

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1630 Chestnut Street Tower II

January 24, 1985

U.S. Nuclear Regulatory Commission  
Region II  
ATTN: James P. O'Reilly, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

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

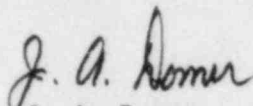
Enclosed is an updated response to the subject bulletin for the Browns  
Ferry Nuclear Plant. This response revises portions of those responses  
submitted by L. M. Mills' letters to you dated June 15 and November 7,  
1983 and January 15, 1984. If you have any questions, please call Dennis  
McCloud at FTS 858-2725.

This concludes all actions as required by IE Bulletin 83-03.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. A. Domer  
Nuclear Engineer

Enclosure

cc (Enclosure):

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Mr. R. J. Clark  
Browns Ferry Project Manager  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, Maryland 20814

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PDR ADOCK 05000259  
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ENCLOSURE  
REVISED RESPONSE TO IE BULLETIN 83-03  
DATED MARCH 10, 1983

- References:
1. Letter from L. M. Mills to J. P. O'Reilly dated June 15, 1983
  2. Letter from L. M. Mills to J. P. O'Reilly dated November 7, 1983
  3. Letter from L. M. Mills to J. P. O'Reilly dated January 25, 1984

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. A revised list is attached (attachment A). The revised list deletes the EECW pump discharge check valves as allowed by the subject IE bulletin.

Response to Item 2

The check valves in the 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. The ASME Section XI Inspection 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)

All EECW check valves identified in attachment A have been disassembled and their integrity verified. Also, all the valves have been replaced with new stainless steel check valves.

Response to Item 4

The valve integrity verification has been performed. 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, except as noted below in item 5.

EECW flow to each D/G engine cooler is presently being verified every six weeks. To date, none of these tests have 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 have shown any flow problems caused by the check valves. The EECW system will continue to be tested per ASME Section XI Inservice Testing requirements.

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 crude, 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.

The remainder of the EECW check valves identified in attachment A have been disassembled and visually inspected. No failures were identified. As discussed above, all the EECW check valves have been replaced with stainless steel check valves, therefore, no EECW check valve failures are expected in the future. The annual valve integrity inspections mentioned in item 2 will, however, be continued until sufficient operational experience exists for reconsideration.

Attachment A

Listing of Emergency Equipment Cooling Water (EECW) Check Valves to Diesel Generator (D/G) Coolers

D/G 1A Cooler

67-528  
67-529  
67-534  
67-535

D/G 3A Cooler

67-693  
67-694  
67-695  
67-696

D/G 1B Cooler

67-521  
67-522  
67-630  
67-631

D/G 3B Cooler

67-703  
67-704  
67-705  
67-706

D/G 1C Cooler

67-514  
67-515  
67-624  
67-625

D/G 3C Cooler

67-713  
67-714  
67-715  
67-716

D/G 1D Cooler

67-507  
67-508  
67-627  
67-628

D/G 3D Cooler

67-723  
67-724  
67-725  
67-726