ENVIRONMENTAL QUALIFICATION MASTER EQUIPMENT LIST Revision 1

8407060162 840629 PDR ADOCK 05000271 PDR PDR

.

.

.1

14

MASTER EQUIPMENT LIST

PAGE 1

	1		! QUALIFICATION	DEFICIENCY/	1
ID NUMBER	MHNUFALIUNEN	! MULEL NUMBER	STATUS	NESULUTION	!
	ENT ATHO			CVCTEN	
CUNIMINER	TENI HINU	SPHERICI	DILUTION	oroicn	
FS0-109-75A-1	· ATKOMATIC	15840-VPI-MOD	1.100-1	I NO DOC/REPLACE	4
FS0-109-75A-2	! ATKOMATIC	15840-VPI-MOD	1 JC0-1	I NO DOC/REPLACE	1
FS0-109-75A-3	I TARGET ROCK	1 75E002	QUALIFIED	1	11 St. 11
FS0-109-75A-4	! TARGET ROCK	! 75E002	. QUALIFIED	1	9 - B.P.C.
FS0-109-758-1	! ATKOMATIC	! 15840-VPI-MOD	! JC0-2	! NO DOC/REPLACE	1
FS0-109-728-2	! ATKOMATIC	15840-VPI-MOD	! JC0-2	! NO DOC/REPLACE	1
FS0-109-750-1	! ATKOMATIC	! 15840-VPI-MOD	! JC0-2	! NO DOC/REPLACE	1.102
FS0-109-750-2	! ATKOMATIC	: 15840-VPI-MOD	! JC0-2	! NO DOC/REPLACE	1
FS0-109-75D-1	! ATKOMATIC	! 15840-VPI-MOD	! JC0-2	NO DOC/REPLACE	1
FS0-109-75D-2	! ATKOMATIC	! 15840-VPI-MOD	! JC0-2	! NO DOC/REPLACE	1.1.1.1.1.1.1.1
FS0-109-76A	!	!	! QUALIFIED	1	! CATEGORY D
FS0-109-76B	! TARGET ROCK	! 82-U	. QUALIFIED	1	1
NG-11A	1	1	! QUALIFIED	•	! CATEGORY D
NG-11B	1	1	! QUALIFIED		! CATEGORY D
NG-12A	1	1	! QUALIFIED	1	! CATEGORY D
NG-12B	1	1	! QUALIFIED	1	! CATEGORY D
NG-13A	1	1	! QUALIFIED		! CATEGORY D
NG-138	1	1	! QUALIFIED	1.	! CATEGORY D
SAH-VG-5A	! TELEDYNE	! 225CMA-2	! QUALIFIED		1
SAH-VG-5B	! TELEDYNE	! 225CMA-2	! QUALIFIED	· ·	1
VG-9A	1	1	! QUALIFIED		! CATEGORY D
VG-98	1	1	! QUALIFIED		1 CATEGORY D
VG-22A	1	1	! QUALIFIED	1	CATEGORY D
VG-22B	1	1	! QUALIFIED		. CATEGORY D
VG-23	! TARGET ROCK	! 75E002	! QUALIFIED		1
VG-24	1 TARGET ROCK	1 75E002	! QUALIFIED		i
VG-25	! TARGET ROCK	! 75E002	! QUALIFIED		1
VG-26	1	1	! QUALIFIED		! CATEGORY D
VG-33	! TARGET ROCK	1 75E002	. QUALIFIED		1
VG-34	! TARGET ROCK	! 75E002	! QUALIFIED		1
EMERGENC	Y POWER	SYSTEM			
A-ECCS BATT	! C+D	! KC-9	! QUALIFIED		1
A-ECCS BC	! C+D	! ARR24CE50F3	! JC0-3	! RAD+HELE DATA/RELOCATE	! NOTE 2
A-ECCS DP	! MERCURY	1	! QUALIFIED	1	
B-ECCS BATT	! C+D	! KC-9	! QUALIFIED	1	1
B-ECCS BC	! C+D	! ARR24CE50F3	! JC0-3	BAD+HELB DATA/RELOCATE	I NOTE 2
B-ECCS DP	! MERCURY	!	! QUALIFIED	1	1

! QUALIFIED

1

! CATEGORY D

DC-1A

1

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER MOD	EL NUMBER ! STATUS	ION DEFICIENCY/ RESOLUTION	COMMENTS
5				
EMERGEN	CY POWER SYS	TEM (CONTINUED)		
DC-1B	1	! QUALIFIED	1	! CATEGORY D
DC-2A	! WESTINGHOUSE ! TYP	E W 1 JCO-5	! DOC/QDR	
DC-28	1	! QUALIFIED	1	! CATEGORY D
MCC-8B	! WESTINGHOUSE ! TYPE	E W 1 JCO-5	! DOC/ODR	
MCC-8E	! WESTINGHOUSE ! TYPE	E W ! JCO-5	! DOC/ODR	
MCC-98	! WESTINGHOUSE ! TYP	E W ! JCO-5	1 DOC/ODR	
MCC-9D	! WESTINGHOUSE ! TYP	E W 1 JCO-5	! DOC/QDR	
MCC-89A	! ITE ! 560	0 ! QUALIFIED	1	
MCC-89B	! ITE ! 560	0 ! QUALIFIED	1	
PP-89	! WESTINGHOUSE !	! JC0-5	! DOC/ODR	! PART OF MCC-9D
UPS-1A	1	! QUALIFIED		: CATEGORY D
UPS-1B	1	! QUALIFIED	1	! CATEGORY D
VAC-B	! GEN ELECTRIC !	! QUALIFIED	1	
HEATING	& VENTILATI	ON SYSTEM		
RRU-5	! RELIANCE ELEC !	! QUALIFIED		
RRU-6	! RELIANCE ELEC !	! QUALIFIED	1	1
RRU-7	! RELIANCE ELEC !	! QUALIFIED	1	1
RRU-8	! RELIANCE ELEC !	! QUALIFIED		
STANDBY	GAS THEATME	NT SYSTEM.		
EUH-2	CHROMALOX 9KW 10106	-114426-0001 JCD-9	! NO DOC/QDR	
EUH-4	! CHROMALOX 9KW 10106	-114426-0001 JC0-9	! NO DOC/ODR	1
FS-1-125-1A	! MCDONALD/MILLER! NP-	8 ! JC0-10	! NO DOC/REPLACE	
FS-1-125-18	! MCDONALD/MILLER! NP-	8 ! JC0-10	! NO DOC/REPLACE	the states of the second s
LS-SB-1A	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	1. Starting and the second
LS-SB-1B	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	
LS-SB-2A	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	1
LS-SB-2B	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	
LS-SB-3A	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	e - I san har in the
LS-SB-3B	! MICROSWITCH ! OPD	-AR-6809 ! JC0-11	! RAD/QDR	
LS-SB-4A	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR	1
LS-SB-48	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/QDR*	
LS-SB-5	! MICROSWITCH ! OPD	-AR-6809 ! JCO-11	! RAD/ROR	1 · · · · · · · · · · · · · · · · · · ·
REF-2A	! RELIANCE ELEC !	! QUALIFIED	1	1
REF-2B	! RELIANCE ELEC !	! QUALIFIED		1
SB-1A	! ASCO ! 206	-380-7F ! QUALIFIED		
SB-1B	! ASCO ! 206	-380-7F ! QUALIFIED		1

