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

May 28, 2015

Mr. Kevin Mulligan
Site Vice President Operations
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 05000416/2015003) AND REQUEST FOR INFORMATION

Dear Mr. Mulligan:

From August 10 through August 14, 2015, inspectors from the Nuclear Regulatory Commission's (NRC) Region IV office will perform the baseline biennial requalification inspection at the 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 onsite 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 onsite 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 Mr. Gabe Kimich of your examination development 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), Theresa Buchanan at (817) 200-1503 (Theresa.Buchanan@nrc.gov), or Clyde Osterholtz at (817) 200-1269 (Clyde.Osterholtz@nrc.gov).

This letter does not contain new or amended information collection requirements subject to 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 "Agency Rules of Practice and Procedure," 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/

Vince 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

This letter does not contain new or amended information collection requirements subject to 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 "Agency Rules of Practice and Procedure," 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/

Vince 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

Distribution:
See next page

ADAMS ACCESSION NUMBER: ML15149A500

☒ SUNSI Review By: VGG		ADAMS ☒ Yes ☐ No	☒ Publicly Available ☐ Non-Publicly Available		☒ Non-Sensitive ☐ Sensitive		Keyword: RGN-002
OFFICE	OE:OB	C:OB					
NAME	MHayes	VGaddy					
SIGNATURE	/RA/	/RA/					
DATE	5/28/15	5/28/15					

OFFICIAL RECORD COPY

Letter to Kevin Mulligan from Vincent G. Gaddy, dated May 28, 2015

SUBJECT: GRAND GULF NUCLEAR STATION – NOTIFICATION OF INSPECTION (NRC INSPECTION REPORT 05000416/2015003) AND REQUEST FOR INFORMATION

Electronic Distribution by RIV:
Regional Administrator (Marc.Dapas@nrc.gov)
Deputy Regional Administrator (Kriss.Kennedy@nrc.gov)
DRP Director (Troy.Pruett@nrc.gov)
DRP Deputy Director (Ryan.Lantz@nrc.gov)
DRS Director (Anton.Vegel@nrc.gov)
DRS Deputy Director (Jeff.Clark@nrc.gov)
Senior Resident Inspector (Mark.Schweig@nrc.gov)
Resident Inspector (Neil.Day@nrc.gov)
Administrative Assistant (Alley.Farrell@nrc.gov)
Branch Chief, DRP/C (Greg.Warnick@nrc.gov)
Senior Project Engineer, DRP/C (Ray.Azua@nrc.gov)
Project Engineer, DRP/C (Paul.Nizov@nrc.gov)
Project Engineer, DRP/C (Michael.Stafford@nrc.gov)
Public Affairs Officer (Victor.Dricks@nrc.gov)
Public Affairs Officer (Lara.Uselding@nrc.gov)
Project Manager (Rebecca.Richardson@nrc.gov)
Team Leader, DRS/TSS (Don.Allen@nrc.gov)
RITS Coordinator (Marisa.Herrera@nrc.gov)
ACES (R4Enforcement.Resource@nrc.gov)
Regional Counsel (Karla.Fuller@nrc.gov)
Technical Support Assistant (Loretta.Williams@nrc.gov)
Congressional Affairs Officer (Jenny.Weil@nrc.gov)
RIV Congressional Affairs Officer (Angel.Moreno@nrc.gov)
RIV/ETA: OEDO (Michael.Waters@nrc.gov)

BIENNIAL REQUALIFICATION INSPECTION DOCUMENT REQUEST

TO: Gabe Kimich
Lead Examination Developer, Grand Gulf Nuclear Station

FROM: Mahdi Hayes
Operations Engineer, NRC RIV
817-200-1508

SUBJECT: INFORMATION REQUEST TO SUPPORT AUGUST 10-14, 2015, 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 hardcopy in order to arrive at the Region IV office no later than July 20, 2015.

- Electronically: To: Mahdi.Hayes@nrc.gov
  cc: Theresa.Buchanan@nrc.gov, Clyde.Osterholtz@nrc.gov

- Hardcopy to: U.S. Nuclear Regulatory Commission, Region IV
  1600 E. Lamar Blvd
  Arlington, TX 76011
  ATTN: Mahdi Hayes

General Requests:

- List of licensed operators (senior reactor operator (SRO) and reactor operator (RO)) by crew (operating and staff)
- Training and operations department organization charts (with qualified licensed operator requalification evaluators identified)
- Procedures that identify process for revising and maintaining licensed operator continuing training program up to date
- List of outstanding licensed operator requalification program changes
- List of plant events and industry operating experience incorporated into the licensed operator requalification program since last biennial requalification inspection
- 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

Enclosure

- 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 onsite
- **All** written examinations that have been approved for administration up to and including the week before the inspection team is onsite (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 (job performance measures (JPMs) and scenarios) to be given the week of August 10, 2015
- The operating tests (JPMs and scenarios) (password protected and provide separately via telephone at later date) to be given the week of August 10, 2015
- Current requalification cycle operating tests (SRO and RO) and results up to the week prior to the inspection team arrival onsite
- **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

- 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
- 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, technical support 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 examination 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 examination 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 2, Trip of all feedwater pumps
  - Transient test 3, Closure of all main steam isolation valves
  - Transient test 5, Single recirculation pump trip
  - Steady State tests for medium 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 2013 to August 2015)
- Malfunction tests for loss of condenser vacuum (item 5), failure of reactor pressure control (item 18), and nuclear instrumentation failures (item 21) (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 (such as MTC, IRW) (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 for the selected samples.)
- All simulator modification packages that are on hold, delayed, or 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 onsite inspection activities. Requested materials should be available to the inspection team, either electronically or hardcopy, upon site arrival on May 18, 2015.

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 onsite 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 2013 to August 2015 (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 2013 to August 2015
- Plant Modifications (both hardware and software) completed on the Simulator by due date from August 2013 to August 2015
- Simulator Differences Lesson plan used in training (current to August 10, 2015)
- 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 (such as MTC, IRW) (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. Diablo Canyon Nuclear Power Plant 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.