



VIA FedEx and Email

November 17, 2017

Melanie Bachman
Connecticut Siting Council
Ten Franklin Square,
New Britain, CT 06051

RE: **PETITION NO. 1332** – Bloom Energy Corporation petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a customer-side one-megawatt fuel cell facility to be located at the FedEx Ground building, Middle Street, Middletown, Connecticut.

Dear Ms. Bachman,

We are submitting an original and fifteen (15) copies of the interrogatories response for Petition NO. 1332.

A handwritten signature in black ink, appearing to read "Justin Adams".

Justin Adams
Bloom Energy

Petition No. 1332
Bloom Energy Corporation
FedEx Ground, Middle Street
Middletown, CT
Interrogatories Response

1. The certified mail receipts have been emailed to the Council to reduce the paper usage required to provide 16 copies.
2. Before the email was sent I left a voicemail with the Land Use Planner, which was not returned. I then spoke with staff within the department who recommended the email. Finally, a certified letter was sent to the attention of the Land Use Planner notifying them of the project.
3. During our research of the site it seemed as though FedEx purchased that property, but we did not remove the line since we could not confirm. When we researched the property on the City GIS and Vision websites no property card information could be found. The aerial photo of the site (below) from September 2017 clearly shows that the building was removed and FedEx is performing work in that location. FedEx's ownership of the property was confirmed with FedEx.

September 2017 Google Earth Aerial Photo



4. The FedEx Ground facility is currently under construction and on schedule to be finished in the summer months of 2018. The proposed fuel cell installation is planned to be installed close to the completion of construction of the FedEx Ground facility. The Bloom design and construction team is in close coordination between the FedEx Ground construction team to ensure the project is integrated into the building systems and site layout.
5. Industrial Park Road. There is only pedestrian access from Middle Street.
6. The natural gas line would extend from Middle Street. The length of the natural gas line on the property would be 660 linear feet. A drawing showing the gas line and the proposed facility is provided as an amendment to Exhibit 2.
7. No
8. Yes
9. The proposed fuel cell project is a grid parallel installation, which means that the fuel cell provides primary power to the building with additional load power provided by the utility. In the event of a power outage, the Bloom Energy fuel cell will automatically go into stand-by mode and disconnect from the grid. The system will automatically start up again when the grid is normal.
10. Nitrogen will be used as the media for the pipe cleaning procedures.
11. The proposed facility will not be enclosed by a fence. The fuel cell has redundant safety features and in-system checks to ensure personnel safety. While the actual fuel cells operate at high temperatures, these components do not move and are contained within many layers of insulation. It is safe to stand adjacent to the equipment as all moving parts and hot surfaces are protected by the locked outer panels. Only Bloom service personnel have the keys and can be on-site within 24 hours.
12. Approximately 143' +/-
13. The distance is approximately 8.1 miles southwest to the Meriden Markham Municipal Airport in Meriden and approximately 9.9 miles northeast to Hartford-Brainard Airport in Hartford. Bloom has also entered the location information into the Federal Aviation Administration (FAA) Notice Criteria Tool (below), which shows that we do not exceed the notice criteria and therefore are not required to notify the FAA of the proposed project.

FAA Notice Criteria Tool Results

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:	<input type="text" value="41"/> Deg <input type="text" value="55"/> M <input type="text" value="50"/> S <input type="text" value="N"/>
Longitude:	<input type="text" value="72"/> Deg <input type="text" value="44"/> M <input type="text" value="5"/> S <input type="text" value="W"/>
Horizontal Datum:	<input type="text" value="NAD83"/>
Site Elevation (SE):	<input type="text" value="141"/> (nearest foot)
Structure Height :	<input type="text" value="7"/> (nearest foot)
Traverseway:	<input type="text" value="No Traverseway"/>
	<small>(Additional height is added to certain structures under 77.9(c) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway</small>
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes
	<input type="button" value="Submit"/>

Results

You do not exceed Notice Criteria.

