UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-280/80-44 and 50-281/80-48

Licensee: Virginia Electric and Power Company
Richmond, VA 23261

Facility Name: Surry Units 1 and 2

Docket Nos. 50-280 and 50-281

License Nos. DPR-32 and DPR-37

Inspection at Surry site near Surry, VA

Inspector: A.D. Johnson for 2/11/81
D. J. Burke Date Signed

Approved by: P.K. Harden for 2/11/81
P. J. Kellogg, Section Chief, RONS Branch Date Signed

SUMMARY

Inspection on December 1-24, 1980

Areas Inspected

This inspection involved 98 (resident) inspector-hours onsite in the areas of plant operations and operating records, plant modifications and maintenance, periodic testing, followup on previously identified items, and plant security.

Results

In the five areas inspected, no violations were identified.

DETAILS

1. Persons Contacted

   Licensee Employees

   *J. L. Wilson, Station Manager
   *G.Kane, Superintendent, Operations
   *R. F. Saunders, Acting Superintendent of Technical Services
   *L. A. Johnson, Superintendent, Maintenance
   R. M. Smith, Health Physics Supervisor
   *F. L. Rentz, Resident QC Engineer

   Other licensee employees contacted during this inspection included control room operators, shift supervisors, QC, HP, plant maintenance, security, engineering, chemistry, administrative records, and contractor personnel.

   *Attended exit interview.

2. Management Interviews

   The inspection scope and findings were summarized on a biweekly basis with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Findings

   a. (Closed) Noncompliance (281/80-37-02) Inoperable main steamline flow instrumentation during Unit 2 operation. Plant personnel were reinstructed on the use of appropriate procedures and documentation, including tagging and jumper log entries. In addition, all valve alignments for the Type A test, and their return to normal, will be documented in the test procedure. The surveillance test procedures are being revised to include signoffs for final system alignment and operability.

   b. (Closed) Noncompliance (281/80-37-03) Failure to perform appropriate tagging or documentation when the main steam line flow instruments were de-energized and isolated. See above closeout (3.a.)

   c. (Closed) Noncompliance (281/80-37-01) Failure to properly revise procedure PT 36 prior to Unit 2 startup. This item was correctly stated as inadequate procedures since the Minimum Equipment Checklist requires a minimum of 387,100 gallons in the RWST, requiring operations personnel to calculate the volume of water in the RWST from the level versus volume chart. Since the RWST level instruments were recalibrated and a new RWST chart was plotted on 8/19/80, the inspector determined that the operators did their best to follow procedures on

8/14/80, when PT 36 indicated that the RWST and CAT were below the required TS levels. On 8/14/80, the Minimum Equipment Checklist was checked off as acceptable when PT 36 identified the inadequate levels.

The corrective actions taken to avoid recurrence were appropriate.

d. (Closed) Noncompliance (281/80-37-04) Failure to promptly report the safety related steam flow instrumentation isolation in accordance with 10 CFR 50.72. The isolation and de-energization of all Unit 2 main steam line flow instruments (6) which are important to safety, prevented automatic isolation of the steam lines for breaks downstream of the isolation valves. Thus, a downstream break, without manual operator action, would have led to the blowdown of all 3 steam generators, which was an unanalyzed event. The corrective actions in the licensee's supplement response were appropriate.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Unit 1 Steam Generator Replacement Project (SGRP)

Unit 1 was shutdown September 14, 1980 for the SGRP due to increasing steam generator tube leakage. The outage is expected to last some eleven months. During the reporting period, the inspector routinely toured the Unit 1 control room, containment, and other plant areas to verify that the plant testing, maintenance, and repairs were being conducted in accordance with the Technical Specifications (TS) and facility procedures.

On December 16, 1980, the inspector observed the setting of the third (last) new SG into place; no problems were encountered. The inspector also followed up on several Health Physics concerns which were reported to the NRC; however, no violations of TS or Regulatory Requirements were identified in the areas inspected. Certain radiation exposures and whole body counts were also reviewed to assure that excessive exposures or airborne radioactivity inhalations had not cocurred; none were identified.

6. Unit 2 Operations

Unit 2 operated at power during the reporting period. During this time, the inspector routinely toured the Unit 2 control room and other plant areas to verify that the plant operations, testing, and maintenance were being conducted in accordance with the facility Technical Specifications (TS) and procedures. Specific areas of inspection and review included the following:

a. Review of annunciated alarms in the control room and inspection of safety-related valve and pump alignments on the console. No violations were identified in the areas inspected.

b. The following periodic tests were reviewed for the period September through December 1980 to verify testing is being performed in accordance with Technical Specifications 4.11-2 and 4.5-1 and to verify the incorporation of acceptance criteria into the procedures:

2-PT-17.1	CONTAINMENT SPRAY SYSTEM
2-PT-17.2	CONTAINMENT INSIDE RECIRCULATION SPRAY PUMP
2-PT-17.3	CONTAINMENT OUTSIDE RECIRCULATION SPRAY PUMP
2-PT-18.1	LO HEAD SI TEST & FLUSHING OF STAINLESS STEEL PIPING
2-PT-18.7	CHARGING PUMP OPERATION & PERFORMANCE
2-PT-18.8	CHARGING PUMP COMPONENT COOLING AND SERVICE WATER PUMP PERFORMANCE TEST.

Within the areas inspected, no violations were identified.

c. On December 23, 1980, the inspector observed some missing insulation on the heat-traced RWST chiller recirculation line and the chemical addition tank recirc piping following piping examination in these areas. The licensee took action to reinsulate the piping lines, and repeat portions of the cold weather protection PT.

7. Emergency Drill

The inspector observed portions of the annual Emergency Drill which was conducted on December 2, 1980. The scenario was a dropped fuel assembly in the fuel building, with personnel injury. A site evacuation was conducted and the offsite agencies notified of the drill. The requirements of the drill were fulfilled.

8. Plant Physical Protection.

The inspector verified the following by obsevation:

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 plans were not compromised or obstructed.

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