

TENNESSEE VALLEY AUTHORITY

POOR ORIGINAL

CHA. TANOCGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 14, 1981



Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

SEQUOYAH NUCLEAR PLANT UNIT 2 - ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT - NCR'S SQN EEB 8023 THROUGH SQN EEB # 2 (EXCLUDING SQN EEB 8034), SQN EEB 8045R1, SQN EEB 8051, SQN MEB 800' 11, AND SQN NEB 8031 THROUGH SQN NEB 8034 - FIFTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on October 24, 1980, in accordance with 10 CFR 50.55(e). Interim reports were submitted on November 25, 1980, and January 23, February 18, and March 25, 1981. Enclosed is our fifth interim report. We expect to submit our next report by April 27, 1981.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Director (Enclosure) ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 2
ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
NCR SQN EEB 8023 (AND OTHERS)
10 CFR 50.55(e)
FIFTH INTERIM REPORT

Description of Deficiency

During the review of qualification records for electrical equipment required by NUREG-0588, a number of components were identified as having inadequate documentation to verify their qualification levels for the harsh environments resulting from abnormal or accident conditions at the plant. A list of the subject components is attached to this report.

Safety Implications

The equipment identified in this report is located in a number of auxiliary systems within the plant. Some of these systems are required to mitigate the effects of postulated accident sequences. If, during an accident, one of these components were to fail in the harsh environment created by the accident, this failure could possibly result in interrupting operation of a system(s) required to perform a direct accident-mitigating function.

Interim Progress

The interim progress on these open items is listed on the attachment to this report.

ATTACHMENT

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
SQNEEB8023R1	TS-74-43 TS-74-44 TS-44-45 TS-44-46	T657A1540	Honeywell	TVA has reviewed the available qualification documentation for this equipment and has concluded that the components are acceptable for use on an interim basis. These conclusions are supported in our response to NUREG-0588. However, to establish full equipment qualification, TVA will either type-test these instruments or replace them with qualified components in accordance with the guidelines and schedules of NUREG-0588.
SQNEEB8024	Essential Control Air Dryer		Pall Trinity Corporation	Same as SQNEEB8023R1.
SQNEEB8025	PDT65-80 PDT65-82 PDT65-90 PDT65-97	E13DL	Foxboro	Same as SQNEEB8023R1.
SQNEEB8026	FM30-148	T25	ITT Conoflow	Same as SQNEEB8023R1.
SQNEEB8027R1	FM30-148A FM30-149A TM-67-84 TM-67-85 TM-67-92 TM-67-93 TM-67-100 TM-67-108 TM-67-109 TM-67-101	SW231-IT " SW611 " " " " " " "	Transmation " " " " " " " "	Same as SQNEEB8023R1. TVA has determined that the failure of this equipment to function properly in an adverse environment does not affect any associated or related plant safety function. Therefore, this equipment using NUREG-0588 guidelines, meets category "C" requirements. Consequently, TVA may consider component replacement for reasons other than plant safety.
SQNEEB8028R1	TS-1-17A TS-1-17B TS-1-18A TS-1-18B	17323-0	Fenwal	See response to SQNEEB8023R1