MASTER EQUIPMENT LIST

	!	!	: GUALIFICATION	! DEFICIENCY/	1 COMMENTE
ID NUMBER	! MANUFACTUREN	I ! MULEL NUMBER	STATUS	! RESOLUTION	!
STANDRY	GAS TREA	THENT SV		,	
	ONO THER	IT IL I I I I I I I I I I I I I I I I I	oren toommore	양 소리가 가지 않는 것이	
SB-2A	! ASCO	! 206-380-7F	! QUALIFIED		
SB-2B	! ASCO	! 206-380-7F	! QUALIFIED	2012년 1월 18일 - 19일 - 19일 - 19일 - 19g - 19g - 19g - 19g - 19	!
SB-3A	! ASCO	' 206-380-7F	! QUALIFIED		
SB-3B	! ASCO	! 206-380-7F	! QUALIFIED		!
SB-4A	! ASCO	! 206-380-7F	! QUALIFIED	1	1
SB-4B	! ASCO	! 206-380-7F	! QUALIFIED	the second second second	
SB-5	! ASCO	! 206-380-7F	! QNALIFIED		•
TSH-1-125-15A	! CHROMALOX	1	! JCO-12	! NO DOC/QDR	PART OF ELECTRIC HEATER(EUH-2)
TSH-1-125-15B	! CHROMALOX	1	! JC0-12	! NO DOC/QDR	PART OF ELECTRIC HEATER(EUH-4)
NUCLEAR	BOILERS	SYSTEM			
A0V-2-80A	! ASCO	! NP8323A36V	! QUALIFIED	1	1
A0V-2-80B	! ASCO	! NP8323A36V	! QUALIFIED	1	!
A0V-2-80C	! ASCO	! NP8323A36V	! QUALIFIED	1	1
A0V-2-80D	! ASCO	! NP8323A36V	! QUALIFIED	1	•
A0V-2-86A	! ASCO	! NP8323A36V	! QUALIFIED	1.1.1.2.2.2.1.1.1.1.1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A0V-2-868	' ASCO	! NP8323A36V	! QUAL IFIED	1	 March 1996
A0V-2-86C	! ASCO	! NP8323A36V	! QUALIFIED	1	1. A second sec second second sec
A0V-2-86D	! ASCO	! NP8323A36V	! QUALIFIED	1	Frank States
LS-ACV-2-80A	! NAMCO	! EA-740	! QUALIFIED	1.00 .000.000.000.000	1
LS-A0V-2-80B	! NAMCO	! EA-740	! QUALIFIED	1	
LS-A0V-2-80C	! NAMCO	! EA-740	! QUALIFIED	1	: · · · · · · · · · · · · · · · · · · ·
LS-A0V-2-90D	! NAMCG	! EA-740	! QUALIFIED	1	• • • • • • • • • • • • • • • • • • •
LS-A0V-2-86A	! NAMCO	! EA-740	! QUALIFIED	1	1
LS-A0V-2-868	! NAMCO	! EA-740	! QUALIFIED	1	•
LS-A0V-2-86C	! NAMCO	! EA-740	! QUALIFIED	1	!
LS-A0V-2-86D	! NAMCO	! EA-740	! QUALIFIED	f	• • • • • • • • • • • • • • • • • • •
FCV-2-39	! ASCO	! 206-823-3	! QUALIFIED	I. San Street and Street	1 - 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
FCV-2-40	1	1	! QUALIFIED	1	! CATEGORY D
FT-2-110A	Here and He	1	! QUALIFIED	1	! CATEGORY D
FT-2-110B	!	1	! QUALIFIED	1	! CATEGORY D
FT-2-110C	1	1.	! QUALIFIED	1	! CATEGORY D
FT-2-110D	1	1	! QUALIFIED	1	! CATEGORY D
MOV-2-53A	! LIMITORQUE	! SMB-2	! JCO-13	!RAD/REPLACE MOTOR + BRAKE	
MOV-2-538	! LIMITORQUE	! SMB-2	! JC0-13	IRAD/REPLACE MOTOR + BRAKE	
MOV-2-54A	! LIMITORQUE	! SMB-000	! QUALIFIED	1	!
MOV-2-54B	! LIMITORQUE	! SMB-000	! QUALIFIED	1	I was a set of the set
MOV-2-66A	! LIMITORQUE	! SMB-000	! JC0-14	! RAD/REPLACE MOTOR	

MASTER EQUIPMENT LIST

PAGE 4

1. Starte - P	1	-	! QUALIFICATION	DEFICIENCY/	CONMENTS
ID NUMBER	! MANUFACTURER	MUDEL NUMBER	STATUS	: MESULUTION	
4					
NUCLEAŔ.	BOILER SY	YSTEM (CONT	INUED)		
MOV-2-668	! LIMITORQUE	! SMB-000	! JC0-14	! RAD/REPLACE MOTOR	
MOV-2-74	! LIMITORQUE	5MB-000	! JC0-15	! RAD/REPLACE MOTOR	
MOV-2-77	1.1	1.000	! QUALIFIED		! CATEGORY D
PS-2-71-1A	! SOR	! 6N-E3-CIA ! GGMMRTTX10	! J09-16	! NO TEST DATA/RSPLACE	
PS-2-71-18	! SOR	! 6N-E3-CIA ! GGMMRTTX10	! JC0-16	! NO TEST DATA/REPLACE	
PS-2-71-1C	! SOR	4 6N-E3-CIA 9 GGMMRTTX10	! JC0-16	! NO TEST DATA/REPLACE	
PS-2-71-1D	SOR	! 6N-E3-CIA ! GGMMRTTX10	! JC0-16 !	NO TEST DATA/REPLACE	
PS-2-71-2A	SOR	! 6N-E3-CIA ! GGMMRTTX10	! JC0-16	NO TEST DATA/REPLACE	1
PS-2-71-2B	1 SOR	! 6N-E3-CIA ! GGMMRTTX10	! JC0-16	NO TEST DATA/REPLACE	
PS-2-71-20	! SOR	! 6N-E3-CIA ! GGMMRTTX10	: JC0-16	NO TEST DATA/REPLACE	1
PS-2-71-2D	! SOR	! 6N-E3-CIA ! GGMMRTTX10	1 JC0-16	1 NO TEST DATA/REPLACE	
PS-2-71-3A	! SOR	1 6N-E3-CIA GGMMRTTX10	JCO-16	NO TEST DATA/REPLACE	1
PS-2-71-3B	! SOR	1 6N-E3-CJA 1 GGMMRTTX10	1 JC0-16.	! NO TEST DATA/REPLACE	1.
PS-2-71-3C	! SOR	! 6N-E3-CIA ! GGMMRTTX10	! JC0-16	NO TEST DATA/REPLACE	
PS-2-71-3D	! SOR	6N-E3-CIA	1 JC0-16	NO TEST DATA/REPLACE	
PS-2-128A	1	1	! QUALIFIED	1	! CATEGORY D
PS-2-1288		1	! QUALIFIED	PALAR STRUCT	! CATEGORY D
PS-2-134A	BARKSDALE	! B2T-A12-SS	! JC0-18	! NO TEST DATA/REPLACE	1
PS-2-134B	! BARKSDALE	! B2T-A12-SS	! JC0-18	! NO TEST DATA/REPLACE	1
PS-2-134C	! BARKSDALE	! B2T-A12-SS	! JC0-18	! NO TEST DATA/REPLACE	
PS-2-134D	! BARKSDALE	1 B2T-A12-SS	! JCO-18	! NO TEST DATA/REPLACE	
RV-2-71A	! ASCO	! 206-381-6F	! QUALIFIED		· · · · · · · · · · · · · · · · · · ·
RV-2-71B	! ASCO	! 206-381-6F	! QUALIFIED	1 .	1.1
RV-2-71C	! ASCO	! 206-381-6F	! QUALIFIED	1	1
RV-2-71D	! ASCO	! 206-381-6F	! QUALIFIED		1
SRV MONITOR	" GEN. ELECTRIC	1 21984061	1 JC0-17	I TEMP + PRESS/QDR	

