

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

May 7, 1973

Mr. Norman C. Moseley, Director
Directorate of Regulatory Operations
U.S. Atomic Energy Commission
Region II - Suite 818
230 Peachtree Street, NW.
Atlanta, Georgia 30303

Dear Mr. Moseley:

This is in further response to DRO December 4, 1972, letter, RO:II:50-259, 50-260, 50-296, and 50-327, 50-328, on the subject of Limitorque valve operator failures.

Enclosed is a list, by system, of Browns Ferry unit 2 motor-operated valves showing those requiring corrective action to the torque switch torsion spring. The valves bearing the indication "later" are still in the procurement process; therefore, the operator information is not available. We will, however, assure that they have the correct operators.

We estimate the date for completion of corrective action to be October 1, 1973.

Very truly yours,

J. E. Gilleland

J. E. Gilleland
Assistant to the Manager of Power

Enclosure

8307080586 731116
PDR ADOCK 05000259
P PDR

Handwritten:
50-259
260
296
327
328

VALVE TAG NO.	TVA MARK NO. OR OR GE MPD NO.	OPERATOR TYPE & SIZE	LIMIT-TORQUE ORDER NO.	OPERATOR SERIAL NO.	MODIFY OPENING CIRCUIT *	MODIFY TORQUE SWITCH IN CLOSING CIRCUIT	TORQUE SWITCH TORSION SPRING CHANGE
FCV-1-55	47W400-1	SMB-000	333688H	94513A	YES	NA	YES
FCV-1-56	47W400-1	SMB-000	333688G	94514A	YES	NO	YES
FCV-1-57	47W400-10	SMB-00	335961A	111753	NO	NA	YES
FCV-1-58	47W400-10	SMB-00	335961A	111752	NO	NA	YES
FCV-1-59	47W400-6	SMB-000	335960A	110896	NO	NA	YES
FCV-1-121	47W400-5	SMB-00	335959A	111700	NO	NA	YES
FCV-1-125	47W400-1	SMB-000	335959A	93096A	NO	NA	YES
FCV-1-129	47W400-5	SMB-00	335959A	111692	NO	NA	YES
FCV-1-133	47W400-1	SMB-000	335949	93095A	NO	NA	YES
FCV-1-137	47W400-5	SMB-00	335959A	111693	NO	NA	YES
FCV-1-141	47W400-1	SMB-000	335949	93097A	NO	NA	YES
FCV-1-146	N1-MOV-82	SMB-00	347873A	119517	NO	NA	YES
FCV-1-149	N1-MOV-8	SMB-000	348768A	122555	NO	NA	YES
FCV-1-154	N1-MOV-36	SMB-00	347873A	118517	NO	NA	YES
FCV-1-155	47W400-22	SMB-000	362512A	150405	NO	NA	NO
FCV-1-156	47W400-22	SMB-000	362512A	150401	NO	NA	NO
FCV-1-168	47W400-22	SMB-000	362512A	150408	NO	NA	NO
FCV-1-169	47W400-22	SMB-000	362512A	150410	NO	NA	NO
FCV-1-170	47W400-22	SMB-000	362512A	150400	NO	NA	NO
FCV-1-171	47W400-22	SMB-000	362512A	150402	NO	NA	NO
FCV-1-172	47W400-22	SMB-000	362512A	150403	NO	NA	later
FCV-1-173	47W400-22	SMB-000	362512A	150404	NO	NA	later
FCV-1-176A	47W400-23				NO	NA	later
FCV-1-176B	47W400-23				NO	NA	later
FCV-1-145		SMB-0	347873B	119937	NO	NA	NA

*Remove torque switch from opening circuit.

