PLAN. REFER TO DEPRESSED CURB DETAIL FOR ADDITIONAL INFORMATION.

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 UTILITY 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 HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.

Bloomenergy

4353 N. FIRST STREET
SAN JOSE, CA 95134

Bloomenergy

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SAN JOSE, CA 95134
t: (408) 543-1500

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

CUSTOMER SITE

AMERICOLD
24 NORTHWEST DR
PLAINVILLE, CT 06062

americold

REVISION HISTORY		
REV	REVISION ISSUE	DATE
–	INITIAL RELEASE	02/15/2022

DESIGNED BY SCOTT BARD	REVIEWED BY SASHA SCARLAT
DRAWN BY LATHASHREE	APPROVED BY CARSON TURNER

SHEET TITLE

DETAILED SITE PLAN

DRAWING NUMBER

C1.1

BLOOM DOCUMENT

DOC-1014543

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: AMC015.0 | SHEET 04 OF 20

Bloomenergy®

Exhibit 4

	Total			
Load Type	**Amp Loads**	**KVA Load**	**Reduced**	**Transformer Req**
Building Load	3,099	2,576	2,576	2
Refrigeration Load	3,000	2,494	2,494	1
Dematic Load (from tab)	6,162	5,123	5,123	3
Total	12,261	10,194	10,194	6

Voltage (V)	480	0.78
Voltage Type	3 Phase	
Estimated Power Factor	98%	
Calc. Transformer Req (kVA)	10,194	

Airdoor reduced

611	Battery Charging
180	Reefer Chargers
75	25% of dock doors running at a time
29	10% office HVAC reduction
40	20% of total lighting
50	Compactor + Baler
536	Reduce/Spread Ice Making (5d to 7d)

Bloomenergy®

PRODUCT DATASHEET

Energy Server 5

Always On, Clean Energy
Using Patented Solid Oxide
Fuel Cell Technology

The Energy Server 5 provides combustion-free electric power with these benefits

Clean

Our systems produce near zero criteria pollutants (NOx, SOx, and particulate matter) and far fewer carbon emissions than legacy technologies.

Reliable

Bloom Energy Servers are designed around a modular architecture of simple repeating elements. This enables us to generate power 24 x 7 x 365 and can be configured to eliminate the need for traditional backup power equipment.

Resilient

Our system operates at very high availability due to its fault-tolerant design and use of the robust natural gas pipeline system. Bloom Energy Servers have survived extreme weather events and other incidences and have continued providing power to our customers.

Simple Installation and Maintenance

Our Energy Servers are 'plug and play' and have been designed in compliance with a variety of safety standards. Bloom Energy manages all aspects of installation, operation and maintenance of the systems.

Bloom Energy
4353 North First Street
San Jose, CA 95134

T 408 543 1500
F 408 543 1501

info@bloomenergy.com
www.bloomenergy.com

Energy Server 5	Technical Highlights (ES5-EAXAAC)
Outputs	
Nameplate power output (net AC)	250kW
Load output (net AC)	250kW
Electrical connection	480V, 3-phase, 60 Hz
Inputs	
Fuels	Natural gas, directed biogas
Input fuel pressure	10-18 psig (15 psig nominal)
Water	None during normal operation
Efficiency	
Cumulative electrical efficiency (LHV net AC)[1]	65-53%
Heat rate (HHV)	5,811-7,127 Btu/kWh
Emissions[2]	
NOx	0.0017 lbs/MWh
SOx	Negligible
CO	0.034 lbs/MWh
VOCs	0.0159 lbs/MWh
CO_2 @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas
Physical Attributes and Environment	
Weight	13.6 tons
Dimensions (variable layouts)	14'4" x 8'8" x 6'9" or 28'8" x 4'4" x 7'2"
Temperature range	-20° to 45° C
Humidity	0% - 100%
Seismic vibration	IBC site class D
Location	Outdoor
Noise	< 70 dBA @ 6 feet
Codes and Standards	
Complies with Rule 21 interconnection and IEEE1547 standards	
Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards	
An Energy Server is a Stationary Fuel Cell Power System. It is Listed by Underwriters Laboratories, Inc. (UL) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.	
Additional Notes	
Access to a secure website to monitor system performance & environmental benefits	
Remotely managed and monitored by Bloom Energy	
Capable of emergency stop based on input from the site	

[1] 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test
[2] NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3

About Bloom Energy

Bloom Energy's mission is to make reliable, clean energy affordable for everyone in the world. The company's product, the Bloom Energy Server, delivers highly reliable and resilient, Always On electric power that is clean and sustainable. Bloom's customers include twenty-five of the Fortune 100 companies and leaders in cloud services and data centers, healthcare, retail, financial services, utilities and many other industries.

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DOC-1013935 Rev A

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San Jose, CA 95134

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info@bloomenergy.com
www.bloomenergy.com

Energy Server 5	Technical Highlights (ES5-YASAAC)
Outputs	
Nameplate power output (net AC)	300kW
Load output (net AC)	300kW
Electrical connection	480V, 3-phase, 60 Hz
Inputs	
Fuels	Natural gas, directed biogas
Input fuel pressure	10-18 psig (15 psig nominal)
Water	None during normal operation
Efficiency	
Cumulative electrical efficiency (LHV net AC)[1]	65-53%
Heat rate (HHV)	5,811-7,127 Btu/kWh
Emissions[2]	
NOx	0.0017 lbs/MWh
SOx	Negligible
CO	0.034 lbs/MWh
VOCs	0.0159 lbs/MWh
CO_2 @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas
Physical Attributes and Environment	
Weight	15.8 tons
Dimensions (variable layouts)	17'11" x 8'8" x 6'9" or 32'3" x 4'4" x 7'2"
Temperature range	-20° to 45° C
Humidity	0% - 100%
Seismic vibration	IBC site class D
Location	Outdoor
Noise	< 70 dBA @ 6 feet
Codes and Standards	
Complies with Rule 21 interconnection and IEEE1547 standards	
Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards	
An Energy Server is a Stationary Fuel Cell Power System. It is Listed by Underwriters Laboratories, Inc. (UL) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.	
Additional Notes	
Access to a secure website to monitor system performance & environmental benefits	
Remotely managed and monitored by Bloom Energy	
Capable of emergency stop based on input from the site	

[1] 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test
[2] NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3

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www.bloomenergy.com

DOC-1013911 Rev A

Looking toward Americold building northeast corner from Northwest Drive; proposed installation to be located near corner of building

Looking toward Americold building northeast corner from driveway at Northwest Drive; proposed installation to be located between building and driveway

