

Docket File



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
March 9, 1989

Docket Nos. 50-335
and 50-389

LICENSEE: Florida Power and Light Company
FACILITY: St. Lucie Units 1 and 2
SUBJECT: SUMMARY OF MEETING HELD WITH FLORIDA POWER & LIGHT COMPANY (THE LICENSEE) TO DISCUSS IMPLEMENTATION OF 10 CFR 50.62 - ANTICIPATED TRANSIENT WITHOUT SCRAM (ATWS) RULE (TAC NO. 59144)

A meeting was held at the NRC offices in Rockville, Maryland on March 1, 1989, to discuss the proposed modifications of the St. Lucie Plant to meet the requirements of the ATWS Rule. As the first order of the meeting, the licensee committed to the implementation of the modifications for both units during the 1990 refueling outages (see Enclosure 1). The licensee then outlined the history of the effort as related to the St. Lucie Plant and presented an outline of the design concepts (see Enclosure 2).

During the course of the meeting the staff requested that the licensee:

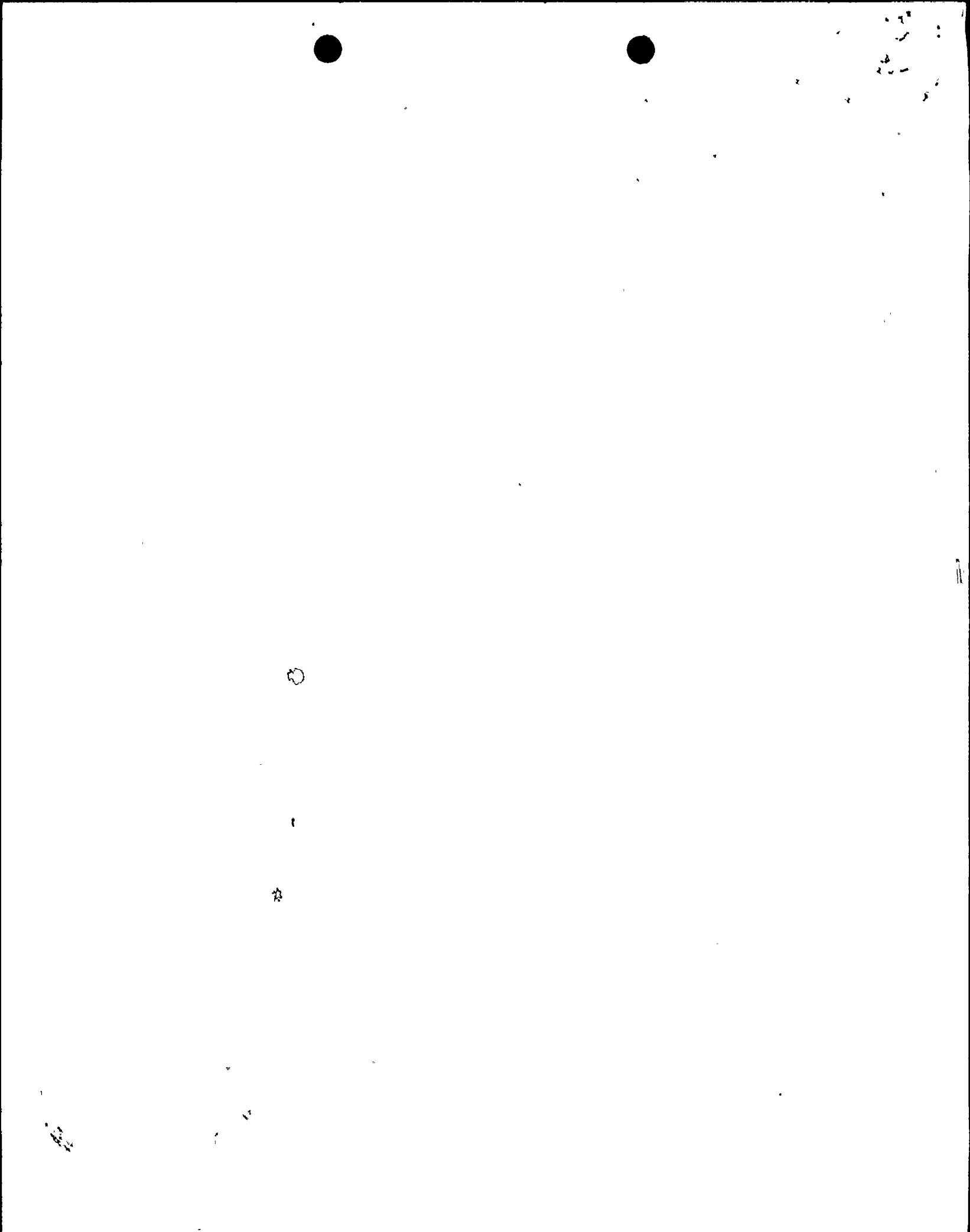
1. Provide a discussion of the at-power testing features of the ATWS circuits.
2. Provide a commitment that end-to-end testing, from sensor input to actuated device, will be performed during each refueling outage.
3. Provide a commitment that any electrical isolation device used in a 1E to non-1E interface will be qualified in accordance with the requirements of Attachment A to the NRC letter dated May 18, 1988.
4. Re-examine the matrix relays with respect to contact wipe and configuration differences between Reactor Protection System (RPS) and Auxiliary Feedwater Actuation System (AFAS) matrix relays.
5. Provide a discussion on how the Diverse Turbine Trip (DTT) meets the requirements of the ATWS Rule, i.e., discussion of the design criteria.
6. Examine the Diverse Scram System (DSS) power source options as listed below:
 - a. The elimination of the output isolators in Engineered Safety Features Actuation System (ESFAS) cabinets SA and SB and using non-RPS associated power on the DSS circuits in those cabinets.

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March 9, 1989

Discussion: The ESFAS cabinets are safety-related cabinets and the DSS circuits in those cabinets are non-safety-related. The physical separation requirements between safety-related and non-safety-related circuits in the same enclosure must be followed. The electrical isolators in ESFAS cabinets MA, MB, and MD would represent the safety-related to non-safety-related boundary.

- b. The use of RPS associated power throughout the DSS accompanied by a Failure Modes and Effect Analysis (FMEA) performed on the DSS circuits.

Discussion: This option essentially upgrades the DSS to safety-grade status and the criteria for safety-grade status should be followed. It should be noted that the Calvert Cliffs DSS circuits use RPS power throughout and are four channel, safety-related, redundant circuits with the output stage also being redundant.

- 7. Submit bimonthly reports on the progress of the effort with the objective of assuring that the implementation dates will be met.

The attendance list is shown on Enclosure 3.

Original signed by
Jan A. Norris, Sr. Project Manager
Project Directorate II-2
Division of Reactor Projects I/II

- Enclosures:
- 1. Letter
 - 2. Agenda
 - 3. Attendance list

cc w/enclosures:
See next page

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[SUMM1]
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DSS Per
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JAN
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JNorris:jd
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St. Lucie Plant

cc:

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