

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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VIA ELECTRONIC MAIL

February 21, 2023

Walter Bonola Installation Project Manager Doosan Fuel Cell America, Inc. 101 East River Drive East Hartford, CT 06108 walter.bonola@doosan.com

RE: **PETITION NO. 1554** - HyAxiom, Inc. 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 1.84-megawatt fuel cell facility and associated equipment to be located near East Hall at the University of Hartford campus located at 200 Bloomfield Avenue, West Hartford (Parcel No. 2024) and 202 Bloomfield Avenue, Hartford (Parcel No. 102001001), Connecticut.

Dear Walter Bonola:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than March 7, 2023. Please submit an original and 15 copies to the Council's office and an electronic copy to siting.council@ct.gov. In accordance with the State Solid Waste Management Plan and in accordance with Section 16-50j-12 of the Regulations of Connecticut State Agencies, the Council requests all filings be submitted on recyclable paper, primarily regular weight white office paper. Please avoid using heavy stock paper, colored paper, and metal or plastic binders and separators. Fewer copies of bulk material may be provided as appropriate.

Please be advised that the original and 15 copies are required to be submitted to the Council's office on or before the March 7, 2023 deadline.

Copies of your responses are required to be provided to all parties and intervenors listed in the service list, which can be found on the Council's website under the "Pending Matters" link.

Any request for an extension of time to submit responses to interrogatories shall be submitted to the Council in writing pursuant to §16-50j-22a of the Regulations of Connecticut State Agencies.

Sincerely,

Melanie Bachman Executive Director

Melin Beal

MB/MP

Petition No. 1554 HyAxiom, Inc. 200 Bloomfield Avenue, West Hartford; and 202 Bloomfield Avenue, Hartford, Connecticut Interrogatories

Notice

- 1. Referencing page 13 of the Petition, Section IX, when did HyAxiom, Inc. (HyAxiom) share plans for the project with what local officials?
- R1 HyAxiom has shared the drawings for this project administratively with Wetlands and zoning officials for the City of Hartford in 2021/2022. Plans were also made public during the easement negotiations between CNG and the City of Hartford.
- 2. Has the City of Hartford (City), Town of West Hartford (Town) and/or any abutters provided comments to HyAxiom since the Petition filing? If so, please summarize the comments and how these comments were addressed.
- R2 HyAxiom has received no responses to the notification letter sent to abutters and officials. University of Hartford has also sent abutters letters independent of those required by the petition and has not received any responses either.

Project Development

- 3. Is the project, or any portion of the project, proposed to be undertaken by state departments, institutions or agencies, or to be funded in whole or in part by the state through any contract or grant?
- R3 The University has not received any funding from any State agency or department for the fuel cell project. There is however an LREC in place which is administered by Eversource.
- 4. Provide a map of the host property including the location of the proposed facility and the nearest municipal boundary.
- R4 Reference Attachment #1
- 5. Provide an electronic copy of Drawings GA1.0, GA1.1 and E1.0.
- R5 See attachments #2, 2a, 2b

Proposed Site

- 6. What is the distance and direction of the nearest off-campus residence from the proposed fuel cell facility?
- R6 The nearest off campus residence is 207 Bloomfield Ave. Approx. 1500 LF to the West of the facility. (referenced in Attachment #1)
- 7. What is the distance and direction of the nearest on-campus building from the proposed fuel cell facility? What is that building used for?

- R7 East Hall which contains classrooms is the closest building to the facility some 121' to the West.
- 8. How many acres is the parcel that would host the fuel cell facility?
- R8 The campus at 200 Bloomfield Ave spans some 350 acres.
- 9. Referencing page 2 of the Petition, Section II, HyAxiom notes that the proposed fence would be 6 feet tall. Drawing GA1.0 depicts an 8-foot tall fence. Explain.
- R9 The 6 foot fence reference was a typographical error. The proposed fence will by 8 foot high black vinyl coated chain link with privacy slats.
- 10. Referencing Drawing GA1.0, would the 9-foot wide ramp also be made of concrete to match the concrete pad?
- R10 All of the proposed pavement for the project will be concrete including the ramp. Any disturbed asphalt will be patched around the perimeter of the FC facility.

Energy Output

- 11. Could the facility continue operating during a power outage and provide seamless uninterruptable power?
- R11 As presently designed the facility will not provide back up power to the University. There are two 3 Megawatt generators already installed to provide back up power.
- 12. Would the proposed fuel cell provide baseload or backup power (or both) for University of Hartford? What percentage of the campus' electrical load would the proposed fuel cell facility provide?
- R12 The fuel cell facility will be connected in parallel with the grid. The facility will provide Approx. 60% of the total electrical load for the University.

