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

Report Nos.: 50-280/78-33 and 50-281/78-33

Docket Nos.: 50-280 and 50-281

License Nos.: DPR-32 and DPR-37

Licensee: Virginia Electric and Power Company
P. O. Box 26666
Richmond, Virginia 23261

Facility Name: Surry Power Station

Inspection at: Surry, Virginia

Inspection conducted: November 6-30, 1978

Inspector: D. J. Burke, Resident Inspector

Approved by: R.C. Lewis 12/19/78
R. C. Lewis, Chief Date
Reactor Projects Section No. 2
Reactor Operations and Nuclear Support Branch

Inspection Summary

Inspection on November 6-30, 1978 (Report Nos. 50-280/78-33 and 50-281/78-33)
Areas Inspected: Routine inspection by the resident inspector of plant operations, Licensee Event Reports, plant physical protection barriers, plant maintenance activities, and previously identified unresolved and open items. The inspection involved 98 inspector-hours by the NRC resident inspector.
Results: No items of noncompliance or deviations were identified in the five areas inspected.

DETAILS I

Prepared by: John Kholdt for 12/19/78
D. J. Burke, Resident Reactor Inspector — Date
Reactor Projects Section No. 2
Reactor Operations and Nuclear Support Branch

Dates of Inspection: November ,30, 1978

Reviewed by: R.C. Lewis 12/19/78
R. C. Lewis, Chief — Date
Reactor Projects Section No. 2
Reactor Operations and Nuclear Support Branch

1. Persons Contacted

Virginia Electric and Power Company

T. L. Baucom, Station Manager - 1
W. L. Stewart, Superintendent, Station Operations - 1/2
J. L. Wilson, Operating Supervisor - 1/2
G. E. Kane, Assistant Operating Supervisor - 1/2
E. P. Dewandel, Administrative Assistant - 1/2
T. A. Peebles, Supervisor, Engineering Services - 1/2
J. Patrick, Supervisor, Mechanical Maintenance
F. L. Rentz, Resident QC Engineer - 1/2
R. E. Nicholls, Supervisor, Electrical Maintenance
R. G. Smith, Health Physics Supervisor
J. Fisher, Fire Marshall
J. Pickworth, Senior Engineering Technician, QC
D. H. Rickeard, Engineering Technician - 2

Several Control Room Operators, Shift Supervisors, Maintenance and records personnel were also contacted.

1/Denotes those present at the management interview on November 17, 1978.
2/Denotes those present at the management interview on November 30, 1978.

2. Licensee Actions on Previous Inspection Findings

(Closed) Unresolved Item (76-10/3): Adequacy of PT 17.3, "Containment Outside Recirculation Spray Pumps," which measures the pump performance based on pump shut off head without measuring flow rate. TS 4.5.A.3 has been amended to require monthly pump flow testing by determining the shut off head of the pumps.

3. Unresolved Items

No new unresolved items were identified.

4. Management Interviews

Management interviews were conducted on November 17 and 30, 1978 with members of station management and other licensee staff members denoted in paragraph 1. The inspector summarized the scope and findings of the inspections. The resident inspector also attended the entrance and exit interviews of the Sandia Labs Review Team on November 13 and 16, 1978, during which safeguards to plant vital areas were discussed, and the entrance and exit interviews of NRC inspector, R. Hennessey (IE:II) on November 15 and 17, 1978.

5. Review of Reportable Occurrence

The inspector reviewed the Reportable Occurrence (RO) reports listed below to ascertain that NRC reporting requirements were being met and to determine the appropriateness of corrective action taken and planned. Certain Licensee Event Reports were reviewed in greater detail to verify corrective action and determine compliance with the Technical Specifications and other regulatory requirements. The review included examination of log books, internal correspondence and records, review of SNSOC meeting minutes, and discussions with various staff members.

