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NRCREP Resource

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From: Robert Webster [robert.webster@areva.com]
Sent: Friday, October 29, 2010 12:24 PM
To: NRCREP Resource
Subject: Response from "Comment on NRC Documents"

Below is the result of your feedback form. It was submitted by

Robert Webster (robert.webster@areva.com) on Friday, October 29, 2010 at 12:23:35

Document_Title: Cable Heat Release,
Ignition, and Spread in
Tray Installations During
Fire (CHRISTIFIRE)
Volume 1: Horizontal Trays

Comments: This report provides extensive documentation on the results of cable tray fires for a range of materials, configurations and exposures. The FLASH-CAT model presented, while not really anything new, is useful to end users because the methodology is clear, and results are shown to be realistic. However, as an end user, I would really like to see more focus on providing good input in to models like FDS. The micro-calorimetry measurements appear to be a step in that direction, but have no validation, and in order to implement, would require a level of understanding beyond that of the typical FDS user. Cone calorimetry measurements are used in this report to justify an effective HRRPUA, however upon examination of the results, it is clear that magnitude of the effective HRRPUA is a strong function of an unknown variable, that is the back boundary condition. Refer to "Determination of the flammability properties of polymeric materials: A novel method" by R. Carvel, T. St!
einhaus, G. Rein, J.L. Torero.

In summary, the data collected is good. But what I would really like to see is a validated model in FDS that correctly predicts cable tray ignition, heat release rate and flame spread.

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Template = ADM-013

E-RIDS = ADM-03
Add = D. Stroup (dsw4)