Site Components/Interconnection

- 13. Is the project interconnection required to be reviewed by ISO-NE?
- R13 Yes. The interconnection is presently being studied by Eversource for ISO-NE.
- 14. What percentage, if any, of the building or campus thermal load would be served by waste heat from the fuel cell facility? If none, would outdoor cooling modules be required to neutralize any waste heat?
- R14 As presently designed waste heat from the facility will not be utilized but the facility could be retrofitted to utilize up to 5mmbtu/hr. of waste heat in the future.
- 15. Referencing Drawing GA1.0 of the Petition, left side, where would the proposed water and electrical connection trenches extend to? Provide Drawing GA1.1 to fully depict the utility connection routes.
- R15 The make up water line is proposed to be connected inside East Hall at the North East corner of the building. The electric trench follows the stair/sidewalk up the grade to the UHart switch gear in the substation. Reference Attachment #2a for sheet GA1.1.

- 16. Referencing Petition, page 1, would any modifications to University of Hartford's substation be required to interconnect the fuel cell facility? Explain. What are the line voltages of the substation and the proposed fuel cell interconnection?
- R16 A new medium voltage circuit breaker will be installed in the University's existing switch gear and will serve as the electrical point of connection at 4800 volts. The two HelCo feeders to the substation are 25ky.

Public Safety

- 17. Does the Petitioner intend to provide the Fuel Cell Emergency Response Guide above-referenced document to local emergency responders and provide on-site training, if requested?
- R17 HyAxiom routinely invites all local first responders to a training session on site. Because the university property spans both Hartford and West Hartford both Municipalities will be invited along with the University Security force and Facility management personnel.
- 18. Which National Fire Protection Association (NFPA) or other codes and standards apply to fuel cell construction, installation and/or modifications?
- R18 HyAxiom Purecell Model 400 fuel cells are manufactured under CSA certification and are installed in accordance with NFPA 853, local and state building codes and the IBC.
- 19. Would the facility be remotely monitored on a 24/7 basis, and could the facility be shut down remotely in the event of an emergency?
- R19 Yes. The entire HYAxiom fleet is monitored 24/7 and can be fully remotely operated including shutdowns and startups.

Environmental

- 20. Referencing Petition, page 12, and regarding flood elevation at the proposed facility location:
 - a) The 100-year flood elevation (i.e. base flood elevation) is 37 feet. Does the 40 feet represent the approximate elevation of the top of concrete for the fuel cells and equipment?

R20a Yes. All equipment will bear at or above elevation 40'.0".

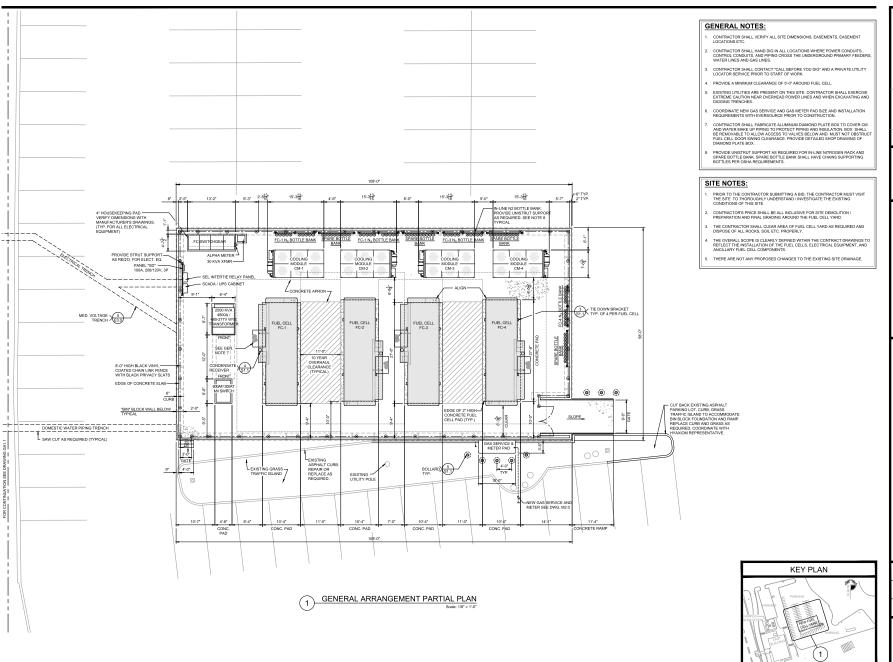
- b) What is the 500-year flood elevation?
- R20b 38.0' NGVD (based on Connecticut River Flood Elevation, Flood of 1936)
- c) What is the additional cost to install the facility one foot above the 500 year flood elevation? R20c The present design already exceeds the 500 year flood stage by 2'.
- 21. Would erosion and sedimentation controls be installed consistent with the 2002 Connecticut Guidelines for Erosion and Sediment Control?
- R21 Yes. Although the total disturbed area will be less than one acre all prudent measures to prevent Siltation will be implemented and maintained until the site is stabilized.
- 22. Would construction of the proposed facility involve disturbance of one or more total acres of land area? Estimate the total disturbance area in square feet.

- R22 No. The total area of disturbance will be approximately 12,000 sf.
- 23. Referencing Petition, Attachment #18, during overhaul of the desulfurizer, how is it removed, transported, stored and disposed? Are any components reused for other products or purposes?
- R23 The desulphurization vessel is sealed and mechanically removed from the fuel cell. Clean Harbors transports the vessel for recycling and disposal and the vessel is recycled as scrap metal.

