



Session 2D

New FM Data Sheet (7-122) on Li-Ion Batteries

The increased use of electric power has led to greater quantities of lithium-ion batteries being manufactured and stored to keep up with demand. However, the fire protection industry has struggled to keep pace with hazard evaluations and fire protection guidance for manufacturing, storage and use of li-ion batteries or products containing them, including electric vehicles. This presentation will walk through the hazards associated with battery manufacturing, storage, product assembly and use as well as introduce our recommended fire protection approach to help mitigate those hazards. The new FM Property Loss Prevention Data Sheet 7-112, *Lithium-ion Battery Manufacturing and Storage*, now compiles our guidance in one place. A review of the new Data Sheet and the supporting research for the protection solutions offered within will also be covered.

Stephanie Thomas FM Global



Stephanie is a Senior Staff Engineering Specialist in the Chief Engineers Group at FM. She has been with FM for 11 years and has 19 years of experience in fire protection, covering fire hazard analysis, fire testing, and specialty fire protection system design. She is currently responsible for FM Property Loss Prevention Data Sheets related to the protection of manufacturing and storage of lithium-ion batteries, nonstorage occupancies, commodity classification, roll paper storage, sprinkler system maintenance as well as human factors including pre-incident and emergency response planning.

Stephanie holds a B.S. in Chemical Engineering, B.S. in Chemistry and an M.S. in Fire Protection Engineering from Worcester Polytechnic Institute in Worcester, MA, USA. She is a member of the National Fire Protection Association (NFPA), Society of Fire Protection Engineers (SFPE), and the Society of Women Engineers (SWE).

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