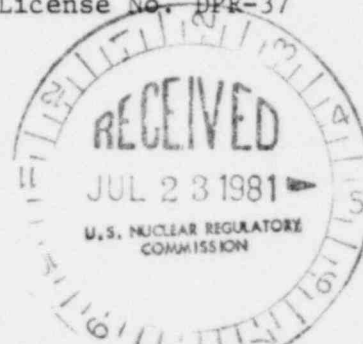


VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 1, 1981

R. H. LEASBURG  
VICE PRESIDENT  
NUCLEAR OPERATIONSMr. James P. O'Reilly, Director  
Office of Inspection and Endorsement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303Serial No. 063A  
NO/DCW:am  
Docket No. 50-281  
License No. DPR-37

Dear Mr. O'Reilly:

IE BULLETIN NO. 81-01  
SURVEILLANCE OF MECHANICAL SNUBBERS

As stated in our letter of March 26, 1981 in response to IE Bulletin 81-01 concerning surveillance of mechanical snubbers, we have completed the visual inspection and stroke testing of all Surry, Unit 2, mechanical snubbers in accordance with the requirements of the bulletin.

The visual examination, which was performed with Periodic Testing procedures 2-PT-39A and 2-PT-39A-2, included an inspection of the snubber and snubber mounting to ensure the following conditions were met;

- a. the snubber was not "hard-up,"
- b. the snubber was not fully extended or fully compressed,
- c. the snubber was not in contact with structures or equipment except at connecting points,
- d. the clamp bands and struts are in-line with the snubber axis,
- e. the pins for each snubber were inserted,
- f. the cotters pins and o-rings for each snubber were in place,
- g. the welds for the snubber and the mounts were intact,
- h. the connecting structure was not bent or cracked,
- i. and, the snubber rotated freely around its spherical rod end bearing.

The stroke test, which was performed with Special Test 127, consisted of;

- a. Removing the pin from the cylinder end plug spherical bearing,
- b. Compressing and extending the telescoping cylinder over the range of stroke by hand,
- c. Returning the snubber to its original position and replacing all pins, washers and cotter pins.

Twenty-five (25) mechanical snubbers, 100% for Unit 2, were examined and tested. A list of these snubbers is attached for your review.

One snubber could not be stroked as required by the Special Test. This snubber was easily removed from its mounting indicating that no undue stress was imposed on the particular pipe in the cold condition. The piping system was re-analysed with the snubber hypothetically considered "locked-up."

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The results of this re-analysis revealed that the pipe would not have been overstressed in the hot condition. The snubber was replaced with a new, functionally tested, snubber prior to resuming operation of the unit.

Another snubber passed the stroke test but did not stroke as easily as designed. This snubber was also replaced with a new, functionally tested, snubber prior to resuming operation of the unit.

We had planned to disassemble the snubbers that were removed to determine the cause of the binding or reluctance to stroke, but before the snubbers could be removed from the containment they were inadvertently discarded during the clean-up operation.

The mechanical snubbers in Unit 1 are presently being tabulated and will be visually inspected and stroke tested prior to unit startup. A report shall follow as required by the bulletin.

If you have any further questions please contact us.

Very truly yours,

R. H. Leasburg  
Vice President - Nuclear Operations

Attachment

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

Mr. Robert A. Clark, Chief  
Operating Reactors Branch No. 3  
Division of Licensing

Director, Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

| <u>MARK NO.</u> | <u>MANUFACTURER</u>        | <u>MODEL NO.</u>   | <u>LOAD</u> | <u>STROKE</u> |
|-----------------|----------------------------|--------------------|-------------|---------------|
| 2-PS-MSS-1A     | Pacific Scientific Company | PSA-1              | 1500 lbs.   | 4 in.         |
| 2-PS-MSS-2A     | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-PS-MSS-14A    | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-PS-MSS-1B     | Pacific Scientific Company | PSA-1              | 1500 lbs.   | 4 in.         |
| 2-PS-MSS-2B     | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-PS-MSS-15B    | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-PS-MSS-16B    | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-PS-MSS-1C     | Pacific Scientific Company | PSA-1              | 1500 lbs.   | 4 in.         |
| 2-PS-MSS-2C     | Pacific Scientific Company | PSA-1              | 1500 lbs.   | 4 in.         |
| 2-PS-MSS-15C    | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-RC-MSS-1      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-RC-MSS-2      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-RC-MSS-3      | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 650 lbs.    | 2.5 in.       |
| 2-RC-MSS-4      | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 650 lbs.    | 2.5 in.       |
| 2-RH-MSS-1      | Pacific Scientific Company | PSA- $\frac{1}{2}$ | 350 lbs.    | 4 in.         |
| 2-SW-MSS-1      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-CH-MSS-1      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-CH-MSS-2      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-RH-MSS-2      | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-1     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-2     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-3     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-4     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-5     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |
| 2-SHP-MSS-6     | Pacific Scientific Company | PSA-3              | 6000 lbs.   | 5 in.         |