



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

August 31, 2007

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 14, 2007, the NRC staff completed its performance review of the Turkey Point Nuclear Plant for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed 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 performance review and the enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Overall, Turkey Point Unit 3 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for Turkey Point Unit 3 for the most recent quarter as well as the previous three quarters was within the Regulatory Response Column of the NRC's Action Matrix based on a White inspection finding in the Mitigating Systems Cornerstone and a White inspection finding in the Initiating Events Cornerstone. A White finding associated with a loss of all decay heat removal during a period of reduced reactor coolant inventory. This White inspection finding, involving the Initiating Events cornerstone, reflected performance at a level requiring increased regulatory response. Therefore in addition to the reactor oversight process baseline inspection program, a Supplemental Inspection using Inspection Procedure (IP) 95001, "Inspection for One or Two White Inputs In a Strategic Performance Area," was conducted the week of April 9, 2007, and no findings of significance were identified.

Plant performance for Turkey Point Unit 4 for the most recent quarter as well as the previous two quarters 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).

Package ML072430481
Letter ML072430498
Report ML072430503

Additionally, plant performance for both units for the third quarter of the calendar year 2006 was also within the Regulatory Response column of the NRC's Action Matrix due to a White finding associated with extended inoperability of the B Auxiliary Feedwater Pump due to an incorrectly installed bearing. This White inspection finding, involving the mitigating systems cornerstone, reflected performance at a level requiring increased regulatory response. A Supplemental Inspection using Inspection Procedure (IP) 95001, "Inspection for One or Two White Inputs In a Strategic Performance Area," was conducted the week of May 15, 2006 and no findings of significance were identified.

In our end-of-cycle assessment letter, dated March 1, 2007, we noted that you had initiated actions, and had additional actions planned, to address the cross-cutting issue. One of the key corrective actions, the conversion of their work processes to the Passport System, will not take place until 2009. The inspectors have reviewed some of the actions and have seen improvements. An additional PI&R team inspection was conducted and identified three Green NCV findings in Spring 2007. Since some of the corrective actions have not been in place long enough to demonstrate their effect, we determined that this cross-cutting issue remains open.

Based on conversations with members of your staff, we understand that you plan to make a presentation in the Region II office to our staff in October 2007 to discuss your ongoing actions to address your action plans for the safety conscious work environment (SCWE) and safety culture survey and improvement project for corrective action program. The NRC staff will evaluate the effectiveness of these initiatives at the end of CY 2007 through a focused 71152 inspection. If staff review shows the above plans to be effective and the licensee no longer meets the criteria for a substantive cross-cutting issue as described in Manual Chapter 0305, this substantiate cross-cutting issue will be closed at the 2007 end-of-cycle assessment.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2009. Please note that we will be also conducting inspections related to the Independent Spent Fuel Storage Installation that is planned for your site and we will coordinate with you the dates of the inspection. In addition to the ROP baseline inspections, we plan to conduct non-baseline inspections involving Units 3 and 4 containment sump blockage. The inspection plan is provided to minimize the resource impact on your staff and 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 twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review.

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).

The NRC is currently evaluating the scope and frequency of all baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection

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plan, we will contact you to discuss the change as soon as possible. Please contact Steven Vias at (404) 562-4505 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Charles A. Casto, Director
Division of Reactor Projects

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

Enclosure: Turkey Point Inspection/Activity Plan

cc w/encl: (See page 4)

cc w/encl:

William Jefferson
Site Vice President
Turkey Point Nuclear Plant
Florida Power and Light Company
Electronic Mail Distribution

James Connolly
Licensing Manager
Turkey Point Nuclear Plant
Florida Power and Light Company
Electronic Mail Distribution

Don E. Grissette
Vice President, Nuclear Training
and Performance Improvement
Turkey Point Nuclear Plant
Florida Power and Light Company
Electronic Mail Distribution

Michael O. Pearce
Plant General Manager
Turkey Point Nuclear Plant
Florida Power and Light Company
Electronic Mail Distribution

William E. Webster, Vice President
Nuclear Operations
South Region
Florida Power & Light Company
Electronic Mail Distribution

Mark Warner, Vice President
Nuclear Operations Support
Florida Power & Light Company
Electronic Mail Distribution

Rajiv S. Kundalkar
Vice President - Nuclear Technical
Services
Florida Power & Light Company
Electronic Mail Distribution

M. S. Ross, Managing Attorney
Florida Power & Light Company
Electronic Mail Distribution

Marjan Mashhadi, Senior Attorney
Florida Power & Light Company
Electronic Mail Distribution

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, FL 32304

William A. Passetti
Bureau of Radiation Control
Department of Health
Electronic Mail Distribution

Alejandro Sera
Miami-Dade County
Emergency Management Coordinator
Electronic Mail Distribution

County Manager
Metropolitan Dade County
111 NW 1st Street, 29th Floor
Miami, FL 33128

Craig Fugate, Director
Division of Emergency Preparedness
Department of Community Affairs
Electronic Mail Distribution

