



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 E. LAMAR BLVD  
ARLINGTON, TX 76011-4511

May 3, 2017

Mr. Eric Larson, Site Vice President  
Entergy Operations, Inc.  
Grand Gulf Nuclear Station  
P.O. Box 756  
Port Gibson, MS 39150

**SUBJECT: GRAND GULF NUCLEAR STATION – NOTIFICATION OF INSPECTION  
(NRC INSPECTION REPORT (05000416/2017003) AND REQUEST FOR  
INFORMATION**

Dear Mr. Larson:

From July 31 through August 4, 2017, inspectors from the Nuclear Regulatory Commission's (NRC) Region IV office will perform the baseline biennial requalification inspection at Grand Gulf Nuclear Station, using NRC Inspection Procedure 71111.11B, "Licensed Operator Requalification Program." Experience has shown that this inspection is a resource intensive inspection both for the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. These documents have been divided into three groups. The first group (Section A of the enclosure) identifies information to be provided prior to the inspection to ensure that the inspectors are adequately prepared. The second group (Section B of the enclosure) identifies the information the inspectors will need upon arrival at the site. The third group (Section C of this enclosure) identifies the items which are necessary to close out the inspection and are usually sent a few weeks after the team has left the site. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation and/or the on-site portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Mrs. Sherri Sweet of your licensing organization. Our inspection dates are subject to change based on your updated schedule of examination activities. If there are any questions about this inspection or the material requested, please contact the lead inspector Mahdi Hayes at (817) 200-1508 ([Mahdi.Hayes@nrc.gov](mailto:Mahdi.Hayes@nrc.gov)).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0018. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the

requesting document displays a currently valid Office of Management and Budget control number.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

*/RA/*

Vincent G. Gaddy, Chief  
Operations Branch  
Division of Reactor Safety

Docket No. 50-416  
License No. NPF-29

Enclosure:  
Biennial Requalification Inspection  
Document Request

cc w/encl:  
Electronic Distribution for  
Grand Gulf Nuclear Station

## BIENNIAL REQUALIFICATION INSPECTION DOCUMENT REQUEST

From: Mahdi Hayes  
Operations Engineer, NRC RIV  
(817) 200-1508

To: Rickey Liddell  
Superintendent, Training, Grand Gulf Nuclear Station  
(601) 437-2376

Subj: Information Request to Support July 31 through August 4, 2017, Licensed Operator  
Requalification Program Inspection (IP 71111.11B)

**A. The following information is requested in order to support inspection preparation activities. These items are listed by section as they appear in the inspection module (i.e., 2.02, 2.04, etc.). Requested materials should be sent either electronically or CD/DVD (do not send USB drives) in order to arrive at the Region IV office no later than June 28, 2017.**

- Electronically: To: [Mahdi.Hayes@nrc.gov](mailto:Mahdi.Hayes@nrc.gov)  
cc: [Thomas.Farina@nrc.gov](mailto:Thomas.Farina@nrc.gov)  
[Chris.Steely@nrc.gov](mailto:Chris.Steely@nrc.gov)
- CD/DVD to: U.S. Nuclear Regulatory Commission, Region IV  
1600 E. Lamar Blvd  
Arlington, TX 76011  
ATTN: Mahdi Hayes

### **General Requests:**

- List of licensed operators (SRO and RO) by crew (operating and staff)
- Training and Operations Department organization charts (with qualified LOR evaluators identified)
- Procedures that identify process for revising and maintaining LO continuing training program up to date
- List of outstanding LOR program changes
- List of plant events and industry operating experience incorporated into LOR program since last BRQ
- Audits and/or self-assessment reports addressing the licensed operator requalification training program
- Last two years of simulator review committee (or equivalent) meeting minutes
- Last two years of CRC (or equivalent) meeting minutes

### 02.03: Biennial Requalification Written Examination Quality

- The current and approved biennial written examination schedule
- The current requalification cycle written examination results for both SRO and RO that have already been administered up to the week prior to the inspection team arrival on-site

Enclosure

- **All** written examinations that have been approved for administration up to and including the week before the inspection team is on-site. This will need to have adequate password protection if e-mailed or double envelope protection if mailed via regular mail per NUREG-1021.
- The current requalification cycle examination methodology (sample plan)

02.04: Annual Requalification Operating Test Quality

- The schedule for the operating tests (JPMs and scenarios) to be given the week of July 31, 2017
- The operating tests (JPMs and scenarios) (password protected and provide separately via telephone at later date) to be given the week of July 31, 2017
- Current requalification cycle operating tests (SRO and RO) and results up to the week prior to the inspection team arrival on-site (**N/A if the inspection week is the first week of testing**)
- **All** of the previous year's NRC required annual operating tests
- Current requalification cycle operating test methodology (sample plan)
- All portions of the UFSAR that identify operator response times for time critical operator actions

02.05: Licensee Admin of Requalification Exams

- All procedures used to administer the annual operating test
- All procedures used to assess operator performance
- All procedures that describe conduct of simulator training
- All Procedures used to test, operate, and maintain the simulator

