

March 3, 1995

LICENSEE: Florida Power & Light Company (FPL)

FACILITY: Turkey Point Units 3 and 4

SUBJECT: MEETING HELD TO DISCUSS THE PROPOSED THERMAL POWER UPRATE PROJECT

On February 28, 1995, the staffs of FPL and NRR met in the NRR offices. The meeting was held at FPL request to discuss the proposed thermal power uprate project for Turkey Point Units 3 and 4 and the necessary licensing submittals.

Mr. R. Kundalkar of FPL discussed the uprate program, licensing submittals, and anticipated schedules. Licensing actions include leak-before-break methodology, revised thermal design procedure, instrumentation technical specification format change, small-break loss of coolant accident (LOCA) methodology, and a final uprate submittal requesting an increase in thermal output from 2200 MW/unit to 2300 MW/unit.

Reanalysis of the large-break LOCA is also necessary. The status of the current NRC review of the Westinghouse best estimate large-break LOCA methodology was discussed. The final uprate request is currently scheduled for December 29, 1995, and NRC approval by September 30, 1996, will be requested.

The meeting resulted in a good understanding of the FPL plans and the NRR staff provided feedback on the feasibility of the FPL schedule estimates for NRR staff review.

Enclosure 1 contains a list of attendees and Enclosure 2 consists of the presentation material.

(Original Signed By)
Richard P. Croteau, Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-250 and 50-251
Enclosures: As stated
cc w/enclosures: See next page

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Docket File SVarga
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PDII-2 RF OGC
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NRR Attendees

OFC	LA:PDII-2	PM:PDII-2	D:PDII-2
NAME	Dunnington <i>ETD</i>	RCroteau <i>RC</i>	DMatthews
DATE	03/2/95	03/3/95	03/3/95

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Mr. J. H. Goldberg
Florida Power and Light Company

Turkey Point Plant
Units 3 and 4

cc:

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Enclosure 1

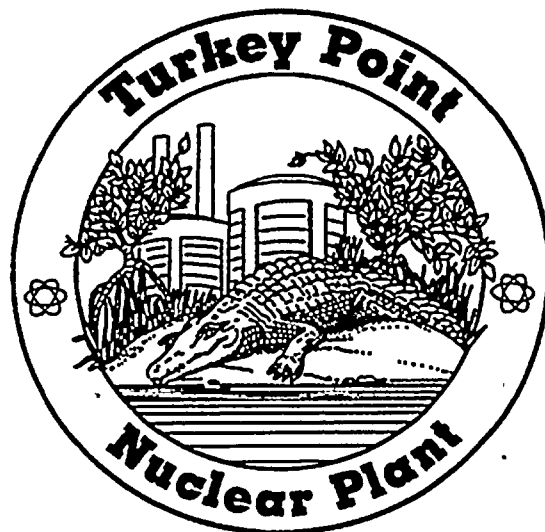
Turkey Point Units 3 and 4

Thermal Uprate Meeting

February 28, 1995

Attendees

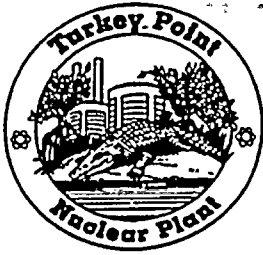
<u>Name</u>	<u>Office</u>
R. Kundalkar	FPL
D. Carter	NRR
B. Thomas	NRR
F. Orr	NRR
W. Bohlke	FPL
E. Weinkam	FPL
W. Smith	Bechtel/SERCH
J. Tsao	NRR
F. Grubelich	NRR
H. Garg	NRR
R. Goe1	NRR
C. Wa	NRR
R. Croteau	NRR



**TURKEY POINT UNITS 3 & 4
THERMAL POWER UPRATE PROJECT**

FEBRUARY 28, 1995

FPL/NRC MEETING



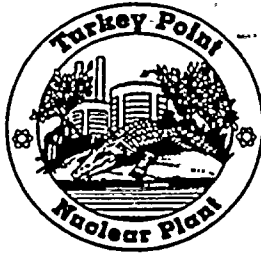
TURKEY POINT NUCLEAR PLANT
THERMAL POWER UPRATE PROJECT

- I. Uprate Program

- II. Licensing Submittals

- III. Format / Content of Uprate Submittal

- IV. Discussion



TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

I. Uprate Program

- ◆ 3 loop Westinghouse PWRs - 2 units

- ◆ Current license core power level - 2200 MW_{th}/unit
 - Original analysis of record - 2293.7 MW_{th}/unit
 - NSSS sister plant licensed for 2300 MW_{th}

