

50-328

400 Chestnut Street Tower II

September 2, 1980

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

Dear Mr. O'Reilly:

SEQUOYAH NUCLEAR PLANT UNIT 2 - COPEL-VULCAN VALVE WEIGHT INCORRECT - NCR
NEB 80-1 AND NCR SQN NEB 8020 - SUPPLEMENTAL INFORMATION

The subject deficiency was initially reported to NRC-OIE Inspector
W. T. Cottle on January 11, 1980, in accordance with 10 CFR 50.55(e)
as NCR NEB 80-1. A final report was submitted on February 11, 1980. We
have since determined that additional valves are affected by this
nonconformance. This nonconformance was designated NCR SQN NEB 8020 and
was reported to NRC-OIE Inspector C. R. McFarland on July 10, 1980. At
that time, we agreed to revise the final report on NCR NEB 80-1 to include
the additional valves. A supplemental report was submitted on August 15,
1980. Enclosed is our revised final report. Please note that TVA has
renumbered NCR NEB 80-1 as NCR SQN NEB 8001.

If you have any questions, please get in touch with D. L. Lambert at
FTS 867-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Hills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Director (Enclosure) ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 2
 COPE-S-VULCAN VALVE WEIGHTS INCORRECT
 NCR'S NEB 80-1 (SQN NEB 8001) AND SQN NEB 8020
 10 CFR 50.55(e)
REVISED FINAL REPORT

Description of Deficiency

NCR NEB 80-1 (renumbered SQN NEB 8001) covered incorrect air-operated block valve weights used in the piping load analysis for the two-inch lines used to flush the UHI system check valves. There are two block valves per plant unit, tag number 2-1A78RE, location numbers 9967 and 9985, located outside the containment. The valves are supplied by Westinghouse and are manufactured by Copes-Vulcan. The valve weight specified on the Copes-Vulcan drawing is nominally 240 pounds, whereas the actual weight has been determined to be approximately 345 pounds.

NCR SQN NEB 8020 covers additional Copes-Vulcan valves in the UHI system having erroneous weights and correct weights as tabulated below. The incorrect weights were used in piping analyses similarly to those of the previous NCR.

<u>Location Number</u> (In Each Plant Unit)	<u>Valve ID</u> <u>Number</u>	<u>Incorrect</u> <u>Weight/lbs</u>	<u>Correct</u> <u>Weight/lbs</u>
9920	3/4 IA78RES	180	225
9933	3/4 IA78RES	180	225
9924	3/4 IA78RE	170	225
9925, 9966	3/4 IA78RE	170	225
9984A, 9984B	2 IA88RG	240	345
9914	1 IA78RE	170	230
1-HCV-123 (unit 2 only)	1 RA78RE	200	139
9961, 8097, 8252, 8279, 8440, 8796, 9179	4 C42	130	99
9980A, 9980B, 9980C, 9980D	8 C88	2450	902
9981A, 9981B	12 C88	3500	1852

Safety Implications

The loads determined in the piping system analyses are used in specifying the piping supports. The erroneous valve weight could therefore have resulted in installed supports which would be inadequate to perform their required safety functions. The piping could have failed, resulting in lower UHI flow rates than were assumed in the plant safety analysis to mitigate a LOCA.

Corrective Action

The piping system load analyses were rerun using the correct valve weights. The resulting new loads were then applied in the support calculations, and the existing supports were found to be adequate to absorb the new loads. The supports, one on either side of each valve are of standard design and had sufficient overdesign in these applications for the new loads.