What Powers You

March 30, 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 750-Kilowatt Fuel Cell Customer-Side Distributed Resource at Milford Hospital (Yale New Haven Health), 300 Seaside Avenue, Milford, 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 750-kilowatt fuel cell and associated equipment at Milford Hospital, an affiliate of Yale New Haven Health ("Hospital") in Milford, Connecticut (the "Facility"). The Facility will be installed at 300 Seaside Avenue (the "Site"). Electricity generated by the Facility will benefit the Hospital's operation, and any excess electricity will be exported to the electric grid. 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 750-KILOWATT FUEL CELL CUSTOMER-SIDE DISTRIBUTED RESOURCE AT MILFORD HOSPITAL, 300 SEASIDE AVENUE, MILFORD, CT	:	PETITION NO. ____ MARCH 30, 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 Milford Hospital/Yale New Haven Health (the "Hospital"), at 300 Seaside Avenue, Milford, Connecticut (the "Site"). Bloom will install a fuel cell consisting of three (3) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the "Facility") that will provide a total of 750 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 15-year power purchase agreement with Yale New Haven Health Services Corporation ("Yale New Haven") owned by a third-party financing source. The Facility has been selected as part of the LREC program.

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
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San Jose, CA 95134
Telephone: (917) 803-4511
Fax: (408) 543-1501
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Nedal Sumrein
Bloom Energy Corporation
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San Jose, CA 95134
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Fax: (408) 543-1501
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III. DISCUSSION

A. The Facility

The Facility will be a 750-kW customer-side distributed resource consisting of three (3) Bloom solid oxide fuel cell Energy Servers, model ES5-EAXAAN, 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 within an existing parking lot in the southeastern portion of the Site.

Connections to existing utilities will extend underground to the northwest to electrical, telco and water utilities at the Hospital building. The Facility will be fueled by natural gas supplied by Southern Connecticut Gas. 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 750 KW based on consultation with Yale New Haven representatives and analysis of the Hospital's operational needs. The Facility will replace a portion of the average baseload of the Site with a Class I renewable energy source and improve reliability of electrical systems and equipment. The Facility has been sized to provide at least 65% of the Hospital's average annual baseload. Exhibit 4. Electricity generated by the Facility will be consumed primarily at the Site and any excess electricity will be exported to the grid.

The operational life of the Facility is for the life of the 15-year contract with Yale New Haven. At the conclusion of the 15-year contract, Yale New Haven 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 United Illuminating in January 2022; approval is anticipated in May 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 City of Milford ("City") Fire Department personnel and Hospital operations/emergency personnel with an Emergency Response Plan and will 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 Site is located in the southern part of the City, east of Interstate 95 and U.S Route 1. The surrounding area contains a mix of residential and commercial development. It is an approximately 9.05-acre parcel within the Milford Center Design Development (MCDD) District and the Medical Center Subdistrict.

The Site is fully developed with the Hospital building and associated surface parking lots. The fuel cell installation will be located in the southeastern corner of the Site, opposite the Emergency Department entrance, in an area currently occupied by an island and eight parking spaces. Four trees located within the island will be removed. Lighting and curbing associated with the existing island will be relocated and reconfigured.

The Facility is designed to take advantage of existing infrastructure, including utilities, with little or no impact on operational requirements and traffic and pedestrian flow within the

[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

Site. The location is removed from much of the Site's traffic flow, and ample parking will continue to exist on Site.

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

The Site and the surrounding vicinity are extensively developed with buildings and paved surfaces. The addition of the Facility within an extensively developed and paved area will have no effect on wildlife habitat.

iii. Wetlands and Watercourses

There are no identified wetland or watercourse resources within or proximate to the proposed Site. 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.

The proposed Facility is located within the Coastal Boundary associated with tidal wetlands that are part of a tidal tributary stream that feeds into Milford Harbor. The nearest coastal resource is located ±700 feet to the east/southeast. With the significant separating distance, which includes intervening residential development and Seaside Avenue, the proposed Facility will not impact tidal wetlands or the tidal stream. Therefore, the activity proposed by Bloom is consistent with all applicable policies in Section 22a-92 of the Connecticut Coastal Management Act and will not adversely impact coastal resources of the City.

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 Facility would not be located in either a 100-year or 500-year flood zone. *See* Exhibit 5.

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by DEEP, the nearest Aquifer Protection Area is approximately 7.8 miles north of the Site.

i. Cultural Resources

The Site, including the Facility location, has been previously developed and disturbed. 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 288-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

[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%.

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 City's Plan of Conservation and Development ("POCD"), adopted in December, 2012, identified a "Clean Energy Roadmap" that recognized the value of using "cleaner energy" from a broad environmental perspective as well as to benefit the City's budget. No reference to specific renewable energy sources other than solar was included. An updated POCD is under development; draft documents reference continuing to implement the strategies of the Clean Energy Roadmap. The City's 2019 Zoning Regulations do not address energy conservation or renewable energy sources, including fuel cells.

iii. Sound Levels

Bloom evaluated the proposed Facility through a sound model predicting noise levels. The nearest parcel boundary is with a residential property located to the west of the Site, with a property line approximately 87 feet from the Energy Servers and defined as a Class A noise zone[6]. Due to its hospital use, the Site is also defined as a Class A noise zone. The results of the sound model predicting noise levels at the nearest property boundary are provided as Exhibit 7. The proposed Facility would be defined as "Scenario 2" in the model, which assumes the Bloom Energy Server is installed with no structures behind it to reflect sound from either side. The results of the Scenario 2 sound model at 87 feet are 46.7 dBa. In light of ambient noise from

[6] Conn. Agencies Regs. Sec. 22a-69-2.3. Noise zone standards

Hospital operations, including the adjacent Emergency Department entrance, and nearby roads, the incremental sound from operation of the Facility is anticipated to be minimal.

The City has no noise ordinance. 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, and primarily within the Site. The Facility will be located in an already developed area near the Emergency Department entrance and other parking areas. Off-Site views of the Facility may be experienced along portions of Seaside Avenue to the north and Cricklewood Road to the east; however, landscaping at the parking lot perimeter, consisting of both low shrubs and mature deciduous trees, will mitigate any views. In addition, as the Facility will be set back from both roads, vehicles in intervening parking areas will also interrupt visibility. The Hospital building will obscure views from the west and northwest.

