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SUBJECT: Informs that NRC items completed by licensee at Turkey Point Unit 4 during Cycle 14 refueling outage. Items of regulatory interest, for action taken during refueling outage summarized in encl.

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FPL

L-93-151

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

JUL 13 1993

Gentlemen:

Re: Turkey Point Unit 4
Docket No. 50-251
Activities Completed During Cycle 14 Refueling Outage

The purpose of this letter is to report to the NRC items completed by Florida Power & Light Company (FPL) at Turkey Point Unit 4 during the Cycle 14 refueling outage.

FPL conducted a refueling outage of Turkey Point Unit 4 from April 9, 1993, until May 26, 1993. Regulatory activities, and items of regulatory interest, for which action was taken during this refueling outage are summarized in the attachment.

Should there be any questions regarding this information, please contact us.

Very truly yours,

T. F. Plunkett
Vice President
Turkey Point Nuclear

TFP/ejw

Attachment

cc: S. D. Ebnetter, Regional Administrator, Region II, USNRC
R. C. Butcher, Senior Resident Inspector, USNRC, Turkey
Point Plant

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Turkey Point Unit 4

Activities Completed During Cycle 14 Refueling Outage

Degraded Voltage Protection Scheme

By License Amendment No. 147 to the Turkey Point Unit 4 Operating License, dated August 20, 1992, the NRC approved the addition of one definite time delay relay per channel in the existing non-safety injection degraded voltage protection scheme, interlocked with safety-related load centers, and the elimination of the reference in the Turkey Point Units 3 and 4 Technical Specifications to a specific type of relay used in the degraded voltage protection scheme.

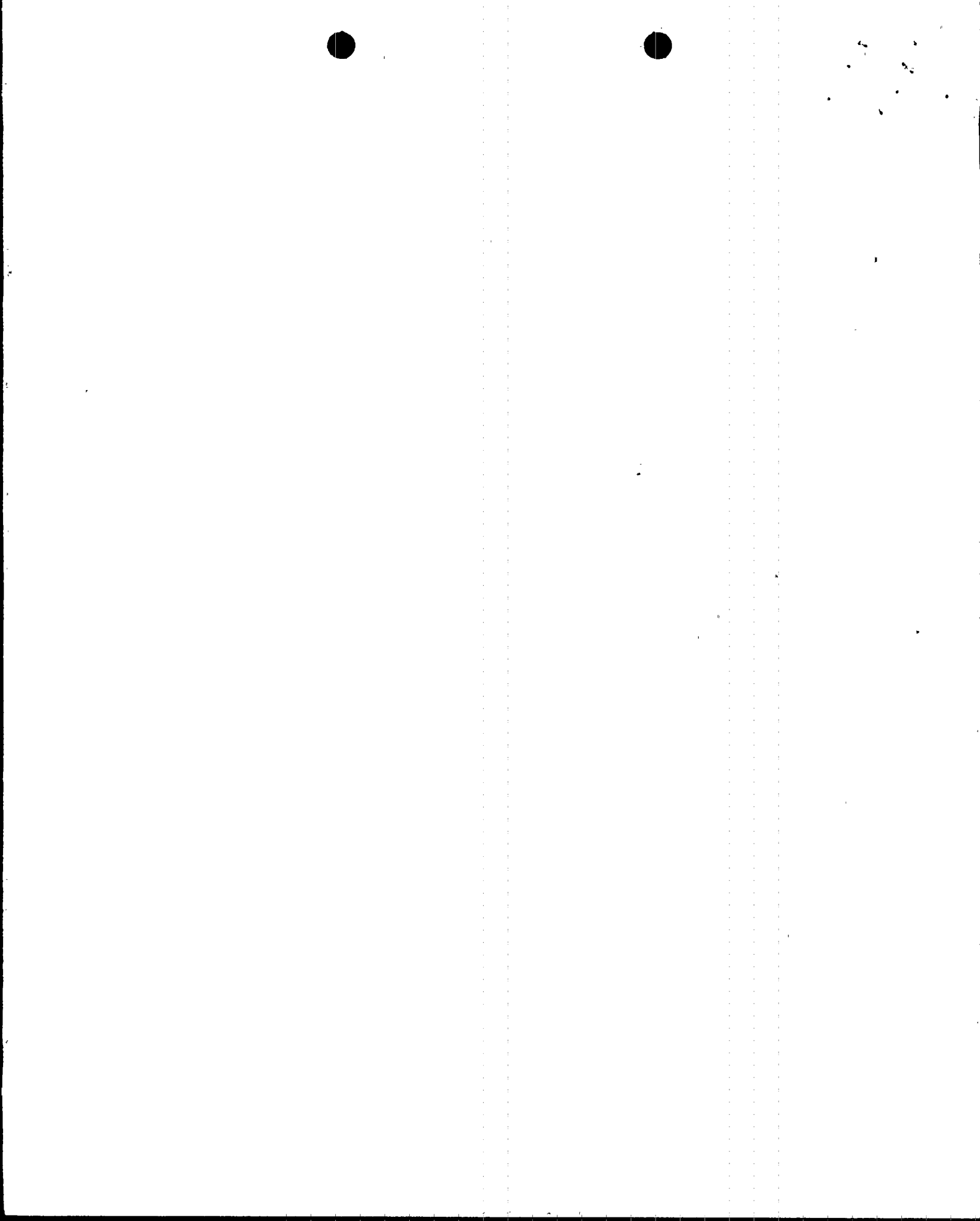
The implementation of the definite time delay relays in accordance with Turkey Point Unit 4 License Amendment No. 147 was completed as Plant Change/Modification (PC/M) 92-054 on Turkey Point Unit 4 during the Cycle 14 refueling outage.

