

Plant: ABWR Date: March 13, 2008
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805 TF FPWG RATF RIRWG BWROG PWROG

Purpose of FAQ:

The purpose of this FAQ is to provide additional guidance on the location of Fires caused by electrical cabinets.

Is this Interpretation of guidance? Yes / No

Proposed new guidance not in NEI 04-02? Yes / No

Details:

NEI 04-02 guidance needing interpretation (include section, paragraph, and line numbers as applicable):

N/A

Circumstances requiring guidance interpretation or new guidance:

Lessons have been learned from pilot review of the Fire PRA Standard indicates conservative locations for Cabinet Fires is assumed in all cases. Conservative assumption of cabinet fires can greatly affect the results.

Detail contentious points if licensee and NRC have not reached consensus on the facts and circumstances:

None.

Potentially relevant existing FAQ numbers:

Response Section:

Proposed resolution of FAQ and the basis for the proposal:

NUREG/CR-6850, section G.3.2 provides two possible approaches to the location for a cabinet fire that is used for fire modeling. In the introduction paragraph, the method suggests opening the cabinet to determine where cable bundles are located to determine the location of the fire. In the itemized bullets, the method suggests locating the fire at the top of the cabinet.

In practical applications, the plants always start with the fire at the top of the cabinet. This assumption is applied even for cabinets that are sealed on the top (without top vents or openings).

The Fire SDP (NRC Inspection Manual, 0609, Appendix F), Page F-21, recommends assuming the location of the fire for a cabinet fire is 1 foot below the top of the cabinet.

It is recommended that the assumed fire location used for screening and detailed fire modeling for electrical cabinets sealed on the top (without top vents or openings) is 1 foot below the top of the cabinet. This is assumed as a starting point until detailed review of the cabinet contents can be performed for additional location determination, per G.3.2 of NUREG/CR-6850.

If appropriate, provide proposed rewording of guidance for inclusion in the next Revision:

Cabinet Fire Location Clarification: The assumed fire location used for screening and detailed fire modeling for electrical cabinets sealed on the top (without top vents or openings) is 1 foot below the top of the cabinet. This is a starting point for the fire modeling until detailed review of the cabinet contents can be performed for additional location determination, per G.3.2 of NUREG/CR-6850.