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
SQNEEB8029R1	TS-30-103A	T675A1540	Honeywell	Deleted from this report, not applicable to SQN unit 2. See response to SQNEEB8023R1.
	TS-30-104A	"	"	
SQNEEB8030R2	PDIS-30-148	3301	Dwyer	See response to SQNEEB8023R1
	PDIS-30-149			
SQNEEB8031R1	FIS-67-206	288A	ITT Barton	See response to SQNEEB8023R1.
	FIS-67-209	"	"	
	FIS-65-554A/B	"	"	
	FIS-65-44E/F	"	"	
	FIS-65-25A/B	"	"	
	FIS-65-25C/D	"	"	
	FIS-65-31A/B	"	"	
	FIS-65-55C/D	"	"	
	FIS-65-44A/B	"	"	
	FIS-65-44C/D	"	"	
	FIS-65-25E/F	"	"	
	FIS-65-31C/D	"	"	
	FIS-70-81	"	"	
	PSID-313-305	"	"	
PSID-313-340	"	"		
SQNEEB8032R1	FT-72-13	555	Bailey Controls	See response to SQNEEB8023R1.
	FT-72-34	"	"	
	FT-70-81A	"	"	
	FT-70-81B	"	"	
	FT-70-81D	"	"	
	FT-70-81E	"	"	
	FT-3-142	"	"	
SQNEEB8033R1	RE-90-130	N/A	General Atomic	See response to SQNEEB8023R1.
	RE-90-131		"	
	RE-90-102		"	
	RE-90-103		"	
	RE-90-106		"	
	RE-90-112		"	
	RE-90-140		"	
	RE-90-141		"	
	RE-90-133		"	
RE-90-134	"			
SQNEEB8035R1	TS-30-190	A19BBC-2	PENN	Deleted from this report, not applicable to SQN 2.
	TS-30-191	"	"	
	TS-30-184	"	"	See response to SQNEEB8023R1.
	TS-30-185	"	"	
	TS-30-192	"	"	
	TS-30-193	"	"	
	TS-30-207	"	"	
	TS-30-175	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	TS-30-176	"	"	
	TS-30-177	"	"	
	TS-30-178	"	"	
	TS-30-179	"	"	
	TS-30-180	"	"	
	TS-30-182	"	"	
	TS-30-183	"	"	
	TS-30-194	"	"	
	TS-30-195	"	"	
	TS-30-196	"	"	
	TS-30-197	"	"	
	TS-30-200	"	"	
	TS-30-186	"	"	
	TS-30-187	"	"	
	TS-30-201	"	"	
	TS-30-202	"	"	
SQNEEB8036R2	FS-30-184	1627	F. W. Dwyer	See response to SQNEEB8023R1.
	FS-30-185	"	"	
	FS-30-192	"	"	
	FS-30-193	"	"	
	FS-30-157	"	"	
	FS-30-194	"	"	
	FS-30-195	"	"	
	FS-30-196	"	"	
	FS-30-197	"	"	
	FS-30-186	"	"	
	FS-30-202	"	"	
	FS-30-207	"	"	
	FS-30-201	"	"	
	FS-30-187	"	"	
	FS-30-200	"	"	Due to their location in the
	FS-30-207	"	"	plant, these flow switches are
				not qualified for the
				postulated accident
				environment. Therefore, TVA
				will replace these components
				with qualified equipment prior
				to unit 2 initial
				criticality.
SQNEEB8037R1	PS-32-62	604G	Custom Component	See response to SQNEEB8023R1.
	PS-32-88			
	PS-32-82			
	PS-32-85			
	PS-3-140A			
	PS-3-150A			
	PS-3-139A			
	PS-3-139B			
	PS-3-139D			

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	PS-3-144A			
	PS-3-144B			
	PS-3-144D			
	PS-3-140B			
	PS-3-150B			
	PS-3-138A			
	PS-3-138B			
	PS-3-148			
	PS-3-156			
	PS-3-164			
	PS-3-171			
	PS-70-209			
	PS-70-210			
SQNEEB8038P2	TS-30-103	18003-7	Fenwal	Deleted from this report; not applicable to SQN 2.
	TS-30-104	"	"	See response to SQNEEB8023R1.
	TS-30-214	"	"	
SQNEEB8039R1	FSV-1-181	HT3800B58RU	Asco	See response to SQNEEB8023R1.
	FSV-1-182	"	"	
	FSV-1-183	"	"	
	FSV-1-184	"	"	
	FSV-333-223	HT8300C58RF	Asco	Deleted; See NCR SQNMEB8007R2.
	FSV-313-225	"	"	
	FSV-313-230	"	"	
	FSV-313-232	"	"	
	FSV-77-127	WPXHV202-300-IF	Asco	See response to SQNEEB8023R1.
	FSV-90-108	HTX8320A22V	Asco	See response to SQNEEB8023R1
	FSV-90-109	"	"	
	FSV-90-110	"	"	
	FSV-90-114	"	"	
	FSV-90-115	"	"	
	FSV-90-116	"	"	
	FSV-30-298	HT8320A108	"	Deleted from this report, not applicable to SQN 2.
	FSV-30-299			
	FSV-30-3	HT8320A108	"	Deleted from this report, not applicable to SQN 2.
	FSV-30-6	"	"	
	FSV-30-60	"	"	
	FSV-30-69	"	"	
	FSV-30-146A	HT8320A185	"	
	FSV-30-146B	"	"	
SQNEEB8040R1	PT-3-132A	556	Bailey	See response to SQNEEB8023R1

