



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

July 10, 2009

Mr. J. Randy Johnson
Vice President - Farley
Southern Nuclear Operating Company, Inc.
7388 North State Highway 95
Columbia, AL 36319

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

Dear Mr. Johnson:

During the period of August 10-14, 2009, the NRC will conduct baseline radiation safety inspection activities at the Farley Nuclear Plant. The inspection will focus on the Public Radiation Safety Inspection cornerstone using NRC Inspection Procedures (IPs) 71121.03, 71122.01, 71122.03; and will include the Occupational and Public Cornerstone Radiation Safety sections of IP 711551. In addition, the NRC will inspect the facility's implementation of the Industry Groundwater Protection Voluntary Initiative using Temporary Instruction (TI) 2515/173 (Revision 1), during the week of August 17, 2009.

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 conduct a productive inspection, we have enclosed a request for documents needed for this inspection. 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 on-site contact for this inspection will be Mr. Howard Mayhan of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, George B. Kuzo at (404) 562-4658.

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

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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/

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

Docket Nos. 50-348, and 50-364
License Nos. NPF-2 and NPF-8

Enclosure: Public Radiation Protection Inspection Document Request

(cc: w/encl – See Page 3)

cc: w/encl
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Letter to J. Randy Johnson from Brian Bonser dated July 10, 2009

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

Distribution w/encl:

RIDSNRRDIRS

PUBLIC

RidsNrrPMFarley Resource

**PUBLIC RADIATION PROTECTION INSPECTION
DOCUMENT REQUEST**

SITE: Farley Nuclear Plant (FNP) Report Number: 05000348, 364/2009004

INSPECTION DATES: August 10-14, 2009

NRC INSPECTORS: George B. Kuzo, George.Kuzo@NRC.GOV (404) 562-4658
Heather Gepford, Heather.Gepford@NRC.GOV (404) 562-4672
Adam Nielsen, Adam.Nielsen@NRC.GOV (404) 562-4660

PRELIMINARY LICENSEE CONTACTS: Curtis Peters, RPM (334) 814-4785), ext 4601 for Portable Instruments/SCBA; Tony Livingston Chemistry Manager (ext 4619) for Effluents/ Process Monitors and REMP; and R. Bayne for onsite Licensing/ Compliance

Inspection Procedures:	IP 71121.03	Radiation Monitoring Instrumentation and Protective Equipment,
	IP 71122.01	Radioactive Gases and Liquid Effluent Treatment & Monitoring Systems
	IP 71122.03	Radiological Environmental Monitoring Program
	IP 71151	Performance Indicator Verification for Occupational and Public Radiation Safety Cornerstones

Note: This is a broad list of the documents the lead NRC inspector will be interested in reviewing and obtaining during the pre-inspection visit. 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 electronic media, e.g. CD-ROM or thumb drive devices. Please provide 3 copies of each electronic device that is submitted.) Information in the “document lists” should contain enough information to be easily understood by someone who has knowledge of the subject. During the inspection, the inspectors may request additional documents.

**RADIATION PROTECTION INSTRUMENTATION AND PROTECTIVE EQUIPMENT
[71121.03]**

- IF PASS capabilities have been modified through license amendment, provide copy of amendment and applicable SER
- Provide Procedures/Guidance for:
 - operation, calibration, maintenance of ARM, CAM, Portal Monitor (PM), Personnel Contamination Monitor (PCM), Small Article Monitor (SAM), and Whole Body Counter (WBC) equipment,
 - issuance/operation of portable survey instruments
 - calibration and maintenance of portable instruments (ion chamber, GM, rem-ball etc) performed on site
 - identify any portable radiation detection instruments sent to vendor facilities for calibration
 - actions taken when portable instrument found to be significantly out of tolerance/calibration
 - issuance and use of respiratory protective equipment (SCBA and Air Supplied equipment)

Enclosure

- training for use of SCBA and supplied-air systems
- SCBA maintenance activities
- determination/verification of Grade D air for SCBA
- Provide the two most recent calibration records for the following ARM/CAM equipment:
 - Unit 2 (U2) R-27 (A&B) – Containment High Radiation Monitors
 - U2 - Containment ARM
 - U1 R-7 - Incore Instrument Area
 - R-35B - Control Room Makeup Air Inlet Gas Monitor
 - R-5 – Spent Fuel Building ARM
- Provide radiation monitoring equipment system Health Reports since January 1, 2007
- Provide most current DAW 10 CFR Part 61 analytical results
- Provide Records/Documentation for:
 - data for certification of air quality for equipment used to fill SCBA or supply air-line respiratory equipment: provide data from January 1, 2007 to present
 - current WBC equipment calibration
- CAP documents including
 - listing of CR documents issued/documented since January 1, 2007, for:
 - portable instrumentation, SAM, PCM, PM, and WBC monitoring equipment
 - respiratory protection equipment and program implementation
 - audit and self assessments conducted/issued since January 1, 2007, for:
 - portable instruments, SAM, PCE, PM, and WBC monitoring equipment
 - respiratory protection equipment and program implementation

During on-site inspection:

- Records - will need rapid access to the following:
 - calibration records for portable instruments staged for/in use
 - calibration records for PCM, PM, SAM equipment
 - training records for individuals approved to use and/or to perform maintenance on SCBA equipment
 - qualification records for respirator use (training, fit test, medical)

RADIOLOGICAL EFFLUENT MONITORING [71122.01]