Within the areas inspected, no items of noncompliance or deviations were identified.

a. LER 280/78-29, dated October 17, 1978, concerned the failure of one channel of the pressurizer pressure protection instrumentation. The required instrumentation channels were placed in the trip condition until the failed channels were operable. The failure of the recently installed oscillator amplifier were considered a random, isolated occurrence. The licensee had recently installed new, high temperature design, radiation resistant oscillator amplifiers in the pressurizer pressure transmitters to fulfill the committment of the 10 CFR 50, Part 21 Report regarding these transmitters, dated July 28, 1978. The inspector reviewed certain documentation including the post-installation calibration and testing of the components to verify operability. Both the LER and the Part 21 report are considered closed. Although LER 280/78-29 was reviewed by the SNSOC, the meeting minutes did not specifically reference this review. The licensee provided additional documentation which verified that the LER was reviewed and stated that the meeting minutes will be corrected.

b. LER 280/78-35, dated November 21, 1978, concerned possible errors in the Unit 1 and 2 safety injection accumulator levels. An engineering study determined that the actual tank levels are above the instrument indicated levels, and consequently, the maximum volume limits of TS 3.3.A.2 may have been exceeded. The inspector verified that administrative controls were issued to control the accumulator levels within the new, more conservative limits, and that the levels were maintained within these limits. This LER is considered closed.

b. LER 281/78-33, dated October 17, 1978, concerned the operability of circulating water outlet valve 200D. The licensee stated that he would review this LER and consider submitting a supplemental report which would specify the cause code and the final corrective action which applied to this and similar valves (i.e., remove torque switch hold down screw lock washers). This LER remains open pending licensee's review.

c. LER 281/78-37, dated November 14, 1978, addressed the temporary inoperability of Radiation Monitor - 213, which monitors steam generator blowdown as assigned. Adequate corrective actions were taken and the inspector had no further questions. This LER is considered closed.

6. Plant Operations

The inspector toured the Unit 1 and Unit 2 control rooms and certain plant areas to observe that monitoring equipment and plant instrumentation was functioning as required, and that the facility operations were in accordance with the Technical Sepcifications. Plant logs and records were also reviewed. Within the areas inspected, no items of noncompliance or deviations were identified. Specific areas of inspection included:

a. Review of recorder charts of the plant induced circulating water changes for October, 1978.

b. Review of the slight (<10% of allowable of 0.3 gpm) steam generator "C" leak on Unit 1 which developed on November 16, 1978. Since a Unit 1 feedwater regulating valve packing was also leaking, the inspector reviewed HP smear and sample records of areas around the valve leak; no radioactive contamination was found.

c. Review of the Unit 2 0.5 gpm reactor coolant system leak from valve 2-RC-52 packing in B loop. The leak is stable.

d. Followup on alarmed annunciators in the control room. One alarm indicated that the Unit 2 reactor safeguards sump pit A had a high water level alarm on November 13, 1978. Inspection of the safeguard rooms outside containment verified that excessive amounts of ground water had collected on the minus 32 ft. and minus 12 ft. levels; however, since the electrical equipment and valve operators were well above the water level, the components were considered operable. The licensee repaired the sump pump equipment and pumped the water out.

e. Review of the transient fire loading report for the cardboard boxes (containing condenser tubes) stored on the turbine building upper level (58'6" elevation).

f. Review of the Control Room Operator and Shift Supervisor logs for November, 1978.

g. Verification of selected safety injection system valves and components for proper position or control.

h. Review of the chemical and radioactive analysis of the primary and secondary water samples during November.

i. Verification of control room manning in accordance with TS 6.5.B.

j. Verification that plant radiation controls were properly established and that plant housekeeping was in order.

7. <u>Plant Physical Protection</u>

The inspector verified the following by observation:

a. Gates and doors in protected and vital area barriers were closed and locked when not attended.

b. Isolation zones described in the physical security plan were not compromised or obstructed.

c. Personnel were properly identified, searched, authorized, badged, and escorted as necessary for plant access control.

Within the areas inspected, no items of noncompliances or deviations were identified.

8. General Inspection Items

a. While reviewing plant maintenance and testing activities and records, the inspector noted that Periodic Test (PT) 2.26, for calibrating and testing the recently installed RCS Overpressure Mitigating System, had never been completed on Unit 1. The licensee presented test results from Design Change 77-08, "RCS Overpressure Mitigating System", which appeared adequate, and stated that PT 2.26 would be performed to confirm the DC 77-08 test results. (The Unit 1 PT 2.26 was satisfactorily completed on December 4, 1978). The site QC Department had identified several documentation discrepancies in DC 77-08 which are being resolved. The licensee stated that DC 77-08 will be properly completed prior to the issuance of Technical Specifications for the RCS Overpressure Mitigating System. This item remains open pending resolution of the discrepancies in DC 77-08.

b. On November 8, 1978, the inspector visited the local public document room (PDR) for the Surry Nuclear Power Station at the College of William and Mary in Williamsburg, Virginia. The docket files and correspondence appeared to be current and orderly, and were accessible to the public.