January 21, 2021

Town of Wareham Planning Board

C/O Kenneth Buckland

54 Marion Road

Wareham, MA 02571

Dear Mr. Buckland,

We reviewed the site plan application for the proposed ground mounted solar energy facility to be located at North Carver Road. We have the following comments regarding this proposed project:

1. All emergency responder access roads shall be twenty-foot-wide and composed of an all-weather driving surface. An unobstructed vertical clearance of sixteen feet shall be provided on all emergency responder access roads.
2. All security gates onsite shall have a width of twenty feet. These gates will be secured with a Wareham Fire Department Knox lock if not applicable, a Wareham Fire Department Knox Key Box shall be installed.
3. Emergency contact information signs shall be mounted in a conspicuous location.
4. Emergency responder training shall be provided prior to requesting final approvals.
5. 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.
6. 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 Carver Fire Department.
7. A local, external disconnect shall be installed, for emergency crews to shut down power to the BESS enclosure during an emergency.
8. 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.
9. The following UL Standards should be applied: UL489, UL810A, UL1642, UL 1741, UL 1973
10. 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.
11. 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.

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

Respectfully,

Captain Christopher Smith

Fire Prevention