

TENNESSEE VALLEY AUTHORITY REGION II  
CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II  
ATLANTA, GEORGIA

June 7, 1983 JUN 13 PII: 10

U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

OFFICE OF INSPECTION AND ENFORCEMENT BULLETIN 83-03 - SEQUOYAH NUCLEAR  
PLANT UNITS 1 AND 2 50-327 AND 50-328

In response to R. C. DeYoung's letter dated March 10, 1983 concerning IE  
Bulletin No. 83-03: Check Valve Failures in Raw Water Cooling Systems of  
Diesel Generators, we are providing the enclosed response. The enclosure  
addresses items 1, 2, 3, and 4 and completes our response to the Bulletin  
for the Sequoyah Nuclear Plant.

If you have any questions, please get in touch with K. P. Parr at  
FTS 858-2688.

To the best of my knowledge, I declare the statements contained herein are  
complete and true.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*  
L. M. Mills, Manager  
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

8306290388 830607  
PDR ADOCK 05000327  
Q PDR

IE11.1

ENCLOSURE  
RESPONSE TO NRC IE BULLETIN 83-03  
Check Valve Failures in Raw Cooling Water  
Systems of Diesel Generators

Sequoyah Nuclear Plant has reviewed its ASME Section XI Pump and Valve Inservice Test (IST) Program and verified that it includes all emergency raw cooling water (ERCW) check valves in the diesel generator cooling water flow path from intake to discharge. The following is a list of valves identified.

ERCW Supply to Diesels

<u>Valve No.</u>	<u>Size</u>	<u>Drawing No.</u>
1-67-508A	6"	47W845-1
2-67-508A	6"	47W845-1
1-67-508B	6"	47W845-1
2-67-508B	6"	47W845-1
1-67-513A*	6"	47W845-1
2-67-513A*	6"	47W845-1
1-67-513B*	6"	47W845-1
2-67-513B*	6"	47W845-1

ERCW Discharge from Diesels

<u>Valve No.</u>	<u>Size</u>	<u>Drawing No.</u>
1-67-512A	8"	47W845-1
2-67-512A	8"	47W845-1
1-67-512B	8"	47W845-1
2-67-512B	8"	47W845-1
1-67-517A	8"	47W845-1
2-67-517A	8"	47W845-1
1-67-517B	8"	47W845-1
2-67-517B	8"	47W845-1

ERCW Pump Discharge

<u>Valve No.</u>	<u>Size</u>	<u>Drawing No.</u>
67-723A	24"	47W845-5
67-723B	24"	47W845-5
67-724A	24"	47W845-5
67-724B	24"	47W845-5
67-743A	24"	47W845-5
67-743B	24"	47W845-5
67-744A	24"	47W845-5
67-744B	24"	47W845-5

- \* These four additional ERCW diesel supply check valves are not presently tested in the ASME Section XI Pump and Valve IST Program. They are categorized C passive (no testing required) valves since they do not normally supply water to the diesel generator. However, since they may dislodge and block flow, they have been added in accordance with the requirements of this bulletin.

Verification of the integrity of the ERCW pump discharge check valves is accomplished using surveillance instruction (SI) 45.1, "Essential Raw Coolant Water Pumps." This instruction is presently being performed on a quarterly basis and uses both a forward flow and reverse flow test to ensure check valve integrity.

The ERCW supply and discharge check valves in the normal flowpath to the diesel generators are stroked fully open at least once per quarter during testing of the diesel generators. To meet the requirements of this bulletin, the ERCW supply and discharge check valves to the diesel generators will be disassembled and visually inspected on a basis of at least once every 24 months.

ENCLOSURE  
RESPONSE TO NRC IE BULLETIN 83-03  
(Continued)

Surveillance instruction (SI) 166.37, "Inspection of Diesel Generator ERCW Supply Check Valves," and SI-166.38, "Inspection of Diesel Generator ERCW Discharge Valves," will be used to perform this inspection with the initial inspection to be completed prior to startup after refueling cycle 1 on unit 2.

Sequoyah Nuclear Plant has Daniels Industries, Incorporated Model 1601-AC check valves installed in the supply and discharge lines to the diesel generator, and the ERCW pump discharge valves are manufactured by Anderson Greenwood (series CV1A). The plant has not experienced any failures on these valves.