PRODUCED : 84/05/09.

MASTER EQUIPMENT LIST

PAGE 5

	1	!	! QUALIFICATIO	DN ! DEFICIENCY/	
ID NUMBER	! MANUFACTUR	ER ! MODEL NUMBER	R ! STATUS	RESOLUTION	!COMMENTS
C				******	
NUCLEAR.	BOILER	SYSTEM (C	ONTINUED)		
PNL-1120194300	05				
TS-2-121A	! FENWAL	17002-40	! JC0-20	I NO TEST DATA/REPLACE	4
TS-2-121B	! FENNAL	17002-40	1 JC0-20	! NO TEST DATA/REPLACE	
TS-2-121C	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-121D	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-122A	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TS-2-122B	! FENWAL	17002-40	! JC0-20	! NO TEST DATA/REPLACE	
TS-2-122C	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-122D	! FENWAL	! 17002-40	! JC0-20	I NO TEST DATA/REPLACE	
TS-2-123A	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-123B	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-1230	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-123D	! FENWAL	17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-124A	! FENWAL	17002-40	! JC0-20	! NO TEST DATA/REPLACE	· · ·
TS-2-124B	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-124C	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
TS-2-124D	! FENWAL	! 17002-40	! JC0-20	! NO TEST DATA/REPLACE	1
ZE-2-1A	! ENDEVCO	1 2273AM20	! JC0-21	1 DOC/GDR	1
ZE-2-18	! ENDEVCO	! 2273AM20	! JC0-21	! DOC/ODR	· · · · · · · · · · · · · · · · · · ·
ZT-2-1A	! B+W	1	! JC0-21	! TEMP + PRESS/REPLACE	· · · · · · · · · · · · · · · · · · ·
ZT-2-1B	! B+W	1	! JCƏ-21	! TEMP + PRESS/REPLACE	1
NUCLEAR	BOILER	VESSEL I	NSTRUHENTI	ATION SYSTEM	
LITS-2-3-73A	! YARWAY	! 4418CE	! JC0-26	! RAD LACKING/REPLACE	1
LITS-2-3-73B	! YARWAY	! 4418CE	! JCO-27	! RAD LACKING/REPLACE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LT-2-3-57A	! ROSEMOUNT	! 1152DP4	! QUALIFIED	1	
LT-2-3-57B	! ROSEMOUNT	! 1152DP4	! QUALIFIED		
LT-2-3-58A	! ROSENOUNT	! 1152DP4	! QUALIFIED	di internetta de la companya de la c	. .
LT-2-3-58B	! ROSEMOUNT	! 1152DP4	! QUALIFIED	1	
LT-2-3-72A	! ROSEMOUNT	1152DP4	! QUALIFIED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LT-2-3-72B	! ROSEMOUNT	! 1152DF4	! QUALIFIED	!	· · · · · · · · · · · · · · · · · · ·
LT-2-3-72C	! ROSEMOUNT	! 1152DP4	! QUALIFIED	1	· · · · · · · · · · · · · · · · · · ·
LT-2-3-72D	! ROSEMOUNT	! 1152DP4	! QUALIFIED	1	1
PS-2-3-52C	! BARKSDALE	! B2T-M12-SS	! JC0-28	! NO TEST- DATA/REPLACE	1
PS-2-3-52D	! BARTON	! 288A-7572	! JC0-28	! INSUFFICIENT DOC/REPL	ACE!
PT-2-3-55A	! ROSEMOUNT	! 1152GP9	! QUALIFIED	1	
PT-2-3-55B	! ROSEMOUNT	11152GP9	! QUALIFIED	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
PT-2-3-55C	! ROSEMOUNT	! 1152GP9	! QUALIFIED		A. E