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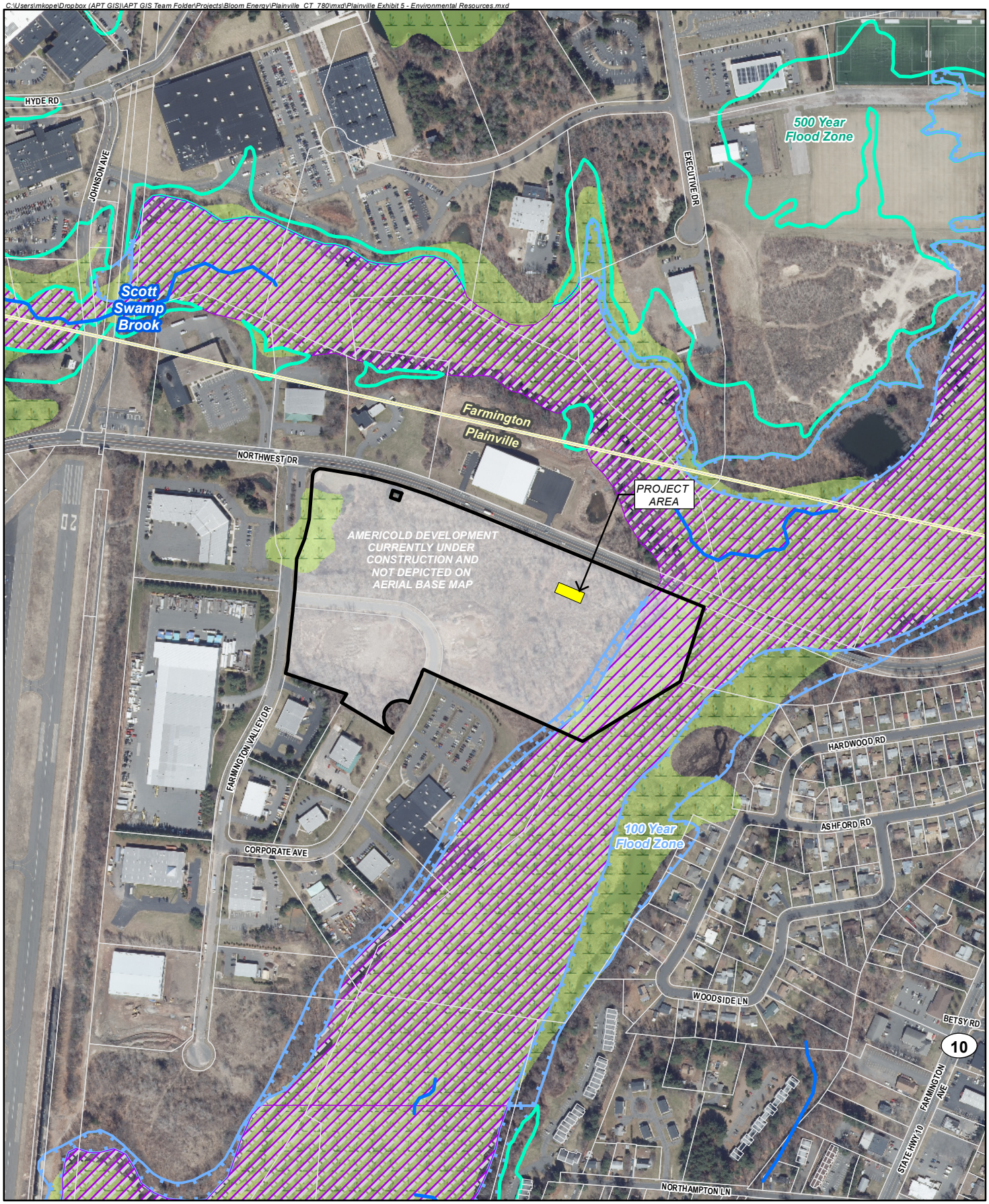
Exhibit 5



Legend

- Site
- Project Area
- CTDEEP Watercourse
- CTDEEP Natural Diversity Database (updated Dec 2021)
- CTDEEP Critical Habitat (Oct 2019)
- CTDEEP Wetlands
- FEMA 100-Year Flood Zone
- FEMA 500-Year Flood Zone
- Floodway
- CTDEEP Coastal Boundary
- Approximate Assessor Parcel Boundary
- Municipal Boundary

Map Notes:
Not All Legend Items May Be Located Within Map Extent
Base Map Source: CTECO 2019 Aerial Photograph
Map Scale: 1 inch = 500 feet
Map Date: March 2022

N W E S

500 250 0 500 Feet

Exhibit 5
Environmental Resources

Proposed Bloom Energy Facility
Americold
24 Northwest Drive
Plainville, Connecticut

Bloomenergy

ALL-POINTS TECHNOLOGY CORPORATION

Bloomenergy®

Exhibit 6

Fire Prevention and Emergency Planning – Grid Parallel

Bloom Energy Corporation, 1299 Orleans Drive, Sunnyvale, CA 94089 USA

Table of Contents

1. FIRE PREVENTION AND EMERGENCY PLANNING OVERVIEW

The following document is provided only as a guide to assist you in complying with national and local codes and requirements, as well as to provide other helpful information. It is not intended to supersede the requirements of any standard. You should review the standards for particular requirements that are applicable to your individual situation, and make adjustments to this program that are specific to your company. You will need to add information relevant to your facility in order to develop an effective, comprehensive program.

2. FUEL CELL SYSTEM INSTALLATION SAFETY FEATURES

The fuel cell system has redundant safety features and in-system checks to ensure that the system will not harm certified technicians or bystanders near the unit. While the actual fuel cells operate at high temperatures, these components do not move, and are contained within many layers of insulation. During normal operation, the unit is cool to the touch and operates quietly.

The fuel cell system is controlled electronically and has internal sensors that continuously measure system operation. If safety circuits detect a condition outside normal operating parameters, the fuel supply is stopped and individual system components are automatically shut down. A Bloom Energy Remote Monitoring and Control Center (RMCC) operator can also remotely initiate any emergency sequence. An Emergency Stop alarm condition initiates an automatic shutdown sequence that puts the fuel cell system into —safe modell and causes it to stop exporting power. If you have questions about any of these safety features, please contact Bloom Energy.

If you have to shut down your fuel cell system right away—for example, in case of a building fire or electrical hazard—three shutoff controls are installed at your facility external to the system. The locations of these three controls should be known to your facilities manager before operation, and should be noted on your facility diagram that you created with your Bloom Energy account manager. The three shutoffs are the **EPO button**, the **electrical disconnect**, and the **natural gas shutoff valve**.

- An **Emergency Power Off (EPO) Button** cuts all power to all systems and stops them from exporting power to your building. All natural gas flow is also stopped within the systems. (The EPO button is on the front/side of the EDM, if an EDM is installed.) Lift the protective cover and break the glass seal that covers the button with the attached hammer. After the glass seal is broken, the shutdown sequence will automatically begin.

