



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

August 31, 2006

Florida Power and Light Company  
ATTN: Mr. J. A. Stall, Senior Vice President  
Nuclear and Chief Nuclear Officer  
P. O. Box 14000  
Juno Beach, FL 33408-0420

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

Dear Mr. Stall:

During the period of October 30 - November 3, 2006, the NRC will conduct baseline radiation safety inspection activities at the St Lucie Nuclear Station. 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 Radiation Safety sections of IPs 711551. The inspectors also will complete the annual review of radiation protection activities associated with access controls to radiologically significant areas as outlined in IP 71121.01.

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. The lead inspector has scheduled a three day pre-inspection visit with your staff for the October 10 - 12, 2006 period. The requested material will be reviewed and collected at that time.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Mr. Don. Cecchett 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

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/*

Robert Haag, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Dockets Nos. 50-335, 389,  
License Nos. DPR-67 and NPF-16

Enclosure: Public Radiation Protection Inspection Document Request

cc w/encl:  
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Vice President, Nuclear Operations  
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Terry L. Patterson  
Licensing Manager  
St. Lucie Nuclear Plant  
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PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE

ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_

OFFICE	RII:DRS	RII:DRP	RII:DRS				
SIGNATURE							
NAME	KUZO	DESAI	HAAG				
DATE	9/ /2006	9/ /2006	9/ /2006	9/ /2006	9/ /2006	9/ /2006	9/ /2006
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

**PUBLIC RADIATION PROTECTION INSPECTION  
DOCUMENT REQUEST**

**SITE:** Plant St. Lucie Nuclear Station (PSL) Rpt. 05000335,389/2006005

**PRE-INSPECTION VISIT:** October 10-12, 2006

**INSPECTION DATES:** October 30 - November 3, 2006,

**NRC INSPECTORS:** George B. Kuzo, [GBK1@NRC.GOV](mailto:GBK1@NRC.GOV) (404) 562-4658  
Adam Nielsen, [ADN@NRC.GOV](mailto:ADN@NRC.GOV) (404) 562-4660  
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Heather Gepford, [HJG1@NRC.GOV](mailto:HJG1@NRC.GOV) (404) 562-4659

**IDENTIFIED LICENSEE CONTACTS:** Radiation Controls - Stan Wisla, RPM (772 467-7301);  
Portable Instruments/SCBA - Barry Robinson (7269); Effluents/ Process Monitors - Locke  
(7049); REMP - Pete Bailey (561 694-4179); and Licensing/Compliance - Don Cecchett (7155)

Inspection Procedures:	IP 71121.01	Access Control To Radiologically Significant Areas
	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 CD-ROM. Please provide 3 copies of each CDROM that is submitted.) Information in the “document lists” should contain enough information to be easily understood by someone who has a knowledge of the subject. The lead inspector will discuss specific information needs with the licensee staff and may request additional documents.

**ACCESS CONTROLS TO RADIOLOGICALLY SIGNIFICANT AREAS [71121.01]**

- Provide List/Maps of:
  - current Radiation Area (RA) High Radiation Area (HRA), Locked- HRA (LHRA), Very -HRA (VHRA), and airborne radioactivity area locations. Note: only provide general area maps of elevations identifying rooms with HRA/LHRA/VHRA conditions. Detailed maps of specific rooms/areas are not needed
- Provide Procedure/Guidance documents for:
  - administrative and physical access controls including posting, labeling, survey frequency,

Enclosure

dosimetry, multi-badging, LHRA key control, control of divers, controls for non-fuel highly activated materials stored in Spent Fuel Pool (SPF), direct alarming dosimetry (DAD) use, Radiation Work Permit (RWP) development

- Provide Corrective Action Program (CAP) documents including:
  - listing of Condition Reports (CRs) issued/documented since October 2005 for radiation protection program activities including access control/personnel contamination events, and intakes
  - Audit and self assessments conducted/issued since October 2005 for radiation protection program activities
- Provide list of scheduled work in HRAs, LHRAs, VHRAs, airborne radioactivity areas tentatively scheduled for the week of onsite inspection (10/30 - 11/03/2006)
- Identify list of infrequently performed tasks or tasks potentially involving LHRA/VHRA condition completed since October 2005\_
- Provide the Following Records/Evaluations
  - List 10 maximum personnel exposures for Calendar Years (CY) 2005 and Year-to-Date (YTD) 2006
  - List of internal dose assessments (with assigned dose) for intakes since October 2005
  - List of Personnel Contamination Assessments conducted since October 2005 - general list, not details

## **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)
  - 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 1 Spent Fuel Pool Monitor 'A', (RD-26-7)
  - Control Room Outside Air Intake (CROAI) Monitor
  - Unit 2 Containment High Radiation Monitor (RD-26-40)
  - Unit 2 CIAS 'A' (RD-26-03)
  - U1 Containment Atmosphere Particulate Iodine Noble Gas Monitor
- 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 bottles

- current WBC equipment calibration
- CAP documents including
  - listing of CR documents issued/documentated since July 2004 for:
    - portable instrumentation, SAM, PCM, PM, and WBC monitoring equipment
    - respiratory protection equipment and program implementation
  - audit and self assessments conducted/issued since July 2004 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) 2003, & CY 2004
- Provide Procedures/Guidance for:
  - procedures and data (including flow meter calcs) for the two most recent calibrations of the following effluent monitors:
    - U1 Plant Vent SPING
    - Liquid Radioactive Waste Discharge Monitor (common to both units)
    - U2 Gaseous Waste Discharge Monitor
    - U1 S/G Blowdown Monitor
    - Flow Calibration Instrumentation Calibration for U1& U2 Plant Vent
  - HP/Chem/OP procedures for liquid and gaseous effluent releases/permits
- Provide Procedures/Guidance/Documentation for :
  - onsite/offsite surface/groundwater monitoring activities
  - action plan developed for groundwater protection initiative
  - documenting events associated with spills, leaks, or unexpected liquid discharge or other unusual occurrence
- Provide Records for:
  - modifications/design changes made since January 2004 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 July 2004. Note: exclude monitors OOS less than 24 hours
  - interlaboratory comparison program results since July 2005

- 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 site's 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 July 2004 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 July 2004 for:
    - effluent monitoring activities and equipment
    - air cleanup systems
    - groundwater monitoring/contamination

#### **During on-site inspection:**

- Records - will need rapid access to the following:
  - calibration of count room gamma spectroscopy and liquid scintillation counting instrumentation used for effluents: *Note: data sample to be selected during onsite inspection*
  - count room instrument/effluent monitoring QA activities: *Note: data sample 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 July 2004
- CAP documents including:

- list of CRs issued/documentated since July 2004 for:
  - environmental monitoring
  - meteorological monitoring
  - unrestricted release of material from RCA locations
  - abnormal/missed REMP samples since CYs 2004 and 2005, and YDT 2006
- audit and self assessments conducted/issued since July 2004 for:
  - environmental monitoring
  - meteorological monitoring
  - unrestricted release of material from RCA locations
- Records of any investigations done for material found offsite since July 2004
- Annual Radiological Environmental Monitoring Reports for CYs 2004 and 2005

### **PI VERIFICATION [71151]**

- Procedure/Guidance for collection and reporting of PI data.
- Records:
  - CRs related to occupational and public radiation safety PI occurrences issued since July 2005
  - Monthly PI reports since July 2005
  - DAD Alarm Logs Since July 2005
  - List of Out of Service (OOS) Effluent Monitors and Length of Inoperability since July 2005.

### **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 risk significance.
- Updated Final Safety Analysis Report Chapters 11 (Effluents/Radwaste) and 12 Radiation Protection