

DCS MS-d6

MAR 15 1983

Docket No. 50-338

Mr. W. L. Stewart  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

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Dear Mr. Stewart:

The Commission has issued the enclosed Order confirming your commitments to implement those post-TMI related items set forth in NUREG-0737 for which the staff requested completion on or after July 1, 1981. This Order is based on commitments contained in your letters responding to the NRC's Generic Letters 82-05 and 82-10 dated March 17, 1982 and May 5, 1982, respectively.

The Order references your letters and, in its attachments, contains lists of the applicable NUREG-0737 items with your schedular commitments. As discussed in the Order, several of the items listed in Generic Letter 82-10 will be handled outside of this Order.

The Commission's intention when it issued NUREG-0737 was that items would be completed in accordance with the staff's recommended schedule. However, our evaluation of your proposed schedule exceptions concludes that the proposed delays are acceptable. Among other things, the Order requires implementation of these items in accordance with your proposed schedule.

Some of the items set forth in the attachment to the Order are subject to post implementation review and inspection. Our post implementation review and/or the development of Technical Specifications may identify alterations to your method of implementing and maintaining the requirements. Any identified alterations will be the subject of future correspondence.

A copy of this Order is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by  
Robert A. Clark  
Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Enclosure:  
Order

cc w/enclosure:  
See next page

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SURNAME	PMKreutzer	LBEngle/bn	RAClark	GCLinas	S BVRN	DEisenhut	
DATE	11/23/82	11/30/82	11/30/82	12/4/82	11/11/82	11/14/82	11/15/82



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

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PMKreutzer

Docket No. 50-338

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: VIRGINIA ELECTRIC AND POWER COMPANY, North Anna Power Station,  
Unit No. 1.

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 12 ) of the Notice are enclosed for your use.

- ☐ Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- ☐ Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s); Time for Submission of Views on Antitrust Matters.
- ☐ Notice of Availability of Applicant's Environmental Report.
- ☐ Notice of Proposed Issuance of Amendment to Facility Operating License.
- ☐ Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- ☐ Notice of Availability of NRC Draft/Final Environmental Statement.
- ☐ Notice of Limited Work Authorization.
- ☐ Notice of Availability of Safety Evaluation Report.
- ☐ Notice of Issuance of Construction Permit(s).
- ☐ Notice of Issuance of Facility Operating License(s) or Amendment(s).
- ☒ Other: NUREG-0737 ORDER

Division of Licensing  
Office of Nuclear Reactor Regulation

Enclosure:  
As Stated

OFFICE	ORB#3:D					
SURNAME	PMKreutzer/pn					
DATE	3/17/83					

Virginia Electric and Power Company

cc:

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Sheldon, Harman, Roisman and Weiss  
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Office of the Attorney General  
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Richmond, Virginia 23219

Resident Inspector/North Anna  
c/o U.S.N.R.C.  
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Mineral, Virginia 23117

Mr. J. H. Ferguson  
Executive Vice President - Power  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

Mrs. Margaret Dietrich  
Route 2, Box 568  
Gordonsville, Virginia 22042

Mr. James C. Dunstance  
State Corporation Commission  
Commonwealth of Virginia  
Blandon Building  
Richmond, Virginia 23209

Mrs. June Allen  
North Anna Environmental Coalition  
8720 Lockmoor Circle  
Wichita, Kansas 67207

U.S. Environmental Protection Agency  
Region III Office  
ATTN: Regional Radiation Representative  
Curtis Building  
6th and Walnut Streets  
Philadelphia, Pennsylvania 19106

Mr. Paul W. Purdom  
Environmental Studies Institute  
Drexel University  
32nd and Chestnut Streets  
Philadelphia, Pennsylvania 19104

Atomic Safety and Licensing  
Appeal Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Regional Administrator  
Nuclear Regulatory Commission, Region II  
Office of Executive Director for Operations  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of

VIRGINIA ELECTRIC AND POWER  
COMPANY

(North Anna Power Station,  
Unit 1)

Docket No. 50-338

ORDER CONFIRMING LICENSEE COMMITMENTS  
ON POST-TMI RELATED ISSUES

I.

