Bloomenergy

December 16, 2019

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

RE: Petition No. 1090, Petition of Bloom Energy Corporation for Approval of a Modification to the Approved Fuel Cell Facility at the Danbury Fair Mall, 7 Backus Avenue, Danbury, Connecticut

Dear Attorney Bachman:

We are submitting an original and fifteen (15) copies of the above-captioned Petition for Amendment.

In the Petition, Bloom Energy Corporation ("Bloom") requests the Connecticut Siting Council approve a modification of the existing Facility at the Danbury Fair Mall at 7 Backus Avenue in Danbury, Connecticut. The proposed modification consists of the construction and operation of a new 250-kilowatt fuel cell and associated equipment. Electricity generated by the Facility will benefit the Mall's operations, and any excess electricity will be exported to the electric grid. The existing Facility is fueled natural gas, and the modifications also will be.

Should you have any questions, concerns, or require additional information, please contact me at (860) 839-8373.

Sincerely,
Bloom Energy

Justin Adams
justin.adams@bloomenergy.com
(860) 839-8373

Enclosure

Bloomenergy

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

PETITION OF BLOOM ENERGY CORPORATION FOR APPROVAL OF A MODIFICATION TO THE APPROVED FUEL CELL FACILITY AT THE DANBURY FAIR MALL, 7 BACKUS AVENUE, DANBURY, CT	)))))	PETITION NO. 1090 DECEMBER 16, 2019

PETITION OF BLOOM ENERGY CORPORATION
FOR AMENDMENT

Bloom Energy Corporation ("Bloom") hereby requests an amendment to the Declaratory Ruling in Petition No. 1090, issued by the Connecticut Siting Council ("Council"). The amendment is requested to approve the construction, maintenance and operation of a second energy server installation at 7 Backus Avenue in Danbury, Connecticut (the "Site"). As described below and in the accompanying exhibits, the proposed addition will not increase the adverse environmental effect of the Facility.

I. BACKGROUND

The Site consists of several parcels that together constitute the Danbury Fair Mall ("Mall"). The approximately 69.58-acre property is owned by multiple entities associated with the Mall, including Danbury Mall LLC, JC Penney's Properties, Inc., Macy's Retail Holdings, Inc., and LT Propco, LLC. The Mall itself is owned and managed by The Macerich Company through an affiliate ("Macerich").

On January 23, 2014, the Council ruled that the construction, maintenance and operation of a 750-kilowatt fuel cell facility proposed by Bloom at the Site (the "Facility") would not have

a substantial effect and, pursuant to Connecticut General Statutes ("C.G.S.") § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need. The Facility, located in the northern portion of the Site adjacent to the Lord & Taylor store and the Mall parking garage, was completed on June 23, 2014.

II. PROPOSAL

After consultation and based on performance of the existing Facility, which connects to electrical equipment associated with the northern section of the Mall, Bloom and Macerich have determined that it would be beneficial to add fuel cell capacity for the southern section of the Mall in order to advance Macerich's sustainability goals and improve reliability of electrical systems and equipment. As a result, Bloom is proposing to modify the Facility by undertaking a second fuel cell installation at the Mall ("Phase II"). The Phase II installation will provide 250 kilowatts (kW) (net) of power for the electrical load associated with the equipment located in the electrical room on the southern side of the Mall.

There will be no change to the existing energy servers approved in Petition No. 1090.

The existing Facility contributes to meeting the State's Renewable Portfolio Standard as a zero emission Class I renewable energy source.[1] It is a "customer-side distributed resources" Facility, as defined in C.G.S. § 16-1(a)(40). The proposed Phase II will increase the generation capacity of the Facility, and conforms to the State's policy of developing and utilizing renewable energy resources "to the maximum practicable extent."

[1] Bloom's Energy Server qualifies as a Class I renewable energy source fuel cell as defined in Conn. Gen. Stat. §16-1(a)(20)(A). Decision, Docket No. 12-02-09, September 12, 2012.

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III. COMMUNICATIONS

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

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IV. DISCUSSION

A. Project Description

Bloom is proposing the installation of an additional fuel cell at the Site, bringing the total number of fuel cells comprising the Facility to two. The new fuel cells will be installed in an existing landscaped area on the southern side of the Mall, to the west of the Dick's Sporting Goods store, south of an existing loading dock and screen wall, and east of the parking lot and access drive. It will be interconnected to an existing electrical switchboard within the Mall building. The Energy Server and associated equipment will be placed on a new concrete surface. Existing landscape trees along the loading dock screen wall will be removed in the immediate area of the Phase II installation.

Additional site details are shown on Exhibit 2.

The installation has been sized to handle the nighttime load of below 300 kW while minimizing export during the nighttime period of low demand for the electrical load associated with the electrical room on the southern side of the mall. See Exhibit 3. Electricity generated by

the expanded Facility will be consumed primarily at the Site, and any excess electricity will be exported to the grid.

B. The Facility

The Phase II fuel cell installation will consist of one (1) Bloom solid oxide fuel cell Energy Server, model 250 kW ES5-AA2AAN, and associated equipment. The associated equipment includes water deionizers, telemetry cabinets, disconnect switches and utility cabinets. The Facility is enclosed, factory-assembled and tested prior to installation on the Site. See Exhibit 3 for the Bloom Energy Server Product Datasheet.

The operational life of the Facility is for the life of the 10-year contract and the solid oxide media in the fuel cells are exchanged at roughly five-year intervals. The Facility, the connections, and associated equipment will be installed in compliance with applicable building, plumbing, electrical, and fire codes. At the conclusion of the 10-year contract, Macerich may renew the contract, return the Facility at no cost, or buy the Facility at a fair market value. If the Facility is to be removed at the end of the contract or if there is a default in the contract, the Energy Server, associated equipment and components will be dismantled and removed and the site will be restored as nearly as practicable to its effective original condition.

The Phase II Facility will be capable of producing a total of 250 kW of continuous, reliable electric power. The Facility will interconnect to the Site's distribution system and operate in parallel with the grid to provide the Site's electrical requirements. Any electricity generated in excess of the Site's requirement will be exported to the grid in accordance with the Eversource Energy ("Eversource") interconnection technical requirements. This installation will not have an uninterruptible power module ("UPM") and thus will not have any means to output

power in a grid independent capacity at any time. The grid-parallel output will interconnect with the utility power system at the switchboard within the existing building.

Each Energy Server is equipped with a UL-1741 listed inverter set that complies with IEEE-1547 standards for interconnection of inverter-based distributed generation. It is UL Recognized under UL Category QIKH2 and UL File Number E310552. The interconnection application for the Phase II Facility is scheduled to be submitted to Eversource by December 15, 2019. Phase II will be fueled by natural gas supplied by Eversource, as is the existing Facility.

The Facility will have extensive hardware, software and operator safety control systems, designed in accordance with American National Standards Institute and Canadian Standards Association for Stationary Fuel Cell Power Systems ("ANSI/CSA"). It is Listed by UL as a "Stationary Fuel Cell Power System" to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102. The Facility would be controlled remotely and have internal sensors that continuously monitor 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 Control Center (RMCC) operator can also remotely initiate any emergency sequence. An emergency stop alarm initiates an automatic shutdown sequence that puts the system into "safe mode" and causes it to stop exporting power. Bloom operators can assess different situations and take the necessary actions to mitigate impacts on the fuel cells during maintenance work, shutdowns or outages and enable them to come back online smoothly and efficiently when the disruption is completed. In addition, Site personnel are provided with an Emergency Response Plan. Exhibit 4.

The Facility will be installed in accordance with NFPA 853[2]. This standard provides fire prevention and fire protection requirements for safeguarding life and physical property associated with buildings or facilities that employ stationary fuel cell systems of all sizes. The risk of fire related to the operation of the Facility is therefore very low. Furthermore, in the Facility, natural gas is not burned; it is used in a chemical reaction to generate electricity. Any variation in heat outside of the operational parameters will trigger an automatic shutdown of the energy server. Before commissioning, the fuel lines (pipe) are cleaned in accordance with Conn. Gen. Stat. Section 16-50ii[3].