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
SQNEEB8041	PM-3-122 PM-3-123	MEA1-19K-2 "	MEA "	See response to SQNEEB8023R1
SQNEEB8042	TS-12-91A TS-12-91B TS-12-92A TS-12-92B TS-12-93A TS-12-93B TS-12-94A TS-12-94B TS-12-95A TS-12-95B TS-12-96A TS-12-96B TS-12-97A TS-12-97B TS-12-98A TS-12-98B TS-12-99A TS-12-99B	27120-50	Fenwal	See response to SQNEEB8023R1
SQNEEB8045R3	2-HS-62-61B 2-HS-63-67B 2-HS-63-80B 2-HS-63-98B 2-HS-63-118B 2-HS-63-172B 2-HS-68-332B 2-HS-68-333B 2-HS-30-175 2-HS-30-176 2-HS-74-3B 2-HS-74-10B 2-HS-74-20B 2-HS-74-21B 2-HS-3-136A/B 2-HS-3-136B/B 2-HS-3-179A 2-HS-3-179B 2-HS-30-214 2-HS-46-54B 2-HS-46-54D 2-HS-45-55B 2-HS-45-56B 2-HS-74-33B 2-HS-74-35B	10250T " " " " " " " " " " " " " " "	Cutler-Hammer " " " " " " " " " " " " " " "	After reviewing the design, construction, and qualification data for these hand switches, TVA has concluded that the switches are acceptable for interim use. TVA is currently conducting type tests and safety evaluations on these components. The switches that cannot be qualified by either of the above methods will be removed from service in the areas where either the normal or accidental temperature exceeds 150 degrees F or total radiation dose exceeds 10^6 rads. This work will be accomplished before exceeding 5% power.

