



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

April 13, 2017

Mr. Mano Nazar  
President and Chief Nuclear Officer  
Nuclear Division  
Florida Power & Light Company  
Mail Stop EX/JB  
700 Universe Blvd.  
Juno Beach, FL 33408

SUBJECT: NOTIFICATION OF TURKEY POINT UNITS 3 & 4 DESIGN BASES ASSURANCE  
INSPECTION – U.S. NUCLEAR REGULATORY COMMISSION INSPECTION  
REPORT 05000250/2017007 AND 05000251/2017007

Dear Mr. Nazar:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a Design Bases Assurance Inspection (DBAI) at your Turkey Point site during the weeks of July 31, 2017 and August 14, 2017. Mr. T. Fanelli, a Senior Reactor Inspector from the NRC's Region II office, will lead the inspection team. The inspection will be conducted in accordance with Inspection Procedure 71111.21M, "Design Bases Assurance Inspection (Teams)," dated December 8, 2016 (ADAMS ML16238A320).

The inspection will evaluate the capability of components that have been modified and risk-significant/low-margin components to function as designed and to support proper system operation. The inspection will also include a review of selected operator actions, operating experience, and modifications.

During a telephone conversation on April 11, 2017, with Mr. P. Czaya, we confirmed arrangements for an information-gathering site visit and the two-week onsite inspection. The schedule is as follows:

- Information-gathering visit: Week of July 10, 2017
- Onsite weeks: Weeks of July 31, 2017 and August 14, 2017

The purpose of the information-gathering visit is to meet with members of your staff to identify components that have been modified, risk-significant components and operator actions. Information and documentation needed to support the inspection will also be identified. Mr. S. Freeman, a Region II Senior Risk Analyst, will support Mr. Fanelli during the information-gathering visit to review probabilistic risk assessment data and identify components to be examined during the inspection. Additionally, during the onsite weeks, time will be needed on the plant-referenced simulator in order to facilitate the development of operator action-based scenarios.

The enclosure lists documents that will be needed prior to the information-gathering visit. Please provide the referenced information to the Region II Office by June 28, 2017. Additional documents will be requested following the information-gathering visit. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation. The additional information will be needed in the Region II office by July 20, 2017, to support the inspection team's preparation week. During the information-gathering trip, Mr. Fanelli will also discuss the following inspection support administrative details: (1) availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection; (2) method of tracking inspector requests during the inspection; (3) licensee computer access; (4) working space; (5) arrangements for site access; and (6) other applicable information.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," 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 Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Thank you for your cooperation in this matter. If you have any questions, regarding the information requested or the inspection, please contact Mr. Fanelli at 404-997-4433 or contact me at 404-997-4607.

Sincerely,

/RA/

Jonathan H. Bartley, Chief  
Engineering Branch 1  
Division of Reactor Safety

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

Enclosure:  
Information Request for Turkey Point Units 3&4,  
Design Bases Assurance Inspection (Teams)

cc: Distribution via Listserv

SUBJECT: NOTIFICATION OF TURKEY POINT UNITS 3 & 4 DESIGN BASES ASSURANCE  
INSPECTION – U.S. NUCLEAR REGULATORY COMMISSION INSPECTION  
REPORT 05000250/2017007 AND 05000251/2017007 – dated April 13, 2017

Distribution:

T. Fanelli, RII

J. Bartley, RII

☒ PUBLICLY AVAILABLE☐ NON-PUBLICLY AVAILABLE☐ SENSITIVE☒ NON-SENSITIVEADAMS: ☒ Yes      ACCESSION NUMBER: \_\_\_\_\_☐ SUNSI REVIEW COMPLETE ☒ FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	<b>TNF1</b>	<b>JHB1</b>					
NAME	T. Fanelli	J. Bartley					
DATE	4/13/2017	4/13/2017					
E-MAIL COPY?	YES NO	YES NO					

OFFICIAL RECORD COPY      DOCUMENT NAME: S:\DRS NEW/ENG BRANCH 1\BRANCH INSPECTION FILES\2017-2018-  
2019 CYCLE INSPECTION FOLDER FOR ALL SITES\DBAIS\TURKEY POINT\TP DBAI NOTIFICATION LETTER.DOCX

## **INFORMATION REQUEST FOR Turkey Point Units 3&4 DESIGN BASES ASSURANCE INSPECTION (TEAMS)**

Please provide the information electronically in “.pdf” files, Excel, or other searchable format on CDROM (or FTP site, SharePoint, etc.). The CDROM (or website) should be indexed and hyperlinked to facilitate ease of use. The requested items below, identified with an asterisk (\*), should have a date range from **June 01, 2013, until present**.

1. \*List and brief description of safety-related structures, systems, or components (SSCs) design modifications implemented. Include an index of systems (system numbers/designators and corresponding names).
2. From your most recent probabilistic safety analysis (PSA) excluding external events and fires:
  - a. Two risk rankings of components from your site-specific PSA: one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance
  - b. A list of the top 500 cut-sets
  - c. A list of the top 500 LERF contributors
3. From your most recent PSA including external events and fires:
  - a. Two risk rankings of components from your site-specific PSA: one sorted by RAW, and the other sorted by Birnbaum Importance
  - b. A list of the top 500 cut-sets
4. Risk ranking of operator actions from your site-specific PSA sorted by RAW and human reliability worksheets for these items
5. List of time-critical operator actions with a brief description of each action
6. \*List of components with low-design margins (i.e., pumps closest to the design limit for flow or pressure, diesel generator close to design-required output, heat exchangers close to rated design heat removal, and motor-operated valve risk-margin rankings, etc.) and associated evaluations or calculations
7. \*List and brief description of Root Cause Evaluations performed
8. \*List and brief description of common-cause component failures that have occurred
9. List and brief description of equipment currently in degraded or nonconforming status as described in NRC Inspection Manual Chapter 0326, issued December 3, 2015
10. \*List and brief description of Operability Determinations and Functionality Assessments
11. \*List and reason for equipment that has been classified in maintenance rule (a)(1) status

Enclosure

12. \*List of equipment on the site's Station Equipment Reliability Issues List, including a description of the reason(s) why each component is on that list, and summaries (if available) of your plans to address the issue(s) along with dates added or removed from the issues list
13. List of current "operator work arounds/burdens"
14. Copy of Updated Final Safety Analysis Report
15. Copy of Technical Specification(s)
16. Copy of Technical Specifications Bases
17. Copy of Technical Requirements Manual(s)
18. Copy of the Quality Assurance Program Manual
19. Copy of Corrective Action Program Procedure(s)
20. Copy of Operability Determination Procedure(s)
21. List of motor operated valves and air operated valves in the valve program, and their associated design margin and risk ranking
22. Primary AC and DC calculations for safety-related buses
23. One-line diagram of electrical plant (Electronic only)
24. Index and legend for electrical plant one-line diagrams
25. Piping and instrumentation diagrams (P&IDs) for safety-related systems (Electronic)
26. Index and legend for P&IDs
27. Index (procedure number, title, and current revision) of station Emergency Operating Procedures, Abnormal Operating Procedures, and Annunciator Response Procedures
28. Copies of corrective action documents generated from previous CDBI
29. Copy of any self-assessments performed, and corrective action documents generated, in preparation for current DBAI
30. Contact information for a person to discuss PSA information prior to and during the information-gathering trip (Name, title, phone number, and e-mail address)