The Virginia Electric and Power Company (the licensee) is the holder of Facility Operating License No. NPF-4 which authorizes the operation of the North Anna Power Station, Unit 1 (the facility) at steady-state power levels not in excess of 2775 megawatts thermal. The facility is a pressurized water reactor (PWR) located at the licensee's site in Louisa County, Virginia.

II.

Following the accident at Three Mile Island No. 2 (TMI-2) on March 28, 1979, the Nuclear Regulatory Commission (NRC) staff developed a number of proposed requirements to be implemented on operating reactors and on plants under construction. These requirements include Operational Safety, Siting and Design, and Emergency Preparedness and are intended to provide substantial

additional protection in the operation of nuclear facilities based on the experience from the accident at TMI-2 and the official studies and investigations of the accident. The staff's proposed requirements and schedule for implementation are set forth in NUREG-0737, "Clarification of TMI Action Plan Requirements." Among these requirements are a number of items, consisting of hardware modifications, administrative procedure implementation and specific information to be submitted by the licensee, scheduled to be completed on or after July 1, 1981. On March 17, 1982, a letter (Generic Letter 82-05) was sent to all licensees of operating power reactors for those items that were scheduled to be implemented from July 1, 1981 through March 1, 1982. Subsequently, on May 5, 1982, a letter (Generic Letter 82-10) was also sent to all licensees of operating power reactors for those items that were scheduled for implementation after March 1, 1982. These letters are hereby incorporated by reference. In these letters each licensee was requested to furnish within 30 days pursuant to 10 CFR 50.54(f) the following information for items which the staff had proposed for completion on or after July 1, 1981:

- (1) For applicable items that have been completed, confirmation of completion and the date of completion,
- (2) For items that have not been completed, a specific schedule for implementation, which the licensee committed to meet, and
- (3) Justification for delay, demonstration of need for the proposed schedule, and a description of the interim compensatory measures being taken.

III.

Virginia Electric and Power Company responded to the Generic Letter 82-05 by letters dated April 16, May 17, August 23, October 1, and November 22, 1982. Virginia Electric and Power Company responded to Generic Letter 82-10 by letters dated June 30 and November 22, 1982. In these submittals, the licensee confirmed that some of the items identified in the Generic Letters had been completed and made firm commitments to complete the remainder. The attached Tables summarizing the licensee's schedular commitments or status were developed by the staff from the Generic Letters and the licensee-provided information.

Generic Letters 82-05 and 82-10 addressed thirteen and sixteen items, respectively. Of the ten items listed in Generic Letter 82-10 requiring a response, six items are not included in this Order. Item I.A.1.3.2 is part of a separate rulemaking; Items I.C.1, III.A.1.2 (2 items), and III.A.2.2 will be handled separately following Commission actions that would proceed as a result of its consideration of Commission Paper SECY 82-111, as amended; for Items II.K.3.30 and II.K.3.31 (one item), the staff review of the generic models under II.K.3.30 has not been completed, and II.K.3.31 is not required until one year after staff approval of the generic models.

Fifteen (15) of the 17 items addressed in this Order are considered by the licensee to be completed or to require no modifications. The staff's evaluation of the licensee's delays for the remaining six (6) items is provided herein.

II.F.1 3 - Containment Range Monitor

The containment range monitor has been calibrated at the vendor plant and the system has been installed and tested. However, the licensee does not consider the system to be operational until such time that a final in-situ calibration has been completed. A prototype calibration source has been developed by the vendor and will be available by March, 1983. The licensee is in the process of procuring the prototype calibration source so that a final in-situ calibration will be completed during a fall maintenance outage currently scheduled to be completed on October 31, 1983.

II.D.1.2 - RV and SV Test Program

The licensee has submitted a plant specific assessment regarding adequacy of the installed safety and relief valves and block valves. The discharge piping evaluation for the relief and safety valves is not complete. The piping evaluations for North Anna Unit No. 1 depend on the results obtained from the North Anna Unit No. 2 evaluations which were submitted on December 21, 1982. The licensee has committed to complete the North Anna Unit No. 1 evaluations by December 31, 1983.

We find, based on the above evaluation, that 1) the licensee has taken corrective actions regarding the delays and has made a responsible effort to implement the NUREG-0737 requirements noted; 2) there is good cause for the several delays; and 3) as noted above, interim compensatory measures have been provided.