C. Existing Environment

i. The Site

The Site consists of six parcels located at 7 Backus Avenue in the central portion of Danbury south of the intersection of I-84 and Route 7. It is zoned CG-20, General Commercial. The Mall consists of a large retail space and a parking garage. Surrounding properties to the south and west are commercially developed for retail use. Danbury Airport is also to the south. Route 7 runs to the east of the Site, with commercial and industrial properties located beyond. Wetlands associated with the Still River and Miry Brook border the Site to the north and west respectively, with I-84 beyond the wetlands.

ii. Wildlife and Habitat

A review of the publicly available Natural Diversity Database (NDDB) June 2019 data shows that a portion of the Site is within a Natural Diversity Database. Exhibit 6. A Request for Natural Diversity Data Base (NDDB) State Listed Species Review was submitted to the

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

Connecticut DEEP Bureau of Natural Resources Wildlife Division (CTDEEP). A determination of no anticipated negative impacts to the State-listed species (R.C.S.A. § 26-306) was received from CTDEEP on December 3, 2019.

iii. Wetlands and Watercourse

There are no identified wetlands or watercourses within the proposed location of the Facility. Wetlands are found at portions of the perimeter of the Site and on abutting properties. The Still River runs to the north and northwest of the Site; Miry Brook runs to the west and southwest; and Kissen Brook runs to the southeast. The Phase II installation is located within a previously developed area and no additional clearing and minimal excavation and grading is required for its development. *See* Exhibit 7. As described herein, appropriate erosion and sedimentation control measures will be employed.

iv. Cultural Resources

The Facility is proposed in a previously disturbed area and the construction and operation of the Facility will therefore not have a substantial adverse effect on cultural (archaeological and historical) resources.

v. 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") has shown the Facility would be located within Zone X, an area of Minimal Flood Hazard. *See* Exhibit 8.

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by CTDEEP, the closest Aquifer Protection Area is located approximately .72 mile to the northwest of the proposed Facility.

D. Environmental Effects and Mitigation

i. Natural Gas Desulfurization Process

The first step in the production of electricity in a Bloom Energy server is desulfurization – the removal of the sulfur compounds that have been added to the natural gas as an odorant by the natural gas suppliers. This step occurs in the desulfurization unit ("Desulf Unit"), a canister that contains a filter made for this purpose. Sulfur is not "produced" in this process, but is separated from the natural gas in which it was contained. In this process, trace levels of sulfur oxides and other naturally occurring elements may also absorb to the filter.

The desulfurization process takes place entirely within the Desulf Unit. Because they are built to hold natural gas, their structural integrity is essential. That integrity is assured by around the clock monitoring of the Energy Servers to detect any leak. Were there a leak, the Server (including the desulfurization operation) would shut down automatically. The structural integrity and leak prevention continue after the desulfurization canisters are removed from service. At that point, the entry and exit points for the natural gas automatically seal shut. The desulfurization canister remains sealed and is not opened at the Site, or anywhere in the State of Connecticut. No gaseous substances are released or vented at any point during the desulfurization process.

The Desulf Unit contains a composite copper catalyst that includes copper. This catalyst removes non-hazardous sulfur odorants from the natural gas feedstock. The sulfur, if not removed, would rapidly and irreversibly damage the fuel cells, bringing the production of electricity to a halt. Although the Desulf Unit is not intended to capture benzene or any other hazardous material, a small amount of benzene adheres to the adsorbent in the Unit.

The Desulf Units are periodically removed from service and replaced with Units containing fresh composite copper catalyst. Upon disconnection, the Desulf Unit automatically

seals shut—to assure there is no release of natural gas. The Desulf Units are certified by the U.S. Department of Transportation (DOT) as meeting the hazardous waste shipment standards of the United Nations, DOT, IATA, ICAO and IMO Hazardous Materials Distribution and Packaging requirements.

The spent units are transported to ShoreMet, L.L.C. (ShoreMet) in Indiana, a facility 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.

The Indiana Department of Environmental Management (IDEM) reviewed ShoreMet's management of Bloom's spent desulfurization units. IDEM issued a letter concluding that the spent desulfurization units sent to ShoreMet are excluded from hazardous waste requirements because the contents (i.e., spent media) are used to make copper products (Code of Federal Regulation, title 40, section 261.2(e)(1)(i)). The US Environmental Protection reviewed IDEM's findings and agreed. The California Department of Toxic Substances Control (DTSC) reviewed these decisions and concluded that the Desulf Units are excluded recyclable material (ERM) under California Health and Safety Code, section 25143.2, subsection (b). There are a number of conditions that apply to this exemption; Bloom satisfies those conditions.

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.

With respect to water discharges, the Facility is designed to operate without water discharge under normal operating conditions. There are no connections or discharge points to the proposed Facility. Additionally, the Facility would use no water during normal operation beyond a 96-gallon injection at start-up.

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, which governs air emissions from new distributed generators, exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility[4]. Even though the fuel cell systems are exempt from the emissions requirements, Bloom Energy fuel cells do meet the emissions standards of Section 22a-174-42. Per Section 22a-174-42(e)(1)(A) a certification by the California Air Resources Board (CARB) pursuant to Title 17, sections 94200 through 94214 of the California Code of Regulations meets the requirements of Conn. Agencies Regs. § 22a-174-42. The Bloom Energy fuel cells are certified under the CARB distributed generation program. A current list of certified applications is provided on the CARB's distributed generation certification website (http://www.arb.ca.gov/energy/dg/eo/eo-current.htm).

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[5], 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. The CH_4 is broken down in the reforming process. Reforming is the type of process where if you have sufficient catalyst, the

[4] See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).
[5] Sec. 16-244t

reaction can go all the way to completion. That is the case for the Bloom Energy Server. The fuel is reformed in the hot box – with a significant excess catalyst for reaction.

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)[6]	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.

iii. Sound Levels

The nearest parcel boundary is with Danbury Airport to the southwest of the Site. The Airport property is zoned IL-40, Light Industrial, and is defined as a Class C noise zone[7]. The results of the sound model predicting noise levels at the property boundary located approximately 785 feet to the southwest are provided as Exhibit 9. The proposed Facility would be defined as "Scenario 1" in the model. Scenario 1 models noise for a Bloom Energy Server installed close to a building or tall wall with noise from the Energy Server reflected off of the structure. The results of the Scenario 1 sound model at 785 feet is 33.9 dBa, which is in compliance with noise criteria set forth in Connecticut regulations for the Control of Noise[8]. The

[6] Carbon dioxide is measured at Bloom's stated lifetime efficiency level of 53-60%
[7] Conn. Agencies Regs. Sec. 22a-69-2.3. Noise zone standards
[8] Conn. Agencies Regs. Sec. 22a-69-3.5. Noise zone standards

City of Danbury's noise ordinance allows construction activities weekdays from 7:00 a.m. to 8:00 p.m., Saturdays from 8:00 a.m. to 8:00 p.m. and Sunday from 10:00 a.m. to 8:00 p.m.

iv. Visual Effects

The visual effect of the Facility will be minimal. Given the overall scale and level of development of the Site, the incremental effect of the Facility is minimal. In general, any off-site visibility would be obstructed by the Mall structures and minimized by distance from the Site perimeter. On-site visibility would be minimized by retention of existing landscape trees to the south of the Facility and the addition of landscape screening between the Facility and the sidewalk immediately to the west of the Facility. The addition of the Phase II modification is consistent with the existing development on the property.

E. Project Construction and Maintenance

Bloom anticipates construction to start in the second quarter of 2020 with 12-14 weeks of total construction time (4 weeks of site prep, 4 weeks of installation, and 4 weeks of commissioning).

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.

V. COMMUNITY OUTREACH

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)[9]. A copy of the notice letter, a service list and documentation of mailing are provided in Exhibit 10 and the corresponding abutters map is provided as Exhibit 11.

A representative of Bloom discussed Bloom's proposal with Ms. Jennifer Emminger, AICP, Deputy Planning Director for the City of Danbury, and provided information and preliminary plans for review. Since that time, based on initial discussions and due to a

[9] Conn. Agencies Regs. § 16-50j-40(a) requires that "[p]rior to submitting a petition for a declaratory ruling to the Council, the petitioner shall, where applicable, provide notice to each person other than the petitioner appearing of record as an owner of property which abuts the proposed primary or alternative sites of the proposed facility, each person appearing of record as an owner of the property or properties on which the primary or alternative proposed facility is to be located, and the appropriate municipal officials and government agencies [listed in Section 16-50*l* of the Connecticut General Statutes]."

reconfiguration of the Facility components, Bloom has decreased the number of landscape trees to be removed, and has added landscape screening to the west of the Facility. The City provided written comments on December 9, 2019, recommending additional plantings in the area of the Facility. *See* Exhibit 12.

