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JUN 07 1982

Docket Nos. 50-280/281  
and 50-338/339

Mr. R. H. Leasburg  
 Vice President - Nuclear Operations  
 Virginia Electric and Power Company  
 Post Office Box 26666  
 Richmond, Virginia 23261

Dear Mr. Leasburg:

We have reviewed your letter dated December 29, 1981 which requested relief from the 1974 ASME Section XI requirements for inservice inspection hydrostatic tests. You proposed to substitute the requirements of the 1977 editions of the ASME Code. This action applies to Surry Power Station, Unit Nos. 1 and 2 and North Anna Power Station, Unit Nos. 1 and 2.

We hereby grant the relief you have requested. Our Evaluation of Relief Request and Notice of Granting Relief are enclosed.

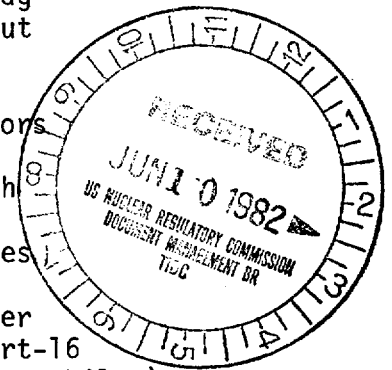
Sincerely,

Original signed by:  
 S. A. Varga

Steven A. Varga, Chief  
 Operating Reactors Branch #1  
 Division of Licensing

- Enclosures:  
 1. Evaluation  
 2. Notice

cc w/enclosures:  
 See next page



SEE PREVIOUS NRC FORM 318 FOR PREVIOUS CONCURRENCES \* *implication to note in the notes*

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 PDR ADOCK 05000280  
 PDR

OFFICE	ORB#1:DL <i>CP</i>	ORB#1:DL	ORB#3:DL*	ORB#3:DL*	ORB#1:DL*	OELD	
SURNAME	CParrish	DNeighbors	LEngle	RClark	SVarga	<i>D SWANSON</i>	
DATE	05/20/82	05/20/82:ds	05/ /82	05/ /82	05/ /82	05/1/82	

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- OI&E (1)
- T. Barnhart (16)
- ACRS (10)
- OPA (Clare Miles)
- NSIC

Docket Nos. 50-280/281  
and 50-338/339

Mr. R. H. Leasburg  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

Dear Mr. Leasburg:

We have reviewed your letter dated December 29, 1981 which requested relief from the 1974 ASME Section XI requirements for inservice inspection hydrostatic tests. You proposed to substitute the requirements of the 1977 edition of the ASME Code. This action applies to Surry Power Station, Unit Nos. 1 and 2 and North Anna Power Station, Unit Nos. 1 and 2.

We hereby grant the relief you have requested. Our Safety Evaluation and Notice of Issuance are enclosed.

Sincerely,

Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing

Enclosures:

1. Safety Evaluation
2. Notice of Issuance

cc w/enclosures:  
See next page



OFFICE	ORB 1 CP	ORB 1	ORB 3	ORB 3	ORB 1	OELD
SURNAME	CParrish/rs	DNeighbors	LEngle	RCClark	SVarga	
DATE	3/18/82	3/18/82	3/18/82	3/18/82	3/18/82	3/22/82

Mr. R. H. Leasburg  
Virginia Electric and Power Company

cc: Mr. Michael W. Maupin  
Hunton and Williams  
Post Office Box 1535  
Richmond, Virginia 23213

Mr. J. L. Wilson, Manager  
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Surry, Virginia 23883

Swem Library  
College of William and Mary  
Williamsburg, Virginia 23185

Donald J. Burke, Resident Inspector  
Surry Power Station  
U. S. Nuclear Regulatory Commission  
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Surry, Virginia 23883

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

Commonwealth of Virginia  
Council on the Environment  
903 Ninth Street Office Building  
Richmond, Virginia 23219

Attorney General  
1101 East Broad Street  
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Commonwealth of Virginia  
State Corporation Commission  
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Drexel University  
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Atomic Safety and Licensing  
Appeal Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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Executive Vice President - Power  
Virginia Electric and Power Company  
Post Office Box 26666  
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Richmond, Virginia 23209

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North Anna Environmental Coalition  
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Richard M. Foster, Esquire  
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Boulder, Colorado 80306

Alderman Library  
Manuscripts Department  
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Charlottesville, Virginia 22901

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Board of Supervisors  
Louisa County Courthouse  
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Louisa, Virginia 23093

Ellyn R. Weiss, Esquire  
Sheldon, Harman, Roisman and Weiss  
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Washington, D. C. 20006

Virginia Electric and Power Company - 2 -

cc:

Mr. W. R. Cartwright, Station Manager  
P. O. Box 402  
Mineral, Virginia 23117

Mr. Anthony Gambardella  
Office of the Attorney General  
11 South 12th Street - Room 308  
Richmond, Virginia 23219

Resident Inspector/North Anna  
c/o U.S.N.R.C.  
Route 2, Box 78A  
Mineral, Virginia 23117