Curtis Ivy
City Manager of Homestead
Electronic Mail Distribution

Turkey Point
Inspection / Activity Plan
09/01/2007 - 03/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EB3-ISI - U3 INSERVICE INSPECTION		2			
3	IP 7111108P	Inservice Inspection Activities - PWR		09/10/2007	09/14/2007	Baseline Inspections
	PSB1-RP - RP OCCUPATIONAL BASELINE INSP WK1		3			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		09/10/2007	09/14/2007	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		09/10/2007	09/14/2007	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		09/10/2007	09/14/2007	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		09/10/2007	09/14/2007	Baseline Inspections
	EB3SGISI - U3 STEAM GENERATOR ISI		2			
3	IP 7111108P	Inservice Inspection Activities - PWR		09/17/2007	09/21/2007	Baseline Inspections
	EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-3)		2			
3	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		09/24/2007	09/28/2007	Safety Issues
	PSB1-RP - RP OCCUPATIONAL BASELINE INSP WK2		2			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		09/24/2007	09/28/2007	Baseline Inspections
3,4	IP 7112102	ALARA Planning and Controls		09/24/2007	09/28/2007	Baseline Inspections
3,4	IP 7112202	Radioactive Material Processing and Transportation		09/24/2007	09/28/2007	Baseline Inspections
3,4	IP 71151	Performance Indicator Verification		09/24/2007	09/28/2007	Baseline Inspections
	PIR-FU - PROBELM IDENTIFICATION & RESOLUTION FU		4			
3,4	IP 71152	Identification and Resolution of Problems		12/10/2007	12/14/2007	Baseline Inspections
	PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT		1			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		01/07/2008	01/09/2008	Baseline Inspections
	OL RQ - REQUALIFICATION INSPECTION		3			
3,4	IP 7111111B	Licensed Operator Requalification Program		01/14/2008	01/18/2008	Baseline Inspections
	PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE		4			
3,4	IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	02/01/2008	Baseline Inspections
3,4	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/28/2008	02/01/2008	Baseline Inspections
3,4	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		01/28/2008	02/01/2008	Baseline Inspections
3,4	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		01/28/2008	02/01/2008	Baseline Inspections
3,4	IP 71151-OR01	Occupational Exposure Control Effectiveness		01/28/2008	02/01/2008	Baseline Inspections
3,4	IP 71151-PR01	RETS/ODCM Radiological Effluent		01/28/2008	02/01/2008	Baseline Inspections
	PSB1-EP - EP INSP		1			
3,4	IP 7111402	Alert and Notification System Testing		02/25/2008	02/29/2008	Baseline Inspections
3,4	IP 7111403	Emergency Response Organization Augmentation Testing		02/25/2008	02/29/2008	Baseline Inspections
3,4	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/25/2008	02/29/2008	Baseline Inspections
3,4	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/25/2008	02/29/2008	Baseline Inspections
3,4	IP 71151-EP01	Drill/Exercise Performance		02/25/2008	02/29/2008	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
09/01/2007 - 03/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PSB1-EP - EP INSP		1			
3,4	IP 71151-EP02	ERO Drill Participation		02/25/2008	02/29/2008	Baseline Inspections
3,4	IP 71151-EP03	Alert & Notification System		02/25/2008	02/29/2008	Baseline Inspections
	EB1-SUMP - TI 2515/166 CONTAINMENT SUMP INSPECTION		1			
4	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		05/05/2008	05/09/2008	Safety Issues
	EB3-ISI - U4 INSERVICE INSPECTION		1			
4	IP 7111108P	Inservice Inspection Activities - PWR		05/05/2008	05/09/2008	Baseline Inspections
	EB3SGISI - U4 SG ISI		1			
4	IP 7111108P	Inservice Inspection Activities - PWR		05/12/2008	05/16/2008	Baseline Inspections
	EB1-CDBI - COMPONENT DESIGN BASIS INSPECTION		9			
3,4	IP 7111121	Component Design Bases Inspection		08/25/2008	08/29/2008	Baseline Inspections
3,4	IP 7111121	Component Design Bases Inspection		09/08/2008	09/12/2008	Baseline Inspections
3,4	IP 7111121	Component Design Bases Inspection		09/22/2008	09/26/2008	Baseline Inspections
3,4	IP 7111121	Component Design Bases Inspection		09/29/2008	10/03/2008	Baseline Inspections
	PI&R - PREP TRIP-PROBLEM ID AND RESOL		1			
3,4	IP 71152B	Identification and Resolution of Problems		09/22/2008	09/26/2008	Baseline Inspections
	PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		4			
3,4	IP 71152B	Identification and Resolution of Problems		11/03/2008	11/07/2008	Baseline Inspections
3,4	IP 71152B	Identification and Resolution of Problems		11/17/2008	11/21/2008	Baseline Inspections
	EB1-MODS - MODIFICATIONS - 10CFR50.59		4			
3,4	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/12/2009	01/16/2009	Baseline Inspections
3,4	IP 7111117B	Permanent Plant Modifications		01/12/2009	01/16/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM PREP		3			
3	V23299	TURKEY POINT/FEBRUARY 2009 EXAM AT POWER FACILITIES		02/09/2009	02/13/2009	Not Applicable
	PSB1-EP - EP EXERCISE		3			
3,4	IP 7111401	Exercise Evaluation		02/16/2009	02/20/2009	Baseline Inspections
3,4	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/16/2009	02/20/2009	Baseline Inspections
3,4	IP 71151-EP01	Drill/Exercise Performance		02/16/2009	02/20/2009	Baseline Inspections
3,4	IP 71151-EP02	ERO Drill Participation		02/16/2009	02/20/2009	Baseline Inspections
3,4	IP 71151-EP03	Alert & Notification System		02/16/2009	02/20/2009	Baseline Inspections
	OL EXAM - INITIAL EXAM		3			
3	V23299	TURKEY POINT/FEBRUARY 2009 EXAM AT POWER FACILITIES		02/23/2009	03/06/2009	Not Applicable

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