Mr. W. L. Stewart Senior Vice President - Nuclear Virginia Electric and Power Company 5000 Dominion Blvd. Glen Allen, Virginia 23060

Dear Mr. Stewart:

SUBJECT: SURRY UNIT 2 - ISSUANCE OF AMENDMENT RE: INSPECTION OF LOW PRESSURE TURBINE BLADES (TAC NO. 79761)

The Commission has issued the enclosed Amendment No. 152 to Facility Operating License No. DPR-37 for the Surry Power Station, Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application transmitted by letter dated February 15, 1991.

This amendment allows a one-time change to the inspection interval for the low pressure turbine blades from the April 1991 refueling outage to the 1993 refueling outage.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

(Original signed by)

Bart C. Buckley, Senior Project Manager Project Directorate II-2 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 152 to DPR-37

2. Safety Evaluation

cc w/enclosures:
See next page

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DATED: April 11, 1991
AMENDMENT NO.152 TO FACILITY OPERATING LICENSE NO. DPR-37 - SURRY UNIT 2

NRC & Local PDRs PDII-2 Reading S. Varga, 14/E/4 G. Lainas, 14/H/3 H. Berkow D. Miller B. Buckley OGC-WF D. Hagan, 3302 MNBB E. Jordan, 3302 MNBB B. Grimes, 9/A/2
G. Hill (4), P-137
Wanda Jones, P-130A
J. Calvo, 11/F/23
J. Tsao, 7/D/4
CY CHeng, 7/D/4
ACRS (10) GPA/PA OC/LFMB Surry File M. Sinkule, R-II Others as required

cc: Plant Service list

Mr. W. L. Stewart Virginia Electric and Power Company

cc: Michael W. Maupin, Esq. Hunton and Williams Post Office Box 1535 Richmond, Virginia 23212

Mr. Michael R. Kansler, Manager Surry Power Station Post Office Box 315 Surry, Virginia 23883

Senior Resident Inspector Surry Power Station U.S. Nuclear Regulatory Commission Post Office Box 166, Route 1 Surry, Virginia 23883

Mr. Sherlock Holmes, Chairman Board of Supervisors of Surry County Surry County Courthouse Surry, Virginia 23683

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## UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

#### VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-281

SURRY POWER STATION, UNIT NO. 2

#### AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.152 License No. DPR-37

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated February 15, 1991, 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;
  - 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; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- 2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-37 is hereby amended to read as follows:

### (B) <u>Technical Specifications</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 152, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Herbert N. Berkow, Director Project Directorate II-2

Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: April 11, 1991

### ATTACHMENT TO LICENSE AMENDMENT

# AMENDMENT NO. 152 FACILITY OPERATING LICENSE NO. DPR-37 DOCKET NO. 50-281

Revise Appendix A as follows:

Remove Page

TS 4.2-5

Insert Page

TS 4.2-5

• 3

(p.7, p.10)

**TABLE 4.2-1** 

## SECTION A. MISCELLANEOUS INSPECTIONS

<u>ltem No.</u>	Required Examination Area	Required Examination Methods	Tentative Inspection <u>During 10-Year Interval</u>	Remarks
1.3	Primary Pump Flywheel	See remarks	See remarks	Examination to be conducted in accordance with regulatory position C.4.b of regulatory guide 1.14 Rev. 1, August 1975
1.4	Low Pressure Turbine Rotor	Visual and Magnetic Particle or Dye Penetrant	100% of blades every 5 years*	None
SECTION B. S	ENSITIZED STAINLESS ST	EEL		
2.1.1	Circumferential and longitudinal pipe welds and branch pipe connections larger than 4 inches in diameter	Visual and Volumetric	By the end of the interval, a cumulative 75% of the circumferential welds in the piping system would have been examined, including one foot on any longitudinal weld on either side of the butt welds	A minimum of 5% of the welds will be examined every 1-2/3 years (generally each normal refueling outage). See Transcript of Hearing (pp. 303-304) and Initial Decision (p. 7, p.10)
2.1.2	Circumferential and longitudinal pipe welds and branch pipe connections	Visual	By the end of the interval, a cumulative 100% of the welds and pipe branch connections would be examined a minimum of three times	A minimum of 50% of the welds will be examined every 1-2/3 years (generally, each normal refueling outage). See Transcript of Hearing (pp. 303-304) and Initial Decision

For Unit 2, the 5 year inspection schedule can be extended until the Cycle 11 refueling outage. The 5 year inspection schedule for Unit 2 will be reinitiated following the Cycle 11 refueling outage.



# UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

# SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION RELATED TO AMENDMENT 152 TO FACILITY OPERATING LICENSE NO. DPR-37

#### VIRGINIA ELECTRIC AND POWER COMPANY

#### SURRY POWER STATION UNIT 2

**DOCKET NO. 50-281** 

#### 1.0 INTRODUCTION

By letter dated February 15, 1991, the Virginia Electric and Power Company (the licensee) requested an amendment change to the Surry Unit 2 Technical Specifications (TS). The licensee requested an extension of the inspection interval for the low pressure turbine blades from the April 1991 refueling outage to the 1993 refueling outage.

#### 2.0 EVALUATION

The Surry Unit 2 TS 4.2-5 requires inspection of low pressure turbine blades every 5 years. With this schedule, the turbine blades should be inspected during the April 1991 refueling outage. However, Surry Unit 2 experienced extended outages in 1987 and 1989, such that the total turbine operating time will only be 46 months by the 1991 refueling outage. A turbine rotor inspection is scheduled during the 1993 refueling outage; therefore, the licensee requested to extend the turbine blade inspection to 1993 to coincide with the turbine rotor inspection. This extension will increase the blade inspection interval to eight calendar years but only 66 turbine operating months since the last inspection in 1985.

In 1985, the licensee refurbished the low pressure turbines with new rotors and blades. The turbine manufacturer, Westinghouse, has calculated a blade inspection interval of 100 turbine operating months using the NRC-approved methodology. The 66-month inspection interval is well within the recommended inspection interval.

#### 3.0 SUMMARY

The staff concludes that the one-time extension of the turbine blade inspection to 1993 refueling outage for Surry Unit 2 is acceptable because the proposed 66-month inspection interval is well within the manufacturer-calculated inspection interval. The requested extension is, therefore, being incorporated into the Surry Unit 2 Technical Specifications.

#### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Virginia State official was notified of the proposed issuance of the amendment. The State official had no comment.

#### 5.0 ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes a surveillance requirement. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding (56 FR 9389). Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

#### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Tsao

Date: April 11, 1991