This completes FPL's actions in implementing Turkey Point Unit 4 License Amendment No. 147.

Engineering Re-Examination of Indications on Steam Generator Feedwater Nozzles

During the Augmented Inservice Inspection (ISI) Program examination of the feedwater piping, indications were detected in the feedwater reducer to steam generator nozzle welds. These circumferentially oriented, planar flaw indications had been identified during a previous refueling outage and were confirmed to be cracks during the Cycle 14 refueling outage inspection. The indications initiated at the root of the welds and propagated into the weld and base materials. The failure mechanism was determined to be thermal fatigue based upon the results of ultrasonic testing examination.

FPL completed replacement of the Turkey Point Unit 4 feedwater reducer nozzles on all three steam generators during the Cycle 14 refueling outage. FPL will re-examine the steam generator feedwater nozzles in upcoming refueling outages in accordance with the Augmented ISI Program.



Pressure Relief in the High Head Safety Injection Line Hot Leg

By letter L-92-013, dated February 12, 1992, FPL discussed the status of the Design Basis Document Verification and Component Design Review Verification items remaining to be completed at Turkey Point Units 3 and 4. Letter L-92-013 further stated that physical work and procedure changes identified by the Design Basis Document Verification and Component Design Review Verification activities would be evaluated and scheduled for completion on a timely basis. An example of such an activity was the installation of pressure relief on the hot leg high head safety injection line, which was planned for installation on Turkey Point Unit 4 during the Cycle 14 refueling outage.

The modification to Turkey Point Unit 4, PC/M 92-097, installing a pressure relieving device on the hot leg high head safety injection line, was completed during the Cycle 14 refueling outage.