MASTER EQUIPMENT LIST

		and the second second	! QUELIFICATION	! DEFICIENCY/	 A subset of the second sec second second sec	
ID NUMBER	! MANUFACTURER	MODEL NUMBER	! STATUS	RESOLUTION	COMMENTS	
NUCLEAR.	BOILER V	ESSEL IN	STRUMENTAT	TION SYSTEM (CONTINUET)	
PT-2-3-55D	! ROSEMOUNT	! 11520P9	. QUALIFIED			
PT-2-3-56A	! ROSEMOUNT	! 11520P9	! QUALIFIED			
PT-2-3-56B	! ROSEMOUNT	! 1152GP9	! QUALIFIED	가슴 가슴 가슴 가슴 가슴	2 B	
PT-2-3-560	! ROSEMOUNT	11520P9	! QUALIFIED			
PT-2-3-56D	! ROSEMOUNT	1152GP9	! QUALIFIED	이 말했다. 그는 말 가 있는 것이 없다.	a de la companya de l	
2-3-55A(M)	! ROSEMOUNT	! 510DU	! QUALIFIED			
2-3-55A(X)	! AGASTAT	1 EGPB001	! QUALIFIED	철도 시작하는 것같이		
2-3-55B(M)	! ROSEMOUNT	! 510DU	! QUALIFIED			
2-3-55B(X)	! AGASTAT	! EGPB001	! QUALIFIED		TO BE A CARACTERINA AND	
2-3-550(M)	! ROSEMOUNT	1 510DU	! JC0-33	! HELB TEMP/REPLACE		
2-3-55C(X)	! AGASTAT	! EGP8001	! JC0-34	! HELB TEMP/ODR	1	
2-3-55D(M)	! ROSEMOUNT	1 510DU	! JCO-33	! HELB TEMP/REPLACE	1	
2-3-55D(X)	: AGASTAT	! EGPB001	! JC0-34	! HELB TEMP/QDR		
2-3-56A(M)	! ROSEMOUNT	: 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-56A(S1)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-56A(X)	! AGASTAT	! EGPB001	! JC0-23	! RAD/QDR		
2-3-56A(XT)	AGASTAT	! EGPB001	! JC0-23	! RAD/QDR	요즘 눈 눈 걸 안 드릴수요	
2-3-56B(M)	! ROSEMOUNT	! 510DU	! JCO-24	!RAD+TEMP/REPLACE+DSGN	CHG!	
2-3-56B(S1)	! ROSEMOUNT	! 510DU	! JCO-24	RAD+TEMP/REPLACE+DSON	CHG!	
2-3-56B(X)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR	1	
2-3-56B(X1)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/ODR	1	
2-3-56C(M)	ROSEMOUNT	: 510DU	! JC0-22	! RAD/DESIGN CHANGE	1	
2-3-560(\$1)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-56C(X)	! AGASTAT	! EGPB001	! JCO-23	! RAD/QDR	1.	
2-3-56C(X1)	! AGASTAT	! EGPB001	! JC0-23	! RAD/QDR	1	
2-3-56D(M)	! ROSEMOUNT	! 510DU	! JC0-24	IRAD+TEMP/REPLACE+DSON	CHG!	
2-3-560(\$1)	! ROSEMOUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSGN	CHG!	
2-3-56D(X)	! AGASTAT	! EG?B001	! JC0-25	! RAD + TEMP/QDR	1	
2-3-56D(X1)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR		
2-3-57A(M)	ROSEMOUNT	! 510EU	! QUALIFIED			
2-3-57A(S1)	! ROSEMOUNT	! 510DU	! QUALIFIED	4		
2-3-57A(S2)	! ROSEMOUNT	! 510DU	! QUALIFIED	1		
2-3-57A(X)	! AGASTAT	! EGPB001	! QUALIFIED	1		
2-3-57A(X1)	! AGASTAT	1 E6PB001	! QUALIFIED		1	
2-3-57A(X2)	! AGASTAT	! EGPB001	! QUALIFIED	1 .	!	
2-3-57B(M)	! ROSEMOUNT	! 510DU	! QUALIFIED	1	1	
2-3-57B(S1)	! ROSEMOUNT	1 510DU	! QUALIFIED		1	
2-3-57B(S2)	! ROSEMOUNT	! 510DU	! QUALIFIED	1	1	

MASTER EQUIPMENT LIST

	1		! QUALIFICATION	! DEFILIENCY/		
ID NUMBER	! MANUFACTURE	R ! MODEL NUMBER	STATUS	! RESOLUTION	COMMENTS	ļ
		!				
NUCLEAR	BOILER	VESSEL INS	TRUMENTAT	ION SYSTEM (CO	NTINUED)	
2-3-57B(X)	. AGASTAT	FGPB001	· QUAL TETED			
2-3-57B(X1)	AGASTAT	EGPB001	+ QUALIFIED		1	
2-3-57B(X2)	AGASTAT	EGPROO1	I QUALIFIED	The second second	철학 이 가지 않는 것 같아요.	
2-3-584(M)	ROSEMOUNT	1 51000	1 JC0-33	HELE TEMP/REPLACE	1	
2-3-58A(S1)	ROSEMOLINT	1 510DU	1 JC0-33	HELB TEMP/REPLACE		
2-3-58A(S2)	ROSEMOUNT	1 51000	! JC0-33	! HELB TEMP/REPLACE		
2-3-58A(X)	AGASTAT	1 EGPB001	! JC0-34	HELB TEMP/ODR	그는 것 같아요. 많아요.	
2-3-58A(X1)	I AGASTAT	EGPB001	! JCO-34	! HELB TEMP/QDR		
2-3-58A(X2)	4 AGASTAT	EGPB001	! JC0-34	! HELB TEMP/QDR		
2-3-58B(M)	I ROSEMOUNT	! 510DU	JC0-33	! HELB TEMP/REPLACE		
2-3-58B(S1)	ROSEMOUNT	! 510DU	! JC0-33	! HELB TEMP/REPLACE	1	
2-3-58B(S2)	! ROSEMOUNT	! 510DU	! JC0-33	! HELB TEMP/REPLACE		
2-3-58B(X)	! AGASTAT	! EGPB001	! JC0-34	! HELB TEMP/RDR		
2-3-58B(X1)	4 AGASTAT	! EGPB001	! JC0-34	! HELB TEMP/QDR	1	
2-3-58B(X2)	I AGASTAT	EGPB001	! JC0-34	! HELB TEMP/QDR	1	
2-3-72A(M)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-72A(S1)	! ROSEMOUNT	: 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-72A(S2)	! ROSEMOUNT	! 510DU	! JCO-22	! RAD/DESIGN CHANGE	1	
2-3-72A(\$3)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-72A(S4)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE	1	
2-3-72A(S5)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE		
2-3-72A(X)	! AGASTAT	! EGPB001	! JCO-23	! RAD/QDR	1	
2-3-72A(X1)	! AGASTAT	! EGPB001	! JC0-23	! RAD/QDR		
2-3-72A(X2)	! AGASTAT	! ETR14B3B001	! JCO-23	! RAD/QDR	1	
2-3-72A(X3)	! AGASTAT	! EGPB001	! JCO-23	! RAD/QDR		
2-3-72A(X4)	! AGASTAT	! EGFB001	! JCO-23	! RAD/QDR	1	
2-3-72A(X5)	! AGASTAT	! EGPB001	! JC0-23	! RAD/QDR	1	
2-3-72B(M)	! ROSEMOUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSGN C	3461	
2-3-72B(S1)	! ROSEMOUNT	! 510DU	! JC0-24	!RAD+TEMP/REPLACE+DSGN C	CHG!	
2-3-72B(S2)	! ROSEMOUNT	! 510DU	! JC0-24	!RAD+TEMP/REPLACE+DSGN (CHG!	
2-3-72B(S3)	! ROSEMOUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSON C	XHG!	
2-3-72B(S4)	! ROSEMOUNT	! 51000	! JCD-24	!RAD+TEMP/REFLACE+DSGN (CHG!	
2-3-72B(\$5)	! ROSEMOUNT	! 510DU	! JC0-24	!RAD-TEMP/REPLACE+DSGN (CHG!	
2-3-72B(X)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR		
2-3-72B(X1)	! AGASTAT	! EGPB001	1 JC0-25	! RAD + TEMP/QDR		
2-3-72B(X2)	! AGASTAT	! ETR14B3B001	! JC0-25	! RAD + TEMP/QDR	1	
2-3-72B(X3)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR	1	
2-3-728(X4)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR		