VI. CONCLUSION

As detailed herein, Bloom submits that there will be no substantial environmental effect from the construction, operation and maintenance of the proposed Phase II addition to the existing fuel cell Facility at the Site in Danbury. Bloom therefore respectfully requests that the Council approve the proposed modification to the Facility and amend its Declaratory Ruling in Petition No. 1090.

Respectfully submitted,
Bloom Energy Corporation

By: _____

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EXHIBITS

Exhibit 1A: Site Location Map

Exhibit 1B: Site Schematic

Exhibit 2: Site and Permit Plans

Exhibit 3: Bloom Energy Server System Background Documentation

Exhibit 4: Emergency Response Plan

Exhibit 5: Photos of the Proposed Location

Exhibit 6: DEEP Coastal Boundary, Natural Diversity Data Base (NDDB), Critical Habitats

Exhibit 7: DEEP Wetlands and Watercourse Map

Exhibit 8: FEMA Map

Exhibit 9: Sound Model

Exhibit 10: Notice Pursuant to Conn. Agencies Regs. § 16-50j-40(a)

Exhibit 11: Abutters Map

Exhibit 12: Municipal Consultation

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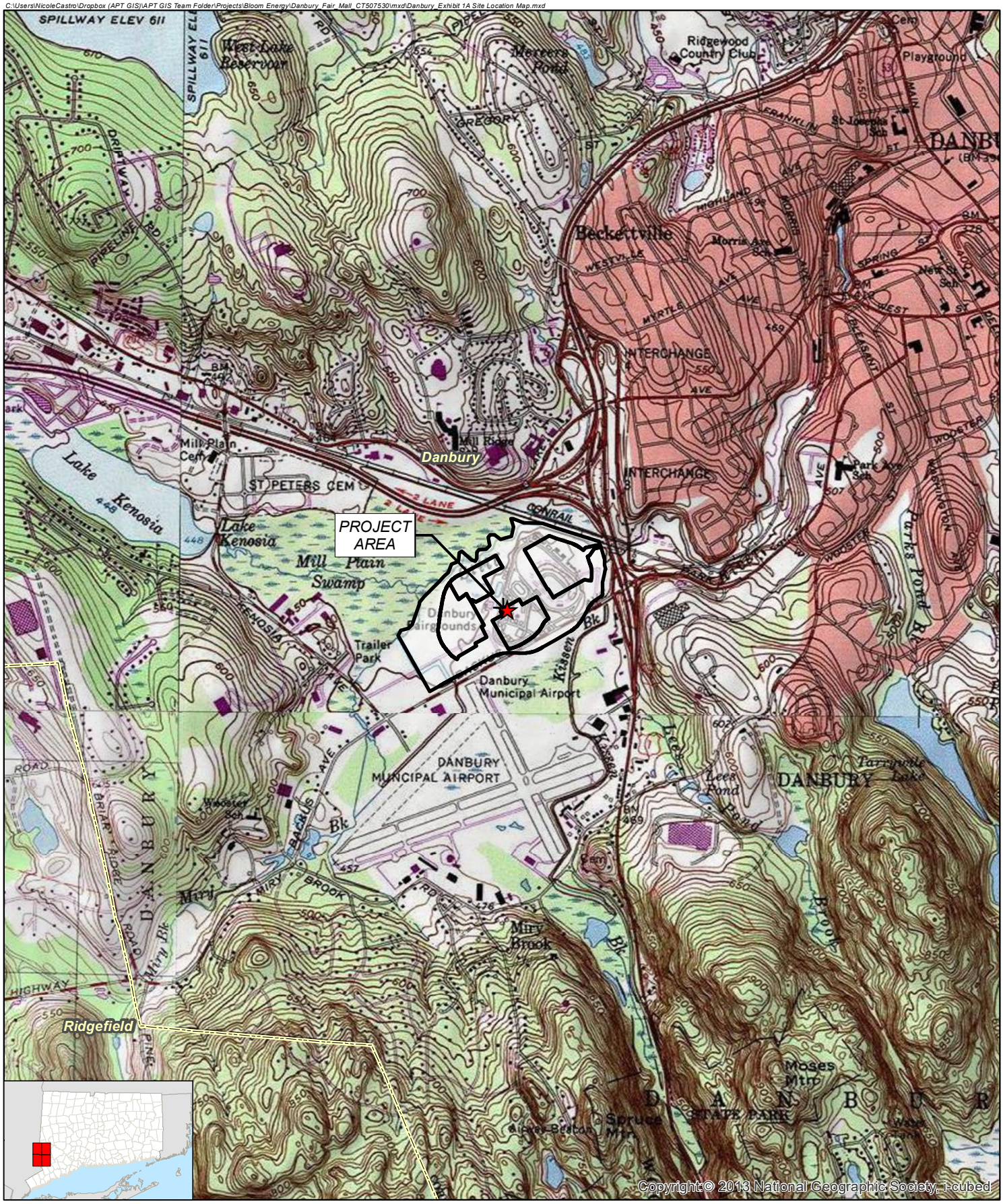
Exhibit 1A

C:\Users\NicoleCastro\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Danbury_Fair_Mall_CT507530\mxd\Danbury_Exhibit 1A Site Location Map.mxd



Legend

- Project Area
- Site
- Municipal Boundary

Map Notes:
Base Map Source: USGS 7.5 Minute Topographic Quadrangle Maps: Brewster (1984), Danbury (1984), Peach Lake (1984) and Bethel (1984), CT
Map Scale: 1:24,000
Map Date: November 2019

N W E S

1,000 500 0 1,000 Feet

Exhibit 1A
Site Location Map

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

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ALL-POINTS TECHNOLOGY CORPORATION

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Exhibit 1B

C:\Users\NicoleCastro\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Danbury_Fair_Mall_CT507530\mxd\Danbury_Exhibit 1B Site Schematic.mxd

Legend

- Site
- Existing Fuel Cell Energy Servers
- Project Area
- Gas Supply Line
- Railroad
- Approximate Assessor Parcel Boundary (CTDEEP)

N
W E
S

450 225 0 450
Feet

Exhibit 1B
Site Schematic

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

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ALL-POINTS TECHNOLOGY CORPORATION

Map Notes:
Base Map Source: CTECO 2016 Aerial Photograph
Map Scale: 1 inch = 450 feet
Map Date: November 2019

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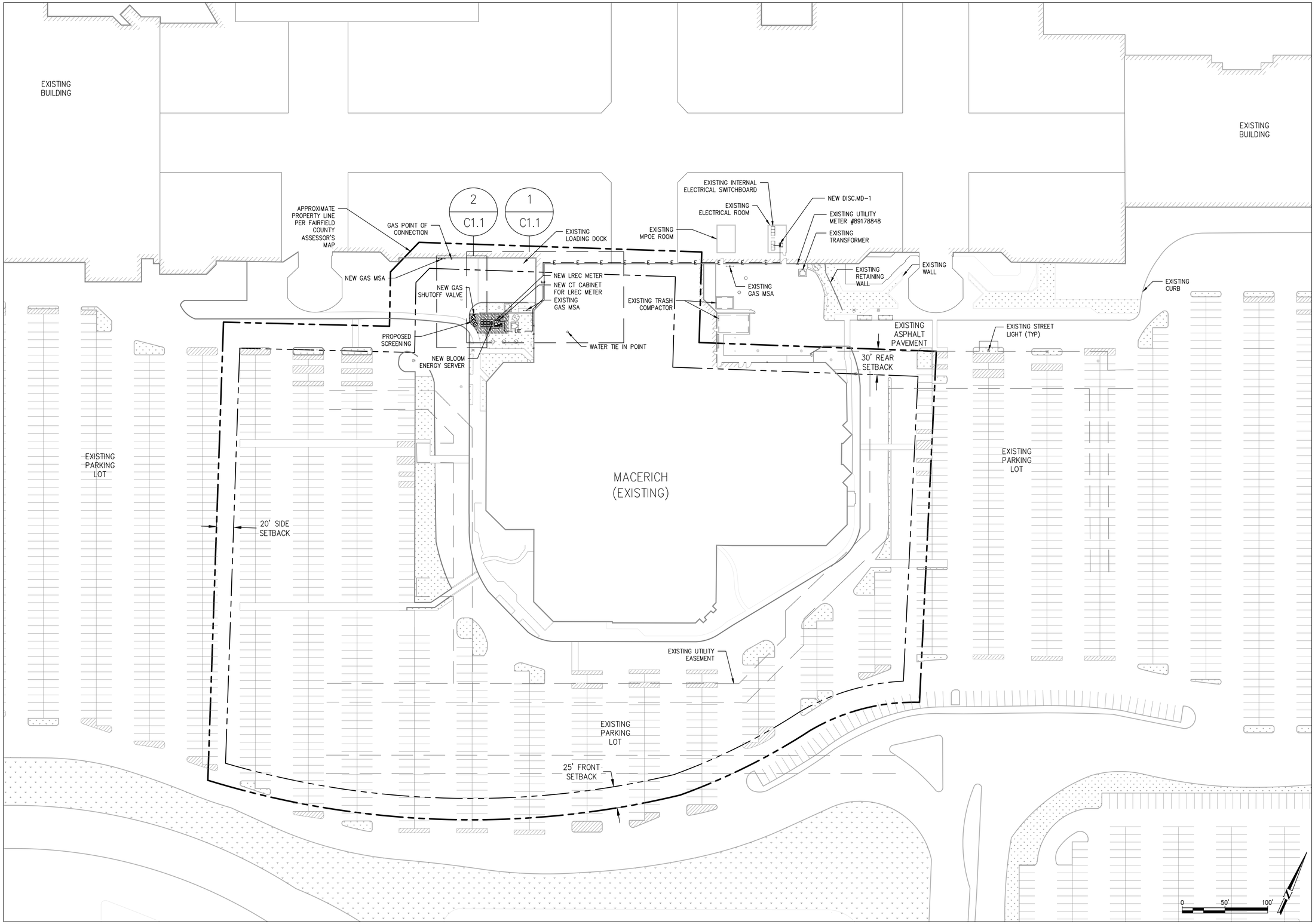
Exhibit 2



