Bloomenergy[•]

July 6th, 2022

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

RE: PETITION NO. 1090A – Bloom Energy Corporation Request to Amend its Declaratory Ruling, pursuant to Connecticut General Statuses §4-176 and §16-50k, for the Proposed Phase II Construction, Maintenance and Operation of a Second Customer-side 250-kilowatt Fuel Cell Facility and Associated Equipment to be Located at the Danbury Fair Mall, 7 Backus Avenue, Danbury, Connecticut

Dear Attorney Bachman:

On January 31, 2020, the Connecticut Siting Council ("Council") approved by declaratory ruling a proposed Bloom Energy Corporation ("Bloom") fuel cell facility (the "Facility") at the Danbury Fair Mall, 7 Backus Avenue, Danbury, Connecticut (the "Site"). *Council Decision Letter dated January 31, 2020.*

Shortly thereafter, the Site shut down due to the Covid pandemic and the project was placed on hold. At this time, the mall owners have requested to reinitiate the project. Certain changes are now proposed due to changes in Bloom's Energy Server units and reassessment of the Site's capacity needs. The attached revised site plan (*Attachment #1*), depicts the following minor revisions to the proposal approved in January 2020:

- 1. The primary equipment area will decrease in size from appx. 900 SF to appx 630 SF due to reducing the size of the service apron to meet our minimum service specifications. The Energy Servers will be placed on skids; no concrete pad will be required.
- 2. The system capacity will be increased from 250 kW to 300 kW.

On June 30, 2022, Bloom contacted Ms. Jennifer Emminger, Deputy Planning Director of the City of Danbury by email and provided her with the updated site plan and details for the proposed site changes for review and comment. Ms. Emminger responded with no objection to the changes. *See Attachment #2.*

Bloom is respectfully requesting review and approval of these changes under Condition No. 1 of the January 31, 2020 Letter Decision.

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

Sincerely, Bloom Energy

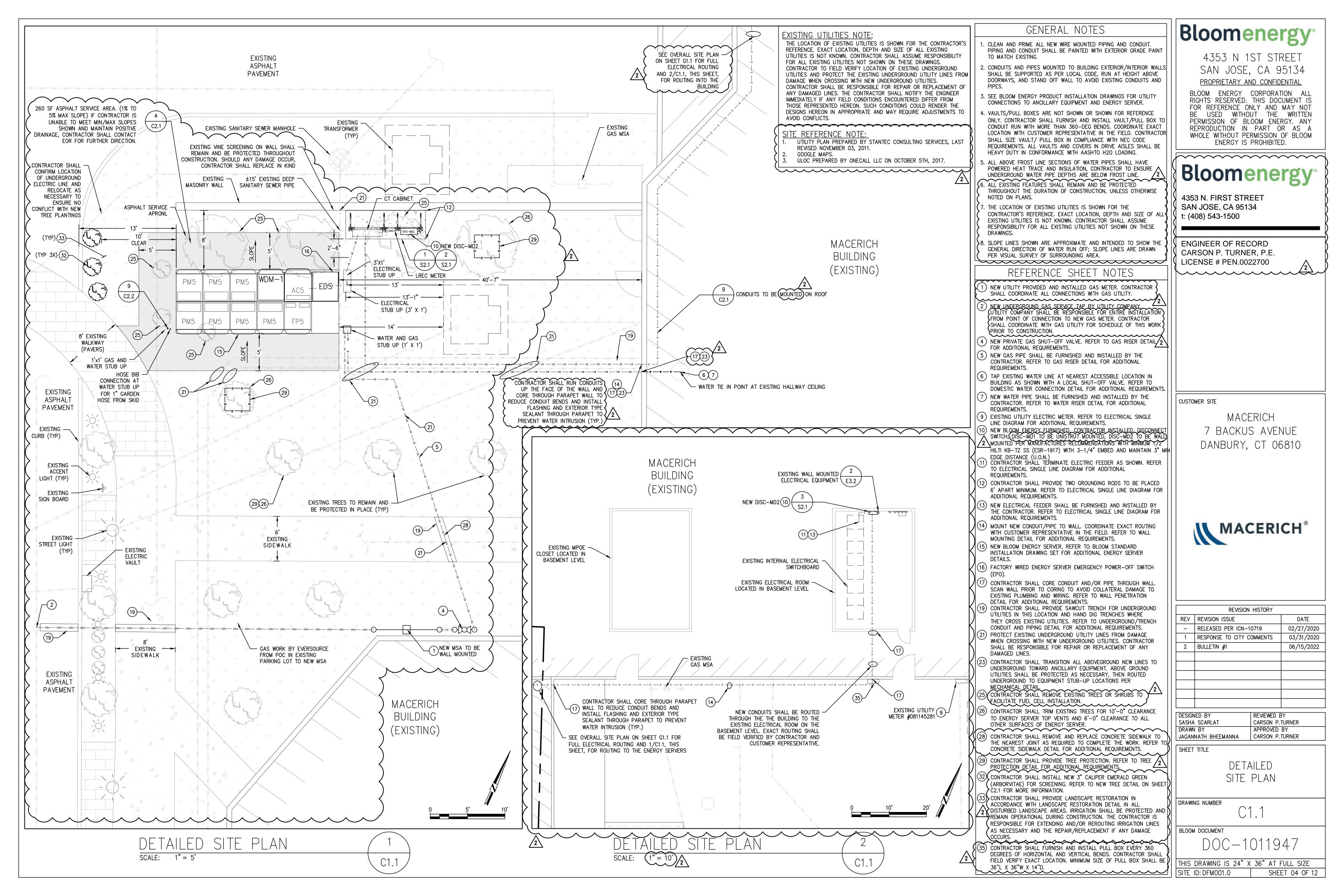
Kristen Grillo Senior Permitting Specialist <u>kristen.grillo@bloomenergy.com</u> (917) 803-4511

