

TENNESSEE VALLEY AUTHORITY  
CHATTANOOGA, TENNESSEE 37401



May 16, 1975

Mr. Norman C. Moseley, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 818  
230 Peachtree Street, NW.  
Atlanta, Georgia 30303

Dear Mr. Moseley:

OFFICE OF INSPECTION AND ENFORCEMENT BULLETIN 75-03 - IE:II:NCM  
50-259, -260, -296, -327, -328, -390, -391, -438, -439 - BROWNS  
FERRY UNITS 1, 2, AND 3, SEQUOYAH, WATTS BAR, AND BELLEFONTE  
NUCLEAR PLANT UNITS 1 AND 2

This is in further response to your March 14, 1975, letter,  
which transmitted IE Bulletin 75-03 concerning Incorrect Lower  
Disc Spring and Clearance Dimension in Series 8300 and 8302 ASCO  
Solenoid Valves. An interim report was submitted on April 16, 1975.  
This is submitted as a final response to IE Bulletin 75-03.

The results of our investigation into this matter show that we do  
use Automated Switch Company (ASCO) valves of the type described in  
IE Bulletin 75-03 in safety-related systems.

We have contacted ASCO concerning this problem and enclosed is their  
reply and recommended adjustment instructions. Each project will be  
furnished a copy of this information for inclusion in their inspection  
program. The program will be completed before the restart of Browns  
Ferry units 1 and 2 and before fuel loading for Browns Ferry unit 3.  
At Sequoyah, Watts Bar, and Bellefonte, the inspection will be  
included as part of the construction checks and will be completed  
before preoperational testing.

Very truly yours,

A handwritten signature in dark ink, appearing to read "J. E. Gilleland". The signature is fluid and cursive.

J. E. Gilleland  
Assistant Manager of Power

Enclosure

Letter to N. C. Moseley from Tennessee Valley Authority dated May 16, 1975.  
This is a supplemental response.

DISTRIBUTION:

H. D. Thornburg, IE

IE:HQS (5)

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J. Rizzo, OMIPC

PDR

Local PDR

NSIC

TIC

Chief, Regulatory News Branch, OIS, HQs

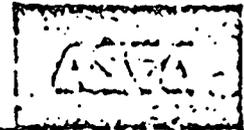
50-390

50-391

Reply to IEB - 75-03

A0  
(21)

LB



April 9, 1975

Tennessee Valley Authority  
Millers Building  
Knoxville, Tennessee 37902

Attention: H. C. Russell, Project Manager  
Browns Ferry

Subject: Inspection and Enforcement Bulletin 75-03 Dated  
March 14, 1975 Regarding Bulletin 8300 and 8302 Valves.

Gentlemen:

I reviewed the Inspection and Enforcement Bulletin 75-03 and find the contents to be somewhat misleading in regard to the causes of a possible malfunction of this type valve.

I inspected Catalog HB8302C25F with Serial No. 96681R1 from the Point Beach Nuclear Plant and found it contained a lower disc spring stronger than specified. However, the actual cause of the malfunction was found to be insufficient clearance (gap between the lower surface of the lever and the lower disc when the valve was energized). When the clearance was adjusted to the minimum .008, the valves functioned normally in every respect. This may have occurred in this one case if the valve was serviced, that is, the lower disc replaced without checking the gap.

The reports of incorrect springs in the spare parts kits is misleading since the springs in the spare parts kits do not always match the color of the springs in some of the valves, especially if the valves are several years old. During the normal process of product improvement, the springs in some of the Bulletin 8300 and 8302 valves were changed to improve their operation when going to the energized position at the catalog maximum pressure rating. Spare parts kits include the current springs so that all valves serviced in the field will then contain springs the same as valves of current construction. The springs in the older valves need not be changed unless the valves are being completely rebuilt with spare parts kits.

For valves in service, the lower stroke can be checked per the attached & M Sheet V5503, which is included in all spare parts kits. Another method is to remove the end cap, energize the valve and check the gap by using a piece of .008 sheet stock. This can be done during normal plant shutdown.

April 9, 1975

8300 and 8302 valves with suffix letters RF, RG or RU contain resilient seats. Inasmuch as rubber parts do age, we suggest they be replaced at least every three years. This does not apply to valves having metal-to-metal seating.

To provide longer life, we suggest all valves having an 'R' suffix letter in the catalog number be converted to metal-to-metal seating. This can be accomplished by installing a kit per the attached listing.

We suggest the following action be taken by licensees:

1. Confirm sufficient clearance of gap between the lever and the lower disc stem end is .008" to .016" on all valves on the attached list.
2. Licenses having valves with resilient seats (Suffix RF, RG, RU) on the attached list in service on safety related systems should supply the quantity of each catalog number and serial number including all letters. ASCO will supply, at no charge, the required parts to convert the valves to metal to metal seating at the next normal shut down. This conversion would provide greater life and less maintenance.

We trust the above will explain the problem, however, if any additional information is required, please contact us at (201) 956-2065.

Very truly yours,

AUTOMATIC SWITCH COMPANY



Lewis H. Cason  
Technical Service Specialist

LHC:jed

cc: U. S. Nuclear Regulatory Commission  
Mr. Vincent Thomal  
Mr. Jesse Crews  
ASCO Atlanta  
Nuclear Power Plants

April 9, 1975

ASCO 8300-8302 VALVES

(ALL D/C SERVICE & OTHER 8300 & 8302 CATALOG NUMBERS NOT APPLICABLE)

VALVES WITH CATALOG NO. SUFFIX  
RF, RG OR RU (RESILIENT SEATS)

A/C  
SPARE PARTS KIT  
METAL-TO-METAL SEATS

830080	830280	103-804
830081	830281	103-804
830082	830282	103-804
*830083	*830283	158-089
8300C3	8302C1	103-802
8300C6	8302C3	164-653
8300C9	8302C4	164-653
*8300A32	*8302A8	158-088
*8300A41	*8302A46	158-089
8300C55	8302C24	103-800
8300C58	8302C25	103-802
8300C61	8302C26	164-653
8300C64	8302C27	103-807
8300C68	8302C29	103-807
8300C72	8302C31	103-809
8300C76	8302C33	103-809
*8300A89	*8302A38	102-687
*8300A98	*8302A42	102-688
8300C102	8302C5	103-802
*8300A203	*8302A203	102-687
*8300A204	*8302A204	102-688
*8300A403	*8302A403	102-647
*8300A404	*8302A404	102-648

\* - Steel or stainless steel bodies, all others brass.

1. Only above valves need be checked for proper lower disc clearance. All other 8300 or 8302 catalog numbers are O.K.
2. Any of above valves having only Suffix F, G or U are metal-to-metal seating.
3. Above valves with Suffix RF, RG or RU have resilient seats and can be converted to metal-to-metal seating by installing kit listed.

LHC:jed