Figure 1: Emergency Power Off Button

- An **electrical disconnect** manually disconnects systems from the grid if needed. Pressing the EPO button should already stop any power transmission, but it does not hurt the systems to also open this disconnect if you believe it is needed. The location of this disconnect will vary, however it is typically located near the point of interconnection where the wires from the fuel cell installation meet the facility's electrical framework. This may be inside your facility's electrical room, or if the fuel cell installation is near the electrical room, it may be found within the switchgear that Bloom Energy installs. This location of this disconnect is shown on the Site Map (see below) and is labeled "(name of electrical utility) Lockable Visible Generator Disconnect Switch".


Figure 2: Electrical Disconnect

- A **manual natural gas valve** shuts down all natural gas to the system. If the valve operator is perpendicular to the pipe, the valve is shut. If it is parallel with the pipe, the valve is open.

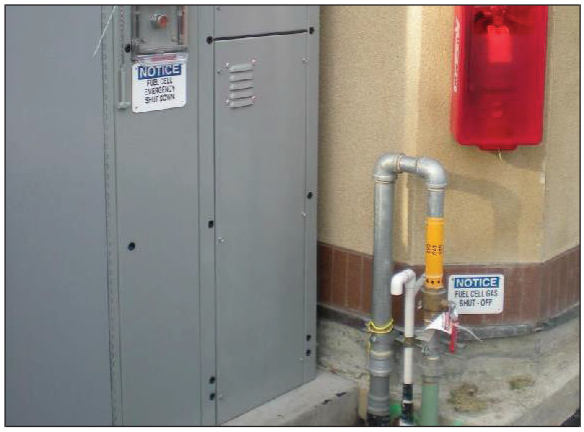


Figure 3: Manual Natural Gas Valve

Site map:

- An overhead site map showing the location of all safety features will be posted throughout the fuel cell installation
- Electronic copies are available to you for use in your site planning

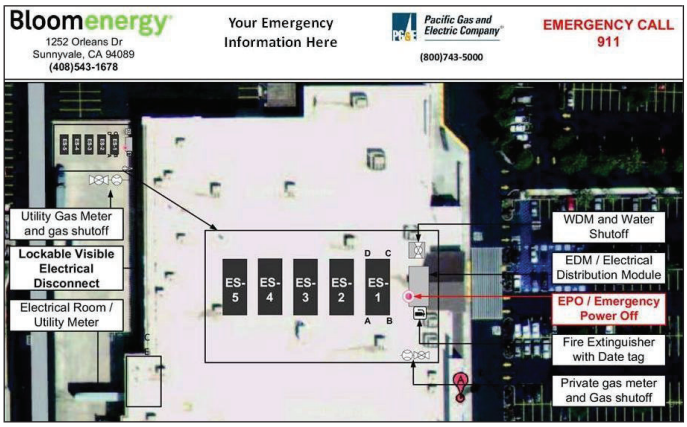


Figure 4: Sample Site Map

Manual controls:

- Clearly marked emergency stop button labeled —Fuel Cell Emergency Shut Downll located at site
- Two manual fuel shutoff valves outside the system, and two isolation valves inside the system

Fire hazard mitigation:

- System is plumbed directly to utility-provided natural gas
- If system input gas pressure is compromised, a pressure switch triggers an emergency system shutdown and fuel input is isolated
- System does not use fuel compressors or pumps
- System has virtually no stored fuel (internal capacity is < 5 scf)

Electrical hazard and mitigation:

- System operates at 480V
- Signs inside the system warn of the risk of electric shock
- System has backfeed protection
- System inverter prevents grid backfeed during a power outage

Mechanical hazard and mitigation:

- Finger/hand guard protection is provided on all fans
- All moving parts are located behind secured doors

Material hazard mitigation:

- Desulfurizer bed (to remove fuel impurities) are fully enclosed
- Maintained and serviced by licensed vendors

3. EMERGENCY NOTIFICATION PROCEDURES

Life-Threatening Emergencies

To report life-threatening emergencies, immediately call:

Fire:	**911**
Ambulance:	**911**
Police:	**911**

Conditions that require automatic emergency notification include:

- Unconscious Victim
- Seizure
- Major Trauma
- Chest Pains
- Difficulty Breathing
- Flames

Non-Life-Threatening Emergencies

For non-life-threatening emergencies, report the incident to the local safety control center.

When you report an emergency, give the following information:

- Exact nature of the emergency (describe as clearly and accurately as possible).
- Exact location (i.e., address, building, floor, area, department, etc.).
- Telephone number from which you are calling.
- Your full name.
- ***Do not hang up***, as additional information may be needed.

To assist in any subsequent investigation or determination of corrective actions, it is recommended to record the following items as close to the incident time as possible:

- Summary of any violation

- Identification of responsible parties
- Identification of victims and witnesses
- Description of evidence
- Description of general conditions
- Description of any vehicles involved
- Narratives from witnesses
- Any photographs

4. FIRE OR SMOKE PROCEDURES

This section describes the procedures involving a fire or smoke. A major fire is one that requires the use of more than one fire extinguisher or takes more than one minute to extinguish.

If you discover a fire or smoke:

1. Activate the nearest fire alarm if not activated already.
2. Activate the fuel cell Emergency Stop if possible.
3. Shut off the fuel cell installation natural gas line if possible.
4. If the fire is small and does not pose an immediate risk to personal safety, you may attempt to extinguish it with a portable fire extinguisher **only if trained to do so.**
5. Avoid using water on electrical fires.
6. Report every fire, regardless of size, immediately. Smoke or the smell of smoke should be reported.
   - From a safe location dial **911**.
   - Report the incident to the local security safety center.

5. MEDICAL EMERGENCY PROCEDURES

This section describes the necessary procedures for injuries or illnesses that may occur under extreme conditions.

A serious injury can be life-threatening and will require immediate medical attention. Injuries can include head injuries, spine injuries, broken bones, heart attack, stroke, loss of consciousness, excessive bleeding, chemical exposure, etc.

A non-serious injury is not immediately life-threatening but may still require the attention of a medical doctor. These can include headaches, nausea, itching, cuts, burns, etc.

Life-Threatening Medical Emergency

1. Remain calm.
2. Immediately dial 911.
3. Report the incident to local security safety center.
4. Do not move the victim unless it is absolutely necessary.
5. Call out for personnel trained in first aid and/or CPR which may include Building Evacuation or Emergency Response team members.

6. Ask someone to bring the area first aid kit and Automated External Defibrillator.
7. Assist if capable or asked to do so.