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	2-HS-26-240	10250T	Cutler-Hammer	
	2-HS-26-242	"	"	
	2-HS-26-245	"	"	
	2-HS-62-63B	"	"	
	2-HS-62-90B	"	"	
	2-HS-62-91B	"	"	
	2-HS-62-98	"	"	
	2-HS-62-99	"	"	
	2-HS-63-1B	"	"	
	2-HS-63-3B	"	"	
	2-HS-63-5B	"	"	
	2-HS-63-6B	"	"	
	2-HS-63-7B	"	"	
	2-HS-63-8B	"	"	
	2-HS-63-11B	"	"	
	2-HS-63-22B	"	"	
	2-HS-63-25B	"	"	
	2-HS-63-26B	"	"	
	2-HS-63-36	"	"	
	2-HS-63-37	"	"	
	2-HS-63-39B	"	"	
	2-HS-63-40B	"	"	
	2-HS-63-93B	"	"	
	2-HS-63-94B	"	"	
	2-HS-63-152B	"	"	
	2-HS-63-153B	"	"	
	2-HS-63-156B	"	"	
	2-HS-63-157B	"	"	
	2-HS-70-90B	"	"	
	2-HS-70-12B	"	"	
	2-HS-70-139B	"	"	
	2-HS-70-140B	"	"	
	2-HS-70-143B	"	"	
	2-HS-72-13B	"	"	
	2-HS-72-20B	"	"	
	2-HS-72-21B	"	"	
	2-HS-72-22B	"	"	
	2-HS-72-34B	"	"	
	2-HS-74-12B	"	"	
	2-HS-74-24B	"	"	
	2-HS-67-83B	"	"	
	2-HS-67-88B	"	"	
	2-HS-67-91B	"	"	
	2-HS-67-96B	"	"	
	2-HS-67-99B	"	"	
	2-HS-67-104B	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Mat'l No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	2-HS-67-107B	"	"	
	2-HS-67-112B	"	"	
	2-HS-67-130B	"	"	
	2-HS-67-131B	"	"	
	2-HS-67-133B	"	"	
	2-HS-67-134B	"	"	
	2-HS-67-138B	"	"	
	2-HS-67-139B	"	"	
	2-HS-67-141B	"	"	
	2-HS-67-142B	"	"	
	2-HS-1-11B	"	"	
	2-HS-1-11D	"	"	
	2-HS-1-22B	"	"	
	2-HS-1-22D	"	"	
	0-HS-65-23B	"	"	
	0-HS-65-42B	"	"	
	2-HS-30-15B	"	"	
	2-HS-30-177	"	"	
	2-HS-30-178	"	"	
	2-HS-30-179	"	"	
	2-HS-30-182	"	"	
	2-HS-30-183	"	"	
	2-HS-30-200	"	"	
	2-HS-30-207	"	"	
	2-HS-62-104B	"	"	
	2-HS-62-108B	"	"	
	2-HS-63-4B	"	"	
	2-HS-63-10B	"	"	
	2-HS-63-15B	"	"	
	2-HS-63-47B	"	"	
	2-HS-63-48B	"	"	
	2-HS-63-175B	"	"	
	2-HS-72-10B	"	"	
	2-HS-72-27B	"	"	
	2-HS-87-17B	"	"	
SQNEEB8046R2	FSV-67-168	HB8300C58RU	ASCO	See response to SQNEEB8023R1
	FSV-67-170	"	"	
	FSV-67-176	"	"	
	FSV-67-182	"	"	
	FSV-67-184	"	"	
	FSV-67-186	"	"	
	FSV-67-188	"	"	
	FSV-67-190	"	"	
	FSV-67-354	"	"	
	FSV-67-356	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	FSV-67-342	HB830081RU	"	
	FSV-67-344	HB8300C58RU	"	
	FSV-67-346	"	"	
	FSV-67-348	"	"	
	FSV-67-350	"	"	
	FSV-67-352	"	"	
SQNEEB8048R2	LSV-3-148	HT8300B48RU	ASCO	See response to SQNEEB8023R1.
	LSV-3-156	"	"	
	LSV-3-164	"	"	
	LSV-3-171	"	"	
	LSV-3-172	"	"	
	LSV-3-173	"	"	
	FSV-77-241	HT8300B61F	"	
	FSV-1-7	HT8300B58RU	"	
	FSV-1-14	"	"	
	FSV-1-25	"	"	
	FSV-1-32	"	"	
	FSV-1-147	"	"	
	FSV-1-150	"	"	
	FSV-1-148	"	"	
	FSV-1-149	"	"	
SQNEEB8049R1	LSV-3-148A	WPX-HV-202	ASCO	See response to SQNEEB8023R1.
	LSV-3-156A	-3-1-IF	"	
	LSV-3-164A	"	"	
	LSV-3-171A	"	"	
	FSV-77-128	"	"	
SQNEEB8050R1	FSV-12-79	HV200-924	ASCO	See response to SQNEEB8023R1.
		-2F		
SQNEEB8051	FM-30-148	T-25	ITT HAMMER DAHL	Corrective action for these components is covered by NCR's SQNEEB8026 and SQNEEB8027
	FM-30-149	"	"	
SQNEEB8101R1	FSV-67-217	HB8300C58RU	ASCO	See response to SQNEEB8023R1
	FSV-67-219	"	"	
	FSV-67-336	"	"	
	FSV-67-338	"	"	
SQNEEB8103	FC-38-148	PC-4000-2	JOHNSON CONTROLS	See response to SQNEEB8023R1
	FC-38-149	"	"	
SQNEEB8106	ZS-67-217	EA-700	NAMCO CONTROLS	See response to SQNEEB8023R1
	ZS-67-219	"	"	
	ZS-67-336	"	"	
	ZS-67-338	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>	
SQNMEB8007R2	FCV-1-15	SMB-00	LIMITORQUE	See response to SQNEEB8023R1	
	FCV-1-16	"	"		
	FCV-1-17	"	"		
	FCV-1-18	"	"		
	FCV-3-33	SMB-4	LIMITORQUE	See response to SQNEEB8023R1	
	FCV-3-100	"	"		
	FCV-3-47	"	"		
	FCV-3-87	"	"		
	FSV-30-8	C-5439	AVCO	TVA has reviewed the accident environments in which these valves are located and has concluded that the solenoids are acceptable for interim operation. However, the valves will be replaced with qualified solenoids per the guidelines of NUREG-0588.	
	FSV-30-10	"	"		
	FSV-30-50	"	"		
	FSV-30-52	"	"		
	FSV-30-15	"	"		
	FSV-30-17	"	"		
	FSV-30-40	"	"		
	FSV-30-56	"	"		
	FSV-30-20	"	"		
	FSV-30-58	"	"		
	FSV-30-2	"	"		See response to SQNEEB8023R1
	FSV-30-5	"	"		"
FSV-30-61	"	"	"		
FSV-30-62	"	"	"		
FSV-30-7	"	"	"		
FSV-30-9	"	"	"		
FSV-30-14	"	"	"		
FSV-30-16	"	"	"		
FSV-30-19	"	"	"		
FSV-30-37	"	"	"		
FSV-30-51	"	"	"		
FSV-30-53	"	"	"		
FSV-30-57	"	"	"		
FSV-30-59	"	"	"		
FSV-30-12	"	"	See response on SQNEEB8027; this is category "C" equipment.		
FSV-30-54	"	"			
FSV-30-129	HT8302B25RF	ASCO	These valves have been replaced with qualified solenoids (ECN-L5289).		
FSV-30-130	"	"			
FSV-65-7	C-5439	AVCO	See response to SQNEEB8023R1		
FSV-65-50	"	"			
FCV-70-133	SMB-000	LIMITORQUE	See response to SQNEEB8023R1		
FCV-70-134	"	"			
FCV-72-2	SMB-1/SMB-2	LIMITORQUE	See response to SQNEEB8023R1		
FCV-72-39	"	"			
FCV-72-20	"	"			
FCV-72-23	"	"			

