

NRR-PMDAPem Resource

From: Kuntz, Robert
Sent: Tuesday, February 07, 2017 2:05 PM
To: Eckholt, Gene F.; Hazelhoff, Amy (Amy.Hazelhoff@xenuclear.com)
Subject: Prairie Island NFPA 805 LAR, PRA RAI 21.01

By letter dated September 28, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12278A405), as supplemented by letters dated November 8 and December 18, 2012; May 3 and October 17, 2013; April 30, 2014; May 28, June 19, October 6, and October 22, 2015; January 20, May 24, August 17, and December 14, 2016 (ADAMS Accession Nos. ML12314A144, ML12354A464, ML13126A115, ML13291A367, ML14125A106, ML15153A018, ML15174A139, ML15280A044, ML15296A259, ML16020A375, ML16152A046, ML16230A554, ML16350A105, respectively); Northern States Power Company, a Minnesota corporation (NSPM, the licensee), doing business as Xcel Energy, submitted a license amendment request (LAR) to transition its fire protection licensing basis at the Prairie Island Nuclear Generating Plant (PINGP), Units 1 and 2, from paragraph 50.48(b) of Title 10 of the Code of Federal Regulations (10 CFR) to 10 CFR 50.48(c), National Fire Protection Association Standard NFPA 805 (NFPA 805). Supplemental information has been requested by the NRC staff and provided NSPM.

A requests for additional information (RAI) is provided below. A response will be expected within 30 days of this e-mail.

REQUEST FOR ADDITIONAL INFORMATION

LICENSE AMENDMENT REQUEST TO ADOPT

NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 805

NORTHERN STATES POWER COMPANY – MINNESOTA (NSPM, THE LICENSEE)

PRAIRIE ISLAND NUCLEAR GENERATING PLANT (PINGP), UNITS 1 AND 2

DOCKET NOS. 50-282 AND 50-306

(CAC NOS. ME9734 AND ME9735)

PRA RAI 21.01

In its letter dated December 14, 2016 (ADAMS Accession No. ML16350A105), the licensee responded to PRA RAI 21 and referred to the use of a refinement made to Appendix H of NUREG/CR-6850, "EPRI/NRC-RES Fire PRA Methodology for Nuclear Power Facilities, Volume 2: Detailed Methodology," (ADAMS Accession No. ML052580118) to determine cable thermal response when exposed to a heated environment, also referred to as a damage accrual method. However, the method described in the submittal does not appear to account for the effect of the preheating, or damage accrued, that would occur prior to the cable being exposed to the cable damage temperatures specified in Appendix H of NUREG/CR-6850.

For the damage accrual method used:

1. Provide the technical basis and the verification and validation to justify its use to determine ignition and damage delays.
2. Discuss whether the method accounts for the effect of the preheating noted above.

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Subject: Prairie Island NFPA 805 LAR, PRA RAI 21.01
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From: Kuntz, Robert

Created By: Robert.Kuntz@nrc.gov

Recipients:

"Eckholt, Gene F." <Eugene.Eckholt@xenuclear.com>

Tracking Status: None

"Hazelhoff, Amy (Amy.Hazelhoff@xenuclear.com)" <Amy.Hazelhoff@xenuclear.com>

Tracking Status: None

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Options

Priority: Standard

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