

FAQ Number 18-0014 FAQ Revision 0 (Draft V7)

FAQ Title The time of Detection is Zero for the start of the Manual Non-Suppression Probability (NSP) Calculations

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Purpose of FAQ:

This FAQ provides an interpretation of when to begin crediting the empirically based manual Non-Suppression Probability (NSP) curves for the case where the fire damaged equipment is indicated directly in the MCR in order to align with the data used to develop the curves.

Relevant NRC document(s):

NUREG/CR-6850
NUREG/CR-6850 Supplement 1 (FAQ 08-0050)
NUREG 2169

Details:

NRC document needing interpretation (include document number and title, section, paragraph, and line numbers as applicable):

See list of relevant NRC documents

Circumstances requiring interpretation or new guidance:

The guidance in NUREG/CR-6850 Appendix P implicitly and through example directs that the detection time be subtracted from the overall time until target damage when developing the manual non-suppression probability. Although NUREG/CR-6850 Supplement 1 (FAQ 08-0050) and NUREG 2169 remove the brigade response time from the NUREG/CR-6850 approach for crediting manual suppression, the subtraction term for the detection time remains. As a result, the risk associated with the manual non-suppression probability is artificially high in a limited case.

