

NRR-PMDAPEm Resource

From: Wang, Alan
Sent: Tuesday, September 30, 2014 2:23 PM
To: SCARBROUGH, RICHARD A (RSCARBR@entergy.com)
Cc: Burkhardt, Janet
Subject: Grand Gulf Nuclear Station Audit Plan Regarding Maximun Extended Load Line Limit Plus Amendment Request (TAC MF2798)
Attachments: GGNS MELLLA Plus Audit Plan - October 15-16 2014.docx

Jeff,

By letter dated September 25, 2013 (Agencywide Document Access and Management System (ADAMS) Accession No. ML13269A140), Entergy Operations Inc. (Entergy, the licensee) submitted a license amendment request (LAR) to allow Grand Gulf Nuclear Station, Unit No. 1 (GGNS) to operate in the expanded maximum extended load line limit analysis plus (MELLLA+) domain. During review of the amendment, the US Nuclear Regulatory Commission (NRC) staff identified several open items associated with the safety analyses that warrant resolution with an audit. As such the NRC staff and Entergy Operatiosn, Inc. agreed to an audit from October 15 to October 16, if needed, at GGNS, in Port Gibson, Mississippi. Attached is the NRC staff's proposed agenda for the audit. If you have any questions regarding the Audit Plan please let me know.

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From: Wang, Alan

Created By: Alan.Wang@nrc.gov

Recipients:

"Burkhardt, Janet" <Janet.Burkhardt@nrc.gov>

Tracking Status: None

"SCARBROUGH, RICHARD A (RSCARBR@entergy.com)" <RSCARBR@entergy.com>

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Options

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AUDIT PLAN RELATED TO LICENSE AMENDMENT REQUEST
FOR MAXIMUM EXTENDED LOAD LINE LIMIT ANALYSIS PLUS
ENTERGY OPERATIONS, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
DOCKET NO. 50-416

Purpose and Scope

By letter dated September 25, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13269A140), Entergy Operations, Inc. (Entergy, the licensee), submitted a license amendment request (LAR) for maximum extended load line limit analysis plus (MELLLA+). The proposed LAR would allow operation in the expanded MELLLA+ domain. During its review of the LAR, the U.S. Nuclear Regulatory Commission (NRC) staff identified several open items associated with the safety analyses that warrants resolution with an audit. The audit is required to close all the open items and to complete the staff's review of the application.

Audit Agenda

The audit will take place from October 15 to October 16 (if needed), 2014, at Port Gibson, Mississippi. The following are the planned discussion topics.

- Status of MELLLA+ upgrade
- Experiences/problems with the extended power uprate (EPU) implementation and implications for MELLLA+ implementation
- Implementation of Detect and Suppress Solution (DSS)-Confirmation Density (CD)
- Review of Supplemental Reload Licensing Report (SRLR) and Traversing Incore Probe (TIP) Report
- Simulator Exercises/Emergency Operating Procedures
- Confirmation of feasibility of manual actions
- Plant Tour (time permitting)

In addition, the NRC staff would like a brief simulator demonstration with the MELLLA+ operation and plant procedures. The demonstration would provide a better understanding on the operation of the oscillation power range monitor and a transfer to auto backup stability protection. The NRC staff would like to see an inoperability of both functions, which would lead to a manual operator action where everything fails with the reactor core stability solution.

Audit Team

The audit team will consist of:

- Ashley Guzzetta, Reactor Systems Branch Technical Reviewer, Office of Nuclear Reactor Regulation (NRR) (Team Leader)
- George Thomas, Reactor Systems Branch Technical Reviewer, NRR
- Jose March-Leuba, Consultant/Contractor, Oak Ridge National Laboratory
- Karl Sturzebecher, Instrumentation & Controls Branch Technical Reviewer, NRR
- Brian Green, PRA Operations & Human Factors Branch Reviewer, NRR
- Alan Wang, Grand Gulf Project Manager, NRR

The following support personnel are requested:

- Licensing staff from Entergy
- Cognizant staff engineers from Entergy (specifically thermal hydraulics and analysts)

Documents Requested for Staff Examination

The NRC staff requests that documentation pertaining to the MELLLA+ LAR be made available, especially the following:

1. SRLR, and
2. TIP Report for a recent cycle

Logistical Considerations

The NRC staff prefers to be able to process searches, electronically, in the design record files and retrieve documents from that system as needed during the audit. The following logistics are also requested:

- Telephone available to call NRC Headquarters if necessary
- Private space for internal NRC staff discussion separate from the licensee or GE-Hitachi Nuclear Energy Americas LLC staff
- A white board in the conference room to assist in discussion
- A projector and screen for presentations

Documentation of Audit

Within 45 days of the audit, the NRC staff will prepare a detailed audit report documenting the information reviewed during the audit, and any open items identified as a result of the audit. The NRC staff will also document its understanding of the proposed resolution of any identified open items. The audit report will be provided to the licensee in draft form for proprietary markup.