- ◆ Plan to re-license Turkey Point Units 3 & 4
 - Uprated core power level - 2300 MW_{th}/unit
 - 31 MW_e/unit output gain projected, 62 MW_e total
 - Major re-analysis
 - Nuclear Steam Supply Systems
 - Power Conversion Systems
 - Minor physical modifications

- ◆ Environmental Assessment
 - As part of original licensing, final environmental statement recognized ultimate thermal generating capacity of 2300 MW_{th}
 - Small impact on radiological releases



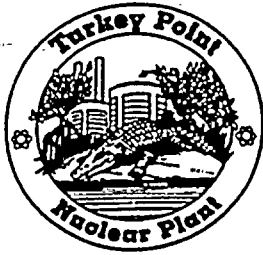
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THERMAL POWER UPRATE PROJECT

I. Uprate Program (continued)

◆ Benefits

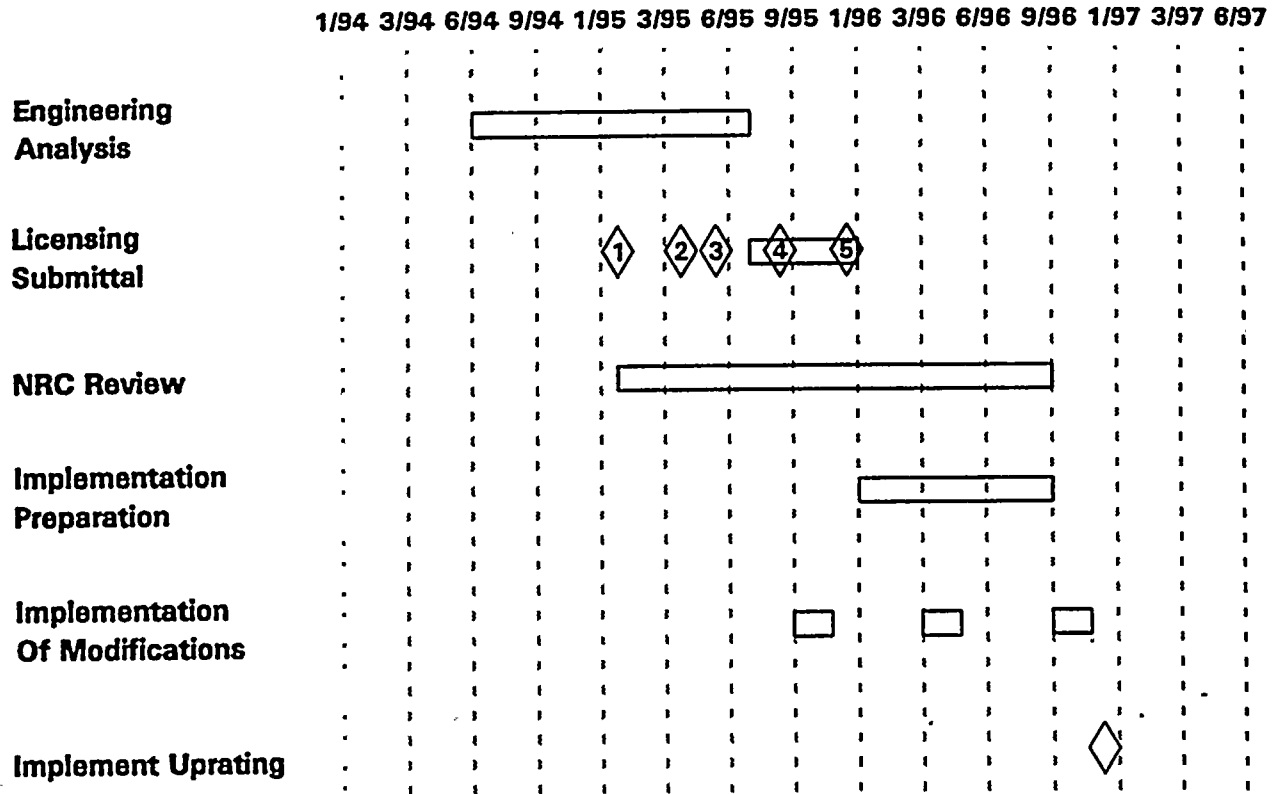
- **Benefit to the Rate Payer**
 - Reduces system fuel expense by a significant amount
 - Lowest cost capacity management option
 - More cost effective than Demand Side Management
- **Benefit to the FPL Shareholder**
 - Deferral of cash requirements for new generation
 - Better utilization of existing assets