Non-Life-Threatening Medical Emergency

1. Remain calm.
2. Report the incident to the local security safety center.
3. Do not move the victim unless it is absolutely necessary.
4. Call out for personnel trained in first aid.
5. Ask someone to bring the area first aid kit.
6. If the victim requires further medical attention, then direct them to the nearest approved medical clinic or hospital – Contact Security or Human Resources for assistance if needed.
7. The injured employee's supervisor/manager is responsible for ensuring injury forms are properly filled out. Complete the forms within 24 hours of incident and submit to the injury reporting system for follow-up. Follow company protocols.

6. MATERIALS RELEASE PROCEDURES

The fuel cell system does not pose a hazard to health or environment. However, some internal materials when released, may pose a irritation risk to people and a possible risk of fire if not properly handled. This section was designed to address potential material release events:

In case of a material release that poses a direct threat to health, safety, or the environment:

1. Report the incident to local safety/security office.
2. If extremely life-threatening immediately dial **911** followed with a call to Security.
3. Contain the spill.
4. Evacuate the area or building if the material release is determined to be life-threatening.

In the event of an unknown indoor smell or odor, report the incident to authorities responsible for HAZMAT and spills.

7. NATURAL DISASTERS AND SEVERE WEATHER

7.1 Earthquake

This section provides information and procedures for earthquake emergencies.

The fuel cell system is designed to automatically shut off if the natural gas supply is compromised.

The natural gas supply line has an external, manual shut-off valve that should be activated if it is safe to do so. This valve will be labeled, "Notice – Fuel Cell Gas Shut

Off". The natural gas line will be labeled with the word "gas" on a yellow background with an arrow pointing in the direction of flow.

The nearby Emergency Stop can be activated to stop the flow of fuel and power to/from the fuel cell system.

A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary.

7.2 Flood

The fuel cell system support pad is designed to divert water flow. However, if flooding conditions exist, or threaten to exist due to heavy rainfall, creek bank overflows, or pipe breakage, then immediately report the incident to the local safety/security office.

Do not use the fuel cell power system if any part has been under water. If it is safe to reach the Emergency Power Off button for the site without entering the water, stop all systems until a Bloom Energy representative can assess the site.

Precautions to follow after a flood:

- Stay out of flooded areas. Flooded areas remain unsafe. Entering a flooded area places you at risk.
- Notify Bloom Energy. A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary

8. UTILITY OUTAGE

The fuel cell system is operated in "Grid-Parallel" mode. If utility provided power is lost for any reason, the fuel cell system will go "off-line". The fuel cell system will remain in stand-by mode until it automatically senses the utility grid has been restored. If utility gas is shut down, the fuel cell system will begin to shut down completely.

The Bloom Energy Remote Monitoring Control Centers monitor the fuel cells 24 hours per day and will be alerted to utility grid interruptions via its controls software. A Field Service Engineer will be dispatched to restart the fuel cell system if necessary. Customer personnel should NOT attempt to start up or operate the fuel cell system.

Before a Planned Outage

- Notify the Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 at least 24 hours before planned outage.
- Bloom Energy Remote Monitoring Engineers will reduce power generated by the fuel cell system and take the fuel cell off-line.
- Abrupt fuel cell system shutdowns may cause significant system damage.

During a Utility Power Loss

- The fuel cell system will automatically go off-line.
- The Bloom Energy Remote Monitoring Control Centers will monitor the fuel cell system.
- Bloom Energy Field Service will be dispatched to start up the fuel cell system as necessary.
- If the fuel cell system has been automatically shut down and utility power is restored, there will be no impact to building power delivery: primary power will come from the utility rather than the fuel cells.

9. GOOD HOUSEKEEPING AND MAINTENANCE

9.1 Good Housekeeping

Although extremely unlikely, to minimize the risk of fire and any incidents, Facility Managers should take the following precautions around the fuel cell installation:

- What to do if you smell gas:
  - Do not try to light any appliance
  - Do not touch any electrical switch; do not use any phone in the area
  - Leave the area immediately
  - Immediately call your gas supplier. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department

- Notify Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 of any condition that would impair the safety of the fuel cell installation so that mitigation measures could be determined and placed into effect.
- Prohibit smoking within the area of the fuel cell installation. Bloom Energy will furnish No Smoking signs for the area.
- Ensure only Bloom Energy Service Providers are permitted access inside the system.
- Keep the area around the fuel cell installation clear for ten feet in all directions, for safety and ease of maintenance.
- Keep the area around the fuel cell power system clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- Shut the system down and call Bloom Energy immediately if you suspect a fuel line rupture.
- **Never enclose an operating system** in a tarp, tent, shed, or other structure that would allow air to become trapped. This system runs on natural gas, and produces trace amounts of CO and CO2. The amounts of these gases are safe for normal outdoor operation but could gather in an enclosed place.
- Do not block or obstruct air openings on the fuel cell power system. This system requires air flow in order to operate.

- Do not use this fuel cell power system if any part has been under water. Immediately call qualified service personnel to inspect the fuel cell power system and to replace any functional part which has been under water.
- Please contact Bloom Energy at 408-543-1678 with as much advance notice as possible if you plan, detect, or suspect a prolonged Internet outage.
- The Bloom Energy Field Service team will periodically clean the equipment; do not spray with pressurized hoses.

9.2 Maintenance

Your site has specific Field Service personnel assigned to it for both routine maintenance and troubleshooting. Your site project manager will introduce you to the designated Bloom Energy Field Service team assigned to your site prior to operation.

Bloom Energy Field Service personnel are trained in state Safety Law. They are trained in all the procedures required for the fuel cell installation, and their toolkit includes all the safety equipment required to work around the fuel components and high voltage in our system (480VAC).

Bloom Energy also requires its employees to follow all necessary safety precautions, including:

- Every time a Field Service technician arrives at a site for the first time and opens a service panel, the technician will use a leak detector to determine whether there is any gas buildup in the system and determine that it is safe to work on it.
- Whenever a Field Service technician is removing and replacing a component on a fuel or exhaust line, the technician must keep a CO detector nearby to make sure that no CO is present in the line even after the system has been shut down.

The Field Service team expects to conduct quarterly and yearly preventative maintenance for certain types of consumable or cleanable components such as replacement of air filters, water filters, and desulfurizer beds. Other maintenance will be performed as required. During such times, inspections for any hazards will be conducted including quarterly fire extinguisher inspection (if applicable).

10. TRAINING

Prior to system startup, a Bloom Energy representative will provide training on the fuel cell installation to include the location and operation of safety features as well as actions to take during emergencies. We desire this training to provide lasting value and are more than happy to work with you to customize the experience to suit your needs.

