



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

February 10, 2012

Mr. T. A. Lynch
Vice President
Southern Nuclear Operating Company, Inc.
Joseph M. Farley Nuclear Plant
Farley Nuclear Plant
P.O. Drawer 470
BIN B500
Ashford, AL 36312

**SUBJECT: FARLEY NUCLEAR POWER PLANT - NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION**

Dear Mr. Lynch:

On April 2-6, 2012, and April 16-20, 2012, the NRC will perform a baseline Radiation Safety Inspection at Farley Nuclear Plant, Units 1 and 2, (NRC Inspection Procedures 71124.01, 71124.02, 71124.03, 71124.04, 71124.05, and the Radiation Safety Sections of 71151). Experience has shown that this inspection is resource intensive 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 activity. The NRC requests that these documents be provided to the inspectors no later than March 14, 2012.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be William Oldfield of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector Carmen Dykes, at (404) 997-4401, or the Plant Support Branch 1 Chief, Brian Bonser, at (404) 997-4653.

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/ R. Nease for B. Bonser

Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket No.: 50-348, 50-364
License No.: NPF-2, NPF-8

Enclosure:
Document Request List

cc w/encl.: (See page 3)

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cc w/encl.: (See page 3)

Distribution w/encl:

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OE Mail (email address if applicable)
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ADAMS: X Yes

ACCESSION NUMBER: ML12041A433

X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

OFFICE	RII: PSB1	RII: PSB1			
SIGNATURE	RA	RA/RN For BB			
NAME	C. DYKES	B. BONSER			
DATE	02/10/2012	02/10/2012	2/ /2012	2/ /2012	2/ /2012
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRS\I\PSB1\INFORMATION REQUEST LETTERS\FARLEY\FAR_020212
DOC REQU REV1.DOCX

cc w/encl:

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(cc w/encl. continued on page 4)

cc w/encl (continued)

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Document Request List

SITE: Farley Nuclear Plant (FNP) Report Number: 05000348, 364/2012002

INSPECTION DATES: April 2-6, 2012, and April 16-20, 2012

NRC INSPECTORS: Carmen Dykes, Carmen.Dykes@nrc.gov (404) 997-4401
George B. Kuzo, George.Kuzo@nrc.gov (404) 997-4658
Adam Nielsen, Adam.Nielsen@nrc.gov (404) 997-4660

Inspection Procedures:	IP 71124.01	Radiological Hazard Assessment and Exposure Controls
	IP 71124.02	Occupational ALARA Planning and Controls
	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation
	IP 71124.04	Occupational Dose Assessment
	IP 71124.05	Radiation Monitoring Instrumentation
	IP 71151	Performance Indicator Verification

Note: The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available (The preferred file format is Word, WordPerfect, or searchable “.pdf” files on CDROM). *Note that the inspectors cannot accept data provided on USB or “flash” drives due to NRC IT security policies.* Please organize the information as it is arranged below to the extent possible. Experience has shown that a poorly organized CD leads to a less efficient inspection and places additional burden on licensee staff. Please provide 3 copies of the CD submitted. If there are questions regarding the documents requested, please do not hesitate to contact the lead inspector.

General Information Request

1. List of contacts, including site phone numbers, responsible for areas associated with each Inspection procedure listed above.
2. Electronic copy of relevant UFSAR chapters (e.g. site description, radwaste program, and radiation protection).
3. Corrective Action Program procedures including procedure for issuing CRs and assessing issues for significance and action.
4. Procedures for gathering and reporting NRC Performance Indicator data.
5. Copies of the CY 2010 and CY 2011 ARERR documents.
6. Current version/revision of the Offsite Dose Calculation Manual (ODCM)].
7. Outage schedule of major activities (Gantt chart if available).

71124.01 - Radiological Hazard Assessment and Exposure Controls

1. List of active RWPs.
2. Have available and accessible surveys and maps of all Locked HRAs and areas with the potential to become a LHRA during routine operations or outages.