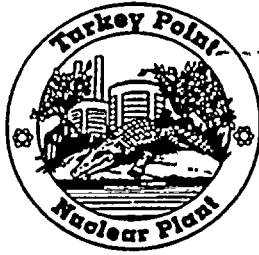
TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

I. Uprate Program (continued)



Licensing Submittals			
No.	Topic	Planned Submittal Date	Requested Approval Date
1	Leak Before Break	2/2/95A	8/1/95
2	Revised Thermal Design Procedure	5/1/95	10/31/95
3	Instrumentation Tech Spec Format	5/31/95	11/30/95
4	Small Break LOCA	8/31/95	2/28/96



TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

II. Licensing Submittals

1. Leak Before Break (LBB)

- Plant specific analysis for current power level
- Will bound uprated conditions
- Methodology and submittal comparable to analyses submitted by other Westinghouse utilities
- Submitted February 2, 1995
- Review requested by August 1, 1995

2. Revised Thermal Design Procedure (RTDP)

- NRC approved methodology
- Non-LOCA events reanalyzed
- Significant increase in DNB margin (<3% to 19%)
- Increases operating margin (OTDT, OPDT and S/G low-low level setpoints)
- Methodology also used in uprating analyses
- Planned submittal by May 1, 1995
- Review requested by October 31, 1995



TURKEY POINT NUCLEAR PLANT

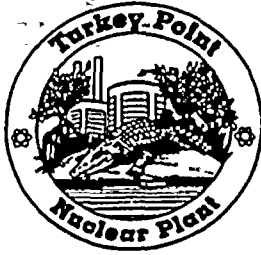
THERMAL POWER UPRATE PROJECT

II. Licensing Submittals (continued)

3. Instrumentation Technical Specification Format Change

- Revises 5-column format to 2-column format for RPS/ESFAS setpoints
- Nominal trip setpoint and allowable value included
- Consistent with Standard Technical Specification format
- Minimizes Technical Specification changes for equivalent instrument replacements
- Up-rating submittal will include 2-column format mark-ups
- Planned submittal by May 31, 1995
- Review requested by November 30, 1995



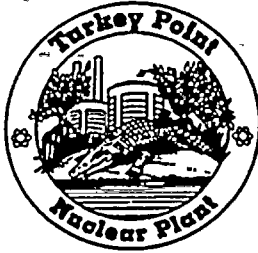


TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

4. Small Break LOCA

- **10CFR50.46 Notice**
 - **Significant error/change identified in October 1993**
 - * **Penalty for SI in broken loop**
 - * **Offsetting benefit of COSI**
 - **FPL provided schedule for reanalysis (January 1994)**
 - * **Next SBLOCA licensing activity**
- **Uses NOTRUMP evaluation model addendum previously submitted in August 1994**
 - **SI in the broken loop (WCAP-10054-P, Addendum 2)**
 - **Improved condensation model (COSI, WCAP-10054-P, Addendum 2 and WCAP-11767-P)**
- **Upgrading - Next FPL SBLOCA license activity**
- **Consequences of delays in review**
 - **Delayed uprate implementation (replacement power)**
- **Planned submittal by August 31, 1995**
- **Review requested by February 28, 1996**



TURKEY POINT NUCLEAR PLANT

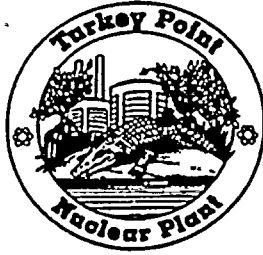
THERMAL POWER UPRATE PROJECT

II. Licensing Submittals (continued)

5. Upgrading Submittal

- Integrated report of analyses and reviews for uprated conditions
- Comparable to other utilities' recent upgrading submittals
 - Surry
 - Vogtle
- Planned submittal by December 29, 1995
- Review requested by September 30, 1996





TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

III. Format/Content of Uprate Submittals

◆ Format

- Cover Letter
- Integrated Technical Report

◆ Technical Report Content

- Executive Summary
- Program Description
- NSSS Design Operating Conditions
- Accident Analysis and Evaluations
 - Non-LOCA Events
 - LOCA Events
 - Steam Generator Tube Rupture
 - Containment Integrity Analyses
 - Other Design Basis and Programmatic Evaluations
 - Conclusions
 - Summary of UFSAR Assessment (10CFR50.92)
- NSSS and Turbine/Generator Components Review
- NSSS and Turbine/Generator Systems Review
- BOP Evaluations
- Environmental Considerations



TURKEY POINT NUCLEAR PLANT

THERMAL POWER UPRATE PROJECT

IV. Discussion .

- ◆ Best Estimate Large Break LOCA (BELOCA)
 - Status of NRC Review