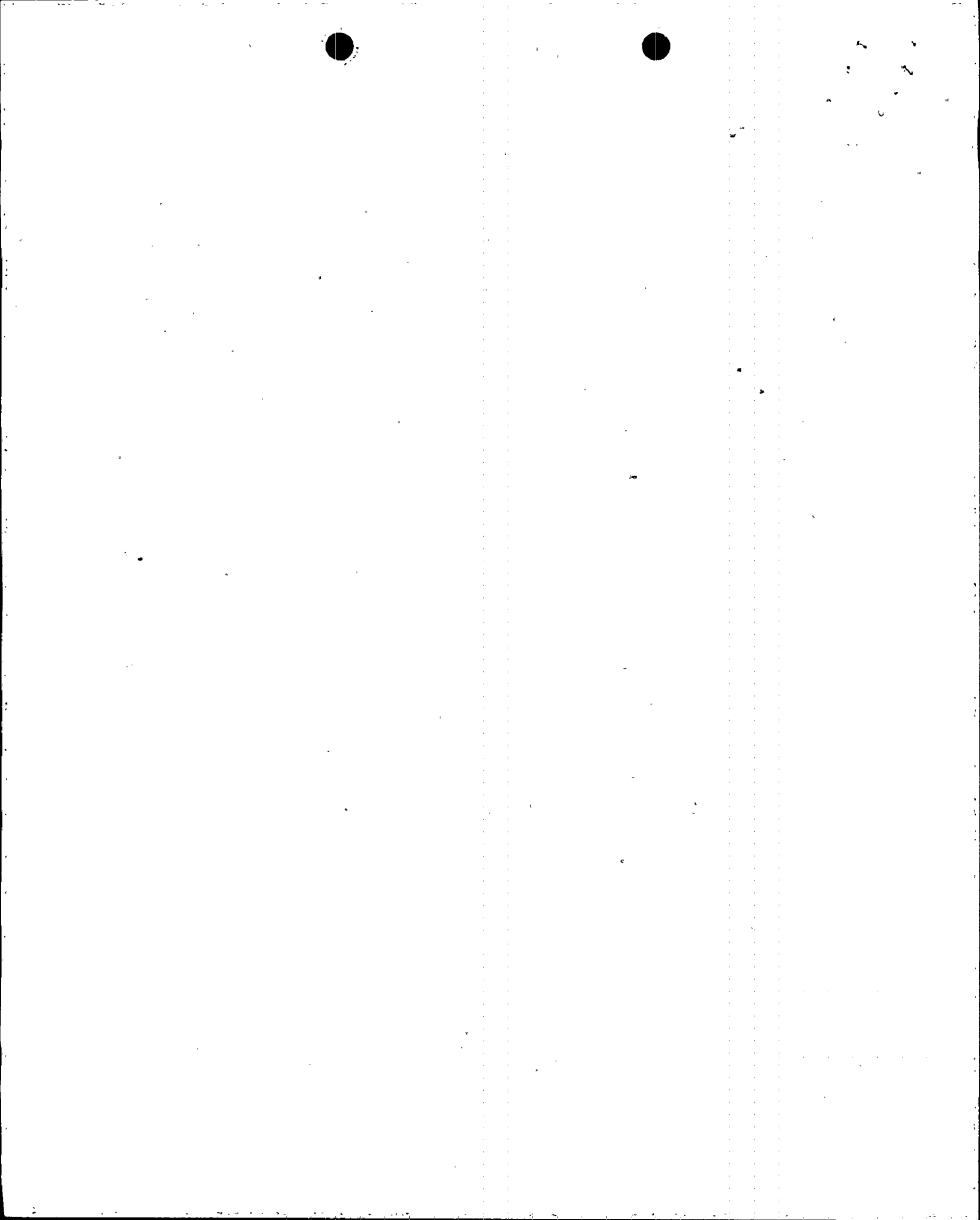
Inspection and/or Replacement of Pipe Caps on PCV-4-455A and PCV-4-455B

By letter L-92-345, dated December 17, 1992, FPL reported to the NRC a Turkey Point Unit 3 reactor coolant system pressure boundary leak through a pipe cap on an abandoned bellows rupture telltale line on pressurizer spray valve PCV-3-455B. The leak occurred as a result of weakened ligaments surrounding laminations in the machined rolled bar stock. As a corrective action, the pipe caps on PCV-3-455A and PCV-3-455B were replaced with caps made of forged material. As an additional corrective action, FPL committed to inspect, and replace as necessary, the pipe caps on valves PCV-4-455A and PCV-4-455B during the next Turkey Point Unit 4 outage of sufficient duration.

