



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200  
ATLANTA, GEORGIA 30303-1200

April 3, 2020

Mr. Charles Kharrl  
Site Vice President  
Southern Nuclear Operating Co., Inc.  
7388 North State Highway 95  
Columbia, AL 36319

SUBJECT: JOSEPH M. FARLEY NUCLEAR POWER PLANT UNITS 1 AND 2 – PLANT  
REFERENCE SIMULATOR INSPECTION REQUEST FOR INFORMATION

Dear Mr. Kharrl:

In April and May 2020, the U.S. Nuclear Regulatory Commission (NRC) will perform an inspection of the Joseph M. Farley Nuclear Power Plant with the onsite inspection tentatively planned for May 26 through 27. The newly installed simulator is built on a slightly different platform and has a slightly different I/O system than the existing platform. Therefore, the inspection will verify whether or not the newly installed plant referenced simulator is designed and implemented so that it is enough in scope and fidelity to be suitable for conduct of the evolutions listed in 10 CFR 55.45(a)(1) through (13), and 55.59(c)(3)(i)(A) through (AA) using NRC Inspection Procedure (IP) 41502, Nuclear Power Plant Simulation Facilities.

This inspection is resource-intensive for both the NRC inspectors and your staff. 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. It is important that all these documents are up-to-date, and complete, 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. We understand that our regulatory contact for this inspection will be Michael Galle (334-661-2691; [mkgalle@southernco.com](mailto:mkgalle@southernco.com)) of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, David Lanyi at 404- 997-4487 ([david.lanyi@nrc.gov](mailto:david.lanyi@nrc.gov)), or the Chief, Operations Branch 2, Eugene Guthrie at 404-997-4662 ([Eugene.Guthie@nrc.gov](mailto:Eugene.Guthie@nrc.gov)).

C. Kharrl

This letter and its enclosure will be made available for public inspection and copying at <https://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, and Requests for Withholding."

Sincerely,

**/RA/**

Eugene F. Guthrie, Chief  
Operations Branch 2  
Division of Reactor Safety

Docket Nos.: 05000348 / 05000364  
License No.: NPF-2 / NPF-8

Enclosure:  
Document Request List

cc: Distribution via Listserv

SUBJECT: JOSEPH M. FARLEY NUCLEAR POWER PLANT UNITS 1 AND 2 – PLANT  
REFERENCE SIMULATOR INSPECTION REQUEST FOR INFORMATION dated April  
4, 2020

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OFFICE	RII: DRS/OB2	RII: DRS/OB2				
SIGNATURE	E. Guthrie	D.Lanyi				
DATE	4/3/2020	4/3/2020				

## **Document Request List**

Inspection Dates: May 26-27, 2020

Inspection Procedure (IP): 41502, Nuclear Power Plant Simulation Facilities

**Note:** This is a list of the documents to be provided to the inspectors. The current version of these documents is expected unless specified otherwise. The documentation will be requested in two batches. The first batch will consist of all Plant Simulator Program Procedures and a list of all completed simulator tests, a list of all open and closed simulator Deficiency Reports, and a listing of all applicable simulator related Training Needs Assessments or Evaluations. The second batch of information will be a smart sample chosen by the inspectors from the list provided in the first batch.

The preferred file format is Word or searchable “.pdf” files on CDROM or CERTREC. *[Note that the inspectors cannot accept data provided on USB or “flash” drives due to NRC IT security policies*

It is not the intent that large or burdensome data be scanned for this. This data will be inspected using original documentation. Material can be provided prior to the inspection via Southern Company’s ftp site.

### **Initial Document Request (Due April 13, 2020)**

- All procedures associated with testing and maintaining the Plant Reference Simulator
- A list of all completed simulator tests
- A list of all simulator open and closed Deficiency Reports
- A list of all simulator Training Needs Assessments

### **Follow-up Document Request (Due May 1, 2020 or as agreed upon after the first batch)**

- One Steady State Test
- One power ascension test from Cold Shutdown to Rated Power
- Two transient tests
- Five malfunction tests (at least 3 should relate to nuclear and/or thermal-hydraulic operating characteristics and two should relate to extensive logic/interlock performance)
- Up to five Scenario Based Tests (if any have been completed)
- One Reactor Core performance test including predicted model’s performance
- Complete Deficiency Reports for items of interest

### **Lead Inspector Contact Information:**

David.Lanyi  
404-997-4487  
[David.Lanyi@nrc.gov](mailto:David.Lanyi@nrc.gov)

Enclosure