

BATTERY ENERGY STORAGE (BESS) WORKSHEET

IF FIRE, SMOKE, OR SUSPICIOUS ODOR OBSERVED EMANATING FROM PRODUCT

If possible, shut off the unit/system

- Smoke or suspicious odor emanating from a Battery Energy Storage System can be an indication of an abnormal and hazardous condition including thermal runaway.

Evacuate the area of all non-emergency personnel. Establish a 330-foot initial isolation zone

- Wear proper PPE.
- Spot apparatus UPWIND and UPHILL.
- Monitor for evidence of continued smoke venting or fire.

There may be periods during which the thermal runaway propagates from battery to battery modules. During such time, the battery may not generate visible signs of thermal event although the event can still be active, and the battery can flare up.

Do not approach the involved unit and attempt to open any doors

- Allow safety systems to operate as designed.
- Some safety mechanisms are designed to maintain all doors shut, some will have ventilation hatches and doors that will open automatically.

Contact:

- Site emergency contact / Product manufacturer
- Hazardous Incident Response Team (HIRT)

If a fire has developed:

- Identify an adequate water supply.
- Position attack lines to protect neighboring exposures and neighboring battery enclosures.
- Allow the affected unit to consume itself as it is designed to do. Applying water to the burning unit will only slow its eventual combustion
- Use wide-fog stream, at lowest volume possible, to achieve desired cooling of neighboring battery enclosures.
- Coordinate procedures with site emergency personnel and/or product manufacturer.

Allow the battery pack to cool down (this process may take 12-48 hours or longer)