



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

August 30, 2004

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

Dear Mr. Stall:

On August 3, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Turkey Point Nuclear Plant. The mid-cycle review for Turkey Point involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)", will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter 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). In our 2003 mid cycle assessment letter dated August 27, 2003, we advised you of a substantive cross-cutting issue in the area of problem identification and resolution (PI&R), specifically concerning incomplete or inadequate problem evaluation and corrective action. In our end of cycle assessment letter dated March 3, 2004, we noted that you had initiated some actions and had additional actions planned, to address this issue. Although some improvement was noted, we felt your corrective actions had not been in place long enough to assess their effectiveness. Since that time we have conducted additional inspections in the area of PI&R, with particular emphasis on this issue. Our inspections have not identified any additional examples in the completeness or adequacy of your problem identification or corrective actions. Sufficient improvement has been made in resolving this issue and we therefore consider this substantive cross cutting issue to be closed. As a result, we plan to conduct only baseline inspections at your facility through March 31, 2006. However, we also plan on conducting several inspections which are not part of the routine baseline inspection program regarding the reactor pressure vessel head and reactor head replacement activities, including post-reactor head replacement containment welds and concrete repairs. In addition, we plan to conduct an inspection of your response to NRC Bulletin 2004-01: Inspection of Alloy

82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

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 me at (404) 562-4560 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Joel T. Munday, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

Docket No(s). 50-250, 50-251  
License No(s). DPR-31, DPR-41

Enclosure: Turkey Point Inspection/Activity Plan

cc w/encl:  
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cc w/encl: Continued see page 3

cc w/encl: Continued  
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**Turkey Point**  
**Inspection / Activity Plan**  
**09/01/2004 - 03/31/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>2515/153 - TI 2515/153 RPV CONTAINMT SUMP BLOCKAGE</b>		<b>1</b>			
3	IP 2515/153	Reactor Containment Sump Blockage (NRC Bulletin 2003-01)		09/01/2004	11/03/2004	Safety Issues
	<b>PIR F/U - PI&amp;R FOLLOWUP</b>		<b>2</b>			
3,4	IP 71152	Identification and Resolution of Problems		09/13/2004	09/17/2004	Baseline Inspections
	<b>EB2 ISI - U3 INSERVICE INSPECTION</b>		<b>1</b>			
3	IP 7111108P	Inservice Inspection Activities - PWR		10/04/2004	10/08/2004	Baseline Inspections
	<b>PS-RP - RP BASELINE &amp; HEAD REPLACEMENT</b>		<b>2</b>			
3,4	IP 71007	Reactor Vessel Head Replacement Inspection		10/04/2004	10/08/2004	Other Routine
3,4	IP 7112101	Access Control to Radiologically Significant Areas		10/04/2004	10/08/2004	Baseline Inspections
3,4	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/04/2004	10/08/2004	Baseline Inspections
	<b>EB2-BMI - U-3 2515/152: RPV BOTTOM MOUNTED INST</b>		<b>2</b>			
3	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		10/11/2004	10/14/2004	Safety Issues
	<b>EB2 RPV - U3 REACTOR HEAD REPLACEMENT</b>		<b>2</b>			
3	IP 71007	Reactor Vessel Head Replacement Inspection		10/12/2004	10/15/2004	Other Routine
	<b>EB2 RPV - U3 CONTAINMENT WELDING REPAIR</b>		<b>2</b>			
3	IP 71007	Reactor Vessel Head Replacement Inspection		10/18/2004	10/22/2004	Other Routine
	<b>EB2SGISI - U3 STEAM GENERATOR INSERVICE INSPECTION</b>		<b>2</b>			
3	IP 7111108P	Inservice Inspection Activities - PWR		10/18/2004	10/22/2004	Baseline Inspections
	<b>EB2 RPV - U3 CONCRETE REPAIR</b>		<b>2</b>			
3	IP 71007	Reactor Vessel Head Replacement Inspection		11/01/2004	11/05/2004	Other Routine
	<b>EB2-MODS - MODIFICATIONS/10CFR50.59</b>		<b>4</b>			
3,4	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/10/2005	01/14/2005	Baseline Inspections
3,4	IP 7111117B	Permanent Plant Modifications		01/10/2005	01/14/2005	Baseline Inspections
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>3</b>			
3	V23236	TURKEY POINT/EXAM AT POWER FACILITIES		02/07/2005	02/11/2005	Not Applicable
	<b>OL EP - EMERGENCY EXERCISE</b>		<b>2</b>			
3,4	IP 7111401	Exercise Evaluation		02/14/2005	02/18/2005	Baseline Inspections
3,4	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/14/2005	02/18/2005	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		02/14/2005	02/18/2005	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM</b>		<b>4</b>			
3	V23236	TURKEY POINT/EXAM AT POWER FACILITIES		02/21/2005	03/04/2005	Not Applicable
	<b>EB2 HEAD - REACTOR HEAD REPLACEMENT</b>		<b>1</b>			
4	IP 71007	Reactor Vessel Head Replacement Inspection		04/18/2005	04/20/2005	Other Routine
	<b>EB2-ISI - INSERVICE INSPECTION-U4</b>		<b>2</b>			
4	IP 7111108P	Inservice Inspection Activities - PWR		04/18/2005	04/22/2005	Baseline Inspections