OVERALL SITE PLAN

SCALE: 1" = 50'

1
G1.1

Bloomenergy

4353 N 1ST STREET
SAN JOSE, CA 95134

PROPRIETARY AND CONFIDENTIAL

CUSTOMER SITE

MACERICH
7 BACKUS AVENUE
DANBURY, CT 06810

MACERICH®

REVISION HISTORY		
REV	REVISION ISSUE	DATE
–	RELEASED PER ICN-10719	11/14/2019

DESIGNED BY DANIEL VEGA	REVIEWED BY
DRAWN BY JAGANNATH	APPROVED BY

SHEET TITLE

OVERALL SITE PLAN

DRAWING NUMBER

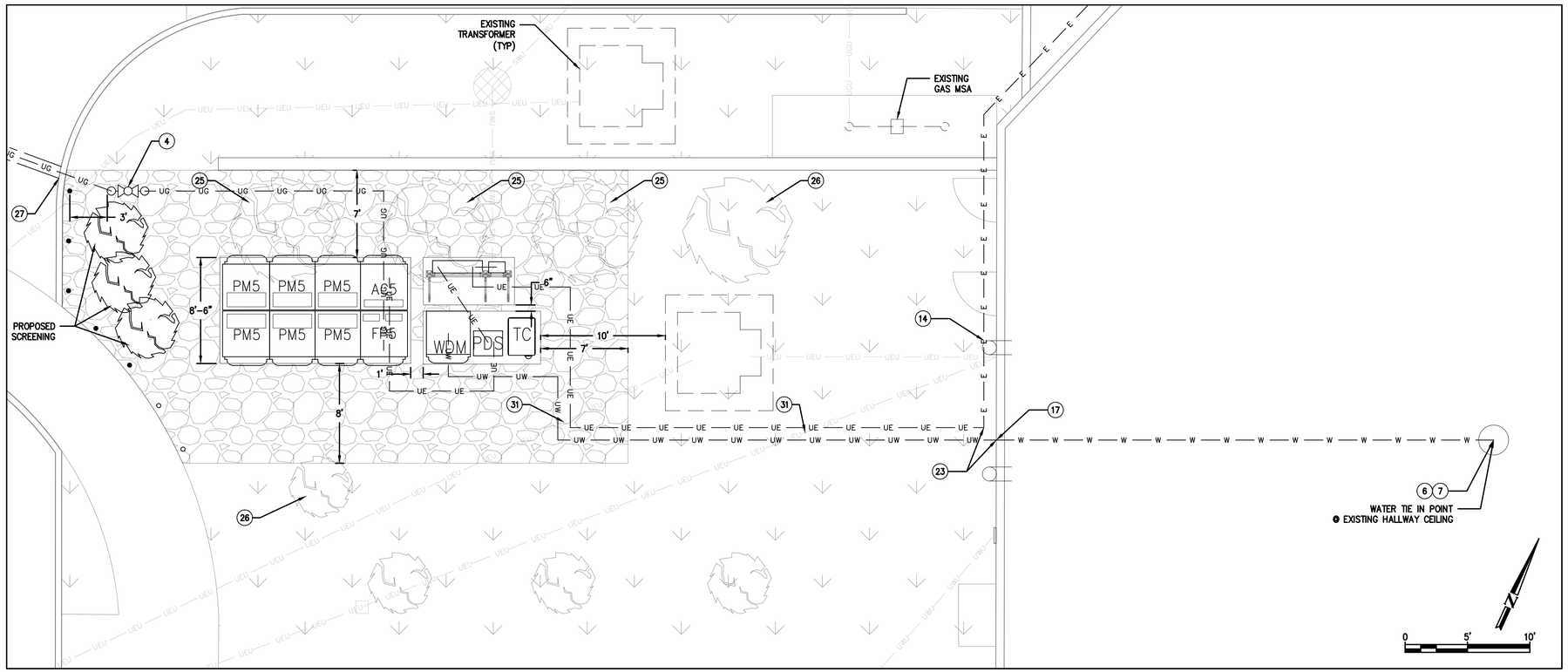
G1.1

BLOOM DOCUMENT

DOC-1011947

THIS DRAWING IS 24" X 36" AT FULL SIZE

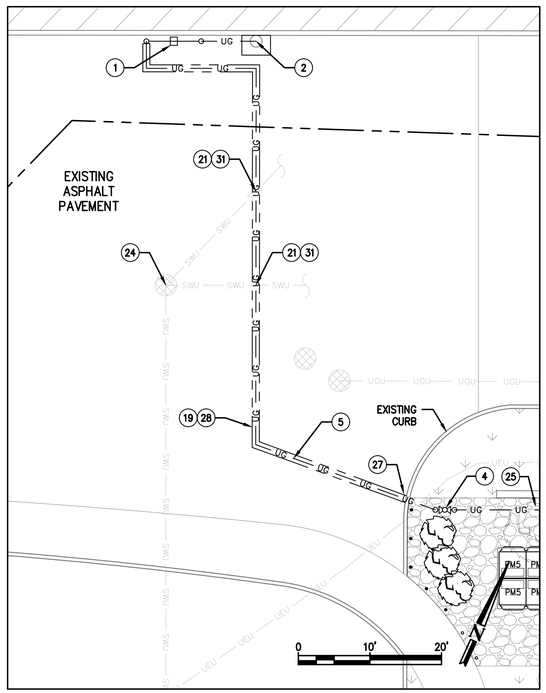
SITE ID: DFM001.0 | SHEET 03 OF 15



DETAILED SITE PLAN

SCALE: 1" = 5'