MASTER EQUIPMENT LIST

	I MANUEACTURE	. !	NOTE NUMBER	!	QUALIFICATION	1	DEFICIENCY/		1 COMMEN	NTC	
	: INHNUFHUTURE	!	HUDEL NUMBER	-1-	STHIUS	-	RESOLUTION		1		
				Ľ.		1					
NUCLEAR.	BOILER	VE	SSEL IN	S 1	RUMENTAT	10	N SYSTEM	(CONT	INCED)		
2-3-72B(X5)	! AGASTAT	ļ	EGPB001	1	JC0-25	11	RAD + TEMP/ODR		£		
2-3-72C(M)	! ROSEMOUNT	1	510DU	1	JC0-22	11	RAD/DESIGN CHANGE		1		
2-3-72C(S1)	! ROSEMOUNT	11	510DU	1	JC0-22	11	RAD/DESIGN CHANGE		1		
2-3-720(\$2)	! ROSEMOUNT	1	510DU	ł.	JC0-22	11	RAD/DESIGN CHANGE		1		
2-3-720(\$3)	! ROSEMOUNT	1	51000	1	JC0-22	11	RAD/DESIGN CHANGE				
2-3-72C(X)	! AGASTAT	1	EGPB001	ļ	JC0-23	11	RAD/QDR		1		
2-3-72C(X1)	! AGASTAT	1	EGPB001	ł	JC0-23	11	RAD/RDR		6.1.1		
2-3-72C(X2)	! AGASTAT	. 1	ETR14B3B001	1	JC0-23	11	RAD/QDR		1		
2-3-72C(X3)	! AGASTAT	11	EGPB001	1	JC0-23	11	RAD/QDR		1		
2-3-72D(M)	! ROSEMOUNT	1	510DU	1	JC0-24	IR	AD+TEMP/REPLACE+DSG	N CHG	1		
2-3-72D(S1)	! ROSEMOUNT	1	510DU	1	JC0-24	1R	AD+TEMP/REPLACE+DSG	N CHG	1		
2-3-72D(S2)	! ROSEMOUNT	1	510DU	1	JC0-24	IR	AD+TEMP/REPLACE+DSG	N CHG			
2-3-72D(\$3)	! ROSEMOUNT		510DU	1	JC0-24	IR	AD+TEMP/REPLACE+DSG	N CHG	1		
2-3-72D(X)	! AGASTAT	1	EGPB001	1	JC0-25	1 1	RAD + TEMP/ODR				
2-3-72D(X1)	! AGASTAT	1	EGPB001	1	JC0-25	1 1	RAD + TEMP/ODR				
2-3-72D(X2)	! AGASTAT	- 1	ETR14838001	1	JC0-25	11	RAD + TEMP/ODR				
2-3-72D(X3)	! AGASTAT	1	EGPB001	ţ	JC0-25	11	RAD + TEMP/QDR		È.		
CONTROL	ROD DRI	VΕ	SYSTEM								
LT-3-231A	. ROSEMOUNT		1153D84PG	1	QUALIFIED	1				3	
LT-3-231B	1 ROSEMOUNT		1153DB4PG	1	QUAL TETED	1			NOTE	3	
LT-3-2310	1 ROSEMOLINT	1	1153084PG	i	QUAL IFTED	1			NOTE	3	
LT-3-231D	1 ROSEMOUNT	. 1	1153DB4PG	1	ONAL LETED	1			I NOTE	3	
LT-3-231E	ROSEMOUNT	1	115308496	i	OUD TETED	i			I NOTE	0	
LT-3-231F	ROSEMOUNT	1	115308496		OUAL TETED	i			I NOTE	0	
17-3-2316	ROSEMOUNT	1	115308496	÷.	OHAL TETED	i			I NOTE	2	
1T-3-231H	I ROSEMOUNT	1	115308486	i	ONO TETED	i			I NOTE	0	
PS-3-2424	PCI	i	A1711	i	NOT REGIGIA TETED	i			TTO DE	DEMOLIED DENITING NO	
PS-3-2428	I PCT		D1711	i	NOT REG/OUAL TETED				ITO DE	DEMOVED PENDING NO	ADDDOUA
PS-3-2420	I PCT	1	A1711	i	NOT DED/OHALIFIED	i			ITO DE	DEMOVED PENDING NO	ADDDOUAL
PC-2-2420	I PCT	1	Δ1711	i	NOT REGIGIALIFIED	1			ITO DE	DEMOVED FENDING NO.	ADODOUA
SE-2-ART-A	1 0000	1	NEODI/EDLE	-	AND ALL TETER	-			LIO DE	NERVER PERMINE NR	HEFRUVH
SC-2-APT-P	1 0000	1	NDOSILESLE	i	OUAL TETED	1					
SE-3-310	I ASCU		HUA90-405-20	-	100-21	-	NO TEST DATA JODD		1		
GE-2-318	1 4900		HUA90-405-20	-	10-21	-	NO TEST DATA (ODD				
SN-2-1400	1 0000		LIDI DV001400-2H	-	100-32	-	NO TEST DATA OFFICE				
CN-2-140P	I ACCO		WPLDA031030	-	100-32	1	NO TEST DATA/REPLAC	E F			
60-2-12-117	I ASCO	1	HUNGO ADE DA		100-32	-	NO TEST DATA LODD	E			
30-3-13-11/	: HOLU		NVHYU-400-2A		000-31	1	NU 1251 DATA/QDR		: SCRA	M SULENOIDS-89 TOTAL	

