

APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-382/84-28

Construction Permit: CPPR-103

Docket: 50-382

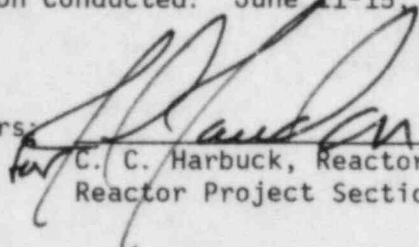
Licensee: Louisiana Power & Light Company (LP&L)
142 Delaronde Street
New Orleans, Louisiana 70174

Facility Name: Waterford 3 SES

Inspection At: Waterford 3 Site, Taft, Louisiana

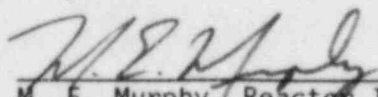
Inspection Conducted: June 11-15, 1984

Inspectors:



C. C. Harbuck, Reactor Inspector
Reactor Project Section A

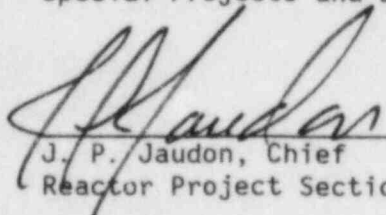
7/18/84
Date



M. E. Murphy, Reactor Inspector
Special Projects and Engineering Section

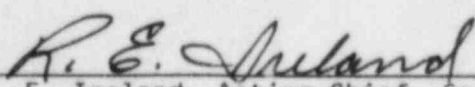
7/16/84
Date

Approved:



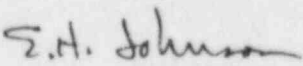
J. P. Jaudon, Chief
Reactor Project Section A

7/18/84
Date



R. E. Ireland, Acting Chief, Special Projects
and Engineering Section

7/19/84
Date



For W. A. Crossman, Team Leader, Region IV
Waterford 3 Task Force

7/19/84
Date

Inspection Summary

Inspection Conducted June 11-15, 1984 (Report 50-382/84-28)

Areas Inspected: Routine, unannounced inspection of actions taken on previously identified inspection findings in fire protection/prevention. The inspection involved 64 inspector-hours onsite by two NRC inspectors.

Results: Within the area inspected, no violations or deviations were identified.

DETAILS

1. Persons Contacted

Louisiana Power & Light

- *S. Alleman, Assistant Plant Manager, Technical Services
- *R. Barkhurst, Plant Manager
- *K. Cook, Nuclear Support & Licensing Manager
- *M. Cumbest, Senior Risk Control Specialist
- *K. Curley, LP&L Licensing
- *N. Dubry, Oversight Engineer
- *A. Holder, Fire Protection Engineer
- *C. Kelley, Operations QA
- *W. Morgan, Operations QA Manager
- *L. Storz, Assistant Plant Manager O/M
- *J. Woods, Plant Quality

Ebasco

- *J. Hart, Site Licensing Supervisor

The NRC inspectors also contacted other site personnel including operations and engineering.

*Denotes presence at exit meeting conducted June 15, 1984.

2. Status of Licensee Action On Previously Identified Inspection Findings In Fire Prevention/Protection

This inspection reviewed the licensee's progress in closing out the open items and deviations identified in NRC Inspection Report 50-382/84-20 for the inspection conducted April 9-13, 1984. Subsequent to this inspection, a meeting was held on May 2, 1984, in Bethesda, Maryland, by the licensee with NRC representatives, to clarify findings from the inspection and identify certain commitments to close the open items. The completion of these commitments was scheduled in support of certain key events; such as, issue of operating license, fuel load, criticality, and prior to startup following first refueling outage. One item was scheduled to be complete by December 1, 1984; that is, the analysis of effects of spurious operations caused by a fire in any plant area.

(Open) Open Item (382/8420-01): This item is open pending completion of the licensee's reanalysis of the effects of a fire in the control room without limitation to one control panel, such that the equipment and circuits necessary to provide the alternative shutdown capability are

electrically isolated from the control room. In addition, the licensee must identify the systems and/or components required for safe shutdown, develop procedures to implement the alternative shutdown capability, and identify and train sufficient numbers of shift personnel to implement the procedures. The procedures must consider the unavailability of off-site power for 72 hours.

