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Docket Nos.: 50-280  
and 50-281

Virginia Electric and Power Company  
ATTN: Mr. Stanley Ragone  
Senior Vice President  
P. O. Box 26666  
Richmond, Virginia 23261

*Post*  
*Am-10*  
*Ch-25*  
*DPR-32*

Gentlemen:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 10 to License Nos. DPR-32 and DPR-37 for Surry Power Station Units 1 and 2, respectively, based on Change No. 25 to Technical Specifications Appendix A.

The amendments make administrative changes to Technical Specification Section TS 4.13, Nonradiological Environmental Monitoring Program, to improve continuity and clarity and to update organizational designations as follows:

1. Incorporate subparagraph 4.13.A.8 to follow 4.13.A.7.
2. Incorporate subparagraph 4.13.B.5 to follow 4.13.B.4.
3. Change NRC organizational designations in subparagraphs 4.13.D and 4.13.E.

These changes are in connection with your request dated July 17, 1975.

The Commission has evaluated the potential impact of operating the plant in accordance with the amendments and has concluded that there will be no change in effluent types or total amounts nor an increase in power level, as previously evaluated in the Final Environmental Statements for Surry Power Station Units 1 and 2 dated June 1972, and will not result in any significant environmental impact. The amendments provide administrative changes only and provide clarification of the environmental monitoring program for Surry Power Station. Having made this determination, the Commission has further concluded, pursuant to 10 CFR 51.5(d)(4), that an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

OFFICE →						
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The amendments address administrative changes only and do not involve new safety information of a type not considered by a previous Commission review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin of the facility, and therefore do not involve significant hazards considerations. The Commission has also concluded there is reasonable assurance that health and safety of the public will not be endangered by this action.

Also enclosed for your information is the related notice which has been sent to the Office of the Federal Register for publication.

bcc: H. J. McAlduff  
J. R. Buchanan, ORNL  
T. B. Abernathy, DTIE  
A. Rosenthal, ASLAB  
N. H. Goodrich, ASLBP

Sincerely,

*/s/*

Robert W. Reid, Chief  
Operating Reactors Branch No. 4  
Division of Reactor Licensing

Enclosures:

1. Amendment No. 10 to DPR-32 and DPR-37
2. Federal Register Notice

cc: Michael W. Maupin, Esq.  
Hunton, Williams, Gay & Gibson  
P. O. Box 1535  
Richmond, Virginia 23212

Mr. M. Sherlock-Holmes  
Chairman  
Board of Supervisors of Surry  
County  
Surry County Courthouse  
Surry, Virginia 23083

Mr. Robert Blanco  
Environmental Protection Agency  
Curtis Building  
6th & Walnut Streets  
Philadelphia, Pennsylvania 19106  
w/encl. and incoming

Ms. Susan T. Wilburn  
Commonwealth of Virginia  
Council on the Environment  
P. O. Box 790  
Richmond, Virginia 23206  
w/encl. and incoming

Mr. Neill Thomasson  
ATTN: Loretto Long  
Office of Radiation Programs  
Environmental Protection Agency  
Waterside Mall, Rm. 6477, East Tower  
401 M Street, S. W.  
Washington, D. C. 20460  
w/encl. and incoming

\*see previous yellow for concurrence.

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VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-280

SURRY POWER STATION UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 10  
License No. DPR-32

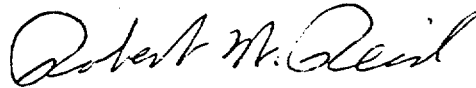
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated July 17, 1975, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations; and
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B of Facility License No. DPR-32 is hereby amended to read as follows:

"B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 25."

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief  
Operating Reactors Branch No. 4  
Division of Reactor Licensing

Attachment:  
Change No. 25 to the  
Technical Specifications

Date of Issuance: SEP 17 1975

ATTACHMENT TO LICENSE AMENDMENT NO. 10  
CHANGE NO. 25 TO THE TECHNICAL SPECIFICATIONS  
FACILITY OPERATING LICENSE NO. DPR-32  
VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION UNIT 1  
DOCKET NO. 50-280

Revise Appendix A as follows:

1. Remove pages 4.13-3, 4.13-5 and 4.13-6.
2. Insert revised pages 4.13-3, 4.13-5 and 4.13-6.

of analytical methods that are sensitive to chlorine at concentrations much less than the concentration required for control and that will differentiate among the various chlorine containing compounds which constitute the residual chlorine. The concentration of residual chlorine at the point of discharge to the James River shall not be greater than 0.1 mg/liter.

8. Records shall be kept of chemical releases to the cooling water system and a summary of this data shall be included in the semiannual reports described in 4.13 D.

25

B. A biological monitoring program that is closely related to the physical and chemical monitoring programs shall be conducted to determine the planktonic, nektonic, and benthic characteristics of the tidal segment centered at Hog Island and to determine biological changes that occur as a result of the operation of the Surry Power Station.

