

Wareham Fire Department

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Wareham, MA 02571

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September 24, 2021

Town of Wareham Planning Board
C/O Kenneth Buckland
54 Marion Road
Wareham MA 02571

RE: 36, 44, 48 North Carver Rd Proposed Solar Facility

Dear Mr. Buckland,

The Wareham Fire Department received the plans for a proposed solar facility to be located on a Parcel of land located at 36, 44, 48 North Carver Road. We provided a review of this proposed facility and have the following comments:

1. Emergency responder training shall be provided prior to requesting final approvals.
2. The proposed battery storage systems shall be installed in accordance with MA 527 CMR 1.00, Chapter 52, Stationary Storage Battery Systems. This includes, but is not limited to: 52.3.10, an approved, supervised smoke detection/fire alarm system, 52.3.2, a Thermal Runaway system, and 52.3.7, a temperature maintained operating environment. Additionally, the project shall be designed and installed in accordance with **NFPA 855**, The Standard for the Installation of Stationary Energy Storage Systems.
3. Integrated fire suppression and detection systems: The design of these systems shall be in accordance with all applicable codes and requirements, including but not limited to: NFPA 70, NFPA 72, NFPA 855, MA 527 CMR 1.00, and UL 9540. These systems shall be approved by the Wareham Fire Department.
4. A local, external disconnect shall be installed, for emergency crews to shut down power to the BESS enclosure during an emergency.
5. An Emergency Response Plan shall be submitted. Such a plan shall include but not be limited to: Emergency Contacts and their responsibilities, Safety Guidelines, First Responder Response Outline for Fire Emergencies, and Spill Response Procedures. This information shall also be posted on site with appropriate signage.
6. The following UL Standards should be applied: UL489, UL810A, UL1642, UL 1741, UL 1973
7. The following Fire Suppression Standards should be applied: NFPA 1, NFPA 13, NFPA 15, NFPA 101, NFPA 850, NFPA 851, NFPA 853, NFPA 855, NFPA 5000 IBC, IFC, as well as state and local codes.

8. A UL Listed Gas Detection System is to be installed inside the battery enclosure. Li Ion storage facilities emit specific gases prior to thermal runaway scenarios. A gas detection system shuts down the system prior to a fire.
9. Fire department access roads shall comply with 527 CMR 1.00 Chapter 18 and approved by the Wareham Fire Department and capable of supporting the imposed loads of fire apparatus and shall be provided with an all-weather driving surface and shall be maintained as provided.
10. Fire department access to and around the solar array shall be approved by the Wareham Fire Department.
11. A Fire department Knox Box shall be provided at the main access site.

Please feel free to contact our office if you have any additional questions regarding this matter.

Respectfully,



Captain James Brandolini Jr.

Fire Prevention