The pipe caps on valves PCV-4-455A and PCV-4-455B were replaced with caps of forged material during the Cycle 14 refueling outage.

Abandoned Spray Valves Bypass Line Vertical Cap

By letter L-93-027, dated February 5, 1993, FPL reported to the NRC a Turkey Point Unit 3 reactor coolant system pressure boundary steam leak on an abandoned spray valve bypass line. The leak was through a socket weld connecting a pipe cap to the pipe nipple. The leak appeared to be the result of inadequate pullback during welding of the pipe cap in 1985 causing excessive local stress and stress corrosion cracking of the weld. As a corrective action, FPL removed the section of pipe with the failed weld and



welded a new pipe cap in place. As an additional corrective action, FPL committed to inspect the vertical cap on the abandoned spray valve bypass line on Turkey Point Unit 4 for evidence of sufficient pullback and replace the pipe cap, if required, during the next Turkey Point Unit 4 refueling outage.

The pipe cap was replaced on the abandoned spray valve bypass line on Turkey Point Unit 4 during the Cycle 14 refueling outage.

NRC Bulletin 88-11; Pressurizer Surge Line Thermal Stratification

NRC Bulletin 88-11, "Pressurizer Surge Line Thermal Stratification", dated December 20, 1988, requested that licensees (1) establish and implement a program to confirm pressurizer surge line integrity in view of the occurrence of thermal stratification and (2) inform the NRC staff of actions taken to resolve the issue.

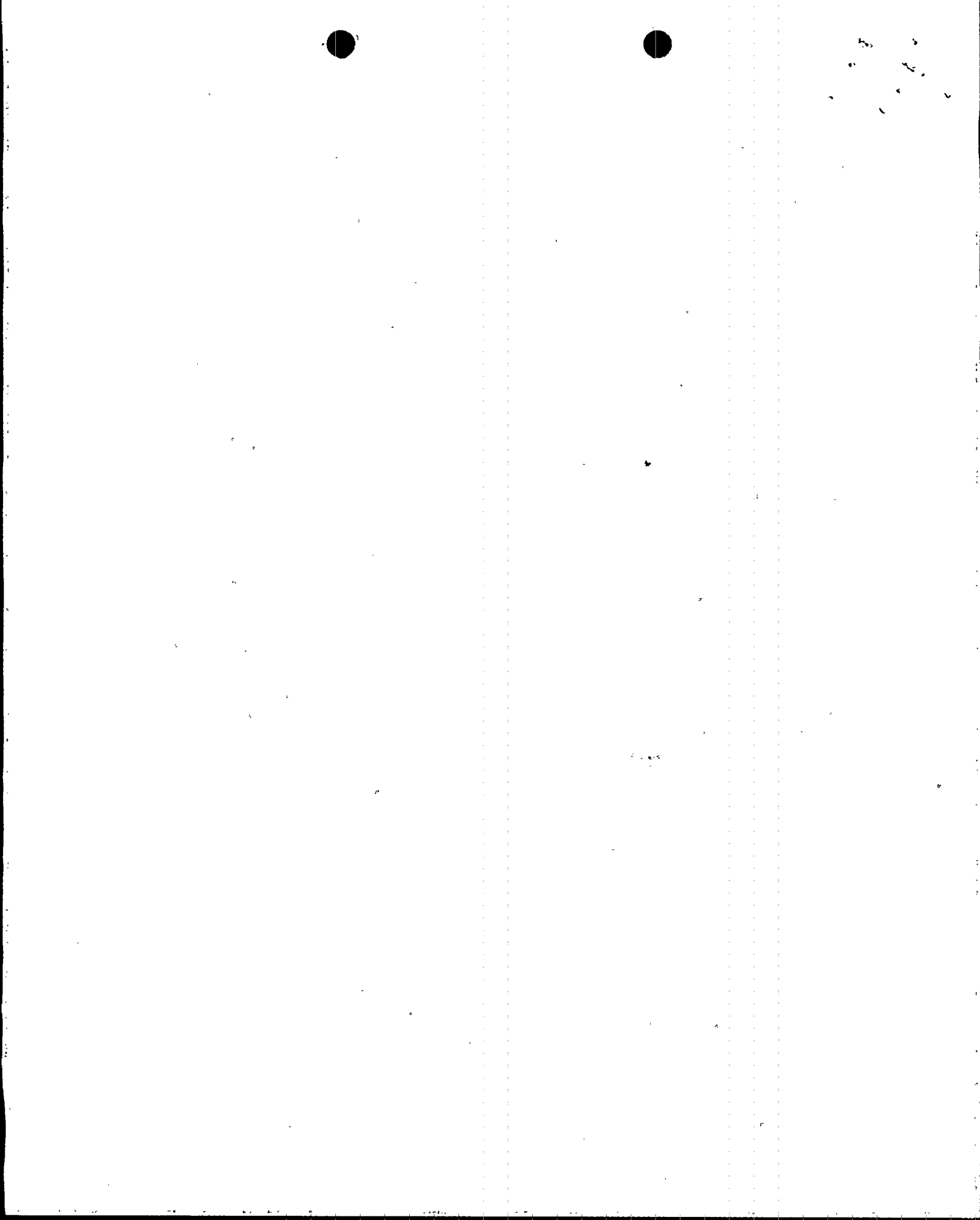
By letter L-91-316, dated December 13, 1991, FPL submitted plant-specific analyses considering the effects of thermal stratification on the Turkey Point Units 3 and 4 pressurizer surge lines. The analyses demonstrated acceptable pressurizer surge line stress levels and fatigue life for the remaining life of each unit considering the effects of thermal stratification. The acceptability was contingent on modifications to the surge line spring hanger to accommodate surge line thermal stratification displacement. The modifications assured surge line piping stresses and cumulative usage factors remain acceptable for the remainder of the 40 year licensed operating life of each unit. FPL committed to complete the modification on Turkey Point Unit 4 during the Cycle 14 refueling outage.