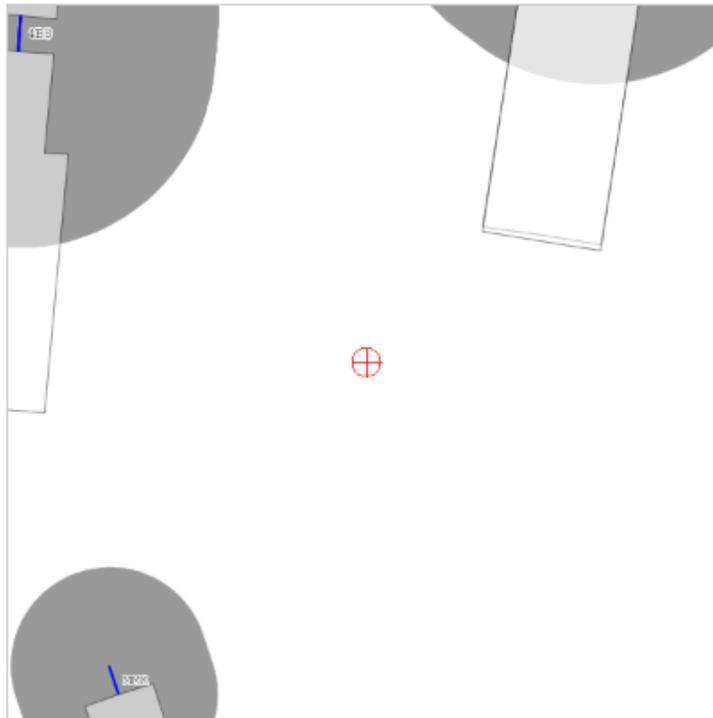


Exhibit 2
Amendment

SEAL

CUSTOMER SITE

FED-EX
1152 MIDDLE ST,
MIDDLETOWN, CT 06457



REVISION HISTORY		
REV	REVISION ISSUE	DATE

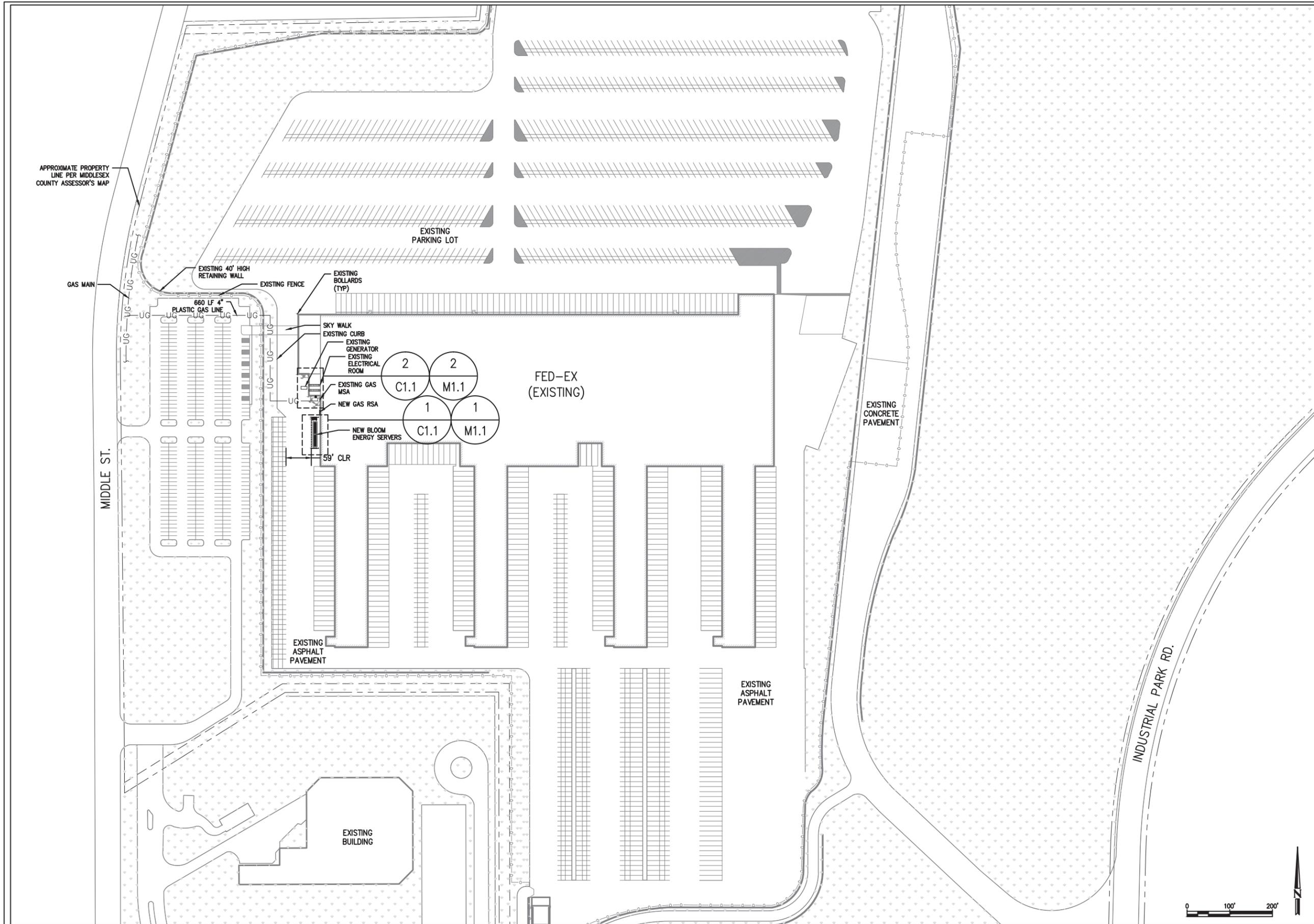
DESIGNED BY KATE TAYLOR	DATE 09/01/2017
DRAWN BY SHASHIKUMAR	DATE 09/01/2017
REVIEWED BY	DATE
APPROVED BY	DATE

SHEET TITLE
OVERALL SITE PLAN

DRAWING NUMBER
G1.1

BLOOM DOCUMENT
DOC-1009727

THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: FDX010.0 SHEET 03 OF 13



APPROXIMATE PROPERTY LINE PER MIDDLESEX COUNTY ASSESSOR'S MAP

GAS MAIN

MIDDLE ST.

EXISTING 40' HIGH RETAINING WALL

EXISTING FENCE

EXISTING BOLLARDS (TYP)

EXISTING PARKING LOT

660 LF 4" PLASTIC GAS LINE

SKY WALK

EXISTING CURB

EXISTING GENERATOR

EXISTING ELECTRICAL ROOM

EXISTING GAS MSA

NEW GAS RSA

NEW BLOOM ENERGY SERVERS

59' CLR

EXISTING ASPHALT PAVEMENT

EXISTING BUILDING

FED-EX (EXISTING)

EXISTING CONCRETE PAVEMENT

EXISTING ASPHALT PAVEMENT

INDUSTRIAL PARK RD.

OVERALL SITE PLAN

SCALE: 1" = 100'

1
G1.1