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. David Sulkis, City Planner, by email on March 15, 2022 and provided plans for the proposed Facility for review and comment. No comments have been received to date. *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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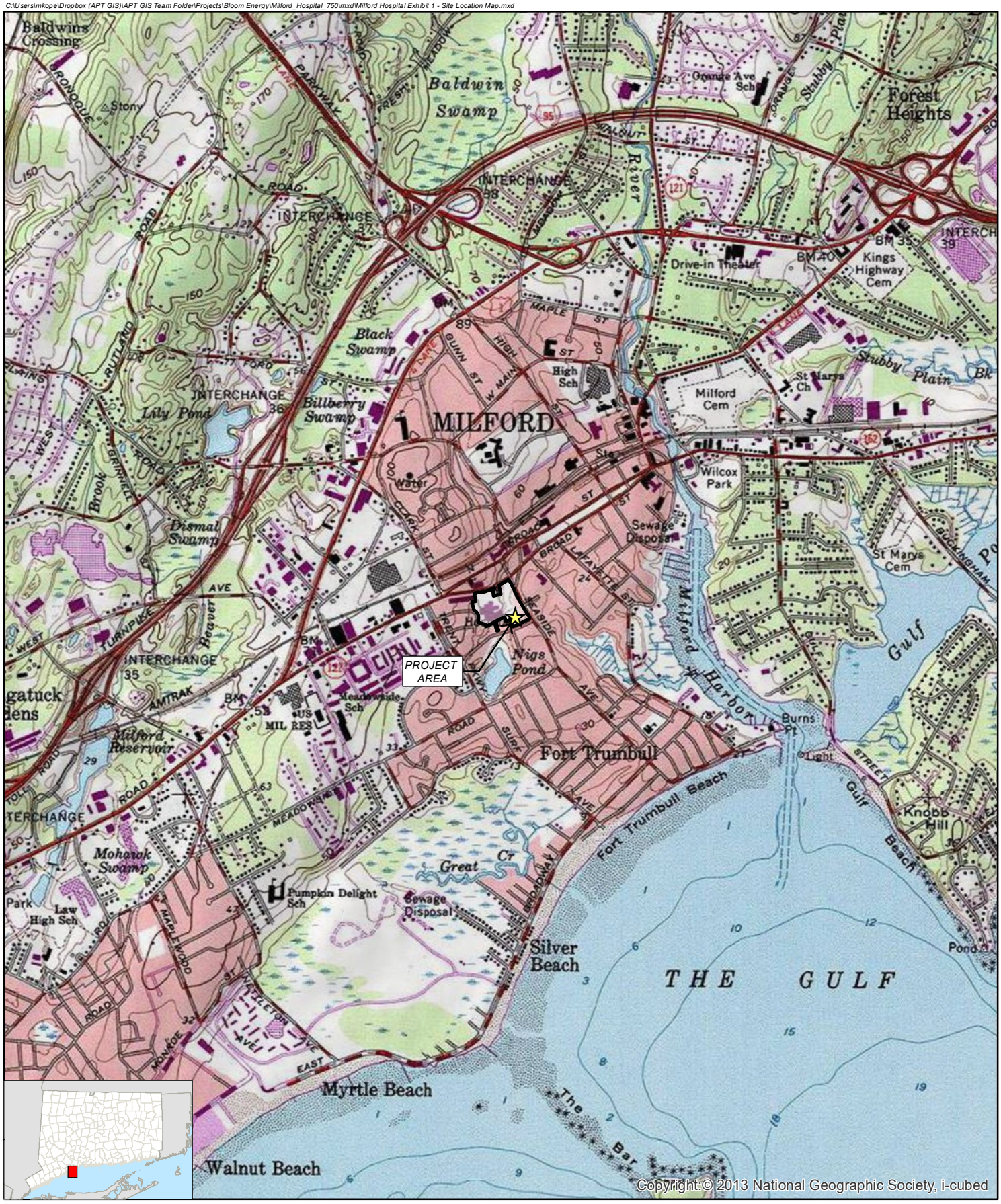
Exhibit 1

C:\Users\mkope\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Bloom Energy\Milford_Hospital_750\mxd\Milford Hospital Exhibit 1 - Site Location Map.mxd



Legend

- Project Area
- Site

Map Notes:
Base Map Source: USGS 7.5 Minute
Topographic Quadrangle Map: Milford, CT (1984)
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
Yale New Haven
Health System
300 Seaside Avenue
Milford, Connecticut

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ALL-POINTS TECHNOLOGY CORPORATION