Reference Drawings:

47W601-1-1 through-20 ---- Instrument Tabulation

DATE	NO.	CHG	BY	REV	BY
1968	1				
1968	2				
1968	3				
1968	4				
1968	5				

FCV-1-208

POWER DIVISION UNIT 2		
MECHANICAL VALVE MOTOR OPERATOR TABULATION		
BROWNS FERRY NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN		
SUBMITTED J. L. K. H.	RECOMMENDED J. L. K. H.	APPROVED J. L. K. H.
Knoxville, Tenn. 37614-47A355-		

VALVE TAG NO.	TVA MARK NO. OR GE MPL	OPERATOR TYPE & SIZE	LIMIT-TORQUE ORDER NO.	OPERATOR SERIAL NO.	MODIFY OPENING CIRCUIT *	MODIFY TORQUE SWITCH IN CLOSING CIRCUIT	TORQUE SWITCH TORSION SPRING CHANGE
FCV-6-63	47W425-6	SMB-000	344636A	111507	NO	NA	YES
FCV-6-74	47W425-6	SMB-000	344636A	111505	NO	NA	YES
FCV-6-85	47W425-6	SMB-000	344635B	112802	NO	NA	YES
FCV-6-94	47W425-18	SMB-00	341389A	111432	NO	NA	YES
FCV-6-95	47W425-18	SMB-00	341389A	111434	NO	NA	YES
FCV-6-96	47W425-18	SMB-00	341389A	111433	NO	NA	YES
FCV-6-97	47W425-14	SMB-00	341387A	111907	NO	NA	YES
FCV-6-98	47W425-14	SMB-00	341392A	111260	NO	NA	YES
FCV-6-99	47W425-14	SMB-00	341392A	111261	NO	NA	YES
FCV-6-100	MOV-SV1	SMB-000	342324A	109047	NO	NA	YES
FCV-6-101	MOV-SV3	SMB-000	342324A	109048	NO	NA	YES
FCV-6-102	MOV-SV5	SMB-000	342324A	109049	NO	NA	YES
FCV-6-103	MOV-SV7	SMB-000	342324A	109050	NO	NA	YES
FCV-6-104	MOV-TV1	SMB-000	343162A	109077	NO	NA	YES
FCV-6-105	MOV-TV3	SMB-000	343162A	109078	NO	NA	YES
FCV-6-106	MOV-CV5	SMB-000	343162A	109079	NO	NA	YES
FCV-6-107	MOV-TV7	SMB-000	343162A	109080	NO	NA	YES
FCV-6-109	MOV-S4	SMB-000	353566A	131050	NO	NA	YES
FCV-6-111	47W425-90	SMB-000	346560A	116251	NO	NA	YES
FCV-6-112	47W425-90	SMB-000	346560A	116252	NO	NA	YES
FCV-6-113	47W425-85	SMB-000	345163A	111510	NO	NA	YES
FCV-6-114	47W425-85	SMB-000	346560A	116259	NO	NA	YES
FCV-6-115	47W425-93	SMB-000	346560B	119952	NO	NA	YES
FCV-6-116	47W425-94	SMB-000	346560B	119954	NO	NA	YES
FCV-6-120	47W425-91	SMB-000	346560A	116245	NO	NA	YES

*Remove torque switch from opening circuit.

Reference Drawings:

47B601-6-1 through-17 ---- Instrument Tabulation

DATE	MADE	USED	DATE	BY	REVISION
					ECN 10-208
DATE	MADE	USED	DATE	BY	REVISION

POWERHOUSE UNIT 2	
MECHANICAL VALVE MOTOR OPERATOR TABULATION	
BROWNS FERRY NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN	
RECOMMENDED <i>[Signature]</i>	APPROVED <i>[Signature]</i>
Knoxville, Tenn. 37614 47A366-	

