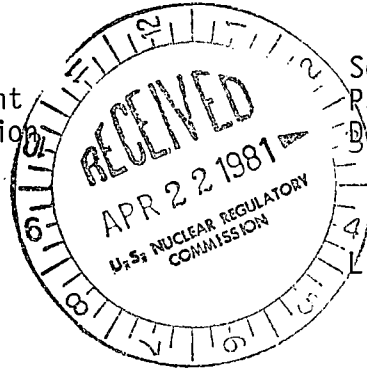


Vepco

VIRGINIA ELECTRIC AND POWER COMPANY, RICHMOND, VIRGINIA 23261

April 15, 1981

Mr. James P. O'Reilly, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303



Serial No. 245
PSE&C/RHW, III:bw1
Docket Nos. 50-280

50-281
50-338
50-339

License Nos. DPR-32
DPR-37
NPF-4
NPF-7

Dear Mr. O'Reilly:

I.E. BULLETIN NO. 80-11, INTERIM PROGRESS REPORT
SURRY POWER STATION - UNITS 1 & 2
NORTH ANNA POWER STATION - UNITS 1 & 2

This letter provides the interim progress report as of April 15, 1981, which was requested by your letter of March 13, 1981. The purpose of the letter is to update the response provided in our letter of November 3, 1980, Serial Number 878, and apprise you of the status of our masonry wall analysis program.

For the masonry walls addressed in our report of November 3, 1980, analysis has been completed for 50 of the 89 walls at Surry and 38 of the 65 walls at North Anna. All of these walls, for which analysis is complete, meet the conservative acceptance criteria described in the reevaluation criteria submitted as Attachment C to our letter of November 3, 1980. The remaining walls, which did not meet the initial conservative acceptance criteria, are being reanalyzed using more exact techniques, which are still conservative, to incorporate refined boundary conditions, more precise loading definition, and computer aided analysis. During our program to verify and fully document the previous inspections, an additional 41 walls at Surry and 9 walls at North Anna were identified as having safety related equipment in their proximity. Analysis has been completed for 28 of these 41 walls at Surry, and for 1 of the 9 walls at North Anna. Our verification program is now complete, and analysis is continuing on the remaining walls which have not completed analysis. Preliminary modifications are being developed to upgrade all remaining walls should analysis indicate that the walls are inadequate. Additional information on the status of our program to comply with the requirements of I.E. Bulletin 80-11 is provided in the Enclosure to this letter.

The results of the reevaluation program indicate that safety of the plants will not be jeopardized by continued analysis of the masonry walls during plant operation. If, however, during the remainder of the reevaluation program the operability of any safety related system is shown to be in jeopardy by the results

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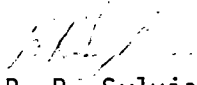
Mr. O'Reilly

of the analysis, the applicable technical specifications action statement will be met.

As you requested, another interim report will be provided by June 15, 1981.

Final results of the reevaluation program will be submitted upon completion of the program. Should you have any questions or require additional information, please contact us.

Very truly yours,


B. R. Sylvia
Manager-Nuclear
Operations and Maintenance

Enclosures
Attachments A and B

cc: Mr. Victor Stello, Director
Office of Inspection & Enforcement

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation

COMMONWEALTH OF VIRGINIA)
)
CITY OF RICHMOND)

The foregoing document was acknowledged before me, in and for the City and Commonwealth aforesaid, today by B. R. Sylvia, who is Manager-Nuclear Operations and Maintenance, of the Virginia Electric and Power Company. He is duly authorized to execute and file the foregoing document in behalf of that Company, and the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 15th day of April, 19 81.

My Commission expires: 2-26, 19 85.

Ann C. McNamee
Notary Public

(SEAL)

ENCLOSURE

(VEPCO letter to NRC dated April 15, 1981, Serial No. 245)

This enclosure updates the information on IE Bulletin 80-11 provided in the 60 day reports and the report submitted on November 3, 1980, letter No. 878. Based on NRC concerns expressed during the inspection conducted at Surry Power Station in December 1980, additional inspections have been conducted at both North Anna and Surry to provide complete verification and documentation for all masonry walls in the seismic areas of the stations as described in our previous reports. During these inspections, an additional 34 walls at Surry and 36 walls at North Anna were identified that were not listed in the November 3, 1980, report.

The inspection to verify and fully document walls previously identified as Class III walls (no safety-related equipment attached to or located in proximity of the wall), resulted in the reclassification of 11 masonry walls at Surry and 8 at North Anna to Class II (limited amount of safety-related equipment attached to or in the proximity of the wall). These walls will be analyzed, or the safety-related equipment will be relocated or protected, in accordance with the scheduled completion date of July 31, 1981. In order to provide you with the latest information based on the results of these inspections, Attachments A and B updated the masonry wall tabulations provided in our November 3, 1980, report by delineating the changes to those tables.

