



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

September 1, 2010

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – TURKEY  
POINT NUCLEAR PLANT**

Dear Mr. Nazar:

On August 11, 2010, the NRC staff completed its performance review of the Turkey Point Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for Turkey Point Unit 3 for the most recent quarter of the assessment period was within the Regulatory Response Column of the NRC's Action Matrix, based on one White Initiating Events finding issued in the fourth quarter of 2009. The White finding addressed a condition of degraded neutron absorber material in the spent fuel pool storage racks. On February 19, 2010, the staff issued a Confirmatory Action Letter (CAL) to confirm your commitments to address the degraded condition, and on June 21, 2010, the staff also issued a Severity Level III Notice of Violation in accordance with the NRC's Enforcement Policy. Your staff has informed us of your readiness for the NRC to conduct a supplemental inspection and review your corrective actions for this issue. Therefore, we plan to conduct a supplemental inspection using Inspection Procedures 95001, Inspection For One Or Two White Inputs In A Strategic Performance Area, and 92702, Follow-up on Corrective Actions for Violations and Deviations, beginning November 29, 2010.

Plant performance for Turkey Point Unit 4 for the assessment period was within the Licensee Response Column of the NRC's Action Matrix based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of cycle review. We also plan on conducting several infrequently performed inspections which include: Initial Reactor Operating License Examinations; Temporary Instruction (TI) 2515/177, Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray Systems; and TI-2515/179, Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in the National Source Tracking System; and Independent Spent Fuel Storage Installation (ISFSI) inspection.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Daniel Rich at (404) 997-4721 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA by Joel Munday Acting For/***

Leonard D. Wert, Director  
Division of Reactor Projects

Docket Nos.: 50-250, 50-251  
License Nos.: DPR-31, DPR-41

Enclosure: Turkey Point Nuclear Plant Inspection/Activity Plan (09/01/10 - 12/31/11)

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**Turkey Point**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>OL EXAM - INITIAL EXAM PREP WEEK 1</b>		<b>5</b>
3	09/27/2010	10/01/2010	V23312	TURKEY POINT/OCTOBER 2010 EXAM AT POWER FACILITIES	
			<b>PSB1-RP - RP ACCESS CONTROLS</b>		<b>2</b>
3,4	09/27/2010	10/01/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3,4	09/27/2010	10/01/2010	IP 71151	Performance Indicator Verification	
			<b>PSB1-TI - TI-179 NSTS VERIFICATION</b>		<b>2</b>
3,4	09/27/2010	10/01/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			<b>OL EXAM - INITIAL EXAM PREP WEEK 2</b>		<b>4</b>
3	10/04/2010	10/07/2010	V23312	TURKEY POINT/OCTOBER 2010 EXAM AT POWER FACILITIES	
			<b>EB3ISI - UNIT 3 INSERVICE INSPECTION</b>		<b>1</b>
3	10/04/2010	10/08/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3SGISI - UNIT 3 SG INSERVICE INSPECTION</b>		<b>1</b>
3	10/11/2010	10/15/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL EXAM WEEK 1</b>		<b>8</b>
3	10/25/2010	10/29/2010	V23312	TURKEY POINT/OCTOBER 2010 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM WEEK 3</b>		<b>5</b>
3	11/15/2010	11/19/2010	V23312	TURKEY POINT/OCTOBER 2010 EXAM AT POWER FACILITIES	
			<b>DRP/BR3 - 95001 SUPPLEMENTAL INSPECTION</b>		<b>3</b>
3	11/29/2010	12/02/2010	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area	
			<b>DRP/NR3 - 92702 FOLLOWUP CORRECTIVE ACTIONS</b>		<b>2</b>
3	11/29/2010	12/02/2010	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			<b>TI-177 - TI-177 GAS INTRUSION</b>		<b>3</b>
3,4	01/10/2011	01/14/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			<b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>		<b>3</b>
3,4	02/07/2011	02/11/2011	IP 7111401	Exercise Evaluation	
3,4	02/07/2011	02/11/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3,4	02/07/2011	02/11/2011	IP 71151	Performance Indicator Verification	
			<b>EB3 ISI - UNIT 4 IN-SERVICE INSPECTION</b>		<b>1</b>
4	03/28/2011	04/01/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3SGISI - UNIT 4 SG INSERVICE INSPECTION</b>		<b>1</b>
4	04/04/2011	04/08/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 1</b>		<b>4</b>
3,4	04/11/2011	04/15/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3,4	04/11/2011	04/15/2011	IP 71124.02	Occupational ALARA Planning and Controls	
3,4	04/11/2011	04/15/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure

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**09/01/2010 - 12/31/2011**

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	Start	End			
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 1</b>		<b>4</b>
3,4	04/11/2011	04/15/2011	IP 71124.04	Occupational Dose Assessment	
3,4	04/11/2011	04/15/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
3,4	04/11/2011	04/15/2011	IP 71151	Performance Indicator Verification	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 2</b>		<b>3</b>
3,4	04/18/2011	04/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3,4	04/18/2011	04/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
3,4	04/18/2011	04/18/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
3,4	04/18/2011	04/18/2011	IP 71124.04	Occupational Dose Assessment	
3,4	04/18/2011	04/18/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
3,4	04/18/2011	04/18/2011	IP 71151	Performance Indicator Verification	
			<b>ISFSI - ISFSI DRY RUN</b>		<b>5</b>
3,4	05/16/2011	05/20/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>9</b>
3,4	06/27/2011	07/01/2011	IP 7111121	Component Design Bases Inspection	
3,4	07/11/2011	07/14/2011	IP 7111121	Component Design Bases Inspection	
3,4	07/25/2011	07/29/2011	IP 7111121	Component Design Bases Inspection	
3,4	08/08/2011	08/12/2011	IP 7111121	Component Design Bases Inspection	
			<b>ISFSI - ISFSI FIRST CAMPAIGN</b>		<b>2</b>
3,4	07/18/2011	07/22/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
3	10/31/2011	11/04/2011	V23364	TURKEY POINT / DECEMBER 2011 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>3</b>
3	12/05/2011	12/09/2011	V23364	TURKEY POINT / DECEMBER 2011 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>3</b>
3	12/12/2011	12/16/2011	V23364	TURKEY POINT / DECEMBER 2011 EXAM AT POWER FACILITIES	

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