



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

January 18, 2012

Mr. Michael Perito  
Site Vice President  
Entergy Operations, Inc.  
P.O. Box 756  
Port Gibson, MS 39150

SUBJECT: PLAN FOR THE AGING MANAGEMENT PROGRAM REGULATORY AUDIT  
REGARDING THE GRAND GULF NUCLEAR STATION, UNIT 1, LICENSE  
RENEWAL APPLICATION REVIEW (TAC NO. ME7493)

Dear Mr. Perito:

By letter, dated October 28, 2011, Entergy Operations, Inc. (Entergy or the applicant) submitted an application for renewal of operating license NPF-29 for Grand Gulf Nuclear Station, Unit 1 (GGNS). The staff of the U.S. Nuclear Regulatory Commission (NRC or the staff) is reviewing this application in accordance with the guidance in NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants."

The staff plans to conduct its Aging Management Program regulatory audit at GGNS during the weeks of January 23 and January 30, 2012, in accordance with the enclosed regulatory audit plan. If you have any questions, please contact me by telephone at 301-415-1045 or by e-mail at [nathaniel.ferrer@nrc.gov](mailto:nathaniel.ferrer@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "N. Ferrer", written over a horizontal line.

Nathaniel Ferrer, Project Manager  
Reactor Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-416

Enclosure: Audit Plan

cc w/encl: Listserv



## **Audit Plan**

# **Aging Management Program Review for the Grand Gulf Nuclear Station, Unit 1 License Renewal Application**

**January 23 – February 3, 2012**

**Division of License Renewal  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission**

ENCLOSURE

## **License Renewal Aging Management Program Audit Plan Grand Gulf Nuclear Station**

### **1. Background**

By letter dated October 28, 2011, Entergy Operations, Inc. (Entergy or the applicant), submitted to the U.S. Nuclear Regulatory Commission (NRC or the staff) its application for renewal of Operating License No. NPF-29 for the Grand Gulf Nuclear Station (GGNS) Unit 1. The applicant requested renewal of the operating license for an additional 20 years beyond the 40-year current license term, which expires on November 1, 2024. The staff from the Division of License Renewal will lead a regulatory audit to gain a better understanding of applicant's Aging Management Programs, Aging Management Reviews, and associated bases and documentation as applicable.

### **2. Regulatory Audit Bases**

License renewal requirements are specified in Title 10 of the *Code of Federal Regulations* (CFR), Part 54 (10 CFR Part 54), "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." Guidance is provided in NUREG-1800, Rev. 2, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants" (SRP-LR), dated December 2010, and in NUREG-1801, Rev. 2, "Generic Aging Lessons Learned (GALL) Report," dated December 2010.

### **3. Regulatory Audit Scope**

The scope of this regulatory audit is to: (a) examine the applicant's Aging Management Programs (AMPs) for GGNS; and (b) verify the applicant's claims of consistency with the corresponding GALL Report AMPs. Enhancements to AMPs will be evaluated on a case-by-case basis. Exceptions to the GALL Report AMP elements will be evaluated separately as part of the NRC staff's review of the license renewal application (LRA), and will be documented in the staff's Safety Evaluation Report (SER).

The SRP-LR allows an applicant's LRA to reference its AMPs as being consistent with the AMPs described in the GALL Report. By referencing the GALL Report AMPs in this manner, the applicant is concluding that its AMPs correspond to those AMPs and that no further staff review should be required. If an applicant credits an AMP for being consistent with a GALL Report program, it is incumbent on the applicant to ensure that the plant program contains all of the elements of the referenced GALL Report program. The applicant's determination shall be documented and maintained in an auditable, retrievable form.

During this audit, the staff will audit program elements 1 - 6 (scope, preventive actions, parameters monitored or inspected, detection of aging effects, monitoring and trending, and acceptance criteria), and program element 10, (operating experience), of the applicant's AMPs claimed to be consistent with the GALL Report against the equivalent elements of the associated AMP described in the GALL Report, unless otherwise indicated. Program elements 7 - 9 (corrective actions, confirmation process, and administrative controls) are audited by another NRC project team during the scoping and screening methodology audit, and are evaluated separately. In addition, the staff will verify that the conditions at the plant are bounded by the conditions for which the GALL Report program was evaluated.

The staff will also examine the applicant's program bases documents and related references for these AMPs, perform selected in-plant walkdowns, and interview applicant representatives to obtain additional clarification related to the AMPs

#### 4. Information and Other Material Necessary for the Regulatory Audit

The project team will review the LRA, the AMP basis documents and other applicant supporting documents as appropriate.

The project team would like for at least one hard-copy set of AMPs, AMP basis documents, and all other relevant documentation to be available in the team's work room.

Work space and team support logistics:

- One general team work area with seating and laptop space for the audit team.
- Break-out rooms for question/answer/small group sessions and meetings, so that work in the main room will not be disrupted.
- Telephone access for in-plant and/or outside business-related calls. The break-out rooms should also have speaker phone capability for conference calls.
- Access to printers.
- Access to a copier.

#### 5. Team Assignments

Staff participation is projected as follows. Some deletions, additions or substitutions may occur on an as-needed basis:

*Week of January 23, 2012*

Area of Review	Assigned Auditor
Project Manager	Nathaniel Ferrer
Branch Chief	Bo Pham
Mechanical	Jim Gavula Bill Holston John Klos Cimberly Nickell Robert Sun John Wise Aloysius Obodoako Emma Wong Bart Fu Matt Homiack Roger Kalikian Seung Min Ching Ng On Yee Pat Purtchser
Operating Experience	Don Brittner

Week of January 30, 2012

<b>Area of Review</b>	<b>Assigned Auditor</b>
Project Manager	Nathaniel Ferrer
Branch Chief	Raj Auluck
Structural	Dan Naus (Oak Ridge National Laboratory) Abdul Sheikh Bryce Lehman Angela Buford Andrew Prinaris Ata Istar
Electrical	Cliff Douth Duc Nguyen Rui Li
Operating Experience	Don Brittner

**6. Logistics**

The audit will be conducted at GGNS during the weeks of January 23 and January 30, 2012. Entrance and exit briefings will be held at the beginning and end of this audit, respectively.

**7. Special Requests**

The staff requests the applicant to make available their condition report database for independent searches by the regulatory audit team.

**8. Deliverables**

An audit report should be issued to the applicant within 90 days from the end of the audit.

Mr. Michael Perito  
Site Vice President  
Entergy Operations, Inc.  
P.O. Box 756  
Port Gibson, MS 39150

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Sincerely,

**/RA/**

Nathaniel Ferrer, Project Manager  
Reactor Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-416

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**DISTRIBUTION:** See next page

ADAMS Accession Number: **ML12009a105**

OFFICE	PM:RPB1:DLR	LA:RPOB:DLR	BC:RPB1:DLR	PM:RPB1:DLR
NAME	NFerrer	YEdmonds	DMorey	NFerrer
DATE	01/ 18 /12	01/ 18 /12	01/ 18 /12	01/ 18 /12

OFFICIAL RECORD COPY

Letter to M. Perito from N. Ferrer dated January 18, 2012

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