VALVE TAG NO.	TVA MARK NO. OR GE MFL	OPERATOR TYPE & SIZE	LIMIT-TORQUE ORDER NO.	OPERATOR SERIAL NO.	MODIFY OPENING CIRCUIT *	MODIFY TORQUE SWITCH IN CLOSING CIRCUIT	TORQUE SWITCH TORSION SPRING CHANGE
FCV-6-121	47M425-91	SMB-000	346560A	116770	NO	NA	YES
FCV-6-122	47M425-86	SMB-000	346560A	116250	NO	NA	YES
FCV-6-123	47M425-86	SMB-000	346560A	116271	NO	NA	YES
FCV-6-124	47M425-89	SMB-000	346560B	119951	NO	NA	YES
FCV-6-125	47M425-91	SMB-000	346560A	116299	NO	NA	YES
FCV-6-126	47M425-91	SMB-000	346560A	116291	NO	NA	YES
FCV-6-127	47M425-86	SMB-000	346560A	116275	NO	NA	YES
FCV-6-128	47M425-86	SMB-000	346562A	116289	NO	NA	YES
FCV-6-129	47M425-89	SMB-000	346560B	119955	NO	NA	YES
FCV-6-130	47M425-91	SMB-000	346560A	116298	NO	NA	YES
FCV-6-131	47M425-91	SMB-000	346560A	116286	NO	NA	YES
FCV-6-132	47M425-86	SMB-000	346560A	116247	NO	NA	YES
FCV-6-133	47M425-86	SMB-000	346560A	116292	NO	NA	YES
FCV-6-134	47M425-89	SMB-000	347817A	117676	NO	NA	YES
FCV-6-153	47M425-87	SMB-000	346560B	119999	NO	NA	YES
FCV-6-154	47M425-91	SMB-00	346560A	116294	NO	NA	YES
FCV-6-155	47M425-87	SMB-000	346560B	119953	NO	NA	YES
FCV-6-156	47M425-91	SMB-000	346560A	116293	NO	NA	YES
FCV-6-157	47M425-87	SMB-000	346560B	119950	NO	NA	YES
FCV-6-158	47M425-91	SMB-000	346560A	116296	NO	NA	YES
FCV-6-167	47M425-83	SMB-000	346560A	116264	NO	NA	YES
FCV-6-170	47M425-6	SMB-000	344635B	112801	NO	NA	YES
FCV-6-172	47M425-6	SMB-000	344635B	112803	NO	NA	YES
FCV-6-174	47M425-6	SMB-000	344635A	112102	NO	NA	YES

*Remove torque switch from opening circuit.

DATE	BY	CHKD	DATE
10/1/83	RG		
10/1/83	RG		
10/1/83	RG		

ECN M-203

POWERHOUSE UNIT 2		
MECHANICAL VALVE MOTOR OPERATOR TABULATION		
BROWNS FERRY NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN		
SUBMITTED 10/1/83	RECOMMENDED 10/1/83	APPROVED 10/1/83
Knoxville 47M425-87M 4 47A368-		

VALVE TAG NO.	TVA MARK NO. OR GE MPL	OPERATOR TYPE & SIZE	LIMIT TORQUE ORDER NO.	OPERATOR SERIAL NO.	MODIFY OPENING CIRCUIT *	MODIFY TORQUE SWITCH IN CLOSING CIRCUIT	TORQUE SWITCH TORSION SPRING CHANGE
FCV-66-2	47M405-5	SMB-000	338460A	100643	NO	NA	YES
FCV-66-3	47M405-5	SMB-000	338460A	100924	NO	NA	YES
FCV-66-4	47M405-5	SMB-000	338460A	101226	NO	NA	YES
FCV-66-5	47M405-5	SMB-000	338460A	100644	NO	NA	YES
FCV-66-6	47M405-5	SMB-00	338460A	100922	NO	NA	YES
FCV-66-7	47M405-5	SMB-000	338460A	100926	NO	NA	YES
FCV-66-10	47M405-1	SMB-000	337751A	99136A	NO	NA	YES
FCV-66-34	MOV-D1	SMB-000	339480A	93070A	NO	NA	YES
FCV-66-35	MOV-D2	SMB-000	339480A	93070A	NO	NA	YES
FCV-66-36	47M405-6	SMB-000	338460A	99134A	NO	NA	YES
FCV-66-1A	47M405-1A	SMB-00	341380A	111900	NO	NA	YES
FCV-66-1B	47M405-1B	SMB-00	341380A	111900	NO	NA	YES
FCV-66-40	47M405-6	SMB-000	338468B	100920	NO	NA	YES
FCV-66-72	47M405-55	SMB-0	369825		NO	NA	NA
FCV-66-70	47M405-50	SMB-1	369824		NO	NA	NA
FCV-66-85	47M405-55	SMB-0	369825		NO	NA	NA
FCV-66-91	47M405-50	SMB-1	369824		NO	NA	NA

*Remove torque switch from opening circuit.