At the May 2, 1984, meeting, the licensee claimed the reanalysis was complete except for the effects of spurious operations caused by a fire in any plant area, and this was committed to be complete by December 1, 1984. Pending completion of this reanalysis and completion of any required modifications, the licensee committed to provide an interim shutdown procedure which would address a fire in the control room concurrent with a loss of offsite power. The procedure will assume unavailability of the control room components and operator evacuation. The procedure will require alignment and operations of essential systems independent of the control room. The procedure and training of all operating personnel in its use would be complete prior to fuel load.

The licensee's operations personnel and the NRC inspectors conducted a simulated accident walkdown of the procedure OP-901-004, Rev. 1, dated May 30, 1984, "Off-Normal Procedure - Evacuation of Control Room and Subsequent Plant Shutdown." The procedure is considered satisfactory and personnel training is satisfactory. However, material and tools required by the procedure were not available and all work on emergency lighting identified in the previous inspection was not complete.

This item is open.

(Open) Open Item (382/8420-02): This item is open pending an NRC (NRR) resolution on installing smoke detectors in the control room cabinets. The licensee informed the NRC inspectors that they had verbal agreement that they could install self-contained smoke detectors as an interim fix until a permanent detector system could be installed. No work has been done and nothing in writing has been received from NRR.

This item is open.

(Open) Open Item (382/8420-03): This item is open because the passive fire protection for the redundant chillers, chilled water pumps, and air handlers were found to be not in accordance with NRR guidelines. The NRR resolution is still pending.

This item is open.

(Open) Open Item (382/8420-04): This item is open pending installation of additional local early warning fire detection at each auxiliary component

cooling water pump. Paper work to effect this installation is being processed, there has been no physical work accomplished.

This item is open.

(Open) Open Item (382/8420-05): This item is open pending installation of neutron flux indication at the remote shutdown panel prior to startup following the first refueling outage. The licensee also committed to provide a chain fall to manually operate each atmospheric dump valve (ADV) prior to fuel load. During this inspection the NRC inspectors were informed that the licensee had elected to provide local pneumatic operation capability for each ADV in lieu of the chain fall. The work is not complete at this time.

This item is open.

(Open) Open Item (382/8420-06): This item is open pending NRR action on the licensee's deviation requests for numerous fire areas that do not meet Section III.G.2 of Appendix R.

This item is open.

(Open) Open Item (382/8420-07): This item is open pending completion of the licensee's reanalysis of spurious signals on associated circuits.

This item is open.

(Closed) Open Item (382/8420-08): This item was open pending review of the licensee's capability to lockout the breakers for each shutdown cooling isolation valve and issue of the supportive revision to the station procedure. The procedure has been revised and lockout capability was confirmed.

This item is closed.

(Open) Open Item (382/8420-09): This item is open pending installation of additional 8-hour emergency lighting and adjustment of installed units to better illuminate desired areas. This work has not been completed.

This item is open.

(Open) Open Item (382/8420-10): This item is open pending NRR resolution of the reactor coolant pumps oil collection system capacity and routing of the overflow.

This item is open.

(Closed) Open Item (382/8420-11): This item was open pending the licensee's completion of the present re-review of all 1 hour fire barrier wrap required for compliance with 10 CFR 50, Appendix R, Section III.G per

construction completion/rework procedure ASP-IV-140, and reinspection by the NRC.

During this inspection the NRC inspectors reviewed completed construction rework procedure ASP-IV-140 and inspected the areas identified in the previous inspection to insure adequate reinstallation or repair. The areas inspected were the switchgear envelope, the relay room, and the control room heating and ventilation room.

This item is closed.

(Closed) Open Item (382/8420-12): This item was open pending completion of the fire barrier wall located in the relay room, fire zone RAB 7, elevation +35', along the entire west side of the room between the block wall and the ceiling. The NRC inspectors inspected the west side wall of the relay room and found that the wall to ceiling closure and seal had been completed. The NRC inspectors also reviewed completion/rework procedure ASP-IV-140 for the relay room and found no open work items for this area.

This item is closed.

