



Entergy Operations, Inc.  
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**Michael A. Krupa**  
Director, Extended Power Uprate  
Grand Gulf Nuclear Station  
Tel. (601) 437-6694

GNRO-2012/00065

June 12, 2012

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

SUBJECT: Regulatory Commitment Pertaining to License Amendment Request for  
Extended Power Uprate

Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416  
License No. NPF-29

- REFERENCES:
1. Entergy Operations, Inc. letter to the NRC (GNRO-2010/00056),  
*License Amendment Request - Extended Power Uprate*,  
September 8, 2010 (ADAMS Accession No. ML102660403)
  2. NRC e-mail to Entergy Operations, Inc., June 11, 2012

Dear Sir or Madam:

In Reference 1, Entergy Operations, Inc. (Entergy) submitted to the NRC a license amendment request (LAR) for an extended power uprate (EPU) for Grand Gulf Nuclear Station, Unit 1 (GGNS). In Reference 2, the NRC transmitted to Entergy two requests for information pertaining to analysis performed for the replacement steam dryer, as follows:

- **Request for Information #1**

The licensee is requested to provide the following additional information. For the first three high-stress locations in the steam dryer (bank top cap-inner, hoods-inner, outer end plates-inner), the licensee is requested to provide: (a) the contribution to the alternating stress intensity from the HF (SRV Resonance frequencies) range and the contribution from the LF range; and (b) PSD stress-versus-frequency plots and accumulative PSD stress-versus-frequency plots for the three high-stress locations.

- **Request for Information #2**

In Attachment 1 to Entergy letter GNRO-2011-00088 dated October 10, 2011 as a response to audit Action Item #9, the licensee stated that the maximum stress intensity approach assumes that the peak stress intensity range is equal to twice the maximum stress intensity. If there is a complete reversal of the stress state against the one which the maximum stress

intensity occurs, both the maximum stress intensity approach and the alternating stress intensity approach as defined in ASME Code would yield the same alternating stress intensity. Otherwise, the maximum stress intensity approach would give a conservative approach.

The licensee is requested to quantify for the three high-stress locations of the steam dryer, the peak stress intensity value and the amplitude of the alternating stress intensity to determine whether there is a complete reversal of the stress state, and how much conservatism is present.

By this letter, Entergy commits to include the requested information with the summary report of data from the main steam line strain gages and on-dryer instrumentation as stipulated in proposed Operating License Condition 2.C.(46)(a)3. GGNS shall not increase power above 3898 MWt until the NRC Project Manager notifies GGNS the NRC accepts the requested information or NRC questions regarding the information have been addressed. If no questions are identified within 240 hours after the NRC receives the information, power ascension may continue.

If you have any questions or require additional information, please contact Guy Davant at (601) 368-5756.

I declare under penalty of perjury that the foregoing is true and correct; executed on June 12, 2012.

Sincerely,



MAK/ghd

Attachment: List of Regulatory Commitments

cc: Mr. Elmo E. Collins, Jr.  
Regional Administrator, Region IV  
U. S. Nuclear Regulatory Commission  
612 East Lamar Blvd., Suite 400  
Arlington, TX 76011-4005

State Health Officer  
Mississippi Department of Health  
P. O. Box 1700  
Jackson, MS 39215-1700

U. S. Nuclear Regulatory Commission  
ATTN: Mr. A. B. Wang, NRR/DORL (w/2)  
**ATTN: ADDRESSEE ONLY**  
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Mail Stop OWFN/8 B1  
11555 Rockville Pike  
Rockville, MD 20852-2378

NRC Senior Resident Inspector  
Grand Gulf Nuclear Station  
Port Gibson, MS 39150

**ATTACHMENT**

**GNRO-2012/00065**

**LIST OF REGULATORY COMMITMENTS**

### **LIST OF REGULATORY COMMITMENTS**

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

COMMITMENT	TYPE (Check one)		SCHEDULED COMPLETION DATE (If Required)
	ONE- TIME ACTION	CONTINUING COMPLIANCE	
Entergy will include the requested information with the summary report of data from the main steam line strain gages and on-dryer instrumentation as stipulated in proposed Operating License Condition 2.C.(46)(a)3. GGNS shall not increase power above 3898 MWt until the NRC Project Manager notifies GGNS the NRC accepts the requested information or NRC questions regarding the information have been addressed. If no questions are identified within 240 hours after the NRC receives the information, power ascension may continue.	✓		With submittal of the summary report required by proposed Operating License Condition 2.C.(46)(a)3