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Exhibit 7

Veneklasen Associates
Consultants in Acoustics | Noise | Vibration | AV | IT

November 17, 2021

Bloom Energy
4353 North 1st Street
San Jose, California 95134

Attention: **Brandon Leaverton | Supply Chain Specialist – Construction**

Subject: **Americold; Plainville, Connecticut**
Property Line Noise Analysis
Veneklasen Project No. 4631-026

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of the proposed fuel cells for the subject project in Plainville, Connecticut. This report includes the predicted noise levels at adjacent property lines and an evaluation of necessary mitigation, if warranted, to comply with the local noise ordinance in the surrounding community. This report documents our acoustical comments.

Noise Criteria

The town of Plainville, Connecticut does not have a defined noise ordinance. The governing county and state also do not have any applicable property line noise level requirements. In discussions with representatives from the Plainville Police Department, Veneklasen understands that noise complaints are handled by an officer observing the disruptive noise and making a judgement call regarding the noise's disturbance and obtrusiveness. Veneklasen was informed that things such as quality of sound, day and time of sound occurrence, and duration of sound are all factors considered when evaluating a noise complaint.

In light of this information, Veneklasen recommends that fuel cell noise levels to adjacent properties be controlled such that proposed fuel cell noise be no greater than 5 decibels lower than the existing ambient noise levels. This would typically be described as "barely audible", depending on the quality of sound source and type of existing ambient noise.

Veneklasen assumes the fuel cells will run 24-hours per day. There are residential, commercial, and industrial properties nearby the proposed fuel cells. Fuel cell noise to commercial and industrial receptors are compared to average daytime noise levels. Fuel cell noise levels to residential receptors are compared to average nighttime noise levels.

Existing Ambient Noise

To determine the existing ambient noise levels at the site due to existing traffic sources, Veneklasen has utilized the Traffic Noise Model computer software program developed by the FHWA (Federal Highway Administration TNM 2.5) in order to predict vehicular noise levels at the sensitive receptors. Traffic counts for the nearby roadways were provided by the Connecticut Department of Transportation (CTDOT). The primary noise sources include vehicular traffic on Northwest Drive and potential aircraft noise from the nearby Robertson Airport.

The FHWA software utilizes traffic count data, as well as other attributes of the roadway, to calculate average daytime, evening time, and nighttime noise levels. Since the fuel cells will operate 24-hours per day, Veneklasen calculated the daytime and nighttime noise levels at each sensitive receptor, as applicable. These are summarized below in Table 1.

Table 1. Average Daytime/Nighttime Ambient Traffic Noise Levels

Receptor Location	Receptor Type	Calculated Daytime Average Level, dBA	Calculated Nighttime Average Level, dBA
40 Hardwood Road	Residential	N/A	39
41 Northwest Drive	Commercial	56	N/A
35 Corporate Ave	Industrial	42	N/A

No noise contour map or traffic count information for Robertson Airport was available, which is typical of small airports. In the following section, we will show that fuel cell noise levels will be well below ambient vehicular traffic noise levels and the addition of aircraft noise to nearby properties will not change our assessment.

Property Line Noise Analysis

Drawings dated November 15, 2021, indicate that the proposed fuel cells will be installed just south of the primary roadway. Proposed fuel cells are shown in green in Figure 1 below. Additionally, the nearest sensitive receptors are annotated in blue. While there are several residences nearby the 40 Hardwood Road receptor, they will experience similar, if not lower, levels than the one identified below. These are therefore combined for the purposes of this analysis.

The current fuel cell installation method includes a foam dampening material that is installed at the doors and exhaust to the fuel cells. Measurement data of these units when compared to units without foam indicate that the foam compound reduces noise levels produced by the cells by approximately 5 decibels. See Appendix A below for fuel cell sound power data and foam compound reduction data used in the following analysis.

The calculated fuel cell noise levels as compared with existing ambient noise levels are presented in Table 2 below. Note that the reported distances between property lines and the fuel cells are taken from the closest face of the fuel cell nearest to the associated property line.

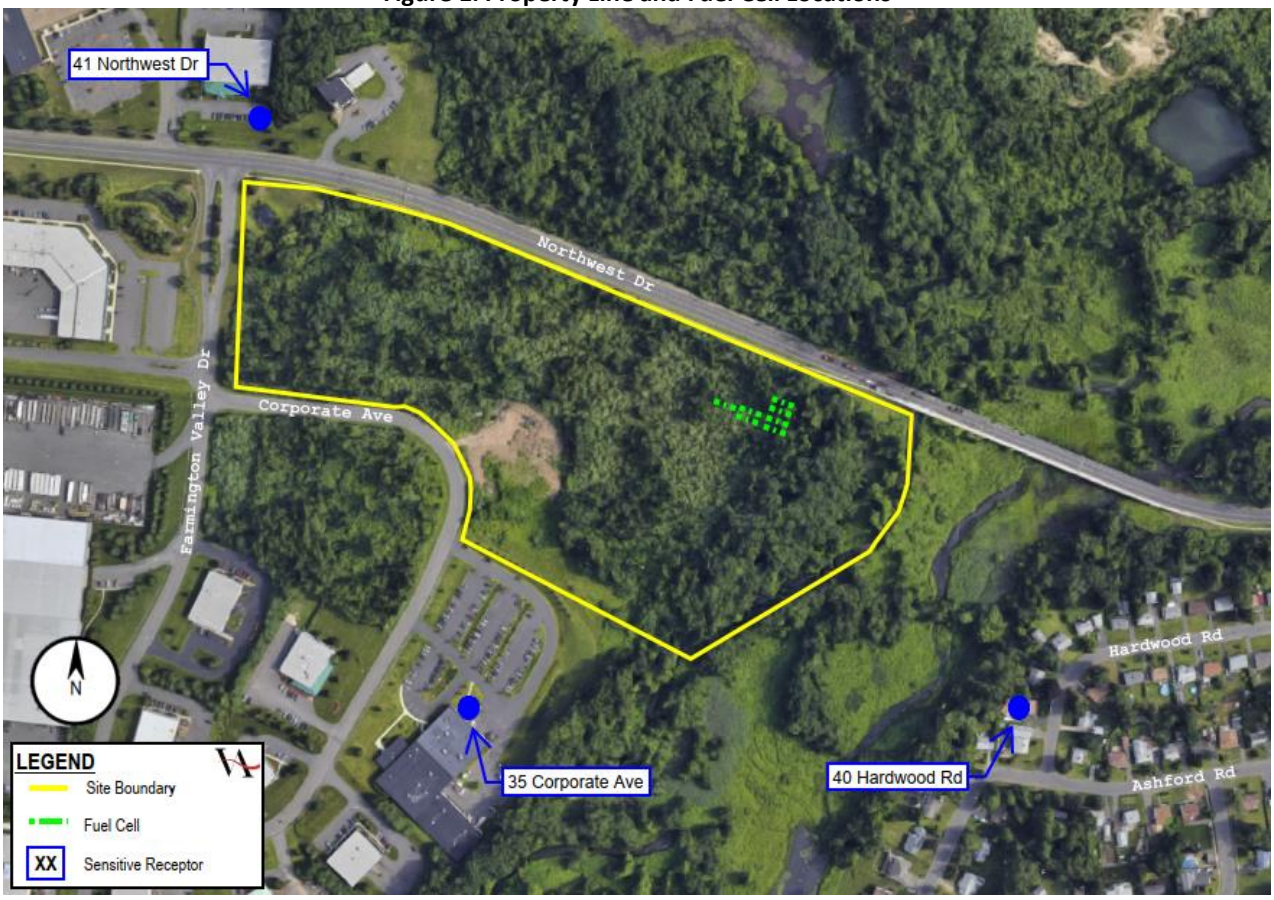
Table 2. Fuel Cell Property Line Noise Levels