1. Plankton - Water samples for plankton analyses shall be collected at each of six (6) stations as indicated in TS Figure 4.13-2. Samples shall also be collected in the intake and discharge canals.
  - a. Phytoplankton samples shall be analyzed quantitatively in terms of sample volume to determine both the dominant genera of the community and the chlorophyll "a" content. The samples shall be taken at monthly intervals.
  - b. Zooplankton samples shall be analyzed quantitatively in terms of sample volume to determine generic composition, life history stage, and, where possible, species. The sampling interval shall be approximately monthly, taking into consideration life-history information about important species in the area which have planktonic stages in their life histories.

life history distribution information that indicates when species of special interest are likely to be in or passing through this segment of the estuary. The species of special interest shall include Anchovy, Atlantic Menhaden, Blueback Herring, Channel Catfish, Atlantic Croaker, Spot, Striped Bass, and White Perch. The samples shall be analyzed for species composition, size, and life history stages.

5. Planktonic organisms, such as fish eggs, larvae and invertebrate larvae (both meroplanktonic and holoplanktonic), and post-larval and juvenile fish, or the motile food organisms (such as shrimp) on which these young fish feed, shall be sampled periodically in the intake and discharge canals, at locations within the thermal plume, and in a control area outside the thermal plume. The resulting data shall be analyzed to determine the cooling system passage and entrainment effects of station operation and a summary included in the semi-annual reports described in 4.13 D. 25
- C. The programs described in Specifications A and B shall commence on the day Unit No. 1 is licensed to operate. Where installation of monitoring stations and/or purchase of equipment is necessary and/or involves authorization by other agencies, the affected portion of the program shall be implemented at the earliest practicable time, but not later than December 31, 1972.
- D. The data obtained from the programs defined in Specifications A and B shall be analyzed as they are collected and shall be compared with model and analytical predictions and with preoperational data. A report of the results of this evaluation shall be forwarded to the Division of Reactor Licensing (DRL) at the end of each six month period or fraction thereof terminating on June 30 and December 31. Such reports are due within 60 days after the end of each reporting period and shall be submitted with the Routine Operating Report described in Technical Specification 6.6. 25

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A final report summarizing the results of the program shall be submitted sixty (60) days following the third anniversary of the date Unit No. 2 is licensed to operate. If on the basis of such semi-annual and final reports it is established that no major adverse environmental impact has resulted or is likely to result from continued operation of Unit Nos. 1 and 2 then the program shall be terminated. Otherwise it shall continue until a semiannual report does establish that no impact has resulted or is likely to result. If on the basis of any semiannual report or the final report it is established that the results of the monitoring program are inconclusive, either whole or in part, the licensee shall propose reasonable changes to the program designed to yield conclusive results and implement such changes when they are approved by DRL.

- E. Fish killed on the traveling screens at the station or by operating effects of the Surry Power Station shall be identified by species, size, and quantity, and the data shall be recorded in tabular form. These data shall be transmitted to DRL semiannually. Significant mortalities of fish that may be related to operation of the station shall be reported to Region II, Office of Inspection and Enforcement, within 24 hours. Data concerning significant fish mortalities and the probable cause shall be included in a more detailed report to DRL within 10 days.

#### Basis

Excess temperature distributions and alteration of density flows in the tidal segment have been predicted from data developed from model studies for two-unit operation. Surface isotherms for wind conditions of 5 MPH have been plotted for different stages in the tidal cycle. The data collected under

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-280, 50-281

VIRGINIA ELECTRIC AND POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY

OPERATING LICENSES

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 10 to Facility Operating License Nos. DPR-32 and DPR-37 issued to Virginia Electric and Power Company which revised Technical Specifications for operation of the Surry Power Station Units 1 and 2, located in Surry County, Virginia. The amendments are effective as of the date of issuance.

The amendments make administrative changes to Technical Specification Section TS 4.13, Nonradiological Environmental Monitoring Program, to improve continuity and clarity and to update organizational designations.

The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. The Commission has evaluated the potential impact of operating the plant in accordance with the amendments and has concluded that there will be no change in effluent types or amounts nor an increase in power level, as previously evaluated in the Final Environmental Statement

for Surry Power Station Units 1 and 2 dated June 1972, and will not result in any significant environmental impact. Having made this determination, the Commission has further concluded pursuant to 10 CFR 51.5(d)(4), that an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments. Prior public notice of these amendments is not required since the amendments do not involve a significant hazards consideration.

For further details with respect to this action, see (1) the application for amendment dated July 17, 1975, (2) Amendment No. 10 to License Nos. DPR-32 and DPR-37 with Change No. 25. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., 20555, and at the Swem Library, College of William and Mary, Williamsburg, Virginia, 23185.

A copy of item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C., 20555, Attention: Director, Division of Reactor Licensing.

Dated at Bethesda, Maryland, this 17th day of September 1975.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief  
Operating Reactors Branch No. 4  
Division of Reactor Licensing