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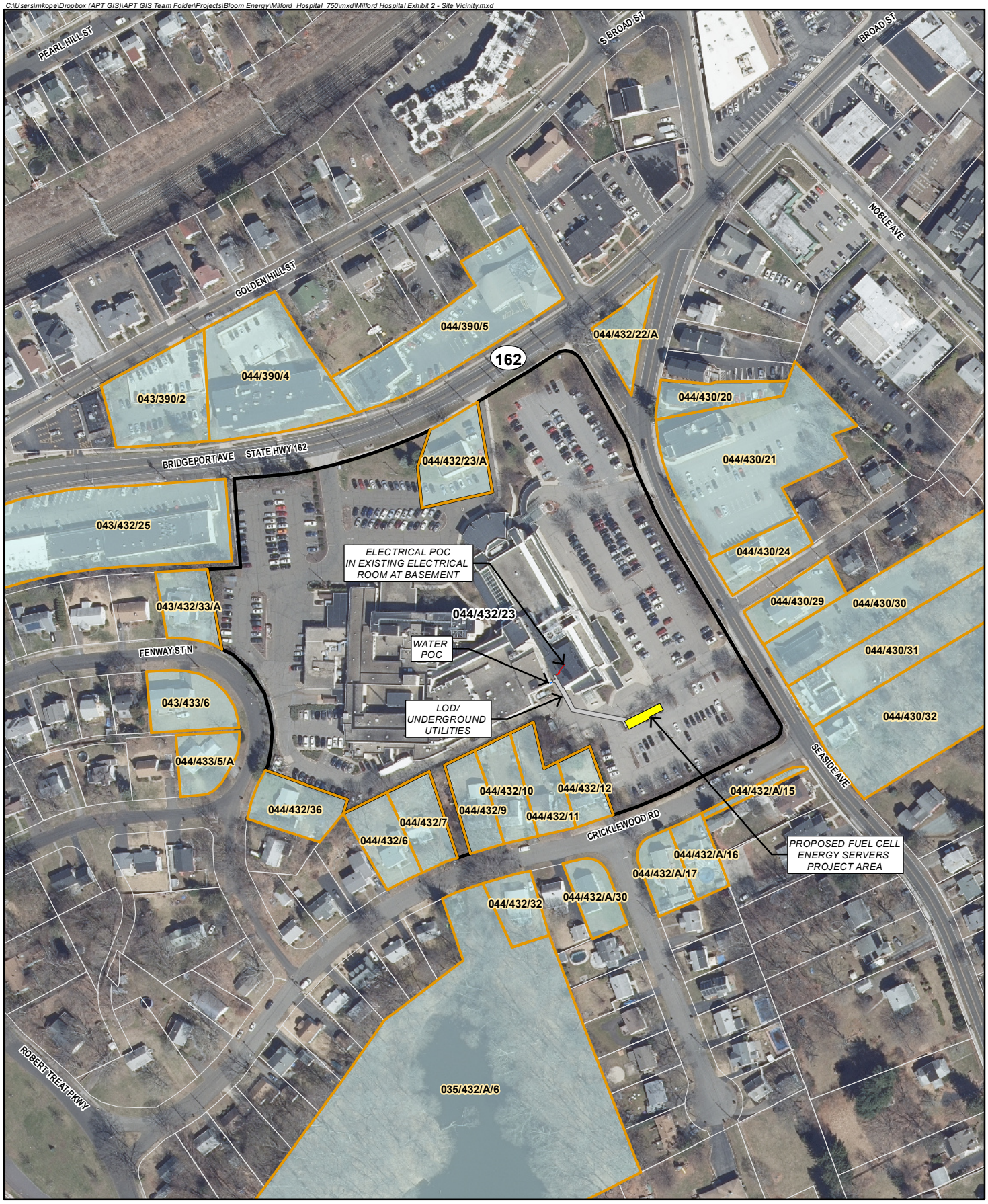
Exhibit 2



Legend

- Site
- Abutting Property
- Approximate Assessor Parcel Boundary
- Project Area
- Limit of Disturbance/Underground Utilities
- Electrical Service
- Water Service

Map Notes:
Base Map Source: CTECO 2019 Aerial Photograph
Map Scale: 1 inch = 200 feet
Map Date: March 2022

N W E S

200 100 0 200 Feet

Exhibit 2
Site Vicinity

Proposed Bloom Energy Facility
Yale New Haven
Health System
300 Seaside Avenue
Milford, Connecticut

Bloomenergy

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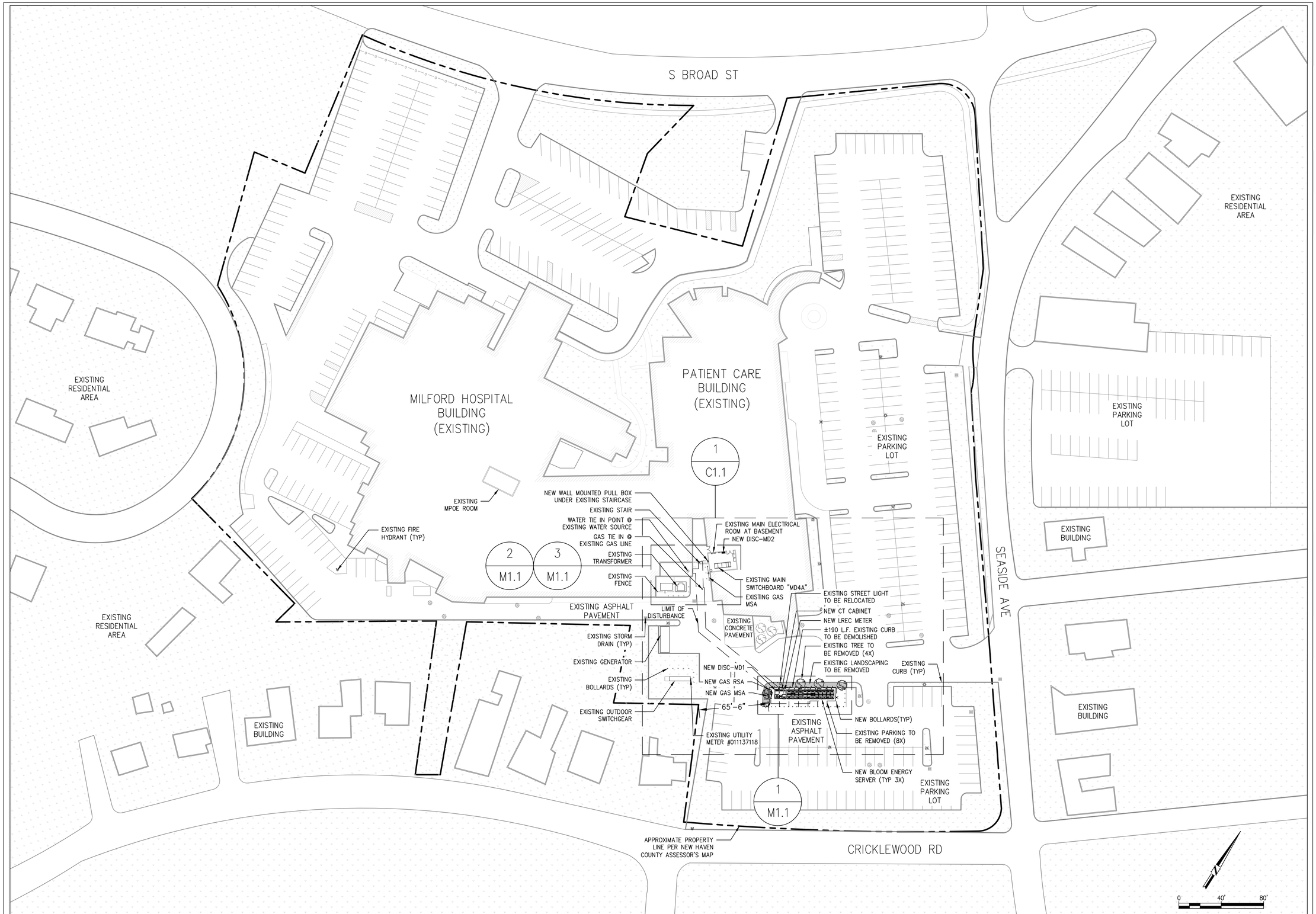
Exhibit 3



