

April 13, 1990

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 1 - ISSUANCE OF AMENDMENT RE: VISUAL AND FUNCTIONAL INSPECTIONS OF SNUBBERS (TAC NO. 75765)

The Commission has issued the enclosed Amendment No. 139 to Facility Operating License No. DPR-32 for the Surry Power Station, Unit No. 1. The amendment consists of changes to the Technical Specifications in partial response to your application transmitted by letter dated January 8, 1990. The balance of your application is still under review.

This amendment modifies Technical Specification 4.17 on a one-time basis to allow deferral of visual and functional inspections of snubbers until the end of Cycle 10, currently projected for October 1990. In the event that the Cycle 10 refueling outage is delayed by more than 2 months beyond the current projection of October 1990, this approval for deferral would become invalid and you would have to seek new approval.

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. 139 to DPR-32
- 2. Safety Evaluation

cc w/enclosures:

See next page

*See previous concurrence

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

Surry Power Station

cc:

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

Attorney General
Supreme Court Building
101 North 8th Street
Richmond, Virginia 23219

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

Mr. E. Wayne Harrell
Vice President - Nuclear Operations
Virginia Electric and Power Company
5000 Old Dominion Blvd.
Glen Allen, Virginia 23060

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

Mr. J. P. O'Hanlon
Vice President - Nuclear Services
Virginia Electric and Power Company
5000 Old Dominion Blvd.
Glen Allen, Virginia 23060

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

Mr. R. F. Saunders
Manager - Nuclear Licensing
Virginia Electric and Power Company
5000 Old Dominion Blvd.
Glen Allen, Virginia 23060

Mr. W. T. Lough
Virginia Corporation Commission
Division of Energy Regulation
Post Office Box 1197
Richmond, Virginia 23209

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, Georgia 30323

C. M. G. Buttery, M.D., M.P.H.
Department of Health
109 Governor Street
Richmond, Virginia 23219

DATED: April 13, 1990

AMENDMENT NO. 139 TO FACILITY OPERATING LICENSE NO. DPR-32 - SURRY UNIT 1

Docket File
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), P1-137
Wanda Jones, P-130A
J. Calvo, 11/F/23
J. Rajan, 9/H/3
ACRS (10)
GPA/PA
OC/LFMB
M. Sinkule, R-II
Others as required

cc: Plant Service list



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

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-280

SURRY POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 139
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 January 8, 1990, 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-32 is hereby amended to read as follows:

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(B) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 139, 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



for

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 13, 1990

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 139 FACILITY OPERATING LICENSE NO. DPR-32

DOCKET NO. 50-280

Revise Appendix A as follows:

Remove Pages

TS 4.17-2
TS 4.17-3

Insert Pages

TS 4.17-2
TS 4.17-3

<u>No. Inoperable Snubbers Per Inspection Period</u>	<u>*Subsequent Visual Inspection Period</u>
0	18 months \pm 25%
1	12 months \pm 25% #
2	6 months \pm 25%
3, 4	124 days \pm 25%
5, 6, 7	62 days \pm 25%
8 or more	31 days \pm 25%

2. The snubbers may be categorized into two groups: Those accessible and those inaccessible during reactor operation. Each group may be inspected independently in accordance with the above schedule.

B. Visual Inspection Acceptance Criteria

1. Visual inspections shall verify:
 - a. That there are no visible indications of damage or impaired operability,
 - b. Attachments to the foundation or supporting structure are secure, and
 - c. In those locations where snubber movement can be manually induced without disconnecting the snubber, that the snubber has freedom of movement and is not frozen up.

* The inspection interval shall not be lengthened more than one step at a time.

The current inspection period for Unit 1 may be extended to the Cycle 10 refueling outage but shall expire no later than December 31, 1990.