Sensitive Receptor	Distance from Fuel Cell, ft	Applicable Ambient Level, dBA	Calculated Fuel Cell Noise Level, dBA	5dB Below Ambient?
40 Hardwood Road	755	39	29	Yes
41 Northwest Drive	1400	56	30	Yes
35 Corporate Ave	855	42	< 20	Yes

Note a proposed new building is planned directly south of the proposed fuel cell locations and provides substantial acoustic shielding to the 35 Corporate Ave property. This is the reason for the substantially low fuel cell noise levels at this location.

All fuel cell noise levels are at least 5 decibels lower than the existing ambient noise levels as designed without mitigation measures.

Figure 1. Property Line and Fuel Cell Locations



Summary

Veneklasen has reviewed the subject project proposed fuel cell property line noise levels as they pertain to the applicable design goals. Adjacent properties include residential, commercial, and industrial. According to calculations summarized in this report, property line noise levels are within acceptable limits, as recommended by Veneklasen, without any mitigation.

If you have any questions, please do not hesitate to call.

Sincerely,
Veneklasen Associates, Inc.

Kevin Patterson
Associate

John LoVerde, *FASA*
Principal

Appendix A – Sound Power Levels

Sound power data was taken from the Mei Wu Acoustics (MWA) Report titled "Bloom Energy – ES5 Linear Sound Power Measurement", dated June 21, 2016. These reported levels were measured without the sound dampening foam described above.

Table 3. Fuel Cell Measured Sound Power Levels

Dampening Product Installed?	Measured Sound Power Level [dB] – 1/1 Octave Bands							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	LwA
No	77.9	80.9	84.1	82.3	80.5	76.9	69.4	84.9
Yes	77.9	80.9	81.0	77.9	73.7	67.2	64.8	79.3

In a study conducted at an existing installation of the fuel cell systems, measurements were taken of the fuel cell banks with and without the dampening product. The Noise Reduction (NR) of the dampening product was calculated by taking the difference of these measured values at octave band frequencies. Note that no significant reduction was shown at the 63 Hz and 125 Hz bands. The modified sound levels for the fuel cells that were utilized in calculations shown in this report are shown in Table 3.

Table 4. Measured Sound Dampening Foam Mitigation

Condition	Measured Sound Pressure Level [dB] @10ft – 1/1 Octave Band				
	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
No Foam	70.8	66.8	65.5	62.4	53.6
Foam	67.8	62.5	58.7	52.8	49.0
Difference (NR)	3.1	4.4	6.8	9.7	4.6

Appendix B – Calculation Methods

Sound level attenuates over distance by a factor of -6 dB per doubling of distance. For example, if a sound source was measured to be 60 dBA at a distance of 10 feet, the measured sound level at 20 feet would be 54 dBA. Sound level reduction due to distance is calculated according to the following equation:

$$L_p = L_w + 10\log_{10} Q - 20\log_{10} d - 0.7$$

Where:
d = The distance between the center of the fuel cell unit to the property line in feet.
L_p = The sound pressure level at a distance *d* in decibels.
L_w = The sound power level from the fuel cell. Sound power levels are reported above in Appendix A in decibels.
Q = The directivity factor which dictates how sound radiates outward from the source. See Figure 2 below from the 2015 American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) Handbook, Chapter 48 describing *Q* factors and their associated sound radiation patterns.

Figure 2. ASHRAE Handbook: Q Factor Sound Radiation Patterns

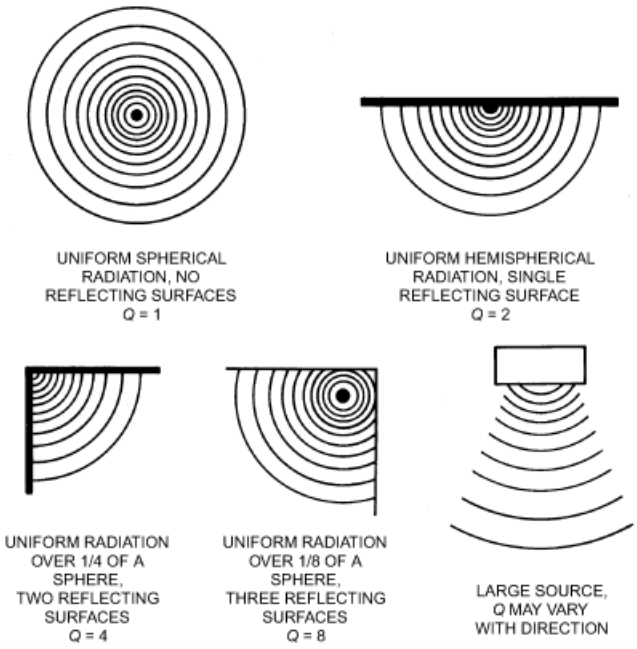


Fig. 30 Directivity Factors for Various Radiation Patterns

In the equation above, the greater the distance away from the sound source (*d*), the lower the sound level. This is intuitive and most people would consider this common knowledge.

In general, the more reflecting surfaces there are adjacent to a noise source, the more sound will bounce off these surfaces and radiate outward. In other words, larger *Q* factors will increase the noise level. For example, a fuel cell sitting on the ground, with nothing else around, would have a *Q* factor of 2 because the ground that the fuel cell is sitting on acts as a single reflecting surface. Another example would be a fuel cell sitting on the ground with a retaining wall on one side of it; this system would have a *Q* factor of 4 because both the ground and the retaining wall act as reflecting surfaces. A doubling of the *Q* factor increases the receiver noise level, L_p, by 3 dB.

