

Witness: Shawn Morris

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Question:

EFSB-S-8 Refer to Exh. MS-1 at 13. Specify the BESS hardware and management system safeguards that mitigate the likelihood and potential consequences of fire and thermal events.

Response:

The Project incorporates multiple hardware and management system safeguards intended to reduce both the likelihood and potential consequences of fire and thermal events. At the equipment level, each Tesla Megapack 2XL includes a Battery Management System that continuously monitors cell- and module-level parameters such as voltage, temperature, and state of charge and is designed to detect abnormal conditions and electrically isolate affected components. The units also incorporate a Thermal Management System that regulates battery temperatures during normal operation and provides passive thermal resistance at the unit level during abnormal events. Physical design features, including module separation, non-combustible structural enclosures, and integrated gas venting and deflagration control mechanisms, are intended to limit heat transfer, manage pressure, and prevent uncontrolled enclosure failure in the unlikely event of a thermal runaway. At the site level, the Tesla Site Controller coordinates system operation, and interfaces with balance-of-plant equipment, while Tesla's Network Operations Center provides continuous remote monitoring, alarm visibility, and operational support. Together with site-specific operational procedures, remote monitoring, and emergency response planning, these hardware and management system safeguards form a layered approach to preventing thermal events and limiting their potential impacts should they occur.