MASTER EQUIPMENT LIST

ID NUMBER MANUFACTURER MODEL NUMBER STATUS RESOLUTION COMMENTS c		1	1	! QUALIFICATION	! DEFICIENCY/	and the second
CONTROL ROD DRIVE SYSTEM (CONTINUED) S0-3-13-118 ASCO HVA90-405-2A JCO-31 NO TEST DATA/QDR SCRAM SOLENOIDS-89 TOTAL 25-56A-A1 I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-A2 I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-B2 I QUALIFIED ICATEGORY D 3-231A(M) I QUALIFIED ICATEGORY D 3-231A(X) I QUALIFIED ICATEGORY D 3-231A(X) I QUALIFIED ICATEGORY D 3-231A(X) I QUALIFIED ICATEGORY D 3-231B(M) I QUALIFIED ICATEGORY D 3-231B(X) I QUALIFIED ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D	ID NUMBER	! MANUFACTURER	! MODEL NUMBER	! STATUS	RESOLUTION	COMMENTS
CONTROL, ROD DRIVE SYSTEM (CONTINUED) S0-3-13-118 ASCO HVA90-405-2A JCO-31 NO TEST DATA/QDR SCRAM SOLENOIDS-89 TOTAL. 25-56A-A1 I I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-A2 I I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-B2 I I QUALIFIED ICATEGORY D ICATEGORY D 3-231A(M) I IQUALIFIED ICATEGORY D ICATEGORY D 3-231A(X) I QUALIFIED ICATEGORY D 3-231A(X) I IQUALIFIED ICATEGORY D 3-231A(X) I IQUALIFIED ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D			!			
S0-3-13-118 ASCO HVA90-405-2A JCO-31 NO TEST DATA/QDR SCRAM SOLENOIDS-89 TOTAL 25-56A-A1 I QUALIFIED ICATEGORY D ICATEGORY D 25-56A-B1 I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-A2 I QUALIFIED ICATEGORY D ICATEGORY D 25-56B-B2 I QUALIFIED ICATEGORY D ICATEGORY D 3-231A(M) I QUALIFIED ICATEGORY D ICATEGORY D 3-231A(X) I IQUALIFIED ICATEGORY D ICATEGORY D 3-231A(X) I IQUALIFIED ICATEGORY D ICATEGORY D 3-231B(M) I IQUALIFIED ICATEGORY D ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D ICATEGORY D 3-231B(X) I IQUALIFIED ICATEGORY D ICATEGORY D	CONTROL	ROD DRIVE	SYSTEM	(CONTINUED)		
S0-3-13-118 ! ASC0 ! HVA90-405-2A ! JCO-31 ! NO TEST DATA/QDR ! SCRAM SOLENOIDS-89 TOTAL. 25-56A-A1 ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 25-56A-91 ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 25-56B-A2 ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 25-56B-B2 ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231A(M) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231A(S1) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231A(X) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231A(X) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231A(X) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231B(M) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231B(X) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D 3-231B(X) ! ! QUALIFIED ! CATEGORY D ! CATEGORY D						
25-56A-A1 I	50-3-13-118	! ASCO	! HVA90-405-2A	! JCO-31	! NO TEST DATA/QDR	! SCRAM SOLENOIDS-89 TOTAL
25-56A-B1 I	25-56A-A1	1	1	! QUALIFIED		! CATEGORY D
25-56B-A2 !	25-56A-91	1	1 - C - C - C - C - C - C - C - C - C -	! QUALIFIED		! CATEGORY D
25-568-B2 !	25-56B-A2	1.	t	! QUALIFIED		! CATEGORY D
3-231A(M) !	25-56B-B2		la se de la serie de la seconda de la se	! QUALIFIED		! CATEGORY D
3-231A(S1) ! ! ! ! ! ! CATEGORY D 3-231A(X) ! ! ! ! ! ! CATEGORY D 3-231A(X1) ! ! ! ! ! ! CATEGORY D 3-231A(X1) ! ! ! ! ! ! CATEGORY D 3-231B(M) ! ! ! ! ! ! CATEGORY D 3-231B(S1) ! ! ! ! ! ! CATEGORY D 3-231B(X) ! ! ! ! ! ! ! CATEGORY D 3-231B(X) ! ! ! ! ! ! ! . 3-231B(X) ! ! ! ! ! ! . ! . ! ! . ! . ! ! . ! ! . ! 	3-231A(M)	3	E. C. C.	! QUALIFIED		! CATEGORY D
3-231A(X) ! ! ! ! ! ! CATEGORY D 3-231A(X1) ! ! ! ! ! ! ! CATEGORY D 3-231B(M) !	3-231A(S1)	1	1	! QUALIFIED	1971 - 1973 - 1974 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 -	! CATEGORY D
3-231A(X1) ! ! ! ! ! CATEGORY D 3-231B(M) ! ! ! ! ! ! ! CATEGORY D 3-231B(M) ! <td>3-231A(X)</td> <td>1</td> <td>1</td> <td>! QUALIFIED</td> <td>경험 김 영영 김</td> <td>! CATEGORY D</td>	3-231A(X)	1	1	! QUALIFIED	경험 김 영영 김	! CATEGORY D
3-231B(M) ! ! QUALIFIED ! ! CATEGORY D 3-231B(S1) ! ! QUALIFIED ! ! CATEGORY D 3-231B(X) ! ! QUALIFIED ! ! CATEGORY D 3-231B(X) ! ! QUALIFIED ! ! CATEGORY D	3-231A(X1)		1	! QUALIFIED	1	! CATEGORY D
3-231B(S1) ! ! ! QUALIFIED ! ! CATEGORY D 3-231B(X) ! ! QUALIFIED ! ! CATEGORY D	3-231B(M)	1	1. Sec. 1. Sec. 1.	! QUALIFIED	비행 가지 같은 것같은	! CATEGORY D
3-231B(X) ! ! QUALIFIED ! CATEGORY D	3-231B(\$1)	1	8	! QUALIFIED		! CATEGORY D
	3-231B(X)	1.000	1	! QUALIFIED	1	! CATEGORY D
3-231F(X1) ! ! ! QUALIFIED ! ! CATEGORY D	3-231F(X1)	1	1.	! QUALIFIED	1	! CATEGORY D
3-231C(M) ! ! ! QUALIFIED ! ! CATEGORY D	3-231C(M)	1 States and	1	! QUALIFIED		! CATEGORY D
3-201C(X) ! ! QUALIFIED ! ! CATEGORY D	3-2010(X)	1.	1000	! QUALIFIED	1	! CATEGORY D
3-031D(M) ! ! QUALIFIED ! ! CATEGORY D	3-231D(M)	1	1 - C	! QUALIFIED	1.000	! CATEGORY D
3-231D(X) ! ! ! QUALIFIED ! ! CATEGORY D	3-231D(X)	1	1.	! QUALIFIED	1	! CATEGORY D
3-231E(M) ! ! @UALIFIED ! ! CATEGORY D	3-231E(M)	1	1	! QUALIFIED	1	! CATEGORY D
3-231E(X) ! ! ! QUALIFIED ! ! CATEGORY D	3-231E(X)	1	1	! QUALIFIED	1	! CATEGORY D
3-231F(M) ! ! ! QUALIFIED ! ! CATEGORY D	3-231F(M)	1		! QUALIFIED	1	! CATEGORY D
3-231F(X) ! ! QUALIFIED ! ! CATEGORY D	3-231F(X)	1	1	! QUALIFIED	1	! CATEGORY D
3-231G(M) ! ! ! QUALIFIED ! ! CATEGORY D	3-231G(M)	1	1	! QUALIFIED	1	! CATEGORY D
3-231G(S1) ! ! QUALIFIED ! ! CATEGORY D	3-2310(\$1)	1	1	! QUALIFIED	1	! CATEGORY D
3-231G(X) ! ! ! QUALIFIED ! ! CATEGORY D	3-231G(X)	1	1944 (Mar 1977)	! QUALIFIED	1	! CATEGORY D
3-231G(X1) ! ! ! QUALIFIED ! ! CATEGORY D	3-2316(X1)	1	1	! QUALIFIED	1	CATEGORY D
3-231H(M) ! ! ! QUALIFIED ! ! CATEGORY D	3-231H(M)	1	12.00	! QUALIFIED	1.1	! CATEGORY D
3-231H(S1) ! ! QUALIFIED ! ! CATEGORY D	3-231H(S1)	1	1	! QUALIFIED	an tan Siring P	! CATEGORY D
3-231H(X) ! ! ! QUALIFIED ! ! CATEGORY D	3-231H(X)	1	1	! QUALIFIED	1	: CATEGORY D
3-231H(X1) ! ! QUALIFIED ! ! CATEGORY D	3-231H(X1)	1	1	! QUALIFIED	1.2	! CATEGORY D
CRUM POS IND ! GEN ELECTRIC ! ! JCO-29 ! NG DOC/QDR !	CRUM POS IND	! GEN ELECTRIC	1	! JCO-29	! NG DOC/QDR	1
REACTOR PROTECTION SYSTEM	REACTOR	PROTECTIO	N SYSTE			
PNL5-7A ! ! ! QUALIFIED ! ! CATEGORY D	PNL5-7A	1	1	! QUALIFIED	1	! CATEGORY D
PNL5-7B ! ! ! QUALIFIED ! . ! CATEGORY D	PNL5-7B	1	1	! QUALIFIED	1	! CATEGORY D
PNL5-7C ! ! ! QUALIFIED ! ! CATEGORY D	PNL5-7C	1	1	! QUALIFIED	1	! CATEGORY D
PNL5-7D ! ! ! QUALIFIED ! CATEGORY D	PNL5-7D	1	1	I QUALIFIED	1	1 CATEGORY D
PNL5-7E ! ! ! QUALIFIED ! ! CATEGORY D	PNI.5-7E	1	1	! QUALIFIED	100 300 200 200	! CATEGORY D
PNL5-7F ! ! ! QUALIFIED ! ! CATEGORY D	PNL5-7F	1	1	! QUALIFIED		! CATEGORY D