Bloomenergy[.]

cc: The Honorable Dean Esposito, Mayor, City of Danbury Sharon Calitro, Director of Planning & Zoning, City of Danbury Jennifer Emminger, Deputy Planning Director, City of Danbury



Attachment 1: Revised Site Plan



Bloomenergy

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.

PRODUCT DATASHEET



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.

San Jose, CA 95134 F 408 543 1501

Be

Energy Server 5		Technical Highlights (ES5-YASAAL)
Outputs		
Nameplate power output (net AC)		300kW
Load output (net AC)		300kW
Electrical connection		480V, 3-phase, 60 Hz
Inputs Fuels		Natural gas, directed biogas
Input fuel pressure		10-18 psig (15 psig nominal)
Water		None during normal operation
Efficiency		
Cumulative electrical eff	iciency (LHV net AC) ¹	65-53%
Heat rate (HHV)		5,811-7,127 Btu/kWh
Emissions ²		
NOx SOx		0.0017 lbs/MWh 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 E	invironment	
Weight Dimensions (variable lay	outs)	15.8 tons 17'11" x 8'8" x 6'9" or 32'3" x 4'4" x 7'2"
Temperature range	outs)	-20° to 45° C
Humidity		0% - 100%
Seismic vibration		IBC site class D
Location		Outdoor
Noise		< 70 dBA @ 6 feet
Codes and Standards	terconnection and IEEE15	47 step dende
Exempt from CA Air Dist An Energy Server is a Sta 'Stationary Fuel Cell Pow Additional Notes	rict permitting; meets strir tionary Fuel Cell Power Sy er System' to ANSI/CSA FC	ngent CARB 2007 emissions standards stem. It is Listed by Underwriters Laboratories, Inc. (UL) as a 1-2014 under UL Category IRGZ and UL File Number MH45102. formance & environmental benefits
	monitored by Bloom Ener	
	top based on input from t	
	IE PTC 50 Fuel Cell Power Systems Pe lethod 100, VOCs measured as hexan	
Energy Server, delivers highly	reliable and resilient, Always tune 100 companies and lead	fordable for everyone in the world. The company's product, the Bloom On electric power that is clean and sustainable. Bloom's customers ders in cloud services and data centers, healthcare, retail, financial
Bloom Energy 4353 North First Street San Jose, CA 95134	T 408 543 1500 F 408 543 1501	info@bloomenergy.com Bloom Energy Corporation 2019. All Rights Reserved DOC-1013914 Rev A

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REVISION HISTORY REV REVISION ISSUE - RELEASED PER ICN-10719	DATE			
1 BULLETIN #1	02/27/2020 06/15/2022			
DESIGNED BY SASHA SCARLAT DRAWN BY APPROVED	BY			
JAGANNATH BHEEMANNA BLOOM ENERGY SHEET TITLE				
BLOOM ENERGY PRODUCT DATA SHEET				
DRAWING NUMBER R0.1				
$\frac{\text{Bloom document}}{DOC-1011947}$				
THIS DRAWING IS 24" X 36" AT FULL SIZESITE ID: DFM001.0SHEET 12 OF 12				

Attachment 2: Correspondence with the City of Waterbury

Kristen Grillo

From:	Jennifer Emminger <j.emminger@danbury-ct.gov></j.emminger@danbury-ct.gov>		
Sent:	Thursday, June 30, 2022 3:05 PM		
То:	Kristen Grillo		
Subject:	Re: Bloom Energy Fuel Cell Installation Danbury Mall, 7 Backus Avenue - Installation Changes		

EXTERNAL EMAIL

Thanks for the update Kristen. I'm glad you can avoid removing the tree. Jen

On Thu, Jun 30, 2022 at 2:47 PM Kristen Grillo <<u>Kristen.Grillo@bloomenergy.com</u>> wrote:

Hi Jennifer – Good afternoon,

With some additional investigation, Bloom has been able to reduce the installation footprint from appx. 900SF in the original design to appx 630 SF, due to reducing our service apron to meet our minimum service specifications. With this change, Bloom can now avoid removing the additional tree (site plan attached for your reference).

I wanted to keep you apprised of this change, since we'll be reaching out to the Siting Council today or tomorrow with this information and wanted to ensure that we're all on the same page. Let me know if you have any questions or comments.

Thank you so much.

Kristen Grillo

Senior Permitting Specialist | East Coast Field Office

Customer Installations Group | North America

(917) 803-4511

Kristen.Grillo@bloomenergy.com

Bloom Energy Corporation

4353 North First Street, San Jose, CA 95134

(408) 543-1500

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From: Jennifer Emminger <<u>j.emminger@danbury-ct.gov</u>
Sent: Wednesday, June 29, 2022 9:21 AM
To: Kristen Grillo <<u>Kristen.Grillo@bloomenergy.com</u>
Subject: Re: Bloom Energy Fuel Cell Installation | Danbury Mall, 7 Backus Avenue - Installation Changes

EXTERNAL EMAIL

Great. Thank you for the update.

Jennifer

On Wed, Jun 29, 2022 at 9:17 AM Kristen Grillo <<u>Kristen.Grillo@bloomenergy.com</u>> wrote:

Good morning Jennifer,

Thank you for your review and response. Yes, we will certainly resubmit with the Siting Council as well. We thought it was best to communicate the changes with you first so that they know that we've already discussed it with the City.

We'll move forward with the Building Permit process once we're officially updated with the CSC, as you suggested. Thank you again for your time – we really appreciate it.

Kristen Grillo

Senior Permitting Specialist | East Coast Field Office

Customer Installations Group | North America

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From: Jennifer Emminger <<u>j.emminger@danbury-ct.gov</u>
Sent: Tuesday, June 28, 2022 4:14 PM
To: Kristen Grillo <<u>Kristen.Grillo@bloomenergy.com</u>
Subject: Re: Bloom Energy Fuel Cell Installation | Danbury Mall, 7 Backus Avenue - Installation Changes

EXTERNAL EMAIL

Hi Kristen.

I've reviewed the information submitted and I have no issue and/or concerns with the proposed changes. Since your plans will no longer be consistent with the 2020 Siting Council approval I recommend you confirm with the SC if you need to go back to them for the proposed revision. You'll need to confirm this before you re-apply for your building permits as the Permit Center will need a copy of the approval and updated plan set.

Let me know if you have any further questions.

Thanks,

Jennifer

On Tue, Jun 28, 2022 at 10:19 AM Kristen Grillo <<u>Kristen.Grillo@bloomenergy.com</u>> wrote:

Good morning Jennifer,

I hope all is well.

Back in early 2020, my colleague Justin Adams had filed a Building Permit Application with the City of Danbury for the installation of a 250 kW Bloom Energy Fuel Cell Energy Server Facility at the above referenced location. Just as we were moving through the Building Review process, the mall temporarily shut down due to Covid and the project was placed on hold. The project is now finally starting to come back to life but with a few changes to the installation, most notably that the system size has been bumped up from 250 to 300kw after the Mall has reevaluated the need for additional capacity.

Below please find a link that will take you to the previously submitted site plan and the current updated site plan outlining the following revisions:

- 1. Switching from concrete pad to packaged energy server.
- 2. Sizing up from 250 kW to 300 kW.
- 3. Updating detailed design to bring the plan set to construction level.
- 4. Additional tree in area of energy server installation to be removed due to the system size upgrade and equipment installation.

My intention is to discuss these changes with you to address & discuss any concerns prior to re-submitting our Building Permit Application for the project. When you have a moment, could you please kindly review and provide any questions or comments that your or other City Officials may have?

Appreciate your time – Thank you very much.

DFM001.0 - Danbury Mall | Bloom Energy Fuel Cell Installation

Password: XBcA5cKA

Kristen Grillo

Senior Permitting Specialist | East Coast Field Office

Customer Installations Group | North America

(917) 803-4511

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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

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