Enclosure

3. List of the 10 most exposure significant outage area/activity in radiation areas, i.e. high radiation areas (<1R/hr), or airborne radioactivity areas in the plant. This may include areas with low dose rates but high collective dose. Identify any potential high radiation areas with significant dose gradients (factor of five or more), including underwater diving activities.
4. Latest surveys of ISFSI areas.
5. Procedures related to HP controls (e.g. Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, alpha monitoring, etc.).
6. Procedures related to release of personnel and materials (e.g. release surveys, decontamination, guidance for alarm follow-up, etc.).
7. List of Nationally Tracked Sources and any change-of-ownership transactions.
8. List of all non-fuel items stored in spent fuel pool.
9. All self-assessments and audits covering HP controls since November 2011.
10. LIST of CRs related to HP controls written since November 2011. *This should be a list of corrective action documents containing a CR number and brief description, not full CRs.*
11. All CRs related to Nationally Tracked Sources since November 2011.

71124.02 - Occupational ALARA Planning and Controls

1. All procedures associated with maintaining occupational exposures ALARA. Include procedural guidance for processes used to estimate and track exposures from specific work activities, method(s) of adjusting exposure estimates or re-planning work when unexpected changes in scope or emergent work are encountered, and performance of post-job reviews.
2. Documentation of plant collective exposure history, current exposure trends, and ongoing or planned outage activities that present exposure challenges
3. List of work activities ranked by actual or estimated exposure that (1) are in progress and (2) were completed during the previous outage. The inspectors will select activities from the list for review the ALARA work activity evaluations, exposure estimates, and exposure mitigation requirements.
4. Historical trends and current status of significant tracked plant source changes, plant fuel performance issues, or changes in plant primary chemistry.
5. Completed ALARA packages (including post-job reviews) for the five (5) work activities that were completed during the last outage which had the greatest collective dose and/or presented significant radiological risk.
6. List of five (5) activities (including ALARA package number) from the previous outage in which the work scope changed or was extended and alternative ALARA measures were taken to respond to the emergent conditions.
7. Audits and self-assessments performed of the ALARA program, including the previous outage's ALARA reviews/summaries.
8. List of CAP condition reports generated since September 2010, related to ALARA planning and controls.

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

1. Site and corporate procedures associated with airborne radioactivity control and mitigation. Procedures should include guidance for the following:
 - a. Maintenance, inspection, and use of respiratory protection equipment including self-contained breathing apparatus (SCBA).
 - b. Use of installed plant systems including containment purge, spent fuel pool ventilation, and auxiliary building ventilation.
 - c. Use of temporary ventilation systems (e.g. HEPA/charcoal NPUs, tents, etc.)

2. A list of recent activities in which respiratory protection equipment was used (planned outage activities should also be included in the list).
3. Air testing data (i.e. Grade D certification) for supplied-air devices and SCBA bottles since September 2010.
4. SCBA qualification records:
 - a. Vendor training certificates for all individuals qualified to repair SCBA.
 - b. List of all licensed operators qualified to use SCBA.
 - c. List of all maintenance personnel qualified to use SCBA.
 - d. List of all HP personnel qualified to use SCBA.
5. A list of CRs generated since September 2010 related to (1) the control and mitigation of in-plant airborne radioactivity and (2) respiratory protection.