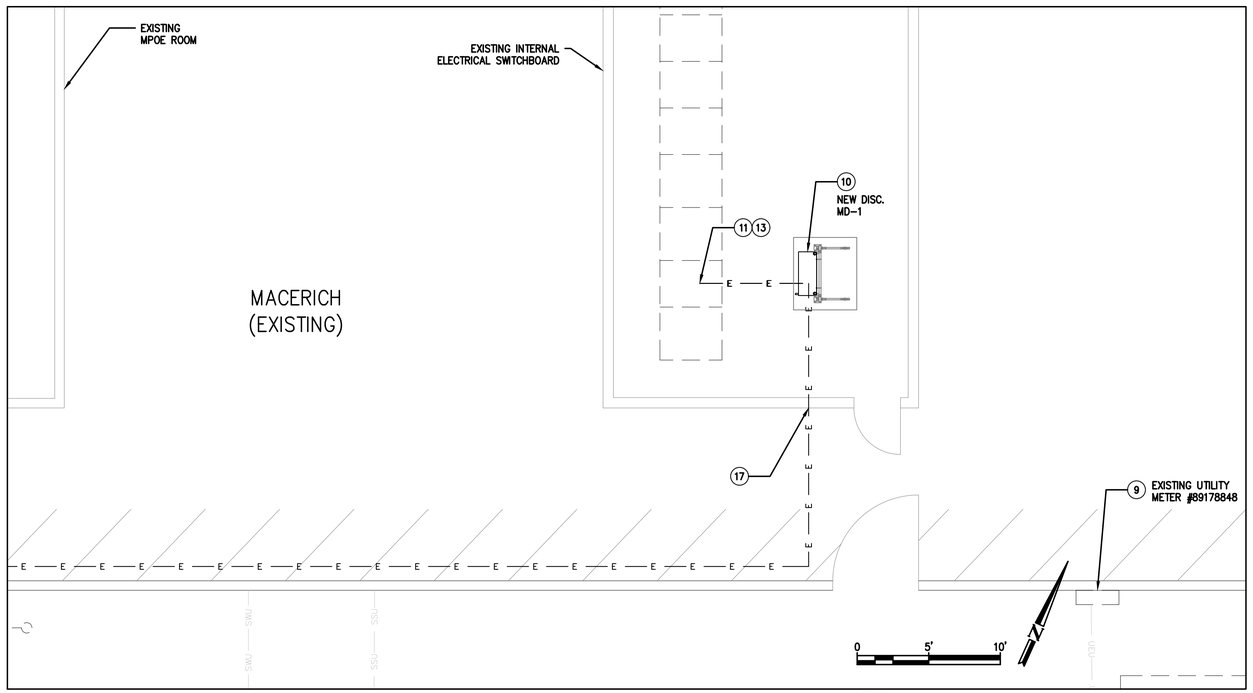
1 / C1.1A



DETAILED SITE PLAN

SCALE: 1" = 10'

2 / C1.1A



DETAILED SITE PLAN

SCALE: 1" = 5'

3 / C1.1A

GENERAL NOTES

1. CLEAN AND PRIME ALL NEW WIRE 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. SLOPE LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUN OFF; SLOPE LINES ARE DRAWN PER VISUAL SURVEY OF SURROUNDING AREA.
4. SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

REFERENCE SHEET NOTES

(1) NEW UTILITY PROVIDED AND INSTALLED GAS METER. CONTRACTOR SHALL PROVIDE PAD PER DETAILS IF REQUIRED BY UTILITY COMPANY. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.

(2) NEW UNDERGROUND GAS SERVICE TAP BY UTILITY COMPANY. COORDINATE WITH GAS UTILITY. CONTRACTOR SHALL PERFORM COMPACTION AND MATCH EXISTING SURFACE AND GRADE. CONTRACTOR SHALL COORDINATE GAS PIPE SIZING AND INSTALLATION REQUIREMENTS WITH UTILITY.

(4) NEW PRIVATE GAS SHUT-OFF VALVE FOR ENERGY SERVER. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.

(5) NEW GAS PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.

(6) 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) 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 PROVIDED, CONTRACTOR INSTALLED, DISCONNECT SWITCH. MOUNT TO STANCHION MOUNTED PER MANUFACTURER AND UTILITY SPECIFICATIONS.

(11) CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

(12) CONTRACTOR SHALL PROVIDE TWO GROUNDING RODS TO BE PLACED 6' APART MINIMUM. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL 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. REFER TO BLOOM STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL 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 PROVIDE SAWCUT TRENCH FOR UNDERGROUND UTILITIES IN THIS LOCATION AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.

(20) CONTRACTOR SHALL SAWCUT TO ALLOW FOR EXCAVATION UNDER ENERGY SERVER AND ANCILLARY PAD LOCATIONS. REFER TO PAD DETAIL FOR ADDITIONAL EXCAVATION AND BACKFILL 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.

(23) CONTRACTOR SHALL TRANSITION ALL ABOVEGROUND NEW 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) PROVIDE "DANDY SACK" OR EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO EROSION CONTROL DETAIL FOR ADDITIONAL REQUIREMENTS.

(25) CONTRACTOR SHALL REMOVE EXISTING TREE.

(26) CONTRACTOR SHALL TRIM EXISTING TREES FOR 10'-0" CLEARANCE TO ENERGY SERVER TOP VENTS AND 6'-0" CLEARANCE TO ALL OTHER SURFACES OF ENERGY SERVER.

(27) CONTRACTOR SHALL UNDER-CUT EXISTING CURB FOR TRENCHING UTILITY LINES AND BACKFILL WITH CONCRETE SLURRY. IF CURB IS DAMAGED, REPAIR TO MATCH EXISTING.

(28) CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK TO THE NEAREST JOINT AS REQUIRED TO COMPLETE THE WORK. REFER TO CONCRETE SIDEWALK DETAIL FOR ADDITIONAL REQUIREMENTS.

(31) 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

Bloomenergy®
4353 N 1ST STREET
SAN JOSE, CA 95134

CUSTOMER SITE

MACERICH
7 BACKUS AVENUE
DANBURY, CT 06810

MACERICH®

REVISION HISTORY		
REV	REVISION ISSUE	DATE
–	RELEASED PER ICN-10719	11/14/2019

DESIGNED BY DANIEL VEGA	REVIEWED BY
DRAWN BY JAGANNATH	APPROVED BY

SHEET TITLE

DETAILED SITE PLAN

DRAWING NUMBER

C1.1A

BLOOM DOCUMENT

DOC-1011947

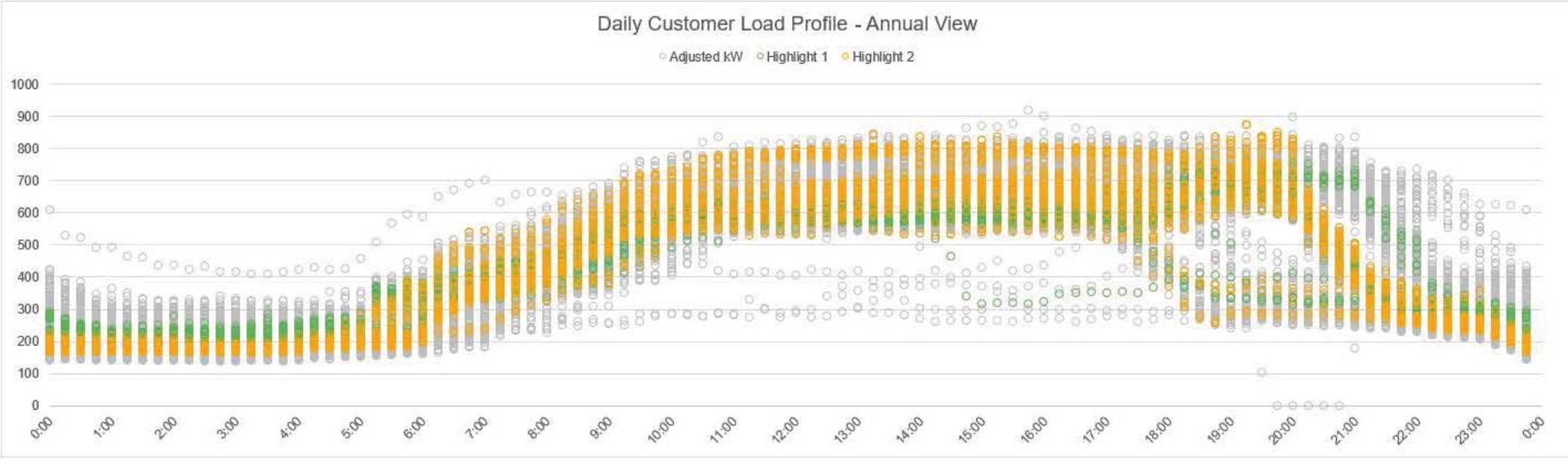
THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: DFM001.0 | SHEET 04 OF 15

Bloomenergy®

Exhibit 3

DANBURY FAIR MALL
7 Backus Avenue
Danbury, CT



The meter data shows a diurnal load peaking during the day with a nighttime load of below 300kW. Bloom Energy therefore sized the system to minimize export during the low demand. Bloom typically does not export over 5% as the utility may not be able to take it on their circuit due to other distributed generation penetration.

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

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F 408 543 1501

info@bloomenergy.com
www.bloomenergy.com

Energy Server 5	Technical Highlights (ES5-AA2AAN)
Outputs	
Nameplate power output (net AC)	262.5 kW
Load output (net AC)	250 kW
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.

Bloom Energy
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DOC-1011593 Rev A

Bloomenergy®

Exhibit 4

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.

