

## NRR-PMDAPEm Resource

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**From:** Feintuch, Karl  
**Sent:** Thursday, September 12, 2013 6:08 PM  
**To:** Feintuch, Karl; Beltz, Terry  
**Subject:** Record of Conference Call Re: ME3145 Monticello MELLLA+ RAI items

===== update 2013-09-12-1805 =====

**Attendees:**

NRC: Karl Feintuch, Christopher Jackson, Tai Huang, Ashley Guzzetta,  
Representing Monticello: below

**From NSPM:** [John Fields](#), [Steve Hammer](#)

**From GE Hitachi:** [Michael Dick](#), [Curt Robert](#), [Bill Berg](#), [Lisa Schichlein](#), [Maggie Hwang](#)

**Summary:**

Items below are firm, understood and scheduled for response on 9/20/2013. On 9/13/13, Licensee intends to submit draft of response to assess adequacy of scope and depth of intended response.

===== update 2013-09-11-1030 =====

Revised RAI sent to Monticello this morning.

**From:** Feintuch, Karl

**Sent:** Wednesday, September 11, 2013 10:22 AM

**To:** 'John.Fields@xenuclear.com' ([John.Fields@xenuclear.com](mailto:John.Fields@xenuclear.com))

**Cc:** Jackson, Christopher; Carlson, Robert; Huang, Tai; Guzzetta, Ashley; Yarsky, Peter; Bajorek, Stephen; Feintuch, Karl; Beltz, Terry

**Subject:** Monticello Nuclear Generating Plant - Revised Draft Request for Additional Information Associated with NRC Staff Review of the MELLLA+ License Amendment Request (TAC No. ME3145)

**From:** Karl Feintuch for Beltz, Terry

This message revises and corrects Request For Additional Information Sent: Tuesday, September 10, 2013 2:23 PM

**To:** Fields, John S.

**Cc:** Jackson, Christopher; Carlson, Robert; Huang, Tai; Guzzetta, Ashley; Yarsky, Peter; Bajorek, Stephen; Feintuch, Karl

**Original Subject Line:** Monticello Nuclear Generating Plant - Requests for Additional Information Associated with NRC Staff Review of the MELLLA+ License Amendment Request (TAC No. ME3145)

Dear Mr. Fields:

By letter dated January 21, 2010 (Agencywide Documents Access and Management System Accession No. ML1002805580), Northern States Power Company - Minnesota (NSPM, the licensee), submitted a license amendment request (LAR) for the Monticello Nuclear Generating Plant (MNGP). The proposed LAR would allow plant operation in the expanded Maximum Extended Load Line Limit Analysis Plus (MELLLA+) domain. MNGP is currently licensed to operate in the Maximum Extended Load Line Limit Analysis (MELLLA) domain with thermal-hydraulic stability Option III.

The U.S. Nuclear Regulatory Commission (NRC) staff in the Reactor Systems Branch of the Office of Nuclear Reactor Regulation has identified areas where additional information is needed to complete its review. The requests for additional information (RAIs) are provided below.

Please provide a response to the RAIs by September 20, 2013. You may request to discuss the contents of these RAIs with the NRC staff in a conference call, including any change to the proposed response date.

Please let me know if you have any questions or concerns.

Sincerely,

Karl Feintuch, Project Manager, for  
TERRY A. BELTZ, SENIOR PROJECT MANAGER  
U.S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738  
Mail Stop: O-8D15  
Phone: (301) 415-3049  
[Terry.Beltz@nrc.gov](mailto:Terry.Beltz@nrc.gov)

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[DRAFT] REQUEST FOR ADDITIONAL INFORMATION  
RELATED TO A PROPOSED AMENDMENT TO LICENSE NO. DPR-22  
FOR USE OF MAXIMUM EXTENDED LOAD LINE LIMIT PLUS (MELLLA+)  
UNDER EXTENDED POWER UPRATE CONDITIONS  
NORTHERN STATES POWER COMPANY – MINNESOTA (NSPM)  
MONTICELLO NUCLEAR GENERATING PLANT (MNGP)  
DOCKET NO. 50-263  
TAC NO. ME3145

The Nuclear Regulatory Commission (NRC) staff has reviewed the July 31, 2013 and August 14, 2013 NSPM responses associated with the Maximum Extended Load Line Limit Analysis Plus (MELLLA+) license amendment request, and has the following questions related to RAI 5 for the MNGP MELLLA+ plant-specific application. The staff notes that credit for the TRACG04 quench model is no longer required for the MNGP MELLLA+ Anticipated Transient without Scram with Instability (ATWSI) calculation:

RAI 1 90-second Operator Action Assumption

The failure of the reactor to shut down during certain transient can lead to unacceptable reactor coolant system pressure, fuel conditions, and/or containment conditions. Provide a training schedule and tracking method to train operators on the importance of taking action within 90 seconds to mitigate an ATWS event.

RAI 2 ATWSI transient documentation

Providing an ATWSI analysis is a MELLLA+ SER requirement per NEDC-33006P-A, Rev. 3, but the ATWSI analysis of record in the Safety Analysis Report (SAR) is based on the incorrect TRACG04 quench model. Provide documentation of the updated ATWSI analysis that includes assumptions, sequence of events, plots of relevant variables, and margin to acceptance criteria. Provide a justification for the assumptions used, with special emphasis on operator action timing (including actual timing values from simulator trials) and the type of initiating transient selection (i.e., Recirculation Pump Trip (RPT) versus Turbine Trip with Bypass (TTWBP)). A SAR revision or update would be adequate.

===== update 2013-09-10-1855 =====

Added invitees Huang and Guzzetta.

===== update 2013-09-10-1716 =====

By "Optional" invitation, this is a copy for Terry's awareness. No participation is expected.

Fields says 1100-1130 ET (30 minutes is adequate). He knows to expect revised RAI, but still wishes to have discussion.

Bridge line for call-in is: **866-903-2078**; pass code **4817222#**

I will send revised RAIs to Fields when received, with Cc to you and Terry as a receipt.

===== original message =====

Call requested by John Fields, Monticello Re: MELLA+ RAI items. You are available only until 11:30 AM, but I wanted to hold room for one hour. We can meet at your office if more convenient.

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 834

**Mail Envelope Properties** (Karl.Feintuch@nrc.gov20130912180700)

**Subject:** Record of Conference Call Re: ME3145 Monticello MELLLA+ RAI items  
**Sent Date:** 9/12/2013 6:07:55 PM  
**Received Date:** 9/12/2013 6:07:00 PM  
**From:** Feintuch, Karl

**Created By:** Karl.Feintuch@nrc.gov

**Recipients:**

"Feintuch, Karl" <Karl.Feintuch@nrc.gov>  
Tracking Status: None  
"Beltz, Terry" <Terry.Beltz@nrc.gov>  
Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	6156	9/12/2013 6:07:00 PM

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**