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Solar container battery ventilation

Overview

Do existing battery rooms have ventilation vulnerabilities?

A case study involving six existing battery rooms has been performed to investigate design vulnerabilities and identify knowledge gaps with respect to ventilation and other active fire protection measures. Results from the mapping indicate large differences in the design of ventilation systems and strategies implemented in existing battery rooms.

Why do batteries need to be ventilated?

The battery rooms must be adequately ventilated to prohibit the build-up of hydrogen gas. During normal operations, off gassing of the batteries is relatively small. However, the concern is elevated during times of heavy recharge or the batteries, which occur immediately following a rapid and deep discharge of the battery.

What are the requirements for a stationary battery ventilation system?

Ventilation systems for stationary batteries must address human health and safety, fire safety, equipment reliability and safety, as well as human comfort. The ventilation system must prevent the accumulation of hydrogen pockets greater than 1% concentration.

How does a battery room ventilation system work?

The battery room has a separate ventilation system, see Figure 7, Figure 8, and Figure 9. During normal operation, ventilation fans draw air from the ventilated parking garage to ensure sufficient air exchange in the battery compartment for cooling purpose. The fans are equipped with fire dampers connected to the fire alarm system.

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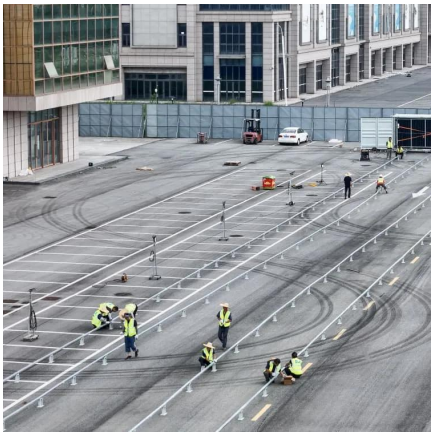

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Design of Ventilation System for Solar Car Battery Box

Design of Ventilation System for Solar Car Battery Box Western Michigan University Spring 2021 Cory Burnette Adam Clarkson Alex Dunham

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