

NRR-PMDAPEm Resource

From: Wengert, Thomas
Sent: Monday, August 13, 2012 2:06 PM
To: Adams, Glenn D.
Cc: Eckholt, Gene F.
Subject: Prairie Island Alternative Source Term License Amendment Request - Draft Request for Additional Information

By letter dated October 27, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML093160605, supplemented by letters dated April 29, 2010 (ADAMS Accession No. ML101200083), May 25, 2010 (ADAMS Accession No. ML101460064), June 23, 2010 (ADAMS Accession No. ML101760017), August 12, 2010 (ADAMS Accession No. ML102300295), December 17, 2010 (ADAMS Accession No. ML103510322), June 22, 2011 (ADAMS Accession No. ML111740145), July 11, 2011 (ADAMS Accession No. ML111930157), August 9, 2011 (ADAMS Accession No. ML112220098), December 8, 2011 (ADAMS Accession No. ML113430091), February 13, 2012 (ADAMS Accession No. ML120460484), and February 24, 2012 (ADAMS Accession No. ML12058A069), Northern States Power Company, a Minnesota corporation, requested an amendment to adopt the Alternative Source Term (AST) methodology, in addition to Technical Specification changes supported by the AST design basis accident radiological consequences analysis for the Prairie Island Nuclear Generating Plant (PINGP), Units 1 and 2.

The Nuclear Regulatory Commission (NRC) staff has reviewed this request and has determined that additional information, described below, is needed to complete its review.

Draft Request for Additional Information:

By your supplemental letter dated February 24, 2012, it is stated that the 121 Laundry Dryer Exhaust Fan would provide a release path for a Fuel Handling Accident (FHA), Heavy Load Drop (HLD), or a Main Steam Line Break (MSLB) to the Unit 2 exhaust stack. This release path was not previously recognized and was not analyzed in the current licensing basis. Also in that letter, you proposed a commitment to implement a plant modification, which will either block the subject flow path or will remove the 121 Laundry Fan exhaust path as a potential source of post-accident radioactive release. The NRC staff finds that the proposed commitment does not provide the necessary justification in order for the staff to make a reasonable assurance of safety determination. Specifically, the staff does not have enough information to assess whether the most limiting radioactive release pathway has been considered in the FHA, HLD, and MSLB radiological analyses consistent with Standard Review Plan (SRP) 15.0.1.

Provide a qualitative or quantitative analysis to justify that the radiological dose impact for the unanalyzed pathway via the Laundry Fan for the applicable accident scenarios would be bounded by the release pathway that was described in PINGP AST submittal. As an alternative, please provide a proposed license condition for the implementation of plant modifications to ensure the analyzed release pathways are consistent with the plant design.

Please let me know if you would like to have a teleconference with the NRC staff to clarify this request. In addition, let's discuss when you can provide a response to this RAI.

Tom Wengert
USNRC
Project Manager – Prairie Island NGP
NRR/DORL/LPL3-1
(301) 415-4037

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From: Wengert, Thomas

Created By: Thomas.Wengert@nrc.gov

Recipients:
"Eckholt, Gene F." <Gene.Eckholt@xenuclear.com>
Tracking Status: None
"Adams, Glenn D." <Glenn.Adams@xenuclear.com>
Tracking Status: None

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