



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report Nos. 50-338/84-07 and 50-339/84-07

Licensee: Virginia Electric and Power Company
Richmond, VA 23261

Facility Name: North Anna Units 1 and 2

Docket Nos.: 50-338 and 50-339

License Nos.: NPF-4 and NPF-7

Inspector: *T. E. Conlon* *for* 4-18-84
T. D. Gibbons Date Signed

Approved by: *T. E. Conlon* 4-18-84
T. E. Conlon, Section Chief Date Signed
Engineering Branch
Division of Reactor Safety

SUMMARY

Inspection on March 20-23, 1984

Areas Inspected

This routine, unannounced inspection involved 27 inspector-hours on site in the area of Fire Protection/Prevention Program and Implementation.

Results

Of the one area inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *G. E. Kane, Assistant Station Manager
- *S. E. Retza, Supervisor Fire Protection
- *H. H. Doyle, Senior QC Inspector
- *S. B. Eisenhart, Licensing Coordinator

NRC Resident Inspectors

- *M. W. Branch, SRI
- *J. G. Luehman, RI

2. Exit Interview

The inspection scope and findings were summarized on March 23, 1984, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Fire Protection Program (64703)

The Fire Protection Program at the station is detailed in the Fire Protection Manual (FPM) dated October 13, 1982. This manual establishes the program administration and responsibilities for onsite and offsite personnel.

The FPM details the requirements for control of combustibles, welding, cutting, open flame, smoking restrictions, housekeeping, and the fire brigade organization. The yearly and triannual audits are specified in the FPM. The licensee describes the Fire Protection QA Program in detail in the manual. The licensee's General Employee Training Program and the FPM describe the personnel actions required in the event of an actual fire.

The fire fighting strategies for specific plant area are included as appendixes to the FPM.

6. Fire Brigade Organization and Training

The licensee's program for training of the five man fire brigade meets the requirements of 10 CFR 50 Appendix R. The brigade is composed of operations and security personnel, and membership is voluntary.

The inspector reviewed training and drill records and found them adequate. The drill critique is completed for each drill. The licensee has transferred the former construction fire pumper to operations. The pumper is not required by NRC regulations, however this appears to be a valuable addition for training, drills and to provide support in the suppression of fires in areas outside of the plant.

7. Fire Brigade Equipment

The inspector examined the fire brigade equipment in the storage cabinets and found that it is fully adequate and in good condition. There are twelve air packs and twenty four spare bottles in the area. The air packs are stored in bags hanging outside the control room available for use. There is turnout gear stored in the cabinets plus forty sets of turnout gear assigned to individuals and stored in lockers.

8. Shift Crew Composition

The operational shift assignments for the following shifts were examined by the inspector to assure that a five man fire brigade and the minimum shift crew composition meets the Technical Specification.

December 23, 1982	2 Shifts
December 24, 1982	3 Shifts
December 25, 1982	3 Shifts
July 3, 1983	3 Shifts
July 4, 1983	3 Shifts
July 5, 1983	3 Shifts
December 24, 1983	3 Shifts
December 25, 1983	3 Shifts

A sample of five individuals records indicates that the fire brigade assigned were qualified by training, drills and physical examination.

9. Plant Tour (64704)

The inspector conducted a plant tour examining the installed fire protection features and overall housekeeping. The areas examined were the control room, turbine building, and all levels of the auxiliary building. The inspector examined the fire brigade equipment, 2 hose cabinets, and numerous fire extinguishers. The overall housekeeping was good. In the no-smoking area behind the vertical control board some cigarette butts were found. This appears to be caused by the failure to adequately post the areas. The rear entrances do not have no-smoking signs. This will be an Inspector Followup Item 338, 339/84-07-01, Posting of No-Smoking Signs.

10. Surveillance Test Procedures

The inspector examined the following Fire Protection surveillance procedures.

<u>Period</u>	<u>Procedure</u>	<u>Revision</u>	<u>Date</u>	<u>Unit</u>
18 months	1-PT-105.1.4 Fire Protection System - Fire Barriers	5	12-30-83	1 and 2
12 months	1-PT-100.2 Fire Protection Pumps - Annual Test	7	12-21-83	1 and 2
3 years	1-PT-100.6 Fire Protection - Main Fire Loop Flow Test	0	4-26-78	1
12 months	1-PT-101.2 Warehouse 5 Protection Pumps Annual Test	4	2-22-84	1 and 2
92 days	1-PT-103.2 Fire Protection - Two Inch Drain Test	6	12-7-82	1 and 2
6 months	1-PT-104.1 Fire Protection High Pressure CO2 System For Fuel Oil Pumphouse	3	4-7-83	1
18 months	1-PT-104.2.1 Fire Protection Flow Test High Pressure CO2 System	0	11-23-83	1 and 2
3 months	1-PT-105.1.1 Fire Door Inspection, Turbine Building Control Room and Office Area	8	7-20-83	1 and 2
3 months	1-PT-105.1.2 Fire Door Inspection	6	5-18-82	1 and 2
3 months	1-PT-105.1.3 Fire Door Inspection	9	11-30-83	1 and 2
31 days	1-PT-105.2.1 Hose Rack Inspection - Safety-Related	8	5-18-83	1 and 2
31 days	1-PT-105.2.2 Hose Rack and Fire Extinguisher Inspection Service Building, Office Building and Miscellaneous	8	10-05-83	1

31 days	1-PT-105.2.3 Hose Rack and Fire Extinguisher Inspection Visitor Center, Environmental Laboratory, Dam and Switchyard	8	11-18-81	1
31 days	1-PT-105.2.5 Hose Rack and Fire Extinguisher Inspection Turbine Building, Control Room and Health Physics	6	10-13-83	1
31 days*	1-PT-105.2.6 Hose Rack and Fire Extinguisher Inspection Reactor Containment (*Only When Containment is Open)	2	11-18-81	1
31 days	1-PT-105.3 Hose House Inspection	2	3-12-80	1 and 2
31 days	1-PT-105.3.1 Hose Cabinet Inspection	1	5-18-83	1 and 2

11. Surveillance Tests

The inspector examined records of periodic surveillance tests to assure that they were completed as scheduled. The procedures are identified in paragraph 10.

<u>Procedure</u>	<u>Dates Performed</u>
1-PT-104.1	March 16, 1982, September 13, 1982 March 23, 1983, October 10, 1983
1-PT-105.2.1	January 17, 1983, February 16, 1983 March 21, 1983, April 21, 1983 May 23, 1983, June 21, 1983 July 7, 1983
1-PT-100.2	December 13, 1982, March 13, 1984

The inspector noted 1-PT-100.2 had been delayed but was completed within the grace period. The acceptance criteria for 1-PT-100.2 was fully met but the pump curves included in the procedure do not appear to match the pump operational data nor the vendor supplied curves. It appeared that the curves were redrawn incorrectly. This is an Inspector Followup Item 338, 339/84-07-02 Correct Pump Curves for the Fire Pumps.

Within the areas examined there were no violations or deviations identified.