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Exhibit 8

Bloomenergy

VIA CERTIFICATE OF MAILING

March 15, 2022

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 2,000 kilowatts of Customer-Side Distributed Resource at Americold, 24 Northwest Drive, Plainville, Connecticut

Dear Ladies and Gentlemen:

Pursuant to Section §16-50j-40 of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that Bloom Energy intends to file, on or about March 21, 2022, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 2,000-kilowatt fuel cell installation and associated equipment. The Facility will be located at the Americold refrigerated warehouse under construction at 24 Northwest Drive in Plainville, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of Americold's annual load with a renewable energy source[1] and improve reliability of electrical systems and equipment. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Keeping the lines of communication open is an important part of our work in your community. If you have questions about this work, please contact the undersigned or the Council.

Respectfully,

Kristen Grillo
Senior Permitting Specialist
Kristen.grillo@bloomenergy.com

Be

[1]Connecticut General Statutes §16-1(a)(26)(A) identifies fuel cells as a "Class I renewable energy source".

ABUTTING PROPERTY OWNERS

		subject parcel				
Map-Block-Lot	**Property Address**	**Owner Name**	**Mailing Address**	**Town**	**State**	**Zip**
08-A-34	24 Northwest Drive	Americold Real Estate LP	10 Glenlake Park Way	Atlanta	GA	30328
08-A-34-ATT	0 Johnson Avenue Rear	AT&T	P.O. Box 7207	Bedminster	NJ	07921
04-A-01-2	41 Northwest Drive	41 Northwest Drive Properties LLC	41 Northwest Dr.	Plainville	CT	06062
04-A-01-3	37 Northwest Drive	New England Service Co.	37 Northwest Dr.	Plainville	CT	06062
04-A-01	29 Northwest Drive	Tech 2 LLC	6 Executive Dr.	Farmington	CT	06032
07-A-17A	0 Northwest Drive	Town of Plainville	1 Central Sq.	Plainville	CT	06062
07-A-17	0 Northwest Drive	Town of Plainville	1 Central Sq.	Plainville	CT	06062
08-A-35	0 Woodside Lane	Town of Plainville	1 Central Sq.	Plainville	CT	06062
08-A-34-19	35 Corporate Avenue	Connecticut Tool & Manufacturing	35 Corporate Ave.	Plainville	CT	06062
08-A-34-11	40 Corporate Avenue	Kev-Con Investments LLC	40 Corporate Ave.	Plainville	CT	06062
08-A-34-14	45 Farmington Valley Drive	Douglas W. & Warren W. Rothmann	45 Farmington Valley Ave.	Plainville	CT	06062
08-A-34-8	50 Farmington Valley Drive	Royal Realty LLC	234 Southeast Rd.	New Hartford	CT	06057
08-A-34-07	10 Farmington Valley Drive	Tech 1 LLC	6 Executive Dr.	Farmington	CT	06032

OFFICIALS

Name	Title	Mailing Address	Town	State	Zip
William Tong	Attorney General	165 Capitol Ave.	Hartford	CT	06106
Katie Dykes	Commissioner, Dept. of Energy and Environmental Protection	79 Elm St.	Hartford	CT	06106-5127
Marissa Paslick Gillett	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Dr. Jewel Mullen	Commissioner, Dept. of Public Health	410 Capitol Ave.	Hartford	CT	06134
Susan D. Merrow	Chair, Council on Environmental Quality	79 Elm St.	Hartford	CT	06106
Bryan P. Hurlburt	Commissioner, Dept. of Agriculture	450 Columbus Blvd., Suite 701	Hartford	CT	06103
Jeffrey R. Beckham	Acting Secretary, Office of Policy and Management	450 Capitol Ave.	Hartford	CT	06106
Joseph Giulietti	Commissioner, Dept. of Transportation	2800 Berlin Turnpike	Newington	CT	06111
David Lehman	Commissioner, Dept. of Economic and Community Development	450 Columbus Blvd.	Hartford	CT	06103
Brenda Bergeron	Deputy Commissioner, Dept. of Emergency Management and Homeland Security	1111 Country Club Rd.	Middletown	CT	06457
Michelle H. Seagull	Commissioner, Dept. of Consumer Protection	450 Columbus Blvd., Suite 901	Hartford	CT	06103
Josh Geballe	Commissioner, Dept. of Administrative Services	450 Columbus Blvd.	Hartford	CT	06103
Danté Bartolomeo	Interim Commissioner, Dept. of Labor	200 Folly Brook Blvd.	Wethersfield	CT	06109
Richard Blumenthal	Senator	706 Hart Senate Office Building	Washington	DC	20510
Chris Murphy	Senator	136 Hart Senate Office Building	Washington	DC	20510
Jahana Hayes	U.S. Representative	1415 Longworth House Office Building	Washington	DC	20515
Henri Martin	State Senator, 31st District	Legislative Office Building, Room 2403 300 Capitol Ave.	Hartford	CT	06106
William A. Petit	Representative, 22nd District	Legislative Office Building, Room 4200 300 Capitol Ave.	Hartford	CT	06106
	Capitol Region Council of Governments	214 Main St.	Hartford	CT	06106-5310
Katherine Pugliese	Chair, Town Council, Town of Plainville	One Central Sq.	Plainville	CT	06062
Robert E. Lee	Town Manager	One Central Sq.	Plainville	CT	06062
Mark DeVoe	Town Planner	One Central Sq.	Plainville	CT	06062
Marguerite Burns, Chair	Conservation Commission	One Central Sq.	Plainville	CT	06062

	Inland Wetlands and Watercourses Commission	One Central Sq.	Plainville	CT	06062
	Planning and Zoning Commission	One Central Sq.	Plainville	CT	06062
	Zoning Board of Appeals	One Central Sq.	Plainville	CT	06062
Kathleen A. Blonski	Town Manager	1 Monteith Dr.	Farmington	CT	06032
C.J. Thomas, Chair	Town Council	1 Monteith Dr.	Farmington	CT	06032
Shannon Rutherford, P.E.	Town Planner	1 Monteith Dr.	Farmington	CT	06032
Inez St. James, Chair	Town Plan & Zoning Commission	1 Monteith Dr.	Farmington	CT	06032
Kerry Callahan, Chair	Zoning Board of Appeals	1 Monteith Dr.	Farmington	CT	06032
Robert J. Hannon, Chair	Conservation & Inland Wetlands Commission	1 Monteith Dr.	Farmington	CT	06032

