



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

September 11, 2012

Mr. Mano Nazar
Executive Vice President and Chief Nuclear Officer
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

**SUBJECT: ST. LUCIE NUCLEAR PLANT - NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION**

Dear Mr. Nazar:

During the period of October 15 - 19, 2012, the NRC will conduct baseline radiation safety inspection activities at your Plant St. Lucie site. The inspection will focus on the Public Radiation Safety Inspection cornerstone using NRC Inspection Procedure Number (IP) 71124.06 and IP 71124.07. In addition, the inspection will also review the public and occupational radiation safety performance indicators using IP 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 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 requested that the subject informational material be made available to the NRC staff by October 5, 2012, to allow preparation for the upcoming 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. D. Cecchetti 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) 997-4658.

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).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget under control numbers

M. Nazar

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3150-0044, 3150-0014, 3150-0011, and 3150-0008. 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.

Sincerely,

/RA/

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

Docket No. 50-335, 50-389
License No. DPR-67 and NPF-16

Enclosure:
Occupational Radiation Protection
Inspection Document Request

cc w/encl: (See page 3)

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cc w/encl: (See page 3)

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SIGNATURE	RA/GK	RA/WP	RA/BB				
NAME	GKuzo	WPursley	BBonser				
DATE	09/11/2012	09/11/2012	09/11/2012				
E-MAIL COPY?	YES NO	YES NO	RII:DRS	YES NO	YES NO	YES NO	YES NO

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cc w/encl:

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**OCCUPATIONAL RADIATION SAFETY CORNERSTONE INSPECTION
INFORMATION REQUEST**

SITE: ST. LUCIE NUCLEAR PLANT 05000335, 389/2012005

PRE-INSPECTION VISIT: Not Applicable

INSPECTION DATES: October 15 - 19, 2012

NRC INSPECTORS: George B. Kuzo, george.kuzo@nrc.gov
William Pursley, william.pursley@nrc.gov

ACCOMPANYING PERSONNEL:

IDENTIFIED LICENSEE CONTACTS: Radiation Controls - Christopher Martin, RPM/Brent Robinson (772 467-7501/7308); Effluent Processing, Groundwater Protection Initiative, Meteorological Monitoring Systems – Chip Bach 772 467-7436; Ventilation Systems - Wendall Moore (772 465-7289); REMP - Joe Danek [FP&L Corporate], 561-694-4213; Performance Indicator Verification – Occupational Cornerstone -Christopher Martin/ Brent Robinson (772 467-7501/7308); Public Cornerstone - Al Locke (772 465-3550, X7049); Licensing/Compliance - Don Cecchett (772 465-7155);

Inspection Procedures:	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment
	IP 71124.07	Radiological Environmental Monitoring Program
	IP 71151	Performance Indicator Verification [Occupational and Public Radiation Safety Cornerstones]

Note: This is a broad list of the documents the NRC inspectors will be interested in obtaining and reviewing prior to the on-site 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 or searchable “pdf” files on CDROM. Please provide two copies of each electronic media device 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 can answer questions regarding questions on specific information needs with licensee staff and may request additional documents.

GENERAL INFORMATION NEEDED:

- Organization Charts and Contact Phone Numbers for:
 - Radiation Protection
 - Chemistry
- Procedure for issuing Condition Report (CR) documents and assessing issues for risk significance and follow-up actions.
- Updated Final Safety Analysis Report Chapters 11, Effluents/Radwaste; and Chapter 12 Radiation Protection.

Enclosure

- Current version/revision of the Offsite Dose Calculation Manual (ODCM).
- Annual Radiological Environmental Operating Report (AREOR) for Calendar Year (CY) 2010, and CY 2011.
- Annual Radiological Effluent Release Report (ARERR) documents for CY 2010, and CY 2011.
- Current Part 61 Analysis Results for Dry Active Waste (DAW).

Radioactive Gaseous and Liquid Treatment [IP 71124.06]

- Site and/or corporate procedures associated with implementing the effluents and the groundwater monitoring program. Procedures should include those that address:
 - Effluent sampling
 - Effluent monitor set-point determinations
 - Dose calculations
 - Groundwater monitoring and reporting of spills/leaks
 - Methodology for determining effluent stack/vent flow rates
- ARERRs for CYs 2010, and 2011. [Note: provided as part of the General Information Request and do not need to be duplicated].
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since January 2010. If applicable, provide the LER, event report, and/or special report.
- List of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed.
- List of any changes to the effluent release points or effluent treatment systems and associated 50.59 documentation.
- Material condition surveillance records for effluent system components not readily accessible, including those inaccessible due to radiological conditions.
- Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases. Only provide permits for each category in September 2012.
- Results of inter-laboratory comparison program for count lab for CY 2010, to CY 2012 YTD.
- The last two surveillance results for the Control Room Emergency Cleanup System (CRECS) 2HVE-13B, and Emergency Core Cooling System (ECCS) ventilation system 2HVE-9A (e.g. tests demonstrating system flow, HEPA, and charcoal filter tests).
- Groundwater monitoring results since July 1, 2010.
- List of changes to written ground water monitoring program for identifying/controlling contaminated spills/leaks since July 1, 2010.
- List of onsite surface water bodies (e.g. ponds, retention basins, lakes) that contain or potentially contain radioactivity.
- List of CAP condition report (CR) and audit documents generated since July 1, 2010, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.

Radiological Environmental Monitoring Program [IP 71124.07]

- Site and corporate procedures associated with radiological environmental monitoring, including:
 - Collection, preparation, and analysis of environmental samples including air samples, TLD stations, ground and surface water, sediment, vegetation, milk, fish,

- etc.
 - Calibration and maintenance of air/water sampling equipment.
 - Calibration and QC activities for sample counting instruments.
 - Sampling and monitoring program to detect leaks from contaminated or potentially contaminated systems, structures, or components.
 - Meteorological instrument calibration, operation, and routine surveillances.
- AREOR CYs 2010, and 2011 [Note: provided as part of the General Information Request and do not need to be duplicated].
 - List of structures, systems, or components that contain or could contain licensed material for which there is a credible mechanism for the radioactive material to reach ground water.
 - Summary of leaks and/or spills since July 1, 2010, i.e. additions to the 50.75(g) file.
 - Calibration and maintenance records for REMP air and composite water samplers since July 1, 2010.
 - Inter-laboratory comparison program results for the past two years (in-house or vendor laboratory).
 - Last two calibration /surveillance/maintenance records for the meteorological monitoring instruments since July 1, 2010.
 - List of CAP CR and audit documents generated since July 2010, related to environmental monitoring activities.

Performance Indicator (PI) Verification [IP 71151]

- Monthly PI reports since January 2011, and copies of associated condition reports for any RETS/ODCM Radiological Effluent occurrences.
- Liquid and gaseous effluent release permit data which specify the last quarterly (October – December 2011) annual CY 2011, curies released by isotope and associated public dose assessments, and the CY 2012, third quarter 2012, curies released by isotope and associated public dose assessments.
- List of all corrective action documents since January 2011, using keywords such as: HRA, LHRA, VHRA, unintended dose, unlocked door, etc.
- List of all electronic dosimeter (ED) dose rate alarms and all ED dose alarms since January 2011.