SITE REFERENCE NOTE:

EXISTING SITE CONDITIONS TAKEN FROM BING MAPS

OVERALL SITE PLAN

SCALE: 1" = 40'

1 G1.1

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4353 N. FIRST STREET
SAN JOSE, CA 95134

PROPRIETARY AND CONFIDENTIAL

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ENGINEER OF RECORD
CARSON P. TURNER, P.E.
LICENSE #0022700

STATE OF CONNECTICUT · CARSON P. TURNER · 22700 · LICENSED PROFESSIONAL ENGINEER

Carson Turner

Digitally signed by Carson Turner
DN: CN=Carson Turner
Date: 2022.01.06 14:19:35-08'00'

CUSTOMER SITE

YALE NEW HAVEN HEALTH
300 SEASIDE AVE,
MILFORD, CT 06460

Yale NewHaven Health

REVISION HISTORY		
REV	REVISION ISSUE	DATE
01	INITIAL RELEASE	09/01/2021

DESIGNED BY CHRIS BARTUNEK	REVIEWED BY KATE TAYLOR
DRAWN BY LAKSHMI.S	APPROVED BY CARSON P. TURNER

SHEET TITLE

OVERALL SITE PLAN

DRAWING NUMBER

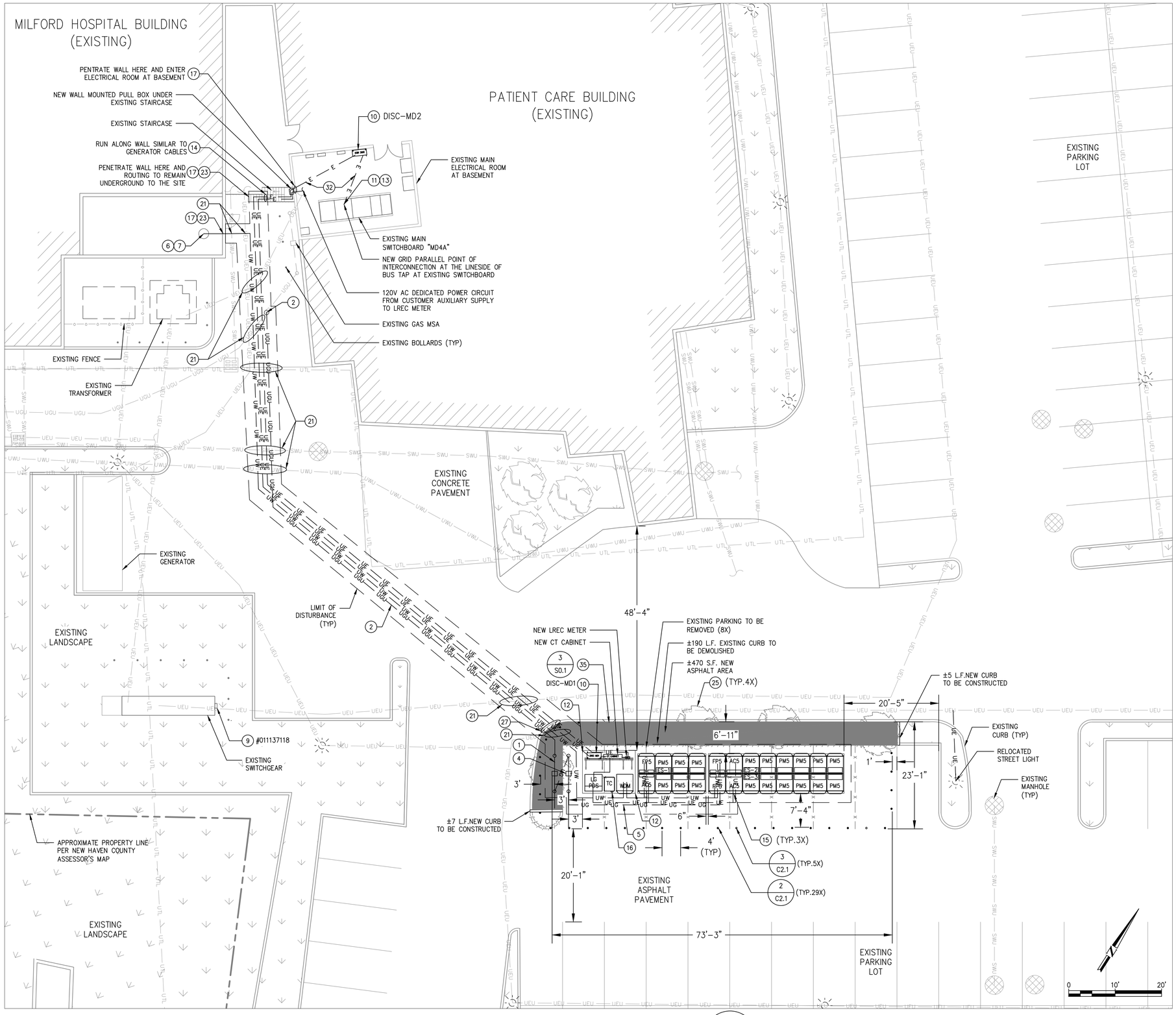
G1.1

BLOOM DOCUMENT

DOC-1014440

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: YNH002.0 | SHEET 03 OF 15



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 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 CABLE PULLING TENSION OR SIDE WALL PRESSURE LIMITATIONS. CONTRACTOR SHALL SIZE PULL BOX OR VAULT IN COMPLIANCE WITH NEC REQUIREMENT.

REFERENCE SHEET NOTES

(1) NEW UTILITY PROVIDED AND INSTALLED GAS METER & REGULATOR ASSEMBLY WITH SHUT-OFF VALVE. 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. UTILITY SHALL PERFORM COMPACTION AND MATCH EXISTING SURFACE AND GRADE. CONTRACTOR SHALL COORDINATE GAS PIPE SIZING AND INSTALLATION REQUIREMENTS WITH UTILITY.

