

NRCREP Resource

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To: NRCREP Resource
Subject: Response from "Comment on NRC Documents"

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

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Document_Title: NUREG-1934, Nuclear Power Plant Fire Modeling Application Guide (NPP FIRE MAG)

Comments: The following are suggestions for consideration in preparing the final NUREG.

- 1) The scenarios as described in Section 2.2 do not match the approach as described in the ASME PRA standard. This section should be revised to describe scenarios in a manner that facilitates meeting CC II of the standard. For example, when a two-point model is used for Heat Release Rate, this results in two scenarios for the same source. The fire model is then used to calculate damage zone of influence and damage time for both scenarios.
- 2) Section 2.2.1 should discuss the identification of targets with consideration of the PRA Standard requirements, including the identification of PRA significant targets or target sets. If multiple target sets, this should result in multiple scenarios. Discussion on worst-case targets should also be discussed.
- 3) Top of 2-4 Says "source should be located..." for a plant, 90% of sources are fixed. These sources are analyzed as installed. The only assumed location is for transient fires. This discussion on page 2-4 should be modified to account for this.
- 4) On page 2-14, the discussion on FDS mentions the code is "computationally expensive." However, FDS also takes a lot more time to develop the model in the first place, since the number of parameters and input deck is much more extensive. Please add this to the discussion.
- 5) In section 3.1 and other sections, one of the factors listed in intervening combustibles. However, in 3.1.4, when selecting a fire model, the impact of whether intervening combustibles is not discussed. Many of the models do not handle this directly, especially if the model involves an initial ignition source, and then a growing fire size from a burning set of cable trays. Please include this discussion in 3.1.4. 3.2.4, etc.

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