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	FCV-72-21	"	"	"
	FCV-72-40	"	"	"
	FCV-72-41	"	"	"
	PSVI-6A	HT8300B58RU	ASCO	See response to SQNEEB8023R1
	PSVI-6B	"	"	"
	PSVI-31A	"	"	"
	PSVI-31B	"	"	"
	PSVI-13A	"	"	"
	PSVI-13B	"	"	"
	PSVI-24A	"	"	"
	PSVI-24B	"	"	"
	ZS-65-86	3R-321-AFC	BETTIS	See response to SQNEEB8023R1
	ZS-65-87	"	"	"
	ZS-65-81	"	"	"
	ZS-65-83	"	"	"
	ZS-30-9	EA-170	NAMCO	See response to SQNEEB8023R1
	ZS-30-53	"	"	"
	ZS-30-14	"	"	"
	ZS-30-7	"	"	"
	ZS-30-51	"	"	"
	ZS-30-57	"	"	"
	ZS-30-19	"	"	"
	ZS-30-59	"	"	"
	LS on FCV-30-16	EA-170	NAMCO	"
	LS on FCV-30-37	"	"	"
	LS on FCV-30-12	"	"	"
	LS on FCV-30-54	"	"	"
	LS on FCV-30-61	"	"	"
	LS on FCV-30-62	"	"	"
	LS on FCV-30-2	"	"	"
	LS on FCV-30-5	"	"	"
	FSV-30-102	HT8302B25RF	ASCO	Delete from this list; not applicable to SQN 2
	LS on FCV-65-8	EA-170	NAMCO	See response to SQNEEB8023R1
	LS on FCV-65-51	"	"	"
	FSV-313-222	HT8300D58RF	ASCO	TVA has reviewed the accident environments in which these valves are located and has concluded that the solenoids are acceptable for interim plant operation. However, the valves will be either type-tested or replaced with qualified solenoids per the guideline of NUREG-0588.
	FSV-313-224	"	"	
	FSV-313-229	"	"	
	FSV-313-231	"	"	
	FSV-313-223	"	"	
	FSV-313-225	"	"	
	FSV-313-230	"	"	
	FSV-313-232	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	LS on:			
	FCV-313-222	OPD-AR-7846	MICROSWITCH	See response to SQNEEB8023R1
	FCV-313-224	"	"	"
	FCV-313-229	"	"	"
	FCV-313-231	"	"	"
	FCV-313-223	EA-180	NAMCO	Documentation has been located
	FCV-313-225	"	"	which conforms acceptable
	FCV-313-230	"	"	environmental qualification.
	FCV-313-232	"	"	
	LS-313-340	203G/ 7810C1160	MERCROID	
	LS-313-305	"	"	These level switches will be qualified on an interim basis or replaced with qualified components before Unit 2 initial criticality.
	- -			
SQNMEB8101	FCO-30-122	EA-700	NAMCO	See response to SQNEEB8023R1.
	FCO-30-123	"	"	
	FCO-30-129	"	"	
	FCO-30-130	"	"	
	FCO-30-136	"	"	
	FCO-30-137	"	"	
	FCO-30-138	"	"	
	FCO-30-140	"	"	
	FCO-30-141	"	"	
	FCO-30-279	"	"	
	FCO-30-280	"	"	
	ZS-30-28	EA-700	NAMCO	See response to SQNEEB8023R1
	ZS-30-32	"	"	
	ZS-30-119	"	"	
	ZS-30-120	"	"	
	ZS-30-121	"	"	
	ZS-30-125	"	"	
	ZS-30-131	"	"	
	FCO-65-26	EA-700	NAMCO	See response to SQNEEB8023R1
	FCO-65-27	"	"	
	FCO-65-30	"	"	
	FCO-65-52	"	"	
	FCO-65-53	"	"	
SQNNEB8031R1	FSV-62-128	-	ASCO	These vales were nonconformed
	FSV-62-144	-	"	due to the lack of a nameplate
	FSV-77-20	-	"	(confirmed by field
	FCV-63-175	-	LIMITORQUE	verification survey).