(4) NEW PRIVATE GAS REGULATOR SET ASSEMBLY FOR BLOOM ENERGY SERVER WITH SHUT-OFF VALVE. 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 ENERGY FURNISHED, CONTRACTOR INSTALLED, DISCONNECT SWITCH. MOUNT TO WALL 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.

(15) NEW BLOOM ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY SERVER DETAILS.

(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.

(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.

(25) CONTRACTOR SHALL REMOVE EXISTING TREE.

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

(32) CONTRACTOR SHALL MOUNT ELECTRICAL OR DATA CONDUIT/PIPE ROUTING THROUGH BUILDING IN CEILING. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD PRIOR TO CONSTRUCTION.

(35) CONTRACTOR SHALL INSTALL SALVAGED LIGHT POST AND FIXTURE ON NEW FOOTING. REFER TO STRUCTURAL DRAWINGS FOR FOOTING DETAILS. INTERCEPT EXISTING STREET LIGHT CONDUITS AND PROVIDE NEW CONDUITS AS NEEDED TO NEW STREET LIGHT FOOTING. NEW STREET LIGHT CONDUCTORS SHALL BE INSTALLED TERMINATION TO TERMINATION, NO SPLICES ALLOWED. COORDINATE STREET LIGHT CONTROL WIRING WITH BUILDING FACILITIES MANAGER.

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 UTILITIES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. 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 DESIGN HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.

Bloomenergy

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SAN JOSE, CA 95134

PROPRIETARY AND CONFIDENTIAL

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LICENSE #0022700

STATE OF CONNECTICUT · CARSON P. TURNER · 22700 · LICENSED PROFESSIONAL ENGINEER

Carson Turner — Digitally signed by Carson Turner DN: CN=Carson Turner Date: 2022.01.06 14:19:51-08'00'

CUSTOMER SITE

YALE NEW HAVEN HEALTH
300 SEASIDE AVE,
MILFORD, CT 06460

Yale NewHaven Health

REVISION HISTORY		
REV	REVISION ISSUE	DATE
01	INITIAL RELEASE	09/01/2021

DESIGNED BY: CHRIS BARTUNEK	REVIEWED BY: KATE TAYLOR
DRAWN BY: LAKSHMI.S	APPROVED BY: CARSON P. TURNER

SHEET TITLE: DETAILED SITE PLAN

DRAWING NUMBER: C1.1

BLOOM DOCUMENT: DOC-1014440

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: YNH002.0 | SHEET 04 OF 15

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Exhibit 4

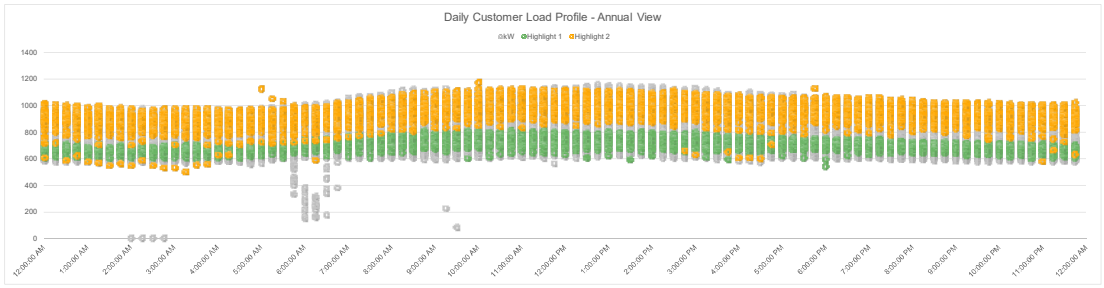
Bloomenergy

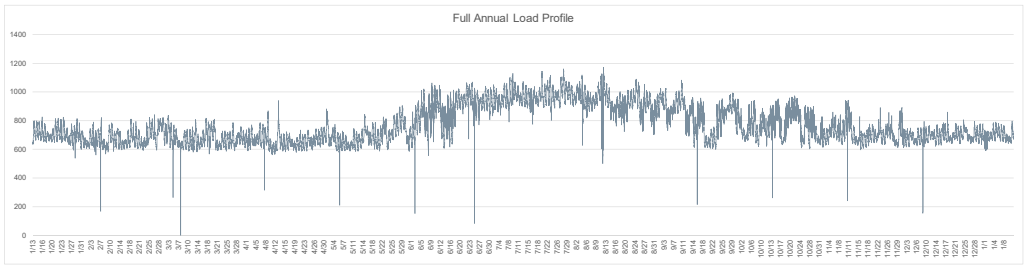
SITE DETAILS	
Utility Tariff	CT - UI GST-S
Customer Name	YNHH
Site Name or Address	Milford Hospital - Acct. 960421
Utility Account Number	01000001283711
Meter Number	011137118
NOTES	
[Notes here]	

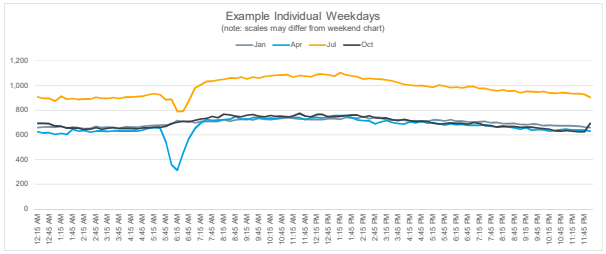
SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	365
Annual Load Factor	65%
Total Customer Usage	6,720,660 kWh
Average 15-Min kW	767 kW
Average Peak Demand	971 kW
Absolute Minimum kW (non-zero)	***83 kW***
Estimated Average Baseload	***700 kW***
Proposed System Size	***750 kW***
Estimated Resulting Net Metering	***3.44%***

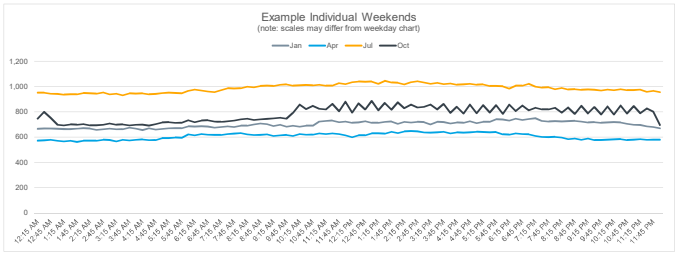
POWER FACTOR SUMMARY [NOT PRINTED]	
Power Factor from Customer Bill	90%
kVars at Peak Demand	***107.8622***
Inverter Nameplate Required	***900***

