



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

Report Nos. 50-280/79-42 and 50-281/79-62

Licensee: Virginia Electric and Power Company  
Richmond, Virginia 23261

Facility Name: Surry Nuclear Station Units 1 and 2

Docket Nos. 50-280 and 50-281

License Nos. DPR-32 and DPR-37

Inspection at Surry Nuclear Station near Mineral, Virginia

Inspector:

A. L. Cunningham  
A. L. Cunningham

8/10/79  
Date Signed

Approved by:

J. W. Hufham for  
J. W. Hufham, Section Chief, FF&MS Branch

8/10/79  
Date Signed

SUMMARY

Inspection on July 16-18, 1979

Areas Inspected

This routine unannounced inspection involved 20 inspector-hours onsite in the areas of nonradiological environmental protection including review of program audit; fish impingement monitoring; review of environmental events and LERs; review of thermal discharge; status review of biological monitoring program; and physicochemical monitoring.

Results:

Of the six areas inspected, no apparent items of noncompliance or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*W. L. Stewart, Station Manager
- \*T. Peebles, Superintendent, Technical Services
- \*D. G. Kreter, Station Biologist
- \*O. J. Costello, Administrative Assistant
- \*J. L. Wilson, Superintendent, Operations

#### NRC Resident Inspector

- \*D. J. Burke

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on July 18, 1979, with those persons indicated in Paragraph 1 above.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Unresolved Item (50-280/78-6-1 and 50-281-78-6-1): Alternative Fish Impingement Monitoring. Inspection disclosed that an alternative fish impingement monitoring method scheduled for use during malfunction and or repair of the low level intake was included in revised Technical Specification 4.13.E.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Environmental Program Audit

A detailed review of Quality Assurance Audit Report No. 78-11 was included in the inspection. The subject audit was confined to radiological and nonradiological monitoring. The audit disclosed that the operational monitoring program was adequately administered and was consistent with regulatory requirements. No apparent discrepancies were reported.

### 6. Biological Monitoring Program

The inspector reviewed and audited records, data and reports on biological monitoring requirements of Technical Specification 4.13.B for the period March 1, 1978 through July 1, 1979. The parameters reviewed included plankton (phytoplankton, zooplankton), attached benthic communities, epibenthos, nekton, and ichthyoplankton. Inspection disclosed that all parameters were monitored as required.

7. Physicochemical Monitoring

- a. The inspector reviewed and audited records, data and reports on thermal and salinity monitoring requirements of Technical Specification 4.13.A for the period March 1, 1978 through July 1, 1979. Inspection disclosed that thermal data was routinely recovered from estuarine monitoring stations depicted in Figure 4.13-1 of the specifications. Inspection also disclosed that the thermal discharge limit assigned for station cooling water was not exceeded during the above period.
- b. Technical Specification 4.13.A.2 assigns the maximum limit between river water ambient temperature at the station high level intake and cooling water at the discharge control structure. Review of records, data and charts disclosed that the limit was exceeded on February 8, 1979; however, the incident occurred during emergency conditions consistent with those defined in Technical Specification 4.14.B.1. The inspector reviewed the licensee's deviation report addressing the subject incident. There were no questions concerning this item.

8. Impingement Monitoring and Fish Sampling

- a. Revised Technical Specification 4.13.E requires impingement monitoring at the low level intake screens once weekly. The inspector reviewed fish impingement records and reports including the Annual Environmental Report for the period ending December 31, 1978. Inspection disclosed that monitoring was implemented as required.
- b. The subject Technical Specification also includes an alternative method of impingement sampling during periods of low level intake screens malfunction or breakdown due to unusual natural conditions, e.g., icing. Provision of this alternative satisfied the required corrective action in response to unresolved items 50-280/78-06-01 and 50-281/78-06-01 addressing alternative fish impingement methods for use during periods of intake screens loss or malfunction. The referenced unresolved item was closed out.

9. LERs and Deviation Reports

Inspection included a review of LERs and Deviation Reports. Inspection disclosed two LERs, viz 78-19 and 78-23 which involved elevated delta T. Inspection also disclosed six events involving the 3°F per hour rate change in cooling water temperature at the discharge control structure (Technical Specification 4.14.A.3) during the period September 9, 1978 through February 18, 1979. These items were discussed with licensee representatives and were closed out by the inspector.