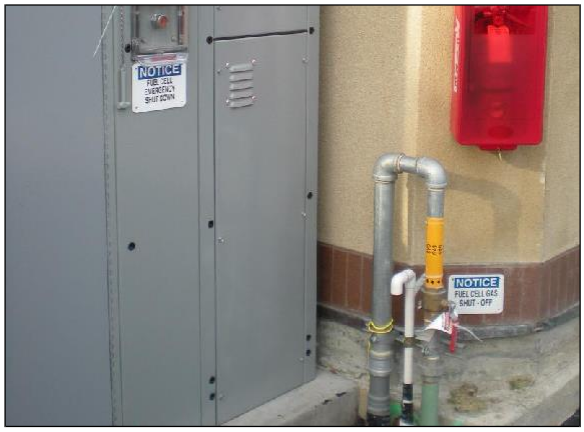

Figure 3: Manual Natural Gas Valve

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

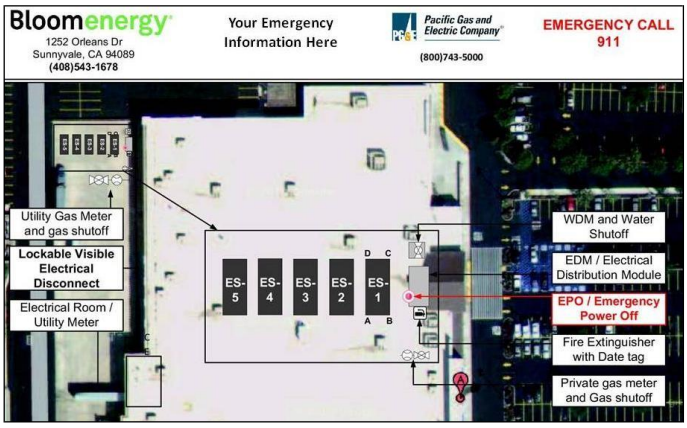

Figure 4: Sample Site Map

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 5

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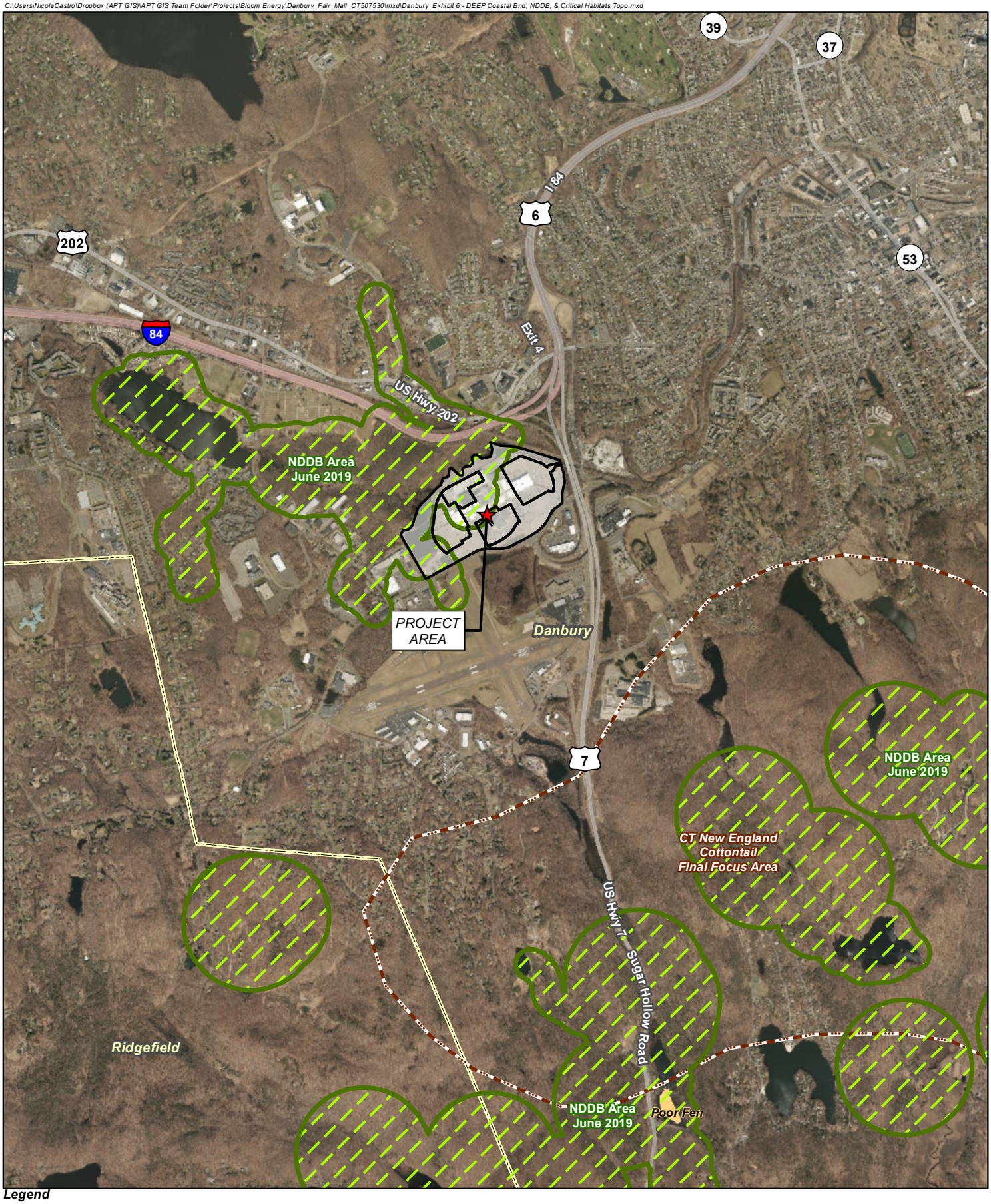
Exhibit 6

C:\Users\NicoleCastro\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Danbury_Fair_Mall_CT507530\mxd\Danbury_Exhibit 6 - DEEP Coastal Bnd, NDDB, & Critical Habitats Topo.mxd



Legend

- Project Area
- Site
- CTDEEP Natural Diversity Database (updated June 2019)
- CTDEEP Critical Habitat (2009)
- CTDEEP NE Cottontail Final Focus Area
- CTDEEP Coastal Boundary (none within 16 miles of Site)
- Municipal Boundary

N W E S

2,500 1,250 0 2,500 Feet

Exhibit 6
CTDEEP Coastal Boundary, NDDB, & Critical Habitats

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

Bloomenergy

ALL-POINTS TECHNOLOGY CORPORATION

Map Notes:
Base Map Source: CTECO 2016 Aerial Photograph
Map Scale: 1 inch = 2,500 feet
Map Date: November 2019

Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

December 3, 2019

Mr. Dean Gustafson
All-Point Technology Corp., P.C.
3 Saddlebrook Drive
Killingworth, CT 06419
dgustafson@allpointstech.com

Project: Fuel Cell Installation at Mareich Danbury Fair Mall, 7 Backus Avenue in Danbury, Connecticut
NDDB Determination No.: 201913743

Dear Dean Gustafson,

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map provided for Fuel Cell Installation at Mareich Danbury Fair Mall, 7 Backus Avenue in Danbury, Connecticut. I do not anticipate negative impacts to the State-listed species (RCSA Sec. 26-306). The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. We have several historic populations of state listed species in the adjacent wetlands and care should be taken to avoid impacts to these wetlands. If project activities change and impacts to the wetlands are possible, please re-contact our program for an updated review.

This determination is good for two years. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by December 3, 2021.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay

Dawn M. McKay
Environmental Analyst 3

Bloomenergy®

Exhibit 7

C:\Users\NicoleCastro\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Danbury_Fair_Mall_CT507530\mxd\Danbury_Exhibit 7 - DEEP wetland and watercourses.mxd

Legend

- Site
- Existing Fuel Cell Energy Servers
- Project Area
- Gas Supply Line
- Railroad
- Approximate Assessor Parcel Boundary (CTDEEP)
- CTDEEP Watercourse
- CTDEEP Wetlands

N W E S

300 150 0 300 Feet

Map Notes:
Base Map Source: CTECO 2016 Aerial Photograph
Map Scale: 1 inch = 450 feet
Map Date: November 2019

Exhibit 7
CTDEEP Wetland and Watercourses

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

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Exhibit 8

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Legend

- Subject Property
- Site
- Underground Gas Line
- Approximate Assessor Parcel Boundary (CTDEEP)
- CTDEEP Watercourse
- FEMA 100-Year Flood Zone
- FEMA 500-Year Flood Zone (none in mappeed extent)
- Floodway (none in mappeed extent)

N W E S

300 150 0 300 Feet

Exhibit 8
FEMA Flood Zones

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

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Map Notes:
Base Map Source: CTECO 2016 Aerial Photograph
Map Scale: 1 inch = 300 feet
Map Date: November 2019