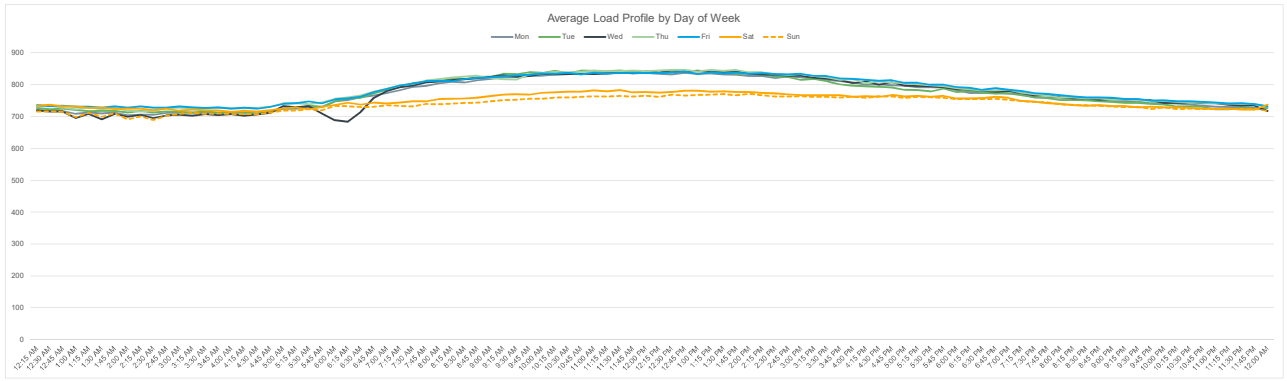
MONTH	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highlight Color (0/1/2)	1	0	0	0	0	0	0	2	0	0	0	0











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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Energy Server 5	Technical Highlights (ES5-EAXAAN)
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-1013940 Rev A

Looking toward site from; Hospital/Emergency Department entrance in upper left of photo

Looking toward Site from front of Emergency Department entrance

Looking toward Facility location from east

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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
Yale New Haven
Health System
300 Seaside Avenue
Milford, Connecticut

Bloomenergy

ALL-POINTS TECHNOLOGY CORPORATION

Bloomenergy®

Exhibit 6

Fire Prevention and Emergency Planning – Grid Parallel

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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.

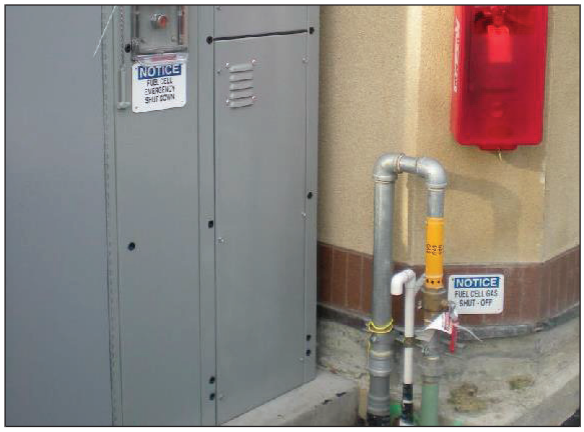


Figure 3: Manual Natural Gas Valve

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

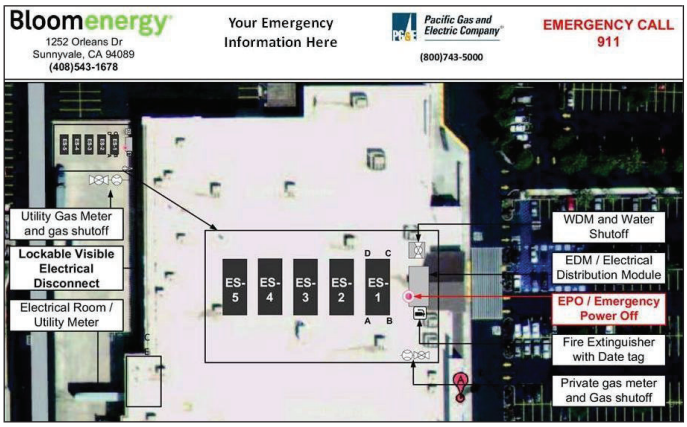


Figure 4: Sample Site Map

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.

Bloomenergy®

Exhibit 7

Yale New Haven Health
300 Seaside Ave
Milford, CT 06460z

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

By Bob Hintz 1/16
Updated by Daniel Huang 9/26/2016

Distance Unit =	feet	(meters or feet)

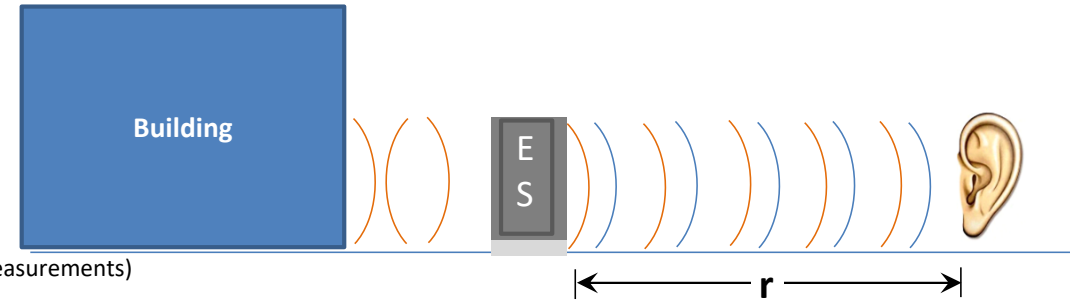
All calculations are based on the following formula for sound pressure level (L_P):

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

Sound power value (L_W) attained from V1 Yuma 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 = 49.8 dB