Reference Drawings:

47B601-66-1 through -6 ---- Instrument Tabulation

DATE	BY	CHKD	APPD
11/15/83	WVS	ROC	
11/15/83			
11/15/83			

ECN NO. 208

POWERHOUSE UNIT 2		
MECHANICAL VALVE MOTOR OPERATOR TABULATION		
BROWNS FERRY NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN		
SUBMITTED	RECOMMENDED	APPROVED
Knoxville 11/15/83 14 47A358-		

VALVE TAG NO.	TVA MARK NO. OR GE MFD NO.	OPERATOR TYPE & SIZE	LIMIT-TORQUE ORDER NO.	OPERATOR SERIAL NO.	MODIFY OPENING CIRCUIT *	MODIFY TORQUE SWITCH IN CLOSING CIRCUIT	TORQUE SWITCH TORSION SPRING CHANGE
FCV-74-1	GE-10-13A	SMB-1	332194G	86225A	YES	NA	NA
FCV-74-2	47452-413	SMB-0	335956A	113003	YES	NA	NA
FCV-74-3	47452-410	SMB-000	335956A	11695	YES	NA	YES
FCV-74-12	GE-10-13B	SMB-1	332194G	86224A	YES	NA	NA
FCV-74-13	47452-415	SMB-0	335956A	113001	YES	NA	NA
FCV-74-24	GE-10-13B	SMB-1	332194G	86220A	YES	NA	NA
FCV-74-25	47452-413	SMB-0	335956A	113004	YES	NA	NA
FCV-74-30	47452-410	SMB-000	335955A	111430	YES	NA	YES
FCV-74-33	GE-10-13B	SMB-1	332194G	86219A	YES	NA	NA
FCV-74-36	47452-415	SMB-0	335956A	113002	YES	NA	NA
FCV-74-46	47452-405	SMB-2	335962A	119524	YES	NA	NA
FCV-74-47	GE-10-17	SMB-3	332194F	80610A	YES	YES	NA
FCV-74-48	GE-10-18	SMB-2	332194E	89025A	YES	NA	NA
FCV-74-52	GE-10-154A	SMB-5	332543K	94155A	YES	NA	NA
FCV-74-53	GE-10-25A	SMB-4	332194H	92552A	YES	NA	NA
FCV-74-57	GE-10-39A	SMB-2	332194D	85632A	YES	NA	NA
FCV-74-58	GE-10-38A	SMB-00	357504A	138767	YES	NA	YES
FCV-74-59	GE-10-34A	SMB-2	332194I	87005A	YES	NA	NA
FCV-74-60	GE-10-26A	SMB-2	332194C	85935A	YES	NA	NA
FCV-74-61	GE-10-31A	SMB-2	332194C	85933A	YES	NA	NA
FCV-74-62	45452-414	SMB-00	347702A	124342	NO	NA	YES
FCV-74-63	47452-414	SMB-00	347703A	124344	NO	NA	YES
FCV-74-66	GE-10-154B	SMB-5	332194K	94154A	YES	NA	NA
FCV-74-67	GE-10-25B	SMB-4	332194H	92553A	YES	NA	NA
FCV-74-71	GE-10-39B	SMB-2	332194D	85631A	YES	NA	NA

*Remove torque switch from opening circuit.

Reference Drawings:

473601-74-1 through -14 ---- Instrument Tabulation

DATE	BY	CHKD	APPD
11/10/88	NMS	RGC	

FCV 74-208

POWERHOUSE UNIT 2		
MECHANICAL VALVE MOTOR OPERATOR TABULATION		
BROWNS FERRY NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN		
SUBMITTED <i>[Signature]</i>	RECOMMENDED <i>[Signature]</i>	APPROVED <i>[Signature]</i>
Knoxville, TN 37614 473601-74-1		

RO file

MAY 21 1973

Letter from Tennessee Valley Authority dated May 7, 1973
Regulatory Operations Bulletin 72-3

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