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3.	David Lehman, Commissioner Department of Economic and Community Development 450 Columbus Blvd., Suite 5 Hartford, CT 06103				
4.	~~Brenda Bergeron, Dep. Commissioner.~~ Division of Emergency Management and Homeland Security 1111 Country Club Rd. ~~Middletown, CT~~				
5.	~~Michelle H. Seagull, Commissioner~~ Department of Consumer Protection 450 Columbus Blvd., Suite 901 ~~Hartford, CT 06103~~				
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2.	Hon. Richard Blumenthal Senator 706 Hart Senate Office Building Washington, DC 20510				
3.	Hon. Chris Murphy Senator 136 Hart Senate Office Building Washington, DC 20510				
4.	Hon. Jahana Hayes U.S. Representative 1415 Longworth House Office Building Washington, DC 20515				
5.	Hon. Henri Martin State Senator, 31st District Legislative Office Building, Room 2403 300 Capitol Ave. Hartford, CT 06106				
6.	Hon. William A. Petit Representative, 22nd District Legislative Office Building, Room 4200 300 Capitol Ave. Hartford, CT 06106				

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3.	Robert E. Lee Town Manager One Central Sq. Plainville, CT 06062				
4.	Mark DeVoe Town Planner One Central Sq. Plainville, CT 06062				
5.	Marguerite Burns, Chair Conservation Commission One Central Sq. Plainville, CT 06062				
6.	Inland Wetlands and Watercourses Commission One Central Sq. Plainville, CT 06062				

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4.	Kathleen A. Blonski Town Manager 1 Monteith Dr. Farmington, CT 06032				
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2.	Robert J. Hannon, Chair Conservation & Inland Wetlands Commission 1 Monteith Dr. Farmington, CT 06032				
3.	Kerry Callahan, Chair Zoning Board of Appeals 1 Monteith Dr. Farmington, CT 06032				
4.	Americold Real Estate LP 10 Glenlake Park Way Atlanta, GA 30328				
5.	AT&T P.O. Box 7207 Bedminster, NJ 07921				
6.	41 Northwest Drive Properties LLC 41 Northwest Dr. Plainville, CT 06062				

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2.	Tech 2 LLC 6 Executive Dr. Farmington, CT 06032				
3.	Town of Plainville 1 Central Sq. Plainville, CT 06062				
4.	Connecticut Tool & Manufacturing 35 Corporate Ave. Plainville, CT 06062				
5.					
6.					

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3.					
4.					
5.	Douglas W. & Warren W. Rothmann 45 Farmington Valley Ave. Plainville, CT 06062				
6.	Royal Realty LLC 234 Southeast Rd. New Hartford, CT 06057				

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Exhibit 9

From: Mark Devoe
To: Jennifer Young Gaudet
Subject: Re: Bloom Energy - Americold, 24 Northwest Drive
Date: Tuesday, February 22, 2022 10:42:52 AM
Attachments: image001.png

Thank you Jennifer,

At first glance, the installation seems to comply with all the bulk zoning regulations. We understand that fuel cell installations are subject to Siting Council jurisdiction and as such, look forward to commenting on the project when they reach out to us.

Thank you for reaching out and letting us know what's on the horizon.

Mark DeVoe
Town Planner
Town of Plainville
One Central Square
Plainville, CT 06062
(860) 793-0221 Ext. 7177
devoe@plainville-ct.gov

From: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Sent: Tuesday, February 22, 2022 10:24 AM
To: Mark Devoe <devoe@plainville-ct.gov>
Subject: RE: Bloom Energy - Americold, 24 Northwest Drive

JENNIFER YOUNG GAUDET
PROGRAM MANAGER
M | 860.798.7454
All-Points Technology Corporation

From: Mark Devoe <devoe@plainville-ct.gov>
Sent: Tuesday, February 22, 2022 10:18 AM
To: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Cc: Andrew P. White <APWhite@tigheBond.com>; Mark Lichtenwalner <mlichtenwalner@primusbuilders.com>
Subject: Re: Bloom Energy - Americold, 24 Northwest Drive

Hi Jennifer,

I think you are ok. The cells are shown in the area first approved for the transformer bank. Because it is intertwined with a PZC re-approval for the transformer location, we need to wait until Americold (through Tighe and Bond and Primus) make that application to PZC.

Mark DeVoe
Town Planner
Town of Plainville
One Central Square
Plainville, CT 06062
(860) 793-0221 Ext. 7177
devoe@plainville-ct.gov

From: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Sent: Tuesday, February 22, 2022 10:04 AM
To: Mark Devoe <devoe@plainville-ct.gov>
Subject: Bloom Energy - Americold, 24 Northwest Drive

Mark –

Thank you for the opportunity to talk with you about Bloom Energy's planned installation at the Americold development currently under construction. As discussed, attached are proposed plans. As shown, the Bloom energy servers would be located at the northeast corner of the building, facing Northwest Drive, and would connect to utilities west of the energy servers (both exterior and interior).

I'll look forward to hearing from you after you have a chance to review the attached plans.

Thank you.
Jennifer

JENNIFER YOUNG GAUDET
Program Manager
D| 860.581.4478 · **M**| 860.798.7454 · **W**|
www.allpointstech.com
567 Vauxhall Street Extension – Suite 311, Waterford, CT 06385

From: Mark Devoe
To: Jennifer Young Gaudet
Subject: Re: Americold - Bloom
Date: Monday, March 14, 2022 11:40:50 AM

Perfect Jennifer,

I don't know how the PZC will react but will counsel them accordingly on CSC filings.

Mark DeVoe
Town Planner
Town of Plainville
One Central Square
Plainville, CT 06062
(860) 793-0221 Ext. 7177
devoe@plainville-ct.gov

From: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Sent: Monday, March 14, 2022 11:39 AM
To: Mark Devoe <devoe@plainville-ct.gov>
Subject: RE: Americold - Bloom

Hi Mark –

I'm so sorry to hear and hope you will be feeling better quickly. Thanks very much for sending this over. It confirms that the Bloom plans are consistent with this design and should not require any adjustment, unless there will be plan changes resulting from the 3/22 P&Z meeting. At this point, it seems appropriate for Bloom to go ahead with the CSC petition filing early next week, recognizing that there will be additional opportunity for Town comments after the petition is filed. You will receive a pre-filing letter from Bloom and a notice and invitation to comment directly from the CSC. If, in the interim, there are any questions or comments, please don't hesitate to let me know.

Thank you again for your assistance.

Jennifer

JENNIFER YOUNG GAUDET
PROGRAM MANAGER
M| 860.798.7454
All-Points Technology Corporation

From: Mark Devoe <devoe@plainville-ct.gov>
Sent: Monday, March 14, 2022 11:25 AM
To: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Subject: Americold - Bloom

Hi Jennifer,

Sorry I'm unable to speak right now. Hope to be able to open that big trap in a few days on a limited basis. Neck issues.

Site plan for 3/22/22 attached.

Mark DeVoe
Town Planner
Town of Plainville
One Central Square
Plainville, CT 06062
(860) 793-0221 Ext. 7177
devoe@plainville-ct.gov