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Exhibit 9

Calculation of **Yuma** Sound Pressure Based On Distance

By Bob Hintz 1/16

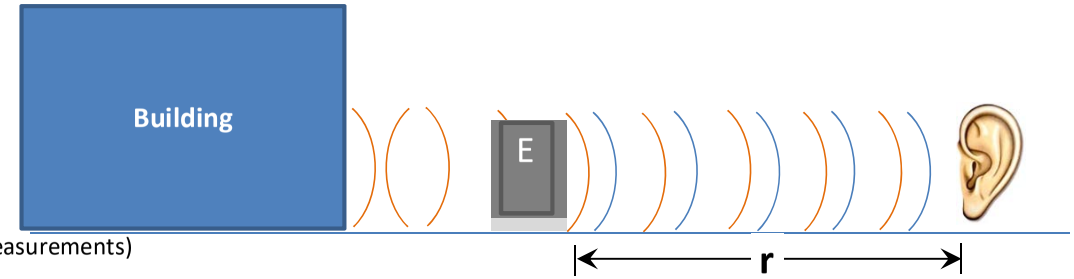
All calculations are based on the following formula for sound pressure level (L_p):

$$L_p = L_W - |10 \cdot \log\left(\frac{Q}{4\pi \cdot r^2}\right)|$$

Sound power value (L_W) attained from V1 Yuma linear in DE reported on Feb. 4, 2015 by Mei Wu.

Scenario 1

ES is installed close to a building or tall wall so noise from the ES is reflected off of the structure and added to the noise from the other side of the ES making it sound louder than normal. This is represented by a directivity factor Q = 4



L_p =	**33.9** dB	

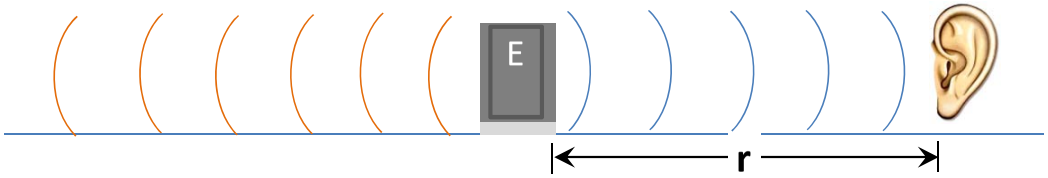
Where:

L_W =	86.4 dB	ES sound power (Calc. from measurements)
Q =	4	Directivity factor
r =	785 Feet	**Enter value here for both Scenarios**

Input verious values for r to approximate the percieved sound pressure at that distance from the ES door

Scenario 2

ES is installed with no structures behind it to reflect sound from either side. This is represented by a directivity factor Q = 2



L_p =	**30.8** dB	

Where:

L_W =	86.4 dB	ES sound power (Calc.)
Q =	2	Directivity factor
r =	785 Feet	

Input verious values for r to approximate the percieved sound pressure at that distance from the ES door

Bloomenergy®

Exhibit 10

Bloomenergy

VIA CERTIFICATE OF MAILING

November 26, 2019

RE: Application of Bloom Energy for the location and construction of one (1) new ES-5 Bloom Energy Server solid oxide fuel cell to provide 250 Kilowatts of Customer-Side Distributed Resource at 7 Backus Avenue, Danbury, 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 with the Council, on or about December 9, 2019, a petition for an amendment to the declaratory ruling that previously approved a fuel cell installation at the Danbury Fair Mall ("Mall"), 7 Backus Avenue in Danbury, Connecticut. The petition will request the Council's approval of the location and construction of an additional fuel cell installation consisting of one (1) energy server and associated equipment. Together, they will provide 1000 Kilowatts to the Mall.

The purpose of the proposed Facility is to replace the nighttime baseload of the Mall's operations 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,

Justin Adams
justin.adams@bloomenergy.com

Be

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

Notice and Service List Pursuant to Conn. Agencies Regs. § 16-50j-40(a)

Municipal and Elected Officials

Last Name	First Name	Title	Address	City	State	Postal Code
Boughton	Mark D.	Mayor, City of Danbury	155 Deer Hill Avenue	Danbury	CT	06810
Calitro	Sharon B.	Director, Planning & Zoning	155 Deer Hill Avenue	Danbury	CT	06810
Finaldi, Jr.	Arnold E.	Chairman, Planning Commission	155 Deer Hill Avenue	Danbury	CT	06810
Melillo	Robert	Chairman, Zoning Commission	155 Deer Hill Avenue	Danbury	CT	06810
Botelho	Kim	Chair, Conservation Commission	155 Deer Hill Avenue	Danbury	CT	06810
Gallo	Bernard P.	Chairman, Environmental Impact Commission	155 Deer Hill Avenue	Danbury	CT	06810
Jowdy	Richard S	Chairman, Zoning Board of Appeals	155 Deer Hill Avenue	Danbury	CT	06810
Blumenthal	Richard	U.S. Senator	702 Hart Senate Office Building	Washington	DC	20510
Murphy	Chris	U.S. Senator	B40A Dirksen Senate Office Building	Washington	DC	20510
Hayes	Jahana	U.S. Representative	1415 Longworth House Office Building	Washington	DC	20515
Kushner	Julie	State Senator, 24th District	Legislative Office Building, Room 3402	Hartford	CT	06106-1591
Allie-Brennan	Raghib	State Representative, 2nd District	Legislative Office Building, Room 4000	Hartford	CT	06106-1591
Tong	William	Connecticut Attorney General	55 Elm Street	Hartford	CT	06106
Dykes	Katie	Commissioner, Department of Energy and Environmental Protection	79 Elm Street	Hartford	CT	06106-5127
Paslick Gillett	Marissa	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Coleman-Mitchell	Renée D.	Commissioner, Department of Public Health	410 Capitol Avenue	Hartford	CT	06134

Merrow	Susan D.	Chair, Council on Environmental Quality	79 Elm Street	Hartford	CT	06106
Hurlburt	Bryan P.	Commissioner, Department of Agriculture	450 Columbus Blvd., Suite 701	Hartford	CT	06103
McCaw	Melissa	Secretary, Office of Policy and Management	450 Capitol Avenue	Hartford	CT	06106
Giulietti	Joseph	Commissioner, Department of Transportation	2800 Berlin Turnpike	Newington	CT	06111
Lehman	David	Commissioner, Department of Economic and Community Development	450 Columbus Boulevard	Hartford	CT	06103
Rush-Kittle	Regina	Deputy Commissioner, Division of Emergency Management and Homeland Security (DEMHS)	1111 Country Club Road	Middletown	CT	06457
Seagull	Michelle H.	Commissioner, Department of Consumer Protection	450 Columbus Boulevard, Suite 901	Hartford	CT	06103
Geballe	Josh	Commissioner, Department of Administrative Services	450 Columbus Boulevard	Hartford	CT	06103
Westby	Kurt	Commissioner, Department of Labor	200 Folly Brook Boulevard	Wethersfield	CT	06109
		Western Connecticut Council of Governments	1 Riverside Road	Sandy Hook	CT	06482

Abutter Properties

Map ID Map/Lot	Site Address	Owner Name	Street	City	State	Zip
F17/15	7 Backus Avenue	Danbury Mall LLC	PO Box 847	Carlsbad	CA	92018
F17/2	7 Backus Avenue	Danbury Mall LLC	PO Box 847	Carlsbad	CA	92018
F17/2/2	7 Backus Avenue	LT Propco LLC, c/o L&T Attn: H Grable	5065 Main St	Trumbull	CT	06611

F17/14	7 Backus Avenue	MS Portfolio LLC, c/o The Macerich Company	401 Wilshire Bl, Suite 700	Santa Monica	CA	90401
F16/15	7 Backus Avenue	J C Penney's Properties, Inc.	6501 Legacy Dr, MS 5213	Plano	TX	75024
F16/14	7 Backus Avenue	Macy's Retail Holdings, Inc.	7 West Seventh St	Cincinnati	OH	45202
F16/5	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
F16/6	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
F16/7	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
F16/8	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
F16/9	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
F16/10	Lake Avenue Extension	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis	99 Downey Rd	Millerton	NY	01246
G16/00Q	NA - Rail Line	State of Connecticut	210 Capitol Ave., Ste 1	Hartford	CT	06106
G16/3	22 Segar Street	VIIIHII Segar Street LLC	591 W Putnam Ave	Greenwich	CT	06830
G16/2	Segar Street	Danbury Railway Museum, Inc.	120 White St	Danbury	CT	06810
G16/8	Segar Street	O & G Industries Inc., c/o Acct	112 Wall St	Torrington	CT	06790
G16/151	Segar Street	Leahy's Fuels, Inc.	130 White St	Danbury	CT	06810
G16/158	3 Backus Avenue	Valluzzo Family LLC, c/o Linda Kompare, Manager	4836 Bay Shore Rd	Sarasota	FL	34234

