

Discussion on G-27 Testing Group Chamber Configuration and Calibration Findings

Robby Kinsala, CEO, Americase

Fulcrum Testing is a recognized leader with respect to the design, development and performance testing of Test Chambers utilized by the SAE G-27 / AS6413 Performance Based Packaging Standard for Lithium Batteries as Cargo on Aircraft. In this presentation we will review the findings generated from testing variables within test chamber configurations and how those findings led to calibration parameters that ensure test chambers perform identically from lab to lab. These variables include items such as ignition source types and locations, methods to measure chamber leak rate, combustion calibration using Methane gas, gas mixing fan types and locations, as well as other configuration variables that could affect outcomes from lab to lab, including those related to large format battery testing. The findings discussed in this presentation are intended to provide background and evidence in support of the determined requirements for test chamber design and configuration in the SAE AS6413 Standard.