(Closed) Open Item (382/8420-13): This item was open pending the licensee's completion of the present re-review of all silicone foam penetration fire barrier seals per construction/rework procedure ASP-IV-140 and NRC reinspection. During this inspection the NRC inspectors reviewed completed procedure ASP-IV-140 and visually checked fire barrier penetrations for complete and undamaged silicone foam seals in selected areas.

This item is closed.

(Open) Open Item (382/8420-14): This item is open pending resolution by NRR of the fire door variances identified by UL and reported to the NRC in the licensee's submittal of March 26, 1984.

This item is open.

(Open) Open Item (382/8420-15): This item was open pending revision to all fire protection administrative procedures. The licensee elected to cancel all existing procedures and issue a new series, they are:

<u>No.</u>	<u>Title</u>	<u>Rev.</u>	<u>Date</u>
FP-1-013	Fire Protection Program Review	0	6/2/84
FP-1-014	Duties of a Firewatch	0	6/2/84
FP-1-015	Fire Protection System Impairments	0	6/2/84
FP-1-016	Hot Work Activities	0	6/2/84
FP-1-017	Transient Combustibles and Hazardous Materials	0	6/2/84
FP-1-018	Pre-Fire Strategies	0	6/2/84
FP-1-019	Fire Brigade Equipment	0	6/2/84
FP-1-020	Fire Emergency/Fire Report	0	6/2/84
FP-1-021	Fire Barrier Removal and Restoration	0	6/2/84

The NRC inspectors reviewed these procedures and found that they provide the required elements; however, there were still some inconsistencies and differences. These were discussed with a licensee representative and they will be corrected.

This item is open.

(Open) Open Item (382/8420-16): This item is open pending revision of "Housekeeping Procedure" UNT-7-006 to include definitive administrative controls as required by 10 CFR 50, Appendix R, Section III.K.7. The revised procedure has not been issued.

This item is open.

(Open) Open Item (382/8420-17): This item is open pending revision of procedures FP-1-003 and FP-1-004 to clarify disposition of fire brigade equipment, found during locker surveys, to require cleaning, maintenance, or repair. The licensee has cancelled these two procedures and has issued FP-1-019, "Fire Brigade Equipment," and FP-1-020, "Fire Emergency/Fire Report," in their place. The new procedures contain essentially the same information but a discrepancy still exists in FP-1-019 on disposition of defective equipment.

This item is open.

(Open) Deviation (382/8420-18): This item identified the licensee's failure to develop an adequate surveillance procedure to ensure that the minimum inventory of personnel protective equipment is verified. The licensee has issued a new procedure, FP-1-019, "Fire Brigade Equipment," that does provide for the minimum inventory of personnel protective equipment. This deviation will remain open pending receipt of the licensee's response.

This item is open.

(Closed) Open Item (382/8420-19): This item was open because the NRC inspector thought that procedure MM-3-024 dated February 18, 1984, paragraph 8.2.4(3), incorrectly stated the rate of pressure increase, per minute, when hydrostatically testing fire hoses. At the time of the inspection, the licensee's representatives agreed with this position. However, subsequent investigation by the licensee revealed that the rate of pressure increase was correct and had been quoted from NFPA 1962.

This item is closed.

(Open) Deviation (382/8420-20): This item identified the licensee's failure to develop an adequate surveillance procedure to ensure that portable fire extinguishers are verified to be in an acceptable condition. This deviation remains open pending response and action from the licensee.

This item is open.

(Open) Open Item (382/8420-21): This item is open pending revisions to the FSAR and QA manual to clearly identify the QA program for fire prevention/protection that the licensee intends to implement. The revisions are not issued.

This item is open.

(Closed) Open Item (382/8420-22): This item was open pending verification that individuals performing as members of the fire brigade have received the required training. The NRC inspectors verified that all individuals presently on the roster as qualified fire brigade members have met the identified requirements for qualification.

This item is closed.

(Closed) Open Item (382/8420-23): This item was open pending licensee's corrective action to insure the quality of the diesel fuel used by the diesel fire pumps. The NRC inspectors determined that all diesel fuel is received in the main diesel oil storage tank and that each load is sampled prior to transfer to the main tank and periodically thereafter.

This item is closed.

3. Exit Interview

An exit interview was conducted June 15, 1984, with the personnel denoted in paragraph 1 of this report. The NRC resident inspector also attended this meeting. At this meeting the score of the inspection and the findings were summarized.