G17/1	1 Sugar Hollow Road	G & J Partners, c/o RASH #72307841	PO Box 260888	Plano	TX	75026
G17/2	5 Sugar Hollow Road	Sugar Hollow Associates LLC, c/o Scalzo Property Mgt Inc.	2 Stony Hill Rd, Suite 201	Bethel	CT	06801
G18/1/1	Sugar Hollow Road	City of Danbury, c/o Reliant Aircraft Service	1 Wibling Rd	Danbury	CT	06811
G18/1/2	35 Sugar Hollow Road	City of Danbury, c/o Westconn Aviation LLC	219 Spring St	South Salem	NY	10590
G18/1/3	75 Kenosia Avenue	City of Danbury - Airport	155 Deer Hill Ave	Danbury	CT	06810-7769
G18/1	35 Sugar Hollow Road	City of Danbury - Airport	155 Deer Hill Ave	Danbury	CT	06810-7769
F17/10	20-28 Backus Avenue	UB Danbury Inc.	321 Railroad Ave	Greenwich	CT	06830
F17/16	Backus Avenue	City of Danbury	155 Deer Hill Ave	Danbury	CT	06810-7769
F17/16	15-19 Backus Avenue	Urstadt Biddle Properties Inc.	321 Railroad Ave, Ste 5	Greenwich	CT	06830
F17/1	Kenosia Avenue	City of Danbury	155 Deer Hill Ave	Danbury	CT	06810

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	Postmaster, per *(name of receiving employee)*		WESTERLY RI 02891 NOV 26 2019

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1.	Honorable Richard Blumenthal Senator 702 Hart Senate Office Building Washington, DC 20510				
2.	Hon. Chris Murphy Senator 840A Dirksen Senate Office Building Washington, DC 20510				
3.	Hon. Jahana Hayes U.S. Representative 1415 Longworth House Office Building Washington, DC 20510				
4.	Hon. William Tong Attorney General 55 Elm St. Hartford, CT 06106				
5.	Katie Dykes, Commissioner Dept. of Energy & Environmental Protection 79 Elm St. Hartford, CT 06106-5127				
6.	Marissa Paslick Gillett, Chairman Public Utilities Regulatory Authority 10 Franklin Square New Britain, CT 06051				

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2.	Susan D. Merrow, Chair Council on Environmental Quality 79 Elm St. Hartford, CT 06106				
3.	Bryan P. Hurlburt, Commissioner Department of Agriculture 450 Columbus Blvd., Suite 701 Hartford, CT 06103				
4.	Melissa McCaw, Secretary Office of Policy and Management 450 Capitol Ave. Hartford, CT 06106				
5.	Joseph Guilietti, Commissioner Department of Transportation 2800 Berlin Turnpike Newington, CT 06111				
6.	David Lehman, Commissioner Dept. of Economic and Community Development 450 Columbus Blvd Hartford, CT 06103				

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2.	Michelle H. Seagull, Commissioner Department of Consumer Protection 450 Columbus Blvd., Suite 901 Hartford, CT 06103				
3.	Josh Geballe, Commissioner Department of Administrative Services 450 Columbus Blvd. Hartford, CT 06103				
4.	Kurt Westby, Commissioner Department of Labor 200 Folly Brook Blvd. Wethersfield, CT 06109				
5.	Sharon B. Calitro, AICP Director, Planning & Zoning 155 Deer Hill Ave. Danbury, CT 06810				
6.	Hon. Mark D. Boughton, Mayor City of Danbury 155 Deer Hill Ave. Danbury, CT 06810				

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2.	Robert Melillo Chairman, Zoning Commission 155 Deer Hill Ave. Danbury, CT 06810				
3.	Bernard P. Gallo, Chairman Environmental Impact Commission 155 Deer Hill Ave. Danbury, CT 06810				
4.	Richard S. Jowdy Chairman, Zoning Board of Appeals 155 Deer Hill Ave. Danbury, CT 06810				
5.	Kim Botelho Chair, Conservation Commission 155 Deer Hill Ave. Danbury, CT 06810				
6.					

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2.	Hon. Raghib Allie-Brennan Representative, 2nd District Legislative Office Building, Room 4000 Hartford, CT 06106-1591				
3.	Western Connecticut Council of Governments 1 Riverside Rd. Sandy Hook, CT 06482				
4.	Danbury Mall LLC PO Box 847 Carlsbad, CA 92018				
5.	LT Propco LLC c/o L&T, Attn: H Brable 5065 Main St Trumbull, CT 06611				
6.	MS Portfolio LLC c/o The Macerich Company 401 Wilshire Bl., Suite 700 Santa Monica, CA 90401				

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2.	Macy's Retail Holdings, Inc. 7 West Seventh St. Cincinnati, OH 45202				
3.	Harold D Keeler Jr. & Benedictine Congregation Regina Laudis 99 Downey Rd. Millerton, NY 01246				
4.	State of Connecticut 210 Capitol Ave., Ste 1 Hartford, CT 06106				
5.	VIIIHII Segar Street LLC 591 W. Putnam Ave. Greenwich, CT 06830				
6.	Danbury Railway Museum, Inc. 120 White St. Danbury, CT 06810				

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Exhibit 11

Legend

- Site
- Abutting Property
- Existing Fuel Cell Energy Servers
- Project Area
- Gas Supply Line
- Railroad
- Approximate Assessor Parcel Boundary (CTDEEP)

N W E S

600 300 0 600 Feet

Map Notes:
Base Map Source: CTECO 2016 Aerial Photograph
Map Scale: 1 inch = 600 feet
Map Date: November 2019

Exhibit 11
Abutters

Proposed Bloom Energy Facility
Danbury Fair Mall
7 Backus Avenue
Danbury, CT

Bloomenergy

ALL-POINTS TECHNOLOGY CORPORATION

Bloomenergy®

Exhibit 12

ALL-POINTS
TECHNOLOGY CORPORATION

November 25, 2019

Ms. Jennifer Emminger, AICP
Deputy Planning Director
City of Danbury
155 Deer Hill Ave.
Danbury, CT 06810-7769

Re: Bloom Energy – 7 Backus Avenue

Dear Jennifer:

Following up on our recent conversations, enclosed are site plan drawings for a proposed second fuel cell installation at the Danbury Fair Mall. The Bloom energy server will be placed on the west side of the Dick's Sporting Goods store adjacent to the parking lot. This plan supersedes an earlier preliminary plan that depicted two potential alternatives for placement of the second fuel cell.

Bloom will submit a petition to the Connecticut Siting Council for an amendment to its prior ruling that approved the fuel cell located at the Danbury Fair Mall adjacent to the Lord & Taylor store and parking garage. In preparation for the filing, we are seeking any comment you or other appropriate City staff may have on the proposal.

I look forward to receipt of your comments. Thank you.

Sincerely,

Jennifer Young Gaudet

Jennifer Young Gaudet
Program Manager

Jennifer Young Gaudet

From: Jennifer Emminger <j.emminger@danbury-ct.gov>
Sent: Monday, December 9, 2019 2:32 PM
To: Jennifer Young Gaudet
Subject: Preliminary Review - Bloom Energy, Danbury Fair Mall

Hi Jennifer,
I reviewed the plans you mailed last week concerning the proposed fuel cell installation at the Danbury Fair Mall. The fuel cell equipment is proposed to be located near the corner loading area between the rear of Dick's Sporting Goods and the Mall entrance.

The plans show the removal of five mature evergreen trees located between the proposed fuel cell cabinets and the loading dock area. These trees offer an important visual buffer to the loading dock area. The Department recommends planting a view restrictive screen between the rear corner of Dick's Sporting Goods and the proposed and existing utility cabinets and locading area. The plantings should include a combination of shrubs, deciduous and coniferous trees.

If you have any further questions please let me know.
Thanks,
Jennifer

--
Jennifer L. Emminger, AICP
Deputy Planning Director
City of Danbury
155 Deer Hill Avenue
Danbury, CT 06810
Telephone (203) 797-4525
Fax (203) 797-4586