

Presentation title,

**FAA's modeling of Fuel Tank Flammability and Inerting Effectiveness**

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Abstract:

On behalf of the FAA, The author has developed several computer models to assess the flammability of fuel tanks, and a range of inerting systems. These models cover the prediction of flammable conditions in a fuel tank for a wide range of fuels, the application of Monte Carlo techniques to the assessment of fleet flammability exposure, and the prediction of inert conditions in a tank based on airplane flight profile, fuel usage and inert gas flow rates. The author will describe these models together with the background data/assumptions used. The use of the models in the Fuel Tank Inerting Harmonization Working Group will be described.