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
				However, the valves are similar to valve models that have been confirmed to be qualified. If full environmental qualification cannot be confirmed the valves will be replaced with qualified components in accordance with the guidelines of NUREG-0588.
SQNNEB8032	FSV-62-77	FT831654	ASCO	Documentation has been located which confirms equipment qualification acceptable.
- -				
SQNNEB8033	FCV-63-38	-	-	Deleted from this list; not applicable to SQN-2.
	FCV-63-41	LB831654	ASCO	Documentation has been located which confirms acceptable equipment qualification.
	FCV-63-42	"	"	
	FCV-63-84	"	"	
	FT-3-35A			Deleted; see NCR SQNNEB8034R1
	FT-3-35B			"
	FT-3-48A			"
	FT-3-48B			"
	FT-3-90A			"
	FT-3-90B			"
	FT-3-103A			"
	FT-3-103B			"
	PT-1-2A	E11GM	FOXBORO	Documentation has been located which confirms acceptable equipment qualification.
	PT-1-5	"	"	
	PT-1-27A	"	"	
	PT-1-5	"	"	
SQNNEB8034R1	FCV-63-68	-	-	Deleted from this list; not applicable to Unit 2.
	LT-3-55	764	BARTON	Deleted; not applicable to SQN 2.
	LT-63-177	764	BARTON	Deleted; not applicable to SQN 2
	LT-63-178	"	"	
	LT-63-179	"	"	
	LT-63-176	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	FCV-68-332	SMB-00	LIMITORQUE	Documentatin has been located which confirms acceptable equipment qualification.
	FCV-68-333	"	"	
	FCV-74-1	SMB-1	"	
	FCV-74-2	"	"	
	FCV-61-97			The correct numbers for the first two components are FSV-61-97 and FSV-77-9, respectively. TVA is still investigating the available documentation to determine the qualification level of these components.
	FCV-77-9			
	FSV-61-194			
	FSV-61-192			
	PCV-68-334	LB831654	ASCO	Correct component numbers are PSV-68-334A/334B and PSV-68-340AA/340AB. Documentation has been located which confirms acceptable equipment qualification.
	PCV-68-340A	"	"	
	FSV-62-86			Deleted; this equipment is catagory "C" per NUREG-0588 (see response to NCR SQNEEB8027)
	FSV-62-85			
	FSV-62-59			
	PDT-30-42			
	PDT-30-43			
	PS-62-247			
	TIS-62-79			
	PS-62-244			
	TIS-63-36			
	LT-68-335B			
	TIT-62-239			
	TIT-62-245			
	TIT-62-246			
	TIT-62-243			
	NIS Channel I	WIGTD	Westinghouse	TVA is still investigating the ability of this equipment to perform its safety function within the qualification threshold limits of the components.
	DET: NE-31,32	(WL-23686)		
	NIS Channel II	"	"	
	DET: NE-35,36			
	B/U GP 1A-A,Press			"
	Htr Elem: 22,24			
	26,28,30,32,42,			
	44,3,5,7,15,17,			
	19,34,36,38,7,			
	11,3			