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

	1	1	! QUALIFICATION	! DEFICIENCY/	
ID NUMBER	! MANUFACTURER	! MODEL NUMBER	! STATUS	RESOLUTION	COMMENTS
		-!	• ! • • • • • • • • • • • • • • • • • •	**	
REACTOR.	PROTECTI	ON SYSTE	M (CONTINUED)		
FALS-7G	1	1	! QUALIFIED	1	! CATEGORY D
PNL5-7H	1	1	! QUALIFIED	1	! CATEGORY D
PS-5-14A	BARKSDALE	! B2T-A12-SS	! JCO-36	! NO TEST DATA/REPLACE	
PS-5-14B	! BARKSDALE	1 B2T-A12-SS	! JC0-36	! NO TEST DATA/REPLACE	
PS-5-14C	BARKSDALE	! B2T-A12-SS	! JC0-36	I NO TEST DATA/REPLACE	
PS-5-14D	BARKSDALE	! B2T-A12-SS	! JC0-36	! NO TEST DATA/REPLACE	
PS-37	! PENN	! P72AA-997	1 JC0-37	! NO TEST DATA/REPLACE	
PS-38	! PENN	! P72AA-997	1 JC0-37	! NO TEST DATA/REPLACE	
PS-39	! PENN	! P72AA-997	! JC0-37	! NO TEST DATA/REPLACE	
PS-40	! PENN	! P72AA-997	! JC0-37	! NO TEST DATA/REPLACE	
PT-5-12A	ROSEMOUNT	! 1152GP4N	! QUALIFIED		
PT-5-12B	! ROSEMOUNT	! 1152GP4N	! QUALIFIED	1	
PT-5-120	! ROSEMOUNT	! 1152GP4N	! QUALIFIED	1	
PT-5-12D	! ROSEMOUNT	! 1152GP4N	! QUALIFIED		
SVOS-1	! NAMCO	! SL-3	! JC0-38	! NO TEST DATA/REPLACE	
SV05-2	! NAMCO	! SL-3	1 JC0-38	! NO TEST DATA/REPLACE	
SV0S-3	! NAMCO	! SL-3	! JC0-38	! NO TEST DATA/REPLACE	
SV0S-4	! NAMCO	! SL-3	! JC0-38	! NO TEST DATA/REPLACE	이들은 영양은 전자의 방법에서 같은
5-12A(M)	ROSEMOUNT	! 510DU	! QUALIFIED	1	
5-12A(X)	! AGASTAT	! EGPBOO1	4 QUALIFIED	1	
5-12B(M)	! ROSEMOUNT	! 510DU	! QUALIFIED	!	1. I
5-12B(X)	! AGASTAT	! EGPB001	! QUALIFIED	1.	
5-12C(M)	ROSEMOUNT	! 510DU	! JC0-33	! HELB TEMP/REPLACE	
5-12C(X)	! AGASTAT	! EGPBOO1	! JC0-34	! HELB TEMP/QDR	
5-12D(M)	! ROSEMOUNT	! 510DU	! JCO-33	! HELB TEMP/REPLACE	
5-12D(X)	! AGASTAT	! EGPB001	! JCO-34	! HELB TEMP/RDR	1
25-5A-(A1)	! ELMA	! 16405261	! QUALIFIED	1	
25-5A-(B1)	! ELMA	1 16405261	! QUALIFIED	1	· ·
25-64-(A2)	! ELMA	1 16405261	! JC0-35	! HELB TEMF/RELOCATE	1
25-6A-(B2)	! ELMA	! 164C5261	! JC0-35	! HELB TEMP/RELOCATE	1
NEUTRON	MONITORI	NG SYSTE	M		
-	!	•	! QUAL IFIED	1	! CATEGORY D
- 70 3457	1	1	! QUALIFIED		! CATEGORY D
LPRMS	! GEN ELECTRIC	! 129B3620G026	! JC0-39	! NO DOC/ODR	1
TIP DR	1	1	! QUALIFIED	1	! CATEGORY D