02.06: Requalification Examination Security

- Submit any tracking tools that you use as a means to prevent excessive overlap on the written examinations and also meet the intent of sampling all required topics on a periodic basis
- Submit any tracking tools that you use as a means to prevent excessive overlap on the operating tests and also meet the intent of sampling all required malfunctions (including major events, instrument/component malfunctions, TS calls, etc.) on a periodic basis
- All Procedures that describe examination security, including procedures used to develop the examinations that include guidelines on overlap between examinations in current exam cycle tests and prior year examinations
- List of all condition reports since the last biennial requalification inspection related to examination security and overlap

02.07: Licensee Remedial Training Program

- List of remedial training conducted or planned since last requalification exams (includes training provided to operators to enable passing requalification exams and training provided to correct generic or individual weaknesses observed during previous requalification exam cycle)
- Remediation plans (lesson plans, reference materials, and attendance documentation)

02.08: Conformance with Operator License Conditions

- All Procedures and Program documentation for maintaining active operator licenses, tracking training attendance, and ensuring medical fitness of licensed operators
- All Procedures and associated documentation that supports reactivation of any SRO/RO license (operating or staff crew) since the last biennial inspection

02.09: Simulator Performance

- For the following cases, send the most recent transient test packages, which may be electronic or in paper single test packages and shall be complete with test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with a write-up for any differences beyond the ANSI 3.5 standard requirements.
  - Transient test 4, Simultaneous loss of all recirculation pumps
  - Transient test 8, Maximum RCS rupture with loss of all offsite power
  - Transient test 10, MSIV closure with stuck open SRV
  - Steady State tests for low power
- All Simulator Management and Configuration Procedures if not already provided for section 02.05 above
- Simulator Discrepancy Report **summary** list for all open DRs. For closed DRs, **summary** list for those items closed between August 2015 to August 2017
- Malfunction Tests for loss of condenser vacuum and reactor pressure control system failure. If these are included in an SBT package then the review of that package would be acceptable
- Two examples of primary parameters tested in order to verify core physics parameters. The applicable reference graphs from the Plant physics data book (electronic or other means as available) should also be included as well as the test procedures used and the acceptance criteria with results.
- All simulator modification packages that are on hold, delayed, or just not completed in the last two years
- A list of simulator modification packages completed in the last two year window

02.10: Problem Identification and Resolution

- A summary report of all condition reports related to operator actions/errors in the control room
- Any revised requalification training that was based on licensed operator performance issues

**B. The following information is requested in order to support the on-site inspection activities. Requested materials should be available to the inspection team, either electronically or hardcopy, upon site arrival on July 31, 2017.**

02.02: Exam Results / 02.03 and 02.04: Written Exam and Op Test Quality

- All Operating tests (JPMs and scenarios) to be given in all subsequent weeks after on-site week
- All results up to the day the team leaves the site

02.08: Conformance with Operator License Conditions

- Access to licensed operators' records (operating and staff crews)
- Access to licensed operators' training attendance records
- Access to licensed operators' medical records

02.09: Simulator Performance

- Simulator discrepancies (DRs) from August 2015 through August 2017. This should include all open DRs and DRs that have been closed, including the documentation/justification for closure.
- Acceptance test documentation, including hardware and software model revisions at the time of acceptance (as available)
- Documentation that validates current models, including the thermal-hydraulics and neutronics models, to the actual plant
- All current model deficiencies, including FSAR vs Design differences in the simulator (any documentation on this)
- Summary list of modifications from August 2015 through August 2017
- Plant Modifications (both hardware and software) completed on the Simulator by due date from August 2015 through August 2017
- Simulator Differences Lesson plan used in training (current to July 31, 2017)
- The complete book of all Simulator annual performance test packages (usually in a single book, but may be electronic or in single test packages), complete with all transient tests, steady state tests, and malfunction tests. This should also include the test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with a write-up for any differences beyond the ANSI standard requirements.
- All test packages used to verify core physics parameters. The applicable reference graphs from the Plant physics data book (electronic or other means as available) should also be included as well as the test procedures used and the acceptance criteria with results.
- All simulator test, configuration management, and related documents available in the room for inspectors to review. This includes training needs analysis packages, simulator review committee meeting minutes, etc.
- Current copy of ANSI 3.5 standard you are committed to for Simulator testing

02.10: Problem Identification and Resolution

- All condition reports related to operator actions/errors in the control room

**C. Grand Gulf is required to send the final results summary and any remaining exams and operating tests that have not been reviewed to the regional office lead inspector for this inspection for final review and comparison against the Significance Determination Tools in order to communicate the exit results for the inspection.**

GRAND GULF NUCLEAR STATION – NOTIFICATION OF INSPECTION (NRC INSPECTION REPORT (05000416/2017003) AND REQUEST FOR INFORMATION – May 3, 2017

**DISTRIBUTION:**

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ADAMS ACCESSION NUMBER: ML17123A101

SUNSI Review      ADAMS:       Non-Publicly Available       Non-Sensitive      Keyword:  
 By: VGGaddy       Yes     No       Publicly Available       Sensitive      NRC-002

OFFICE	OE:OB	C:OE				
NAME	MHayes	VGaddy				
SIGNATURE	/RA/	/RA/				
DATE	5/2/17	5/3/17				

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