

DECATUR BATTERY ENERGY STORAGE FACILITY

Exhibit A-1.13 HAZARD MITIGATION ANALYSIS (FACILITIES WITH STORAGE ONLY)

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EXHIBIT A-1.13 – HAZARD MITIGATION ANALYSIS (FACILITIES WITH STORAGE ONLY)

A-1.13.a – For energy storage projects provide a Hazard Mitigation Analysis in compliance with NFPA 855 (4.4).

A Hazard Mitigation Analysis in compliance with NFPA 855 (4.4) will be provided once the battery equipment for the Project has been purchased from the manufacturer. There is model specific information that the manufacturer will only provide at the time of purchase.

The purpose of the Hazard Mitigation Analysis is to identify any possible hazards associated with the BESS facility, assess the potential consequences of the identified hazards, and identify system design and operational controls that will effectively mitigate potential hazard impacts.

The Hazard Mitigation Analysis for this project involves evaluating potential failure modes, assessing their consequences, and implementing mitigation strategies to address risks such as fire, explosion, and the release of toxic gases. The primary objectives include preventing catastrophic events, extending system longevity, ensuring grid resilience, and achieving regulatory compliance. Core components of the analysis include detailed descriptions of the BESS and its site, assessment of applicable codes (such as NFPA 855 and the International Fire Code), and test results from UL 9540A to evaluate thermal runaway behavior and gas emissions.

The analysis also includes a Failure Modes and Effects Analysis (FMEA) to systematically assess the severity, likelihood, and detectability of various fault scenarios. Additional modeling may be used to study heat flux, deflagration overpressure, structural integrity, or to conduct full-scale fire tests. Approval criteria typically require demonstrating that fires will remain contained, combustion products will not impede evacuation, and explosion hazards are adequately controlled through engineering measures. These criteria ensure that BESS installations do not pose undue risks to people, property, or emergency responders.