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

ENCLOSURE

**Turkey Point**  
**Inspection / Activity Plan**  
**09/01/2004 - 03/31/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
<b>PS-RP - RADIATION PROTECTION</b>			<b>3</b>			
3,4	IP 71007	Reactor Vessel Head Replacement Inspection		04/18/2005	04/22/2005	Other Routine
3,4	IP 7112101	Access Control to Radiologically Significant Areas		04/18/2005	04/22/2005	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		04/18/2005	04/22/2005	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		04/18/2005	04/22/2005	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		04/18/2005	04/22/2005	Baseline Inspections
<b>PS-RP - RP OCCUPATIONAL BASELINE - WEEK 1</b>			<b>2</b>			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		04/25/2005	04/29/2005	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		04/25/2005	04/29/2005	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		04/25/2005	04/29/2005	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		04/25/2005	04/29/2005	Baseline Inspections
<b>EB2SGISI - STEAM GENERATOR ISI</b>			<b>1</b>			
4	IP 7111108P	Inservice Inspection Activities - PWR		05/09/2005	05/13/2005	Baseline Inspections
<b>PS-RP - RADIATION PROTECTION</b>			<b>2</b>			
3,4	IP 71007	Reactor Vessel Head Replacement Inspection		05/16/2005	05/20/2005	Other Routine
3,4	IP 7112101	Access Control to Radiologically Significant Areas		05/16/2005	05/20/2005	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		05/16/2005	05/20/2005	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		05/16/2005	05/20/2005	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		05/16/2005	05/20/2005	Baseline Inspections
<b>EB2 HEAD - CONTAINMENT WELDING REPAIR</b>			<b>2</b>			
4	IP 71007	Reactor Vessel Head Replacement Inspection		05/23/2005	05/27/2005	Other Routine
<b>PS-RP - RP OCCUPATIONAL BASELINE - WEEK 2</b>			<b>2</b>			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		05/23/2005	05/27/2005	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		05/23/2005	05/27/2005	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		05/23/2005	05/27/2005	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		05/23/2005	05/27/2005	Baseline Inspections
<b>EB2 HEAD - CONCRETE REPAIR</b>			<b>2</b>			
4	IP 71007	Reactor Vessel Head Replacement Inspection		05/31/2005	06/03/2005	Other Routine
<b>EB2-HS - HEAT SINK</b>			<b>1</b>			
3,4	IP 7111107B	Heat Sink Performance		11/14/2005	11/18/2005	Baseline Inspections
<b>OL RQ - REQUAL INSPECTION</b>			<b>2</b>			
3,4	IP 7111111B	Licensed Operator Requalification Program		01/09/2006	01/13/2006	Baseline Inspections
<b>EB2-MR - MAINTENANCE RULE</b>			<b>2</b>			
3,4	IP 7111112Q	Maintenance Effectiveness		02/06/2006	02/10/2006	Baseline Inspections

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**Turkey Point**  
**Inspection / Activity Plan**  
**09/01/2004 - 03/31/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
<b>PS-RP - RP PUBLIC BASELINE</b>			<b>3</b>			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		02/13/2006	02/16/2006	Baseline Inspections
3,4	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/13/2006	02/16/2006	Baseline Inspections
3,4	IP 7112203	Radiological Environmental Monitoring Program		02/13/2006	02/16/2006	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		02/13/2006	02/16/2006	Baseline Inspections
<b>OL EP - EP INSPECTION</b>			<b>1</b>			
3,4	IP 2515/149	Mitigating Systems Performance Index Pilot Verification		02/27/2006	03/03/2006	Safety Issues
3,4	IP 7111402	Alert and Notification System Testing		02/27/2006	03/03/2006	Baseline Inspections
3,4	IP 7111403	Emergency Response Organization Augmentation Testing		02/27/2006	03/03/2006	Baseline Inspections
3,4	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/27/2006	03/03/2006	Baseline Inspections
3,4	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/27/2006	03/03/2006	Baseline Inspections