



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30303

Report Nos.: 50-280/78-31 and 50-281/78-31

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 Units 1 and 2

Inspection at: Surry Power Station, Surry, Virginia

Inspection conducted: October 16-19, 1978

Inspector: J. L. Skolds

Approved by: R. C. Lewis  
R. C. Lewis, Chief  
Reactor Projects Section No. 2  
Reactor Operations and Nuclear Support Branch

11/15/78  
Date

Inspection Summary

Inspection on October 16-19, 1978 (Report Nos. 50-280/78-31 and 50-281/78-31)

Areas Inspected: Routine unannounced inspection of maintenance; followup of licensee event report and followup of previous enforcement matters. The inspection involved 26 hours on site by one NRC inspector.

Results: Of the three areas inspected, no items of noncompliance or deviations were identified.

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DETAILS I

Prepared by: John Skolds  
J. L. Skolds, Reactor Inspector  
Reactor Projects Section No. 2  
Reactor Operations and Nuclear  
Support Branch

11/15/78  
Date

Dates of Inspection: October 16-19, 1978

Reviewed by: R. C. Lewis  
R. C. Lewis, Chief  
Reactor Projects Section No. 2  
Reactor Operations and Nuclear  
Support Branch

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1. Persons Contacted

Virginia Electric and Power Company (VEPCO)

- \*T. L. Baucom, Station Manager
- \*W. L. Stewart, Superintendent, Station Operations
- \*R. E. Nicholls, Supervisor, Electrical Maintenance
- \*D. S. Taylor, Supervisor, Mechanical Maintenance
- \*L. A. Johnson, Supervisor, Engineering Services
- \*F. L. Rentz, Station Resident Quality Control Engineer
- \*W. E. Snoberger, Assistant Supervisor, Instrument Maintenance
- \*M. D. Tower, Supervisor, QA, Operations and Maintenance
- \*J. L. Wilson, Operating Supervisor
- \*E. P. Dewandel, Administrative Assistant

\*Denotes those present at exit interview.

2. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (280/281/78-16-06): Failure to follow procedure while performing safety related maintenance. The inspector reviewed completed safety related maintenance procedures and verified that personnel signing the procedure were the same personnel performing the work.

3. Unresolved Items

None identified during this inspection.

4. Exit Interview

The inspector met with licensee representatives as indicated in paragraph 1 at the conclusion of the inspection on October 19, 1978. The inspector summarized the scope and findings of the inspection and discussed the open items.

5. Maintenance

The following safety related maintenance documentation was reviewed:

<u>MR No.</u>	<u>Title</u>
S2801291852	Low alarm (CH-358)
S280172670	Replace check valve
S1802161316	Change Capacitors & Clean
S1802161318	Change Capacitors & Clean (Battery Charger)
S1804030715	Noise in #1 DG
S1804190815	PMS on Static Inverters
S1804201207	Install/Remove Primary Manway
S1804201307	Body to Bonnet Leak
S1804241151	Excessive Leakage during PT 16.4
S1804242200	Valve Leaks by Seat
S1804250400	Valve Leaks through (MOV 1286A)
S1804250401	Valve Leaks through (MOV 1286C)
S1805110724	Body to Bonnet Leak & Repack (HCV-1311)
S1805111430	Repack and Replace Gland Studs (MOV 1700)
S1805151404	Replace Body to Bonnet Gasket SI-91

S1805160900	Replace Valve (MOV-1869B)
S2805251901	Repair circuit on panel 11-4C
S1806190720	Leaking Relief valve (RV-1203)
S1806201700	Repack MOV-RH-100
S1806292340	Discharge Flange Leaking
S1807011300	Find Block in BIT Recirc
S2807011521	Valve Difficult to Operate (2-CH-208)
S1807012301	Repair HT
S2807091335	Replace Bonnet (1-CH-94)
S1807260100	Rebuild GAST Vacuum Pump
S1808241830	Valve body leaking (BR-203)
S10181610	Replace Diaphragm (1-CH-309)

The maintenance was reviewed to verify that:

- The limiting condition for operation was met while components or systems were removed from service for maintenance
- The maintenance activities were accomplished using approved procedure by qualified personnel
- The maintenance activities were functionally tested or calibrated as necessary prior to returning the component or system to service
- The required administrative approvals were obtained prior to initiating maintenance activities
- The maintenance activities were inspected in accordance with the licensee's requirements

The inspector used one or more of the following acceptance criteria for the above items:

- ANSI 18.7-1972
- Technical Specifications

- Nuclear Power Station Quality Assurance Manual
- Topical Report, Quality Assurance Report (VEP-1-3A)
- Regulatory Guide 1.33

Findings were acceptable with the exception of the items noted below.

- a. Maintenance Procedure MMP-C-V-001.1 (General Valve Maintenance - Grinnell Valves) was reviewed by the inspector. It was noted that the procedure utilized Quality Control Inspection sheets to accomplish certain checks in the procedure. Examples of these checks included inspecting the valve for cleanliness, checking to insure insulation is not covering the bonnet and that heat tape was removed from the bonnet. The activities documented on the QC Inspection sheets did not constitute a Quality Control inspection and, therefore, in many cases the same person performing the maintenance also performed the inspection for cleanliness, insulation and heat trace. The inspector felt that continued use of the QC Inspection sheets to document non-QC activities could lead to a situation where the same person that performs the maintenance would also perform a QC Inspection. This item will remain open (78-31-01) pending inspection of additional safety related maintenance.
  - b. Section 17.2.6 of the Quality Assurance Program Topical Report (VEP-1-3A) states that a copy of the maintenance report for safety related maintenance is sent to the Quality Control staff for notification purposes. The QC staff may then initiate an audit program as necessary. At present, a computerized system for recording maintenance is in effect and a copy of the maintenance report is not being sent to QC. The QC staff is being notified prior to the commencement of all safety related maintenance. This item will remain open (78-31-02) pending future inspection of the Topical Quality Assurance Report.
6. Review of Nonroutine Events Reported by the Licensee

The inspector reviewed licensee actions with respect to the following listed nonroutine event reports to verify that the events were reviewed and evaluated by the licensee as required by Technical Specifications, that corrective action was taken by the licensee and that safety limits, limiting safety system settings and limiting conditions for operation were not exceeded. The inspector examined selected Operations Committee meetings, licensee investigation reports, logs, records, and interviewed selected personnel.

- a. Control Room Emergency Air Supply Leak LER 78-15, Unit 2  
No items of noncompliance or deviations were identified.
- b. Heat Tracing Circuit Failure LER 78-16, Unit 2  
No items of noncompliance or deviations were identified.
- c. Accumulator Low Level, LER 78-22, Unit 1

Upon reviewing this LER, the inspector noted that the maintenance report generated due to the faulty relief valve indicated that the relief valve was replaced with a new valve. The LER states "The hydro test pump and relief valve were vented and checked for set point. Subsequent test of the relief and pump was satisfactory." This statement in the LER indicates that the relief valve that originally failed was tested and placed back in the system. Actually, a new valve was placed in the system as the Maintenance Report stated. The licensee committed to send a revised LER (78-31-03).