

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

January 25, 1984

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

Dear Mr. O'Reilly:

INSPECTION AND ENFORCEMENT BULLETIN 83-03 - CHECK VALVE FAILURES IN  
RAW WATER COOLING SYSTEMS OF DIESEL GENERATORS - BROWNS FERRY NUCLEAR  
PLANT

Enclosed is a revised response to the subject bulletin for the Browns  
Ferry Nuclear Plant. This response revises portions of those submitted  
by my letters to you dated June 15 and November 7, 1983. If you have any  
questions, please call Jim Dorn at FTS 858-2725.

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: U.S. Nuclear Regulatory Commission (Enclosure)  
Document Control Desk  
Washington, D.C. 20555

8402140166 840125  
PDR ADOCK 05000259  
Q PDR

ENCLOSURE  
REVISED RESPONSE TO IE BULLETIN 83-03  
DATED MARCH 10, 1983  
BROWNS FERRY NUCLEAR PLANT

- References: 1. TVA letter from L. M. Mills to J. P. O'Reilly  
dated June 15, 1983  
2. TVA letter from L. M. Mills to J. P. O'Reilly  
dated November 7, 1983

Response to Item 1

The Emergency Equipment Cooling Water (EECW) check valves to diesel generators subject to the bulletin requirements were identified in reference 1. No change to that list is proposed.

Response to Item 2

The check valves in the Emergency Equipment Cooling Water (EECW) system to the diesel generator (D/G) coolers at Browns Ferry will be disassembled and inspected annually. The inspection frequency will correspond to the present annual D/G inspection frequency. The D/G cooler EECW check valves will be inspected per a plant-approved Mechanical Maintenance Instruction (MMI). The ASME section XI Inservice Testing Instruction will not be modified to backflow test the D/G check valves since this would be redundant verification.

Response to Item 3 (Schedule)

The EECW check valves to one of the units 1 and 2 D/Gs were inspected in October 1983. The check valves to the other seven D/Gs will be inspected by January 1, 1985. This time period allows for completion of each D/G's annual inspection.

Response to Item 4

The valve integrity verification will be performed by disassembly. Review of available maintenance history records and discussions with informed maintenance personnel revealed that there have been no failures or significant problems associated with these valves.

EECW flow to each D/G engine cooler is presently being verified every six weeks. To date, none of these tests has indicated that a D/G is receiving inadequate flow because of the EECW check valves. Additionally, flow from each individual EECW header is being verified every quarter, and none of these tests has shown any flow problems caused by the check valves. These tests will continue to be performed at the stated frequency for this purpose until the initial inspections can be performed.

Response to Item 5 (Results of Inspections)

During the inspection of the units 1 and 2 D/G in October 1983, two of the EECW check valves were found frozen open by crud, and two of the check valves would not operate through the full design range of the flapper swing. The D/G coolers have two separate sources of EECW with two check valves in series in each source. One of the check valves was cleaned and returned to service. The other three check valves were replaced.