MASTER EQUIPMENT LIST

ID NUMBER	! MANUFACTURER	! MODEL NUMBER	! QUALIFICATION ! STATUS	PEFICIENCY/ RESOLUTION	I COMMENTS	
	!	-!	-!			
RESIDUÁ.	L HEAT RE	MOVAL SY	STEM			
CP-82-2	MERCURY	1	! QUALIFIED	1		
DPT-10-91A	! GENAC	! 552	! JCO-40	! NO TEST DATA/REPLACE	1	
DPT-10-918	! GEMAC	! 552	! JC0-40	! NO TEST DATA/REPLACE		
FS-10-148A	BARTON	! 289A-2553	! JC0-41	! NO TEST DATA/QDR		
FS-10-148B	! BARTON	! 289A-2554	! JCO-41	! NO TEST DATA/QDR	- Elizabeth and a second	
MOV-10-13A	! LIMITORQUE	! SMB-2	. QUALIFIED	1.000	1	
MOV-10-138	! LIMITORQUE	! SMB-2	! QUALIFIED	1.000 000000000000000000000000000000000	· !	
MOV-10-13C	! LIMITORQUE	! SMB-2	! QUALIFIED	1	1.000	
MOV-10-13D	! LIMITORQUE	! SMB-2	! QUALIFIED		1	
MOV-10-15A	. ! LIMITORQUE	! SMB-2	! QUALIFIED		· •	
MOV-10-15B	! LIMITORQUE	! SMB-2	! QUALIFIED		· •	
MOV-10-15C	! LIMITORQUE	! SMB-2	! QUALIFIED	1.	1	
MOV-10-15D	! LIMITORQUE	! SMB-2	! QUALIFIED	1.000	1	
MOV-10-16A	! LIMITORQUE	! SMB	! QUALIFIED		1	
MOV-10-16B	! LIMITORQUE	! SMB	! QUALIFIED	1	1	
MOV-10-17	1	1	! QUALIFIED		! CATEGORY D	
MOV-10-18	! LIMITORQUE	! SMB-2	! JCO-42	! RAD/REPLACE BRAKE		
MOV-10-25A	! LIMITORQUE	! SMB-3	! QUALIFIED	1	1.	
MOV-10-25B	! LIMITORQUE	! SMB-3	! QUALIFIED		그 아이는 것은 것 같아요. 이 것 같아요.	
MOV-10-26A	! LIMITORQUE	! SMB-00	! QUAL IFIED	1		
MOV-10-26B	! LIMITORQUE	! SMB-00	! QUALIFIED	1	1	
MOV-10-27A	! LIMITORQUE	! SMB-4T	! QULAIFIED	1.1.1		
MOV-10-278	! LIMITORQUE	! SMB-4T	! QUALIFIED	1		
MOV-10-31A	! LIMITORQUE	! SMB-0	! QUALIFIED	1		
MOV-10-31B	! LIMITORQUE	! SMB-0	! QUALIFIED	1		
MOV-10-33	1	1	! QUALIFIED	1	! CATEGORY D	
MOV-10-34A	! LIMITORQUE	! SMB	! QUALIFIED			
MOV-10-34B	! LIMITORQUE	! SMB	! QUALIFIED	1		
MON-10-38A	! LIMITORQUE	1 SMB-00	! QUALIFIED	1	사람은 이 가슴 눈 옷에 다 감가 가 봐.	
MOV-10-38B	! LIMITORQUE	! SMB-00	: QUALIFIED			
MOV-10-39A	! LIMITORQUE	! SMB-0	! QUALIFIED	1.		
MOV-10-39B	! LIMITORQUE	! SMB-0	! QUALIFIED		1	
MOV-10-57	1	1	! QUALIFIED	1	! CATEGORY D	
MOV-10-654	! LIMITOROUE	! SMB-4	! QUALIFIED	12.00	1	
MOV-10-658	! LIMITOROUE	! SMB-4	! QUALIFIED	1	1	
MOV-10-66	1	1	! QUALIFIED		CATEGORY D	
MOV-10-89A	LIMITOROUE	1 SMB-2	· QUALIFIED		1	
MOV-10-898	! LIMITORQUE	! SMB-2	! QUALIFIED	1	1	

MASTER EQUIPMENT LIST

	Charles and some	A west from the	! QUALIFICATION	! DEFICIENCY/	1
ID NUMBER	! MANUFACTURER	! MODEL NUMBER	! STATUS	RESOLUTION	COMMENTS
1					
RESIDUÁ.	L HEAT RE	MOVAL SY	STEM (CONTINUE	D)	
P-8-1A	! WESTINGHOUSE	! CSP-USS-PP	! QUALIFIED	1	£
P-8-1B	! WESTINGHOUSE	! CSP-USS-PP	! QUALIFIED	1	
P-8-1C	! WESTINGHOUSE	! CSP-USS-PP	! QUALIFIED		And the Adda of
P-8-1D	! WESTINGHOUSE	! CSP-USS-PP	! QUALIFIED	1	1
P-10-1A	I GEN ELECTRIC	! BEJ-205002	! QUALIFIED	1	몇 일 : 이 이 있는 것이 가지?
P-10-18	! GEN ELECTRIC	! BEJ-212003	! QUALIFIED	1.	A Company of the second
P-10-10	! GEN ELECTRIC	! BEJ-219001	! QUALIFIED	1.15 15 16 16	
P-10-1D	! GEN ELECTRIC	! BEJ-219003	! QUALIFIED	a tana a sa	
P0T-10-89A	! LIMITORQUE	1	! JC0-44	IND TEST DATA/QDR OR DC	
P07-10-89B	! LIMITORQUE	1	! JC0-44	INO TEST DATA/QDR OR DC	And a second
PS-10-105A	1	1.5	! QUALIFIED	1.1.1.1.1.1.1.1.1.1	! CATEGORY D
PS-10-105B		1	I QUALIFIED	1	! CATEGORY D
PS-10-105C		1	! QUALIFIED	1.1	! CATEGORY D
PS-10-105D	1	1	! QUALIFIED		! CATEGORY D
PS-10-105E		1	! QUALIFIED	 Interview to a relieve 	! CATEGORY D
PS-10-105F	1 to 1 to 1 to 1	1.7.	! QUALIFIED	3	! CATEGORY D
PS-10-1056	1.1	1.	! QUALIFIED		! CATEGORY D
PS-10-105H	1.1	1	! QUALIFIED	- B	! CATEGORY D
PT-10-101A	ROSEMOUNT	! 1152GP4N	! GUALIFIED	· 관계· 관계· 영화· 영화·	1
PT-10-101B	! ROSEMOUNT	! 1152GP4N	! QUALIFIED		1
PT-10-1010	! ROSEMOUNT	! 1152GP4N	! QUALIFIED	1	1
PT-10-101D	! ROSEMOUNT	1152GP4N	! QUALIFIED	1	1
10-101A(M)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE	T. State of the second s
10-101A(S1)	! ROSEMOUNT	! 510DU	! JCO-22	! RAD/DESIGN CHANGE	
10-101A(X)	! AGASTAT	! EGPB001	! JC0-23	! RAD/GDR	
10-101A(X1)	! AGASTAT	! EGPB001	1 JC0-23	! RAD/QDR	
10-101B(M)	! ROSEMOUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSGN CH	IG!
10-101B(S1)	! ROSEMOUNT	! 51630	! JCD-24	!RAD+TEMP/REPLACE+DSGN CH	iG!
10-101B(X)	! AGASTAT	! EGPB001	! JCG-25	! RAD + TEMP/ODR	
10-101B(X1)	! APASTAT	EGPB001	! JC0-25	RAD + TEMP/ODR	1
10-101C(M)	! ROSEMOUNT	! 510DU	! JC0-22	! RAD/DESIGN CHANGE	1
10-1010(51)	! ROSEMOUNT	! 510DU	! JCO-22	! RAD/DESIGN CHANGE	1
10-101C(X)	! AGASTAT	! EGPB001	! JCO-23	! RAD/QDR	1
10-101C(X1)	! AGASTAT	! EGPB001	! JC0-23	! RAD/QDR	1
10-101D(M)	! ROSEMOUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSGN CH	IG!
10-101D(S1)	! ROSEMOUNT	! 510DU	! JC0-24	IRAD+TEMP/REPLACE+DSGN CH	G!
10-101D(X)	! AGASTAT	! EGPB001	! JC0-25	! RAD + TEMP/QDR	1
10-101D(X1)	! AGASTAT	! EGP8001	! JCO-25	! RAD + TEMP/QDR	1

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

PAGE 13

ID NUMBER	! ! MANUFACTURE	R MODEL NUMBER	9 QUALIFICATION	DEFICIENCY/ RESOLUTION	COMMENTS
REACTOR.	NATER CL	LEