

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

January 20, 1984

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No.: 037  
PSE/BSD:cdk:0010N  
Docket Nos. 50-280  
50-281  
License No. DPR-32  
DPR-37

Gentlemen:

GENERAL DESIGN CRITERIA 17 ANALYSIS  
SURRY UNIT NOS. 1 AND 2

The purpose of this letter is to provide a status report of our progress on resolving the rerating of motor operated valves (MOV's) and our plan for further work as committed to in our October 14, 1983 letter, Serial No. 556.

We have obtained verified torque requirements on all valves.

A complete review of the alignment of valves in the plant and the control circuitry for each MOV has determined that 52 of the original 84 MOV's will not need to operate in an emergency when the voltage on the 480 volt bus is below 90% of the MOV rated voltage. An additional 10 MOV's were added to the list based on the same review. We have obtained preliminary information on operator available torque for the ten additional valves and our conclusions are based on that information. The present valve population is 42. Based on current information eight of the MOV's can have their operation delayed and be removed from the population, twenty six can be rerated, six would require motor replacement, and two would require operator replacement. Two of the MOV's, which are included for motor replacement, and the two, which are listed for operator replacement, are related to the Boron Injection Tank (BIT). Since we plan to remove the BIT and replace these valves during the second or third refueling after September 1, 1982, we will not modify or replace these operators.

Attached is our updated plan to resolve this item.

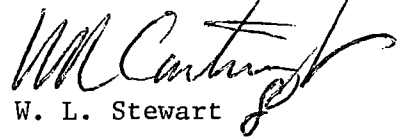
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VIRGINIA ELECTRIC AND POWER COMPANY TO

Based on progress to date, we anticipate that the rerating or replacement of the thirty MOVs which remain can be completed prior to the end of the second refueling after September 1, 1982. We will inform you of any changes which affect our ability to meet this schedule.

Very truly yours,

  
W. L. Stewart

cc: Mr. R. C. Young, Director  
NRC Office of Inspection and Enforcement  
Division of Reactor Operations Inspections  
Washington, D.C. 20555

Mr. J. P. O'Reilly  
Regional Administrator - Region II

SURRY POWER STATION  
UNIT 1 AND 2  
MOV RERATE AND REPLACEMENT  
PRELIMINARY PLAN

1. Verify which valves must operate on an SI or CLS. (completed)
2. Verify required torques to operate valves based on calculations for all except butterfly and wafer valves. (completed)
3. Provide comparisons of required torques for butterfly and wafer valves. (Verified - Completed)
4. Limitorque has previously provided information on the torque capabilities of the motor operators and will be requested to determine if a torque switch replacement or reset, a motor replacement, or a motor and operator replacement is required. We presently anticipate that this will be completed in March, 1984.
5. Design Change Packages (DCP) will then be developed to make these modifications. We anticipate that the DCP 82-35 for Unit 1 and DCP 82-36 for Unit 2 will be available in July, 1984.
6. Implementation will occur as feasible in the next refueling and intervening maintenance outages.

STATUS OF VEPCO MOV ANALYSIS

SURRY POWER STATION  
UNIT NOS. 1 AND 2

1.	Total number of MOVs on original list	84
2.	Number of MOVs which are not required to operate on SI or CLS	52
3.	Number of MOVs which are required to operate on SI or CLS which were not included on original list	10
4.	Number of MOVs which are required to operate	42
5.	Number of valves which may be delayed and removed from the population	8 * <sup>4</sup>
6.	Number of valves remaining in population	34
7.	Number of MOVs in #6 which can be rerated (May require torque switch limiter plate replacement or reset)	26 * <sup>1</sup>
8.	Number of MOVs in #6 which can be rerated with motor replacement	6 * <sup>2</sup>
9.	Number of MOVs in #6 which require replacement or modification of the motor operators	2 * <sup>3</sup>

\*<sup>1</sup> Four of these valves are attached to BIT lines and may not be rerated if the BIT is removed prior to 3rd refuel after 9-1-82.

\*<sup>2</sup> Two of these valves are attached to BIT lines and will not have their motors replaced if the BIT is removed prior to 3rd refuel after 9-1-82.

\*<sup>3</sup> These valves are attached to BIT lines and will not have their operators replaced if the BIT is removed prior to 3rd refuel after 9-1-82.

\*<sup>4</sup> Based on a preliminary review. We will do a complete review prior to installing a delay or will replace the operator by the end of the third refueling after 9-1-82.