In view of the foregoing, I have determined that these modifications and actions are required in the interest of public health and safety and should, therefore, be confirmed by Order.

#### IV.

Accordingly, pursuant to Sections 103, 161i, and 161o of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED EFFECTIVE IMMEDIATELY THAT THE LICENSEE SHALL:

Implement and maintain the specific items described in the attachments to this Order in the manner described in the licensee's submittals noted in Section III herein no later than the dates in the attachments.

#### V.

The licensee may request a hearing on this Order within 20 days of the date of publication of this Order in the Federal Register. A request for a hearing shall be addressed to the Director, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission, Washington, D. C.



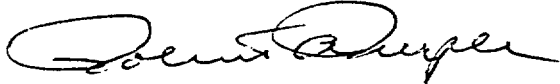
20555. A copy shall also be sent to the Executive Legal Director at the same address. A REQUEST FOR HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

If a hearing is requested by the licensee, the Commission will issue an Order designating the time and place of any such hearing.

If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the licensee should comply with the requirements set forth in Section IV of this Order.

This Order is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Purple, Deputy Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland  
this 15th day of March, 1983.

Attachments:

1. Licensee's Commitments on Applicable  
NUREG-0737 Requirements from Generic  
Letter 82-05
2. Licensee's Commitments on Applicable  
NUREG-0737 Requirements from Generic  
Letter 82-10

LICENSEE COMMITMENTS ON APPLICABLE NUREG-0737 ITEMS  
FROM GENERIC LETTER 82-05

ITEM	TITLE	NUREG-0737 SCHEDULE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)*
I.A.3.1	Simulator Exams	10/1/81	Include simulator exams in licensing examinations.	Complete
II.B.2	Plant Shielding	1/1/82	Modify facility to provide access to vital areas under accident conditions.	Complete
II.B.3	Post-accident sampling	1/1/82	Install upgrade post-accident sampling capability.	Complete
II.B.4	Training for Mitigating Core Damage	10/1/81	Complete training program.	Complete
II.E.1.2	Aux FW Indication & Flow Indicator	7/1/81	Modify instrumentation to level of safety grade.	Complete
II.E.4.2	Containment Isolation Dependability	7/1/81	Part 5 - lower containment pressure setpoint to level compatible with normal operation.	Complete
II.E.4.2	Containment Isolation Dependability	7/1/81	Part 7 - isolate purge and vent valves on radiation signal.	Complete

ITEM	TITLE	NUREG-0737 SCHEDULE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)*
I.A.1.3.1	Limit Overtime	10/1/82 per Gen. Ltr. 82-12 dtd. 6/15/82	Revise administrative procedures to limit overtime in accordance w/MRC Policy Statement issued by Gen. Ltr. No. 82-12, dtd. June 15, 1982.	Complete
I.A.1.3.2	**Minimum Shift Crew	To be superseded by Proposed Rule..	To be addressed in the Final Rule on Licensed Operator Staffing at Nuclear Power Units.	To be addressed when Final Rule is issued
I.C.1	**Revise Emergency Procedures	Superseded by SECY 82-111	Reference SECY 82-111, Requirements for Emergency Response Capability.	To be determined
II.D.1.2	PV and SV Test Programs	7/1/82	Submit plant specific reports on relief and safety valve program.	12/31/83
II.D.1.3	Block Valve Test Program	7/1/82	Submit report of results of test program.	Complete
II.K.3.30 & 31	**SBLOCA Analysis	1 yr. after staff approval of model	Submit plant specific analyses.	To be determined following staff approval of model
III.A.1.2	**Staffing Levels for Emergency Situations	Superseded by SECY 82-111	Reference SECY 82-111, Requirements for Emergency Response Capability	To be determined
III.A.1.2	**Upgrade Emergency Support Facilities	""	""	""
III.A.2.2	**Meteorological Data	""	""	""
III.D.3.4	Control Room Habitability	To be determined by licensee	Modify facility as identified by licensee study	Complete

\*Where completion date refers to a refueling outage (the estimated date when the outage begins), the item will be completed prior to the restart of the facility.

\*\*Not Part of Confirmatory Order