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	B/U GP 1B-B, Press Htr Elem: 23,25, 27,29,31,33,41, 43,45,2,4,6,14, 16,18,35,37,39,8 10,12			"
	PDT-30-44 PDT-30-45	E11BM-HSAA1	FOXBORO	Documentation has been located which verifies acceptable equipment qualification.
	PT-1-12	E11GM-HSAE1	FOXBORO	Documentation has been located which verifies acceptable equipment qualification.
	PT-1-27A	E11GM	FOXBORO	Documentation has been located which verifies acceptable equipment qualification.
	PT-1-5	E11GM	FOXBORO	Documentation has been located which verifies acceptable equipment qualification.
	PT-1-30	E11GM	FOXBORO	Documentation has been located which verifies acceptable equipment qualification.
	FIS-74-12 FIS-74-24	288A "	BARTON "	See response to SQNEEB8023R1
	NIS Preamps (boxes 82,80, 81, & 83)	1045F14G01	WESTINGHOUSE	TVA is still investigating the ability of this equipment to perform its safety function within the qualification threshold limits of the components.
	H2 Recombiner Sup CAB A-A & B-B	N/A	WESTINGHOUSE	Documentation has been located which confirms acceptable equipment qualification.
	PT-1-23	E11GM	FOXBORO	Documentation has been located which confirms acceptable equipment qualification.

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	FCV-63-1	SMB	LIMITORQUE	See response to SQNEEB8023R1
	FCV-63-3	"	"	
	FCV-63-5	"	"	
	FCV-63-6	"	"	
	FCV-63-7	"	"	
	FCV-63-8	"	"	
	FCV-63-11	"	"	
	PT-68-68	E11GH	FOXBORO	Documentation has been located which confirm acceptable equipment qualification.
	FT-3-35A	E13DM	FOXBORO	See response to SQNEEB8023R1
	FT-3-48A	"	"	
	FT-3-103A	"	"	
	FT-3-90A	"	"	
	FT-3-35B	"	"	
	FT-3-48B	"	"	
	FT-3-90B	"	"	
	FT-3-103B	"	"	
SQNEEB8104	MTRB-62-230A	Boric Acid Transfer Pump A-A & B-B Motor	WESTINGHOUSE	TVA is still investigating the ability of this equipment to perform its safety function within the qualification threshold limits of the components.
	MTRB-62-232B	"	"	
	MTRB-78-20	Refueling Water Pump B Motors	GE	See response on SQNEEB8027. This is a category "C" equipment.
	MTRB-78-12A	Spent Fuel Pit Pump (A-A,B-B, C-S) Motors	WESTINGHOUSE	TVA is still investigation the ability of this equipment to perform its safety function within the qualification threshold limits of the components.
	MTRB-78-9B	"	"	
	MTRB-78-35T	"	"	
	MTRB-62-108A-A	CCP A-A & B-B Aux Oil Pump Motors	WESTINGHOUSE	"
	MTRB-62-104A-B	"	"	
	MTRA-74-10A	RHR Pmp A-A & B-B	WESTINGHOUSE	"
	MTRA-74-20B	"	"	

