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Docket Nos. 50-338, 50-339  
License Nos. NPF-4, NPF-7

Virginia Electric and Power Company  
ATTN: Mr. D. S. Cruden, Vice President,  
Nuclear Operations  
P. O. Box 26666  
Richmond, VA 23261

Gentlemen:

SUBJECT: NRC INSPECTION REPORT NOS. 50-338/88-14 AND 50-339/88-14

This refers to the Nuclear Regulatory Commission (NRC) inspection conducted by A. L. Cunningham on June 27-30, 1988. The inspection included an evaluation of the Emergency Response Facilities (ERFs) at the North Anna Power Station, to determine if the ERFs meet the requirements of 10 CFR 50.47(b), Paragraph IV.E.8 of Appendix E to 10 CFR Part 50, and Orders issued to implement Supplement 1 to NUREG-0737. At the conclusion of the appraisal, the findings were discussed with those members of your staff identified in the enclosed inspection report.

Areas examined during the inspection are identified in the report. Within these areas, the inspection consisted of selective examination of procedures and representative records, assessment of ERFs and related equipment, interviews with personnel, and evaluation of the effective use of the response facilities and equipment in support of the Emergency Response Organization during the 1988 Annual Emergency Preparedness Exercise.

Within the scope of the inspection, no violations or deviations were identified. Other areas were identified, however, that require further action for completion. These areas are identified in Enclosure 1 to this letter as Open Items and are discussed in the enclosed Inspection Report. Open Items will be tracked as Inspector Followup Items. The enclosed Inspection Report documents oral commitments made by licensee representatives and discussed in the exit interview. If your understanding of these commitments differs from the report statements, please inform this office promptly.

Additional findings also indicate that there are other items in your Emergency Preparedness Program which should be considered for program enhancement. These items are identified in Enclosure 2 for your benefit.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

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The responses directed by this letter and its enclosures are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, Pub. L. No. 96-511.

Should you have any questions concerning this letter, please contact us.

Sincerely,

*original signed  
by  
JPS*

J. Philip Stohr, Director  
Division of Radiation Safety  
and Safeguards

Enclosures:

- 1. Emergency Response Facilities  
Appraisal Open Items
- 2. Items Which Should be Considered  
for Program Enhancement
- 3. NRC Inspection Report

cc w/encls:

- B. E. Kane, Station Manager
- N. E. Hardwick, Manager - Nuclear  
Programs and Licensing

bcc w/encls:

- NRC Resident Inspector
- DRS Technical Assistant
- Document Control Desk
- Commonwealth of Virginia

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ACunningham:es  
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TDecker  
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Collins  
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*Concurred by  
telephone  
w/Travis  
8/11/88*

ENCLOSURE 1

EMERGENCY RESPONSE FACILITIES APPRAISAL OPEN ITEMS

- Completion of resolution of differences in dose calculations between the RAD/MET Model and manual method defined in the Emergency Plan Implementing Procedures (338,339/88-14-01).
- Completion of evaluation of validity of use of field monitoring data for calculating a source term and use of same in the protective action decision process, or in determining emergency classifications (338,339/88-14-02).
- Completion of revisions to the EIPs addressing dose assessment to include separate stability classes for vertical and horizontal diffusion (338,339/88-14-03).
- Completion of modification of the RAD/MET Model to provide dose projection estimates at future plume positions (338,339/88-14-04).
- Completion of revision of TSC ventilation operational procedure (1-OP-21-10) to include operator verification of normal system damper positions to ensure proper system operation (338,339/88-14-05).
- Completion of revision of TSC ventilation test procedure (1-PT-77.9) to test system components including system interlocks (338,339/88-14-06).
- Completion of establishment of a mechanism to track all sensor data errors to help correct and prevent abnormal sensor data errors (338,339/88-14-07).

## ENCLOSURE 2

### Items Which Should be Considered for Program Enhancement

- ° Modifying the manual EPIP dose calculation method to run on a personal computer or a computer system separate from RAD/MET. This computerized EPIP method could be made available in the Control Room, TSC, LEOF, and CEOF.
- ° Conducting a more detailed comparison between RAD/MET and the Commonwealth of Virginia's dose assessment model following completion of the Commonwealth's proposed modifications to the model. Reasons should be identified if any comparisons differ by more than a factor of 3.
- ° Developing a version of the RAD/MET model with a domain that extends through the ingestion pathway zone.
- ° Providing support for a backup method for estimating the vertical diffusion coefficient that does not involve sigma theta. Two possible alternatives for this support are an independent, backup delta T system, and implementation of a procedure to estimate stability class from solar radiation and wind speed.
- ° Protecting the meteorological tower instrument power supplies from the effects of power surges caused by lightning strike.
- ° Replacing the spot meteorological data values available through the SPDS with time-averaged data, except where there is specific need of the spot meteorological data.
- ° Developing a procedure to test the throw-over feature of the UPS buss.
- ° Developing algorithms to coordinate the SPDS top level display color code with the applicable EAL parameter escalation values.
- ° Providing a preventive maintenance program for key emergency ventilation system components.
- ° Revising non-safety preventive maintenance program to ensure periodic maintenance of non-safety system and documentation thereof.
- ° Documenting period testing of non-safety system and the results thereof.