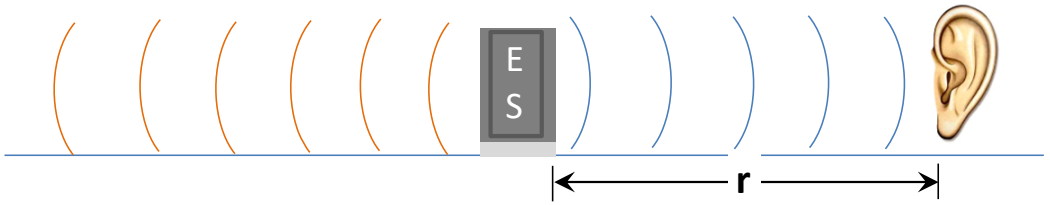
Where:

Surface =	FRONT	
L_W =	83.2 dB	ES sound power (Calc. from measurements)
Q =	4	Directivity factor
r =	87	feet

Input various values for r to approximate the perceived 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 = 46.7 dB

Where:

Surface =	FRONT	
L_W =	83.2 dB	ES sound power (Calc.)
Q =	2	Directivity factor
r =	87	feet

Input various values for r to approximate the perceived sound pressure at that distance from the ES door

Bloomenergy®

Exhibit 8

What Powers You

VIA CERTIFICATE OF MAILING

March 25, 2022

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 750 kilowatts of Customer-Side Distributed Resource at Milford Hospital, 300 Seaside Avenue, Milford, 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 30, 2022, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 750-kilowatt fuel cell installation and associated equipment. The Facility will be located at Milford Hospital at 300 Seaside Avenue in Milford, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of Milford Hospital'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

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

Bloom Energy Corporation
4353 North First Street, San Jose, CA 95134
408 543 1500
www.bloomenergy.com

ABUTTING PROPERTY OWNERS

subject parcel

Property ID M/B/L	Property Address	Owner Name	Mailing Address	Town	State	Zip
044/432/23	300 Seaside Avenue	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
044/432/23/A	2051 Bridgeport Avenue	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
044/390/5	2042 Bridgeport Avenue	Milford Medical Associates LLC	2044 Bridgeport Ave.	Milford	CT	06460
044/432/22/A	0 Bridgeport Avenue	City of Milford, 03-99	River St.	Milford	CT	06460
044/430/20	288 Broad Street	288 Broad Street LLC	75 Trumbull Ave.	Milford	CT	06460
044/430/21	309 Seaside Avenue	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
044/430/24	291 Seaside Avenue	Andrew Apicella	291 Seaside Ave.	Milford	CT	06460
044/430/29	285 Seaside Avenue	Elizabeth 327 LLC	193 Platt Ln.	Milford	CT	06461
044/430/30	281 Seaside Avenue	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
044/430/31	271 Seaside Avenue	Seaside Avenue Associates LLC	310 Mill Hill Ave.	Bridgeport	CT	06610-2863
044/430/32	267 Seaside Avenue	James and Robert R. Loverne and Sur PA 145 1 Wetlands	267 Seaside Ave.	Milford	CT	06460
044/432/A/15	0 Seaside Avenue	Maria Koursaris	262 Seaside Ave.	Milford	CT	06460
044/432/A/16	18 Cricklewood Road	Robert W. Haviland & Elaine E. Haviland	18 Cricklewood Rd.	Milford	CT	06460
044/432/A/17	4 Lakeside Road	Edward J. and Linda R. Cronin and Sur	4 Lakeside Rd.	Milford	CT	06460
044/432/A/30	3 Lakeside Road	Casi M. & Stephen V. Caggiano & Surv	3 Lakeside Rd.	Milford	CT	06460
044/432/12	27 Cricklewood Road	Michael Finnell & Christopher Lamberti	27 Cricklewood Rd.	Milford	CT	06460
044/432/11	33 Cricklewood Road	Robert F. Lonergan Sr., Robert F. & Carolyn M. Lonergan & Surv	33 Cricklewood Rd.	Milford	CT	06460
044/432/10	37 Cricklewood Road	Timothy R. & Lynda A. Rutherford Surv	37 Cricklewood Rd.	Milford	CT	06460
044/432/9	41 Cricklewood Road	Richard M. & Katherine Cappock	41 Cricklewood Rd.	Milford	CT	06460
044/432/32	40 Cricklewood Road	Marie N. Brown	40 Cricklewood Rd.	Milford	CT	06460
035/432/A/6	46 Cricklewood Road	City of Milford, 03-71	River St.	Milford	CT	06460
044/432/7	47 Cricklewood Road	Donald L. Dallas & Marie P. Dallas & Surv	47 Cricklewood Rd.	Milford	CT	06460
044/432/6	51 Cricklewood Road	Adam Nathaniel Brink & Stephanie Lynn Brink & Surv	51 Cricklewood Rd.	Milford	CT	06460
044/432/36	66 Fenway	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
044/433/5/A	69 Fenway South	Bridgeport Hospital, c/o Yale New Haven Health Services Corp.	789 Howard Ave.	New Haven	CT	06519
043/433/6	39 Fenway North	Daren V. Fermin & Sonia C. Fermin	39 Fenway North	Milford	CT	06460
043/432/33/A	42 Fenway	Andre C. & Stephanie L. Faria & Surv	42 Fenway	Milford	CT	06460
043/432/25	1089 Bridgeport Avenue	Jaser Enterprise LLC	495 New Haven Ave.	Milford	CT	06460
043/390/2	2020 Bridgeport Avenue	New England Finance Corp. & T 2028 Bridgeport Avenue LLC	173 Bridge Plaza N.	Fort Lee	NJ	07024

044/390/4	2038 Bridgeport Avenue	New England Finance Corp. & T 2028 Bridgeport Avenue LLC	173 Bridge Plaza N.. Re Tax Dept.	Fort Lee	NJ	07024

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. Manisha Juthani	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
Rosa L. DeLauro	U.S. Representative	2413 Rayburn House Office Building	Washington	DC	20515
James Maroney	State Senator, 14th District	Legislative Office Building, Room 2000	Hartford	CT	06106-1591
Frank Smith	Representative, 118th District	Legislative Office Building	Hartford	CT	06106-1591
	South Central Regional Council of Governments	127 Washington Ave., 4th Floor West	North Haven	CT	06473
Ben Blake	Mayor, City of Milford	110 River St.	Milford	CT	06460
David B. Sulkis	City Planner	70 West River St.	Milford	CT	06460
Stephen H. Harris	Zoning Enforcement Officer	70 West River St.	Milford	CT	06460
Joseph A. Tuozzola, Sr.	Chairman, Zoning Board of Appeals	70 West River St.	Milford	CT	06460
Jim Quish	Chairman, Planning and Zoning Board	70 West River St.	Milford	CT	06460
Brendan Magnan	Chairman, Inland Wetlands Agency	70 West River St.	Milford	CT	06460
	Conservation Commission	70 West River St.	Milford	CT	06460