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	Zone Switch on			"
	FCV-62-128			
	FCV-62-143			
	FCV-62-144			
	ZS-63-1	EA-17011100	SNAPLOCK	
	ZS-63-67	D2400	"	
	ZS-63-80			
	ZS-63-98	EA-17014100	"	
	ZS-63-118	EA-17011100	"	
	ZS-63-5	"		
	Limit Switch on			TVA is still investigating
	FCV-61-96	EA17015100/	SNAPLOCK	the ability of this equipment
	FCV-61-110	EA17014100		to perform its safety function
	FCV-61-191	D2400X	"	within the qualification
	FCV-61-193	"	"	threshold limits of the
	LCV-62-118	EA17011100	"	components.
	FCV-62-128	D2400X	"	"
	FCV-62-140	"	"	"
	FCV-62-143	"	"	"
	FCV-62-144	"	"	"
	FCV-62-69			"
	FCV-62-70			"
	FCV-62-79	D2400X	"	"
	FCV-63-3	EA17011100	"	"
	FCV-63-4	"	"	"
	FCV-63-8	"	"	"
	FCV-63-11	"	"	"
	FCV-63-23	D2400X	"	"
	FCV-63-38	"	"	"
	FCV-63-41	"	"	"
	FCV-63-42			"
	FCV-63-64	E17011100	"	"
	FCV-63-72			"
	FCV-63-73			"
	FCV-62-77	D2400X	"	"
	FCV-63-84	"	"	"
	FCV-63-175			"
	FCV-68-305			"
	FCV-68-307			"
	FCV-74-3	EA17011100	"	"
	FCV-74-21	"	"	"
	FCV-77-10	D2400X	"	"
	FCV-77-17	EA17014100	"	"
	FCV-77-19	EA17014100/	"	"
		EA17015100		"
	FCV-77-20	D2400X	"	"
	*FCV-77-41			"
	FCV-81-12	D2400X/	"	"
		EA17045302		"
	FCV-87-9	EA17011302	"	"
	FCV-87-10	"	"	"
	FCV-87-11	"	"	"

<u>NCR No.</u>	<u>Component No.</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>Corrective Action/Resolution</u>
	FCV-87-21	EA17031100	"	"
	FCV-87-22	EA17021100/ EA17032100	"	"
	FCV-87-27	EA17032100/ EA17031100	"	"
	PCV-68-331	EA17011302	"	"
	PCV-68-340A	"	"	"
	FCV-63-22	SMB-0	LIMITORQUE	See response to SQNEE38023R1.
	FCV-63-25	"	"	"
	FCV-63-26	"	"	"
	FCV-63-39	"	"	"
	FCV-63-40	"	"	"
	FCV-63-93	SMB-3	"	"
	FCV-63-94	"	"	"
	FCV-63-1	SMB-2	"	"
	FCV-63-5	SMB-00	"	"
	FCV-63-6	"	"	"
	FCV-63-7	"	"	"
	FCV-74-12	"	"	"
	FCV-74-24	"	"	"
	LCV-62-135	"	"	"
	LCV-62-136	"	"	"
	FCV-62-138	"	"	"
	FCV-63-47	"	"	"
	FCV-63-48	"	"	"
	FCV-62-63	"	"	"
	FCV-63-152	"	"	"
	FCV-63-153	"	"	"
	FCV-63-156	SMB-0	"	"
	FCV-63-157	"	"	"
	FCV-62-98	SMB-00	"	"
	FCV-62-99	"	"	"
	FCV-62-90	"	"	"
	FCV-62-91	"	"	"
	FCV-74-33	SMB-1	"	"
	FCV-74-35	SMB-1	"	"
	LCV-62-132	"	"	"
	LCV-62-133	"	"	"
	LCV-63-73	"	"	"
	LCV-63-11	"	"	"
	FCV-63-72	"	"	"
	FCV-63-8	SMB-3	"	"
	FCV-63-3	SMB-1	"	"
	FCV-63-4	SMB-00	"	"
	FCV-63-175	"	"	"
	FCV-74-3	"	"	"
	FCV-74-21	"	"	"
	FCV-87-21	"	"	"
	FCV-87-22	"	"	"
	FCV-87-23	"	"	"
	FCV-87-24	"	"	"