EVALUATION OF RELIEF REQUEST

SURRY POWER STATION, UNITS 1 AND 2

AND

NORTH ANNA POWER STATION, UNITS 1 AND 2

RELIEF REQUEST FOR INSERVICE INSPECTION  
HYDROSTATIC TEST REQUIREMENTS

Introduction

By letter dated December 29, 1981, the Virginia Electric and Power Company which is the licensee of Surry Power Station, Units 1 and 2, and North Anna Power Station, Units 1 and 2, with Facility Operating License Numbers DPR-32, DPR-37, NPF-4 and NPF-7 respectively, requested relief from the 1974 ASME Code Section XI requirements for inservice inspection hydrostatic tests contained in Articles IWA, IWB, IWC and IWD 5000. The licensee proposed that the requirements in the source articles of the 1977 edition of ASME Section XI with approved addenda through summer 1979 be applied at Surry and North Anna Power Stations.

Evaluation

The major differences in the requirements of inservice inspection hydrostatic tests between the 1974 edition of ASME Section XI and that of the 1977 edition with approved addenda through 1979 summer are:

- (1) Test holding time - For the areas which are exposed, the 1974 edition of Section XI requires the hydrostatic test temperature and pressure to be maintained for a minimum of four hours; whereas in the 1977 edition with approved addenda, the test temperature and pressure are required to be maintained for a minimum of ten minutes and for such additional time as may be necessary to conduct the examination.
- (2) Test temperature - The 1974 edition of ASME Section XI requires a hydrostatic test temperature not less than 100°F; whereas in the 1977 edition with approved addenda, the minimum test temperature is specified only for system components made of ferritic materials.

For the required hydrostatic test holding time, we consider that maintaining the hydrostatic test temperature and pressure for a minimum period of ten minutes is a long enough time to discover any leakage in the system where the total areas are directly visible. The minimum test time of four hours is intended for insulated areas or areas not directly visible and is considered overly conservative when applied to areas directly visible.

The minimum hydrostatic test temperature was established to meet the requirements specified by fracture prevention criteria especially in preventing the brittle fracture of ferritic materials. For components made of austenitic materials, the brittle fracture transition temperature is typically far below the ambient temperatures. Therefore, we consider that heating components made of austenitic materials to 100°F for hydrostatic test is not necessary.

In view of the NRC approval of the 1977 edition of ASME Section XI with addenda through Summer 1979 and our technical evaluation described above, we conclude that the licensee's proposal to apply the inservice inspection hydrostatic test requirements in the 1979 edition of ASME Section XI with addenda through Summer 1979 is acceptable.

Based on our review, we conclude that the current requirements are impractical, that this relief is authorized by law, will not endanger life or property or the common defense and security, and is otherwise in the public interest considering the burden on the licensee if the relief is not granted. Therefore, in accordance with 10 CFR 50.55a(g)(6)(i), the requested relief is granted.

#### Environmental Consideration

We have determined that this relief does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the relief involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the granting of this relief.

#### Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the relief does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the relief does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the granting of this relief will not be inimical to the common defense and security or to the health and safety of the public.

Dated: June 7, 1982

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-280, 50-281, 50-338 AND 50-339VIRGINIA ELECTRIC AND POWER COMPANYNOTICE OF GRANTING OF RELIEF FROM ASME CODE SECTION XIINSERVICE INSPECTION REQUIREMENTS

The U. S. Nuclear Regulatory Commission (the Commission) has granted relief from certain requirements of the ASME Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," to Virginia Electric and Power Company (the licensee), which revised the inservice inspection program for the Surry Power Station, Unit Nos. 1 and 2 and for the North Anna Power Station, Unit Nos. 1 and 2 located in Surry County and Louisa County, Virginia, respectively. The ASME Code requirements are incorporated by reference into the Commission's rules and regulations in 10 CFR Part 50. The relief is effective as of its date of issuance, and expires August 20, 1982.

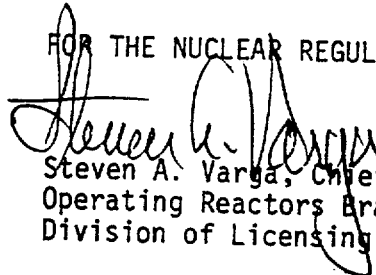
The action provides relief from the 1974 ASME Code Section XI requirements for inservice inspection hydrostatic tests and that the requirements in the source articles of the 1977 edition of ASME Section XI with approved addenda through summer of 1979 be applied instead.

The request for this granting of relief 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 Evaluation of Relief Request.

The Commission has determined that the granting of this relief will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with this action.

For further details with respect to this action, see (1) the request for relief dated December 29, 1981; (2) the letter to the licensee dated June 7, 1982; and (3) the Commission's related Evaluation of Relief Request. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, at the Swem Library, College of William and Mary, Williamsburg, Virginia 23185, and at the Board of Supervisors Office, Louisa County Courthouse, Louisa, Virginia and at the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing

Dated at Bethesda, Maryland  
this 7th day of June, 1982.