71124.04 - Occupational Dose Assessment

1. Procedures/Guidance Documents for:
 - a. External dose monitoring, i.e., dosimetry issuance and use. The documents should include guidance for: multi-badging; monitoring in steep/highly variable dose rate gradients; personnel contamination events; storage/care of personal dosimeters; use of electronic dosimeters including evaluation of any biases identified relative to TLD monitoring.
 - b. Internal dose assessment, i.e., both in vivo and in vitro bioassay and air sampling capabilities. The documents should include guidance for calibration/QC and use of whole body counter (WBC); release of contaminated individuals, use of passive monitoring as screening method for evaluations, and special in vitro sample collection and analysis, and actions for declared pregnant workers.
2. NVLAP accreditation documentation for current dosimetry used by site.
3. A list of all positive whole body count (WBC), in vitro, or air sampling analyses which resulted in an assigned CEDE equal to or exceeding 10 millirem since September 2010. *[Note: only a listing should be provided for use by the inspectors to select a sample of issues for in-depth review during the onsite inspection]*
4. A list of all personnel contamination events, dispersed contamination/discrete particles identified since September 2010. *[Note: only a listing should be provided for use by the inspectors to select a sample of issues for in- depth review during the onsite inspection]*
5. A list of declare pregnant workers. *[Note: do not provide this data – the documents will be reviewed on-site, only have the data readily available during the onsite inspection]*
6. Most recent audits, self-assessments, and/or reviews related to internal or external dosimetry issues and the most recent audit of the lab that processes site dosimetry. The documents provided should to include any reviews/evaluations conducted of vendor facilities, e.g., corporate or outside vendor/or corporate calibration facilities.
7. A list of CR documents generated since September 2010, for Internal or external dosimetry issues/events. *[Note: only titles/summary statement should be provide for use by the inspectors to select a sample of issues for in-depth review]*

71124.05 - Radiation Monitoring and Instrumentation

1. Procedures/Guidance Documents for:
 - a. Use of portable instrument calibrators.
 - b. Calibration and functional test/source checks of portable radiation detection instrumentation.
 - c. Calibration and functional tests of small article monitor (SAM), personnel contamination monitor (PCM), portal monitor (PM), and whole body counting (WBC) equipment; for area radiation monitor (ARM) and continuous air monitor (CAM) equipment.
 - d. Determination of set-points for ARM, CAM, PCM, PM and SAM equipment used for area and personnel monitoring equipment, as applicable.
 - e. Collection and analysis of high-range, post accident iodine and effluent samples.
 - f. QA program for count room instruments.
2. A list of in-service SAM, PCM, PM, and WBC equipment *[Note: the list will be used to select 3 to 5 monitors for evaluation of their calibration/functional check surveillances during the onsite inspection. In addition, portable radiation detection instrumentation will be selected at random to evaluate adequacy of calibrations.]*
3. A list of Out of Service (OOS) [>24hrs] Effluent Monitors and Length of Inoperability since September 2010.
4. Radiation monitoring system Health System Reports from Dec 2010, and Dec 2011.
5. The previous two sets of calibration data for the following monitors:
 - a. Steam Generator Blow Down (R-23 A&B).
 - b. Unit 1 Plant vent stack effluent monitors, high range (R-29 B).
 - c. Unit 2 Plant vent stack (R-14).
 - d. Unit 1 Containment high range (R-27).
6. Certificates for the sources used to calibrate the above requested monitors showing traceability to a national standard (NIST), as applicable.
7. Copies of all audits, self-assessments, and/or reviews of area and personnel monitoring equipment and portable radiation survey instruments generated since September 2010. The records should include any reviews conducted of vendor facilities, e.g., outside calibration laboratories.
8. Provide a list of Condition Report (CR) documents generated since September 2010, for:
 - a. Gaseous and liquid effluent monitoring activities.
 - b. ARM and/or CAM operability issues.
 - c. Effluent monitoring equipment or monitoring activities.
 - d. The release of licensed material outside of the radiologically controlled area (RCA).

[Note: only titles/summary statement should be provide for use by the inspectors to select a sample of issues for in-depth review]

71151 Performance Indicator Verification (occupational and public cornerstones)

1. Procedure/Guidance for gathering and reporting PI data.
2. A list of all CRs related to effluent dose/ODCM issues since September 2011. *This should be a list of corrective action documents containing an identification number and brief description.*
3. A list of all CRs related to TS HRA/VHRA issues since September 2011.
4. Most recent gaseous and liquid effluent release permits.
5. Electronic dosimeter alarm logs since September 2011.
6. Monthly/Quarterly Occupation and Public Radiation Safety PI reports since September 2011.