Also based on NRC concerns dealing with complete documentation for all walls at the power stations, additional inspections are being conducted of the nonseismic areas of Surry and North Anna to verify that safety-related equipment is not located in the proximity of these walls. As described in the 60 day reports submitted for North Anna and Surry, the original inspections were limited to the seismic areas of the stations, considering the design basis for the power stations. A total of 339 masonry walls at Surry and 328 masonry walls at North Anna are located in the non-seismic areas of the power stations which are being investigated in these inspections. The results of these investigations show that 303 walls at Surry and 314 walls at North Anna have no safety-related equipment attached to or in the proximity of the walls. The remaining 36 walls at Surry and 14 walls at North Anna are still being investigated to determine the safety significance of equipment in the proximity of the walls. This investigation will be completed by July 31, 1981.

VEPCO letter of December 26, 1980, serial No. 1005, stated that the Phase II analysis would be completed by March 31, for the Class I walls, and by April 15, for the Class II walls. This analysis was completed by March 20, for the Class I walls, and March 27, for the Class II walls. A total of 78 walls at Surry and 38 walls at North Anna have had analyses completed and are acceptable. Where additional analysis is warranted, more exact analysis techniques (which are still conservative) are applied to incorporate refined boundary conditions, more precise loading definition, and computer-aided analysis. This analysis continues in a parallel effort with the development

of preliminary modifications as described in the VEPCO letter of October 23, 1980, serial No. 868. The analysis of these walls will be completed by July 31, 1981. An additional interim progress report, as requested in your letter of March 13, 1981, will be provided by June 15, 1981. Final results of the reevaluation program will be provided upon completion of this effort.

ATTACHMENT A

Vepco letter to NRC dated April 15, 1981

Serial No. 245

SURRY POWER STATION

REVIEW OF MASONRY WALLS

Changes to the tabulation of Masonry Walls provided in Attachment A to VEPCO letter to NRC dated November 3, 1980, Serial No. 878.

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
IS-21-2-1	I	11448-FC-9H	Intake Structure	wall added during field review
IS-21-2-1	I	11448-FC-9H	Intake Structure	wall added during field review
1C-47-4-10	-	11448-FM-1A	N ₂ , H ₂ Area	wall removed
1C-47-4-11	-	11448-FM-1A	N ₂ , H ₂ Area	wall removed
SB-27-0-9	III	11448-FA-1E	Hot Storage Area	deleted, non-seismic area wall
AB-27-6-28	-	11448-FA-24A	Drumming Room	wall removed
AB-27-6-29	-	11448-FA-24A	Drumming Room	wall removed
AB-2-0-16	III	11448-FM-5A	Aux. Bldg.	concrete wall
AB-2-0-17	III	11448-FM-5A	Aux. Bldg.	deleted, renumbered to AB-2-0-19, 20 & 21
AB-2-0-19	III	11448-FM-5A	Aux. Bldg.	wall added due to renumbering of AB-2-0-17
AB-2-0-20	III	11448-FM-5A	Aux. Bldg.	wall added due to renumbering of AB-2-0-17
AB-2-0-21	III	11448-FM-5A	Aux. Bldg.	wall added due to renumbering of AB-2-0-17
AB-2-0-24	III	11448-FM-5A	Aux. Bldg.	wall added during field review
FB-27-6-2	III	11448-FA-27B	Fuel Bldg.	deleted, renumbered as part of FB-27-6-1
FB-74-0-1	II	11448-FA-27B	Fuel Bldg.	reclassified from Class III to Class II
FB-80-0-1	II	11448-FA-27B	Fuel Bldg.	reclassified from Class III to Class II
PH-27-0-4	III	11448-FA-36B	Fire Pump House	deleted, renumbered as part of PH-27-0-3

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
1C-18-4-1	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-2	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-3	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-4	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-5	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-6	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-7	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-8	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-9	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-10	II	11448-FC-16F	Steam Generator Cubicle B	wall added during field review
1C-18-4-11	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-12	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-13	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
1C-18-4-14	II	11448-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-1	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
2C-18-4-2	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-3	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-4	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-5	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-6	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-7	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-8	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-9	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-10	II	11548-FC-16F	Steam Generator Cubicle B	wall added during field review
2C-18-4-11	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-12	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-13	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
2C-18-4-14	II	11548-FC-16F	Steam Generator Cubicle A	wall added during field review
AB-27-6-21	II	11448-FA-24A	Auxiliary Bldg.	reclassified from class III to class II
AB-27-6-24	II	11448-FA-24A	Auxiliary Bldg.	reclassified from class III to class II
AB-27-6-40	II	11448-FA-24A	Auxiliary Bldg.	reclassified from class III to class II

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
AB-13-0-7	II	11448-FC-24C	Auxiliary Bldg.	reclassified from class III to class II
AB-2-0-1	II	11448-FM-5A	Auxiliary Bldg.	reclassified from class III to class II
AB-2-0-19	II	11448-FM-5A	Auxiliary Bldg.	reclassified from class III to class II
AB-2-0-20	II	11448-FM-5A	Auxiliary Bldg.	reclassified from class III to class II
AB-2-0-21	II	11448-FM-5A	Auxiliary Bldg.	reclassified from class III to class II
AB-2-0-24	II	11448-FM-5A	Auxiliary Bldg.	reclassified from class III to class II

ATTACHMENT B

Veeco letter to NRC dated April 15, 1981

Serial No. 245

NORTH ANNA POWER STATION

REVIEW OF MASONRY WALLS

Changes to the tabulation of Masonry Walls provided in Attachment B to VEPCO letter to NRC dated November 3, 1980, Serial No. 878.

Sheet 1 of 3

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
MSV-256-1	II	12050-FC-19A	Main Steam Valve House Unit 2	previously Class III reclassified during field review.
FB-291-2	II	11715-FA-27B	Fuel Bldg.	wall added during field review
FB-291-1	II	11715-FA-27B	Fuel Bldg.	reclassified from class III to class II
FB-318-1	II	11715-FA-27B	Fuel Bldg.	reclassified from Class III to Class II
FB-318-1A	II	11715-FA-27B	Fuel Bldg.	reclassified from calss III to class II
FB-318-1B	II	11715-FA-27B	Fuel Bldg.	reclassified from Class III to class II
FB-318-1C	II	11715-FA-27B	Fuel Bldg.	reclassified from class III to class II
FB-325-1	II	11715-FA-27B	Fuel Bldg.	reclassified from class III to class II
AB-291-21	-	11715-FA-24A	Aux. Bldg.	Concrete wall
SB-274-1	-	11715-FA-1C	Service Bldg.	deleted, non-seismic wall
SB-274-2	-	11715-FA-1C	Service Bldg.	deleted, non-seismic wall
SB-274-3	-	11715-FA-1C	Service Bldg.	deleted, non-seismic wall
AB-274-1	-	11715-FC-24P	Aux. Bldg.	wall removed
IS-265-2A	-	11715-FC-9R	Intake Structure	deleted, renumbered as part of IS-265-2
SB-271-57	III	11715-FA-1C	Service Bldg.	wall added during field review
AB-274-11	III	11715-FC-24P	Stairwell Area	wall added during field review

Sheet 2 of 3

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
AB-27-12	III	11715-FC-24P	Stairwell Area	wall added during field review
AB-27-13	III	11715-FC-24P	Stairwell Area	wall added during field review
AB-274-14	III	11715-FC-24P	Stairwell Area	wall added during field review
AB-274-15	III	11715-FC-24P	Aux. Bldg.	wall added during field review
AB-274-16	III	11715-FC-24P	Aux. Bldg.	wall added during field review
AB-274-17	III	11715-FC-24P	Aux. Bldg.	wall added during field review
AB-274-18	III	11715-FC-24P	Aux. Bldg.	wall added during field review
AB-274-19	III	11715-FC-24P	Aux. Bldg.	wall added during field review
AB-291-27	III	-	Stairwell Area	wall added during field review
AB-291-28	III	-	Stairwell Area	wall added during field review
AB-291-29	III	-	Stairwell Area	wall added during field review
AB-291-30	III	-	Stairwell Area	wall added during field review
AB-291-31	III	-	Stairwell Area	wall added during field review
AB-291-32	III	-	Stairwell Area	wall added during field review
AB-291-33	III	-	Stairwell Area	wall added during field review
AB-291-34	III	-	Stairwell Area	wall added during field review
AB-291-35	III	-	Stairwell Area	wall added during field review

<u>Wall No.</u>	<u>Class</u>	<u>Drawing No.</u>	<u>Area</u>	<u>Comments</u>
AB-291-36	III	-	Stairwell Area	wall added during field review
AB-291-37	III	-	Stairwell Area	wall added during field review
AB-291-38	III	-	Stairwell Area	wall added during field review
AB-291-39	III	-	Stairwell Area	wall added during field review
AB-318-1	III	11715-FA-24A	Stairwell Area	wall added during field review
AB-318-2	III	11715-FA-24A	Stairwell Area	wall added during field review
AB-318-3	III	11715-FA-24A	Stairwell Area	wall added during field review
AB-318-4	III	11715-FA-24A	Stairwell Area	wall added during field review
AB-300-1	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-2	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-3	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-4	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-5	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-6	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-7	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-300-8	III	11715-FC-24CF	Mtr. Gen Set Hse	wall added during field review
AB-291-11	II	11715-FA-24A	Aux. Bldg.	reclassified from class III to class II