



Entergy Operations, Inc.
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The attachment contains PROPRIETARY information.

GNRO-2012/00097

August 19, 2012

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

SUBJECT: Summary Report of Replacement Steam Dryer Data

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

- REFERENCES:
1. NRC letter to Entergy Operations, Inc., *Grand Gulf Nuclear Station, Unit 1 – Issuance of Amendment Re: Extended Power Uprate (TAC No. ME4679)*, July 18, 2012 (ADAMS Accession No. ML121210020)
 2. Entergy Operations, Inc. letter to the NRC (GNRO-2012/00079), *Summary Report of Replacement Steam Dryer Data*, August 7, 2012

Dear Sir or Madam:

In Reference 1, the NRC issued to Entergy Operations, Inc. (Entergy) Operating License (OL) Amendment 191 for an extended power uprate (EPU) for Grand Gulf Nuclear Station, Unit 1 (GGNS). Included in Amendment 191 is new OL Condition 2.C(46), which specifies requirements applicable to replacement steam dryer testing during power ascension. Two of the requirements of new OL Condition 2.C(46)(b) are as follows:

- (b) The following requirements are placed on operation of the facility during the initial power ascension from 3898 MWt to the approved EPU level (4408 MWt):
 1. GGNS shall increase power in increments of approximately 102 MWt, hold the facility at approximately steady state conditions and collect data from available main steam line (MSL) strain gages and available on-dryer instrumentation. This data will be evaluated, including the comparison of measured dryer strains and accelerations to acceptance limits and the comparison of predicted dryer loads based on MSL strain gage data to acceptance limits. It will also be used to trend and project loads at the next test point and to EPU conditions to demonstrate margin for continued power ascension.

**When the attachment is removed from this letter, the entire letter is
NON-PROPRIETARY.**

2. Following the data collection and evaluation at the plateaus at approximately 4102 MWt, 4306 MWt, and 4408 MWt, GGNS shall provide a summary of the data and the evaluation performed in Section b.1 above to the NRC Project Manager. GGNS shall not increase power above these power levels for up to 96 hours to allow for NRC review of the information.

In accordance with OL Condition 2.C(46)(b)1, Entergy completed monitoring the main steam line (MSL) and on-dryer instrumentation at ~4000 MWt [102.5% of 3898 MWt, the previous licensed thermal power (PLTP)] and ~4102 MWt (105% PLTP). Entergy evaluated the data collected at each power plateau and determined acceptance limits were met for the measured dryer strains and accelerations and the predicted dryer loads, which are based on MSL strain gage data. This data will be used to trend and project loads at the next test points of ~4204 MWt (107.5% PLTP) and ~4306 MWt (110% PLTP) to demonstrate margin for continued power ascension.

Pursuant to OL Condition 2.C(46)(b)2, Entergy is transmitting to the NRC a summary report of the data collected and the associated evaluation performed. This report, General Electric – Hitachi Nuclear Energy (GEH) Report NEDC-33765P, Supplement 1, *Grand Gulf Nuclear Station Replacement Steam Dryer Power Ascension Monitoring – Test Point 4102 MWt*, is provided in the attachment to this letter. As documented in the report, no measured strains or accelerations exceeded Level 1 acceptance limits.

In Reference 2, Entergy committed to provide strain histograms based on rain-flow cycle counting for GGNS using data collected at 100% PLTP, and during power ascension at power plateaus corresponding to 105% PLTP, 110% PLTP, and at EPU in the associated steam dryer data summary reports. The histograms collected at 100% PLTP and 105% PLTP are included in Section 2.4 of NEDC-33765P, Supplement 1.

GEH considers information contained in NEDC-33765P, Supplement 1 to be proprietary and, therefore, exempt from public disclosure pursuant to 10 CFR 2.390. An affidavit for withholding information, executed by GEH, is provided in NEDC-33765P, Supplement 1. NEDC-33765P, Supplement 1 was provided to Entergy in a GEH transmittal that is referenced in the affidavit. Therefore, on behalf of GEH, Entergy requests the attachment be withheld from public disclosure in accordance with 10 CFR 2.390(b)(1).

In accordance with NRC Information Notice 2009-07, *Withholding of Proprietary Information from Public Disclosure*, a non-proprietary version of NEDC-33765P, Supplement 1 is not being provided since the vast majority of the information contained in the report is proprietary and a non-proprietary version would be of little or no value.

As specified in OL Condition 2.C(46)(b)2, GGNS shall not increase power above 4102 MWt for 96 hours to allow for NRC review of the information. If no questions are identified within this time period, Entergy will consider the requirements of OL Conditions 2.C(46)(b)1 and 2 for the 4102 MWt power plateau to be satisfied and may continue power ascension.

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

This letter contains no new regulatory commitments.

I declare under penalty of perjury that the foregoing is true and correct; executed on August 19, 2012.

Sincerely,



CJR/ghd

Attachment: GEH Report NEDC-33765P, Supplement 1, *Grand Gulf Nuclear Station Replacement Steam Dryer Power Ascension Monitoring – Test Point 4102 MWth* (GEH Proprietary Information)

cc: Mr. Elmo E. Collins, Jr.
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U. S. Nuclear Regulatory Commission
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NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150

ATTACHMENT

GRAND GULF NUCLEAR STATION

GNRO-2012/00097

GEH REPORT NEDC-33765P, SUPPLEMENT 1

GRAND GULF NUCLEAR STATION
REPLACEMENT STEAM DRYER POWER ASCENSION MONITORING –
TEST POINT 4102 MWth

(GEH PROPRIETARY INFORMATION)