



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

Report Nos. 50-280/82-21 and 50-281/82-21

Licensee: Virginia Electric and Power Company  
 P. O. Box 26656  
 Richmond, VA 23262

Facility Name: Surry

Docket Nos. 50-280 and 50-281

License Nos. DPR-32 and DPR-37

Inspection at Surry site near Williamsburg, Virginia

Inspector:

*J. J. Blake*  
 J. J. Blake

*8/16/82*

Date Signed

Approved by:

*N. Economos*  
 N. Economos, Acting Section Chief

*8/16/82*

Date Signed

Engineering Inspection Branch  
 Division of Engineering and Technical Programs

SUMMARY

Inspection on July 27-30, 1982

Areas Inspected

This routine, unannounced inspection involved 27 inspector-hours on site in the areas of licensee action on previous enforcement matters and unresolved items; previously identified inspector follow-up items; inservice inspection and testing program development; and high energy line break program.

Results

Of the areas inspected, no violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*J. Wilson, Station Manager
- R. Driscoll QA Manager
- \*R. Saunders, Assistant Station Manager
- \*L. Curfman, Performance Engineering Supervisor
- \*T. Brombach, NDT Supervisor
- \*F. Rentz, QC Supervisor
- E. Dewandel, Records Management Supervisor
- J. Patrick, Mechanical Foreman
- J. Swientoniewski, Engineering Technician, Technical Analysis & Control
- R. Blount, Performance Engineer
- A. McNeil, Performance Engineer

#### NRC Resident Inspector

- \*D. Burke, SRI
- M. Davis, RI

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on July 30, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

### 3. Licensee Action on Previous Enforcement Matters

- a. (Closed) Infraction (280/79-45-02) Failure to Follow Procedures in Maintenance Operations. VEPCO's letter of response serial no. 749 dated October 4, 1979 has been reviewed and determined to be acceptable by Region II. The inspector reviewed the site maintenance administrative procedures and concluded that VEPCO has provided the mechanism to preclude further non-compliance.
- b. (Closed) Infraction (280/80-35-01) Visual Weld Inspection Procedure. VEPCO's letter of response serial no. 875 dated November 17, 1980, has been reviewed and determined to be acceptable by Region II. VEPCO issued a new NDE manual in December 1981. The new NDE manual and increased attention in the area of NDE should be sufficient to preclude further non-compliance.
- c. (Closed) Unresolved Items (280/79-45-03) Status of Safety Review of Valve Modification. The inspector reviewed what records were available concerning the modification of the check valves. Based on this review

and discussions with site personnel it appears that the addition of a welded seal membrane beneath the check valve cover was a conservative move and therefore was not an unreviewed safety concern.

- d. (Closed) Unresolved Item (280/80-14-02) Weld Repair of Auxiliary Feedwater MOV No. MOV-FW-151D. This item concerned a weld repair on a bearing housing on the operator of the subject motor operated valve. The inspector discussed the repair with the VEPCO maintenance supervisor and, based on this discussion, concluded that the weld repair could not have affected the environmental qualification of the subject motor operator.
- e. (Closed) Unresolved Item (280, 281/80-45-01) Administrative Controls Over Inservice Inspection. The inspector reviewed the licensee's administrative procedures concerning the ISI/IST program implementation and discussed the subject with site management. It appears that there are sufficient controls in place to provide reasonable assurance that the ISI/IST program will be properly conducted.

#### 4. Unresolved Items

Unresolved items were not identified during this inspection.

#### 5. Independent Inspection (92706)

- a. High Energy Pipe Break Program specified in Technical Specification 4.15-A. On October 28, 1980, VEPCO letter no. 862 submitted a proposed Technical Specification change which indicated that seismic reanalysis of the high energy piping had indicated six new break points which must be incorporated into the Technical Specification surveillance program. The sketch forwarded with the proposed change was an update of the existing sketch in the Tech Manual. This sketch is confusing in that the steam and feedwater lines overlap and it is hard to distinguish one break point from the other. The inspector discussed the proposed Technical Specification change with the licensee's technical analysis and control division as well as the nondestructive examination personnel.

The proposed Technical Specification change will be resubmitted after some clarification work is done by the licensee and the Stone and Webster Engineering Personnel. Areas that will be clarified are as follows:

- (1) New sketches will be provided which show each affected line for each of the units.
- (2) The correct number and exact location of the break points will be defined.

These clarifications are required because a review of the reanalysis showed that it was too conservative and that six new break points did not need to be added but a change of location of three of the existing break points was required.

The inspector was shown a copy of a letter from VEPCO to Stone and Webster, dated July 28, 1982, which requested the information necessary to correct the proposed Technical Specification change.

Discussion with the VEPCO NDT Supervisor and review of the ISI records showed that the licensee has been performing Technical Specification required inspections on all 26 Welds identified in the proposed change.

6. Inservice Inspection and Test Program (73051)

The inspector discussed the development of the ISI/IST program for the second 120 month of operation for Surry 1 and 2 with the licensee's performance engineering personnel.

The program appears to be in good shape to meet the required September submittal date for Surry 1.

There were no violations or deviations identified.

7. Inspector Followup Items

The inspector reviewed the following items during this inspection.

- a. (Closed) IFI (280/80-15-01; 281/80-16-01) Inspector to review implementation of final inservice testing program when approved by NRR. The program has not been approved by NRR but the inspector verified by procedure review and discussions with licensee personnel that the program has been implemented.
- b. (Closed) IFI (281/81-11-05) Verification of Weld Stress Analysis. The licensee provided a copy of a Westinghouse letter to VEPCO dated January 3, 1979 which verified that the weld shrinkage from the steam generator repair program had been analyzed. This item is closed.
- c. (Closed) IFI (281/81-11-06) Verification of Seismic Analysis. The inspector was shown correspondence from Stone and Webster which stated that all supports in the reactor coolant system are designed to withstand the design basis earthquake acting simultaneously with an instantaneously applied break. This correspondence was a part of the final report for the evaluation of the steam generator lower ring casting dated February 28, 1980.