2. Snubbers which appear inoperable as a result of visual inspections may be determined operable for the purpose of establishing the next visual inspection interval, providing that the cause of the rejection is clearly established and remedied for that particular snubber and for other snubbers that may be generically susceptible and the affected snubber is functionally tested in the as-found condition and determined operable per Specification 4.17-D or 4.17-E, as applicable.
3. When the fluid port of a hydraulic snubber is found to be uncovered, the snubber shall be determined inoperable and cannot be determined operable via functional testing for the purpose of establishing the next visual inspection interval. All snubbers connected to an inoperable common hydraulic fluid reservoir shall be counted as inoperable snubbers.

C. Functional Tests

1. At least once per 18 months during shutdown, a representative sample of 10% of the total of each type of snubber used in the plant shall be functionally tested either in place or in a bench test. #
2. The representative sample selected for functional testing shall include the various configurations, operating environments and the range of size and capacity of snubbers. This representative sample shall not, to the extent practicable, include those snubbers tested in a previous representative sample.
3. At least 25% of the snubbers in the representative sample shall include snubbers from the following three categories:
 - a. The first snubber away from each reactor vessel nozzle
 - b. Snubbers within 5 feet of heavy equipment (valve, pump, turbine, motor, etc.)

The Unit 1 function inspection period can be extended until the Cycle 10 refueling outage but shall expire no later than December 31, 1990.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 139 TO FACILITY OPERATING LICENSE NO. DPR-32

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION, UNIT NO. 1

DOCKET NO. 50-280

1.0 INTRODUCTION

By letter dated January 8, 1990, Virginia Electric and Power Company (VEPCO) proposed to amend the Facility Operating License No. DPR-32 for the Surry Power Station, Unit 1. One of the requested changes in the proposed amendment would modify Technical Specification (TS) 4.17 to allow deferral of visual and functional inspections of snubbers until the end of Cycle 10, currently projected for October 1990. Visual inspections are performed on a 1-year frequency, with the next inspection due on or before September 19, 1990 (1-year plus 25% grace). Functional inspections are performed on an 18-month frequency, with the next inspection due on or before April 17, 1990 (18 months plus 25% grace). Absent the approval of the proposed amendment VEPCO would have to shut down Surry, Unit 1 prior to April 17, 1990 to conduct the aforementioned inspections.

2.0 EVALUATION

Surry Unit 1 was shut down for refueling April 9 through July 18, 1988. In September 1988, the unit was shut down again for an extended maintenance outage which lasted 299 days (approximately 10 months). During the refueling outage, accessible and inaccessible snubbers were visually inspected with no inoperable snubbers identified. A 10% sample of each snubber type was also functionally tested with no failures identified. The snubbers were visually inspected twice again during the subsequent extended maintenance outage. One snubber was found with a low fluid level due to minor leakage during the first inspection and no failures were identified during the second inspection conducted prior to the Unit 1 startup (July 1989). Based upon the previous inspection results, the next visual inspection is due September 19, 1990 (12 month +25%) and the next functional inspection is due April 17, 1990 (18 months +25%). It is the licensee's assessment that the snubber's seal life would not be exceeded with the extended operation. Based on information available to the staff relative to VEPCO's maintenance history program, the staff concurs with this assessment.

Based on a review of the visual inspection and functional test results, the proposed delay in performing these inspections is considered acceptable. The Code Committee for the ASME standard on surveillance requirements for snubbers, O&M-4, is also proposing a similar generic relief based on previous inspection results at various facilities. The NRC staff has reviewed the statistical basis for such relief and finds that as a result of this deferral of the snubber inspections there is no reduction in the margin of safety.

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3.0 SUMMARY

We have concluded, based on staff review and on the considerations discussed above, that there is reasonable assurance that the health and safety of the public will not be endangered by granting relief on a one-time basis to the licensee from the visual inspection and functional test requirements of snubbers until the Cycle 10 refueling outage for Surry Unit 1. We therefore find the proposed amendment acceptable. In the event that the Cycle 10 refueling outage is delayed by more than 2 months beyond the current projection of October 1990, this approval for deferral would become invalid and the licensee would have to seek new approval. This provision has been discussed with and found acceptable by the licensee's staff and has been incorporated into the proposed amendment to the TS.

4.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to 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 to surveillance requirements. We have determined that this 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. 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

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: April 13, 1990

Principal Contributor:
J. Rajan