Prior to the Onsite Inspection

- Provide Copy of Current ODCM
- Annual Effluent Monitoring Reports for Calendar Year (CY) 2006, CY 2007 and CY 2008
- Provide Procedures/Guidance and calibration data for the two most recent calibration of the following effluent monitors:
 - U2 R-14, Plant Vent Gas
 - U2 R-13, Waste Gas Processing Monitor
 - Unit 1 R-15, Condenser Air Ejector Gas Monitor
 - U2 R-18, Waste Processing Liquid Monitor
 - U1 R-20 A&B, Service Water Liquid Monitors

- Provide Procedures/Guidance/Documentation for:
 - HP/Chem/OP procedures for liquid and gaseous effluent releases/permits
- Provide Records for:
 - Effluent monitoring system Health Reports since January 1, 2007
 - modifications/design changes made since January 1, 2007, to any effluent monitoring/sampling systems; or to plant ventilation systems
 - the two most recent calibrations of the effluent monitors listed above, including flow meter calibrations
 - list of time periods for which main liquid/gaseous effluent monitors were out-of-service (OOS) and the duration since January 1, 2007. *Note: exclude monitors OOS less than 24 hours*
 - interlaboratory comparison program results since January 1, 2007
 - most recent continuous gas and/or liquid release permits and most recent batch liquid and gas permits (4 permits total)
 - two most recent surveillances of the air cleanup system for the routine main plant airborne effluent release pathway including flow rate determination, HEPA and Charcoal efficiency data
- Provide summary of spill, leak, unexpected liquid discharge data documented in the sites 10 CFR 50.75(g) files. *Note: Only provide summary, 50.75(g) file details can be reviewed during onsite inspection*
- CAP documents including
 - listing of CRs issued since January 1, 2007, for:
 - effluent monitoring/processing and equipment
 - air cleanup systems
 - onsite System Structure and Component liquid leaks or H-3 in ground and/or surface runoff water samples
 - audits and self assessments conducted/issued since January 1, 2007, for:
 - effluent monitoring activities and equipment
 - air cleanup systems
 - groundwater monitoring/contamination

During on-site inspection:

- Records - will need timely access to the following:
 - calibration of count room gamma spectroscopy and liquid scintillation counting instrumentation used for effluents: *Note: data samples to be selected during onsite inspection*
 - count room instrument/effluent monitoring QA activities: *Note: data samples to be selected during onsite inspection*

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) [71122.03]

Prior to the Onsite Inspection

- Provide Procedures/Guidance for :
 - collection and analysis of environmental samples
 - calibration and maintenance of REMP air & water samplers
 - calibration of meteorological monitoring instrument loops (wind speed & direction, air temperature sensors currently in use)
 - meteorological instrumentation surveillance requirements (control room & tower locations)
 - RCA control/release point radiation survey instrumentation surveillance requirements
 - unrestricted release of materials from the RCA control points

- Records for two most recent:
 - calibrations of REMP air and water samplers (if applicable)
 - meteorological monitoring instrument calibrations (wind speed & direction, air temperature)
 - detailed inter-laboratory comparison program results since January 1, 2007

- CAP documents including:
 - list of CRs issued/documented since January 1, 2007, for:
 - environmental monitoring program
 - meteorological monitoring program
 - unrestricted release of material from RCA locations
 - abnormal/missed REMP samples for CY 2007, CY 2008, and YDT 2009
 - audit and self assessments conducted/issued since January 1, 2007, for:
 - environmental monitoring
 - meteorological monitoring
 - unrestricted release of material from RCA locations
 - Records of any investigations done for material found offsite since January 1, 2007

- Annual Radiological Environmental Monitoring Reports for CY 2006, CY 2007, and CY 2008

PERFORMANCE INDICATOR VERIFICATION [71151]

- Procedure/Guidance for collection and reporting of PI data.

- Records:
 - CRs related to occupational and public radiation safety PI occurrences issued since October 1, 2008
 - Monthly/Quarterly Occupation and Public Radiation Safety PI reports since October 1, 2009
 - List of Out of Service (OOS) Effluent Monitors and Length of Inoperability since January 1, 2007. [Note these data are part of the data requested under Inspection Procedure 7112202 Above and do not have to be duplicated]

GENERAL INFORMATION NEEDED

- Organization Charts and Contact Phone Numbers for:
 - Radiation Protection
 - Chemistry
 - Operations
 - Maintenance and I&C

- Procedure for issuing CRs and assessing issues for significance and action.
- Updated Final Safety Analysis Report Chapters 11 (Effluents/Radwaste) and 12 Radiation Protection

REVIEW OF THE IMPLEMENTATION OF THE INDUSTRY GROUNDWATER PROTECTION VOLUNTARY INITIATIVE [TI 2515/173 Rev.1]

- Procedure/Guidance for groundwater monitoring program including:
 - Sample collection and frequency
 - NEI GPI compliance including communication protocols
 - Processes for remediation (as applicable)
 - Record keeping
 - QA
- All 30-day reports, special reports, or voluntary/informal communication reports since August 2008
- ODCM
- Current maps showing locations of all groundwater monitoring wells
- Latest site hydrology/geology report
- Any revisions to FSAR or ODCM made as a result of the groundwater monitoring program
- List of Structures, Systems, and Components (SSCs) ranked according to risk for release of contaminated liquid
- Current 50.75(g) decommissioning file

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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/

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

Docket Nos. 50-348, 50-364, and 72-42
License Nos. NPF-2 and NPF-8

Enclosure: Public Radiation Protection Inspection Document Request

(cc cont'd - See page 3)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	WLo0/RA/for	WLo0/RA/					
NAME	KUZO	BONSER					
DATE	7/ /2009	7/ /2009	7/ /2009	7/ /2009	7/ /2009	7/ /2009	7/ /2009
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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