Attachment #1



Attachment 2



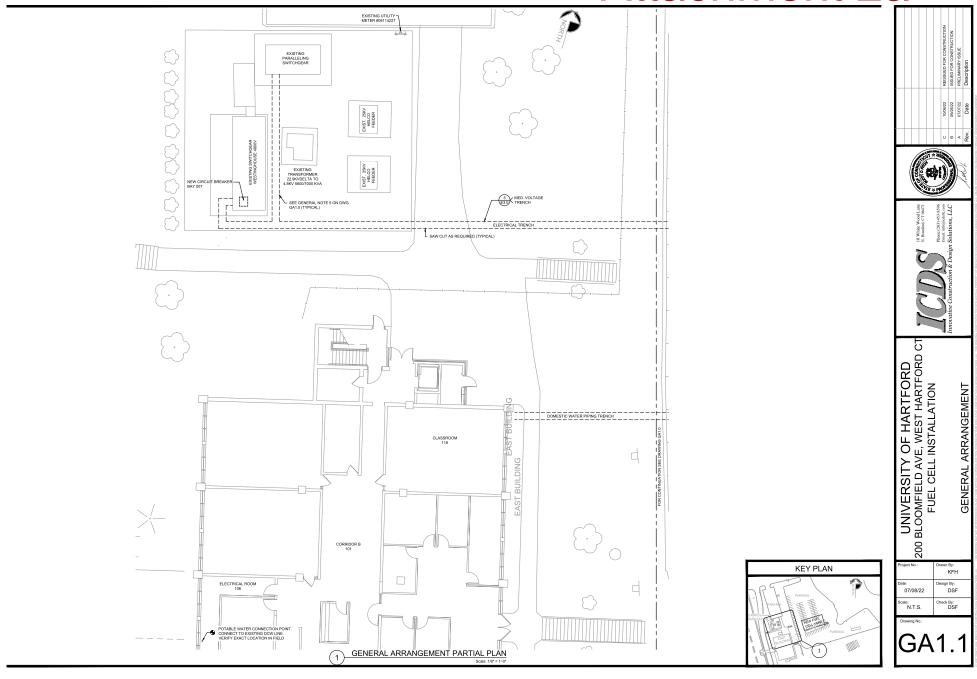
UNIVERSITY OF HARTFORD
200 BLOOMFIELD AVE, WEST HARTFORD CT
FUEL CELL INSTALLATION

ENERAL ARRANGEMENT

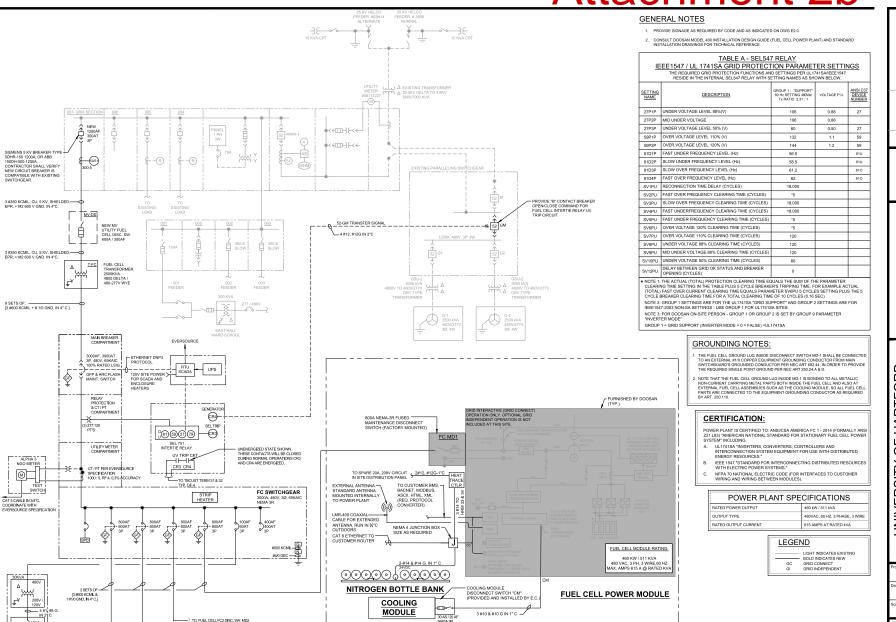
| Drawn By-| KFH | Date: | Design By-| 07/08/22 | Design By-| DSF | D

GA1.0

Attachment 2a



Attachment 2b



TYPICAL FOR (4) FOUR MODEL 400 PureCell SYSTEM POWER PLANTS

→ TO FUEL CELL FC3 DISC, SW, MD3

TO FUEL CELL FC4 DISC, SW. MD4

RESSUED FOR CONSTRUCTION
ISSUED FOR CONSTRUCTION
PRELIMMANY ISSUE
Description



No Water Production
No Water Production
No Water Production
Phone: (203) 453-48396
Email: info@ixesite.com
Design Solutions, LLC

Immovative Construction & Design So

DIAGRAM

ONE-LINE

ECTRICAL

UNIVERSITY OF HARTFORD BLOOMFIELD AVE, WEST HARTFORD FUEL CELL INSTALLATION

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E1.0