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3.	Marissa Gillett, Chairman Public Utilities Regulatory Authority 10 Franklin Square New Britain, CT 06051				
4.	Dr. Manisha Juthani, Commissioner Department of Public Health 410 Capitol Ave. Hartford, CT 06134				
5.	Susan D. Merrow, Chair Council on Environmental Quality 79 Elm St. Hartford, CT 06106				
6.	Bryan P. Hurlburt, Commissioner Department of Agriculture 450 Columbus Blvd., Suite 701 Hartford, CT 06103				

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1.	Jeffrey R. Beckham, Acting Secretary Office of Policy and Management 450 Capitol Ave. Hartford, CT 06106				
2.	~~Joseph Giulietti, Commissioner~~ Department of Transportation 2800 Berlin Tpke PO Box 317546 ~~Newington, CT 06131-7546~~				
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~~				
6.	Josh Geballe, Commissioner Department of Administrative Services 450 Columbus Blvd. Hartford, CT 06103				

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1.	Dante Bartolomeo, Interim Commissioner Department of Labor 200 Folly Brook Blvd. Wethersfield, CT 06109				
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. Rosa L. DeLauro U.S. Representative 2413 Rayburn House Office Building Washington, DC 20515				
5.	Hon. James Maroney State Senator, 14th District Legislative Office Building, Room 2000 Hartford, CT 06106				
6.	Hon. Frank Smith Representative, 118th District Legislative Office Building Hartford, CT 06106				

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1.	New England Finance Corp. & T 2028 Bridgeport Avenue LLC 173 Bridge Plaza N., Re Tax Dept. Fort Lee, NJ 07024				
2.	New England Finance Corp. & T 2028 Bridgeport Avenue LLC 173 Bridge Plaza N. Fort Lee, NJ 07024				
3.	Jaser Enterprise LLC 495 New Haven Ave. Milford, CT 06460				
4.	Andre C. & Stephanie L. Faria & Surv 42 Fenway Milford, CT 06460				
5.	Seaside Avenue Associates LLC 310 Mill Hill Ave. Bridgeport, CT 06610-2863				
6.	Honorable Ben Blake Mayor, City of Milford 110 River St. Milford, CT 06460				

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1.	James and Robert R. Loverne and Sur PA 145 1 Wetlands 267 Seaside Ave. Milford, CT 06460				
2.	Maria Koursaris 262 Seaside Ave. Milford, CT 06460				
3.	Michael Finnell & Christopher Lamberti 27 Cricklewood Rd. Milford, CT 06460				
4.	Robert F. Lonergan Sr., Robert F. & Carolyn M. Lonergan & Surv 33 Cricklewood Rd. Milford, CT 06460				
5.					
6.	David B. Sulkis City Planner 70 West River St. Milford, CT 06460				

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1.	Bridgeport Hospital, c/o Yale New Haven Health Services Corp. 789 Howard Ave. New Haven, CT 06519				
2.	Milford Medical Associates LLC 2044 Bridgeport Ave. Milford, CT 06460				
3.	City of Milford, 03-99 River St. Milford, CT 06460				
4.	288 Broad Street LLC 75 Trumbull Ave. Milford, CT 06460				
5.	Andrew Apicella 291 Seaside Ave. Milford, CT 06460				
6.	Elizabeth 327 LLC 193 Platt Ln. Milford, CT 06461				

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1.	Donald L. Dallas & Marie P. Dallas & Surv 47 Cricklewood Rd. Milford, CT 06460				
2.	Adam Nathaniel Brink & Stephanie Lynn Brink & Surv 51 Cricklewood Rd. Milford, CT 06460				
3.	Daren V. Fermin & Sonia C. Fermin 39 Fenway North Milford, CT 06460				
4.	Richard M. & Katherine Cappock 41 Cricklewood Rd. Milford, CT 06460				
5.	Marie N. Brown 40 Cricklewood Rd. Milford, CT 06460				
6.	City of Milford, 03-71 River St. Milford, CT 06460				

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1.	Timothy R. & Lynda A. Rutherford Surv 37 Cricklewood Rd. Milford, CT 06460				
2.	Robert W. Haviland & Elaine E. Haviland 18 Cricklewood Rd. Milford, CT 06460				
3.	Edward J. and Linda R. Cronin and Sur 4 Lakeside Rd. Milford, CT 06460				
4.	Casi M. & Stephen V. Caggiano & Surv 3 Lakeside Rd. Milford, CT 06460				
5.	Stephen H. Harris Zoning Enforcement Officer 70 West River St. Milford, CT 06460				
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2.	Joseph A. Tuozzola, Sr. Chair, Zoning Board of Appeals 70 West River St. Milford, CT 06460				
3.	Jim Quish, Chairman Planning and Zoning Board 70 West River St. Milford, CT 06460				
4.	Brendan Magnan, Chairman Inland Wetlands Agency 70 West River St. Milford, CT 06460				
5.	Conservation Commission 70 West River St. Milford, CT 06460				
6.					

Bloomenergy®

Exhibit 9

From: Jennifer Young Gaudet
To: "Planning@ci.milford.ct.us"
Subject: Milford Hospital - Bloom Energy
Date: Tuesday, March 15, 2022 8:32:00 AM
Attachments: image001.png
Bloom - Milford Hospital fuel cell.pdf

Attn: David B. Sulkis, City Planner

Dear Mr. Sulkis:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installation at Milford Hospital. Attached are plans depicting the proposed installation, which will consist of energy servers and associated equipment and be fueled by natural gas. As shown, it will be located in the parking lot south of the emergency room entrance.

Bloom will be submitting a petition to the Connecticut Siting Council for approval. In preparation for the filing, we are seeking any comments you or other appropriate City departments may have on the proposed plans.

I am available to discuss the plans or answer any questions you may have. I can be reached by phone at 860 798-7454 or by e-mail.

Thank you.

Jennifer Young Gaudet

ALL-POINTS TECHNOLOGY CORPORATION

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