By PC/M 91-200; FPL completed the modification to the Turkey Point Unit 4 pressurizer surge line spring hanger during the Cycle 14 refueling outage.

This completes FPL's required activities with respect to NRC Bulletin 88-11 for both Turkey Point Units 3 and 4.

Turbine Runback Selector Switch

By letter L-93-40, FPL informed the NRC that the scope of Integrated Schedule (I/S) Modification 1246, Replacement of the Turbine Runback Selector Switch for Unit 4, had been changed from elimination of the "Off" position on the existing switch to the total elimination of the Turbine Runback Selector Switch and the turbine runback function on dropped rod.



The revised scope for I/S Modification 1246 was implemented as PC/M 92-181 during the Unit 4 Cycle 14 refueling outage. Elimination of the turbine runback function on dropped rod for Unit 3 will be implemented during the Cycle 14 refueling outage scheduled to start in March 1994.

Plant Page Audibility

As a result of various NRC inspections and generic communications, FPL committed to modify the Turkey Point Nuclear Public Address/Emergency Alarm System.

By PC/M 92-004, FPL completed upgrades to the Public Address/Emergency Alarm System by accomplishing the following:

- Installing high intensity blue strobe lights in high noise areas. This will alert personnel in these areas to move to a location in which to hear the emergency announcement on the plant page system.
- Installing more alarm inputs on the plant page system which had used a tone generator to initiate an alarm. Previously, only the site evacuation and containment evacuation alarms were generated by the tone generator. This modification added two more alarm inputs (fire and emergency) to the tone generator to initiate alarms on the page system. Also, two additional inputs were added to the tone generator to utilize page boost and alarm reset capability.
- Allowing the tone generator to control the tone duration of all alarms except the site evacuation alarm. This eliminates the existing time delay relays associated with the containment evacuation alarm.
- Removal of the code call system equipment which was previously abandoned in place. This eliminates unnecessary equipment from the communication boxes.
- Adding a new communication station with strobe light and speakers in the auxiliary feedwater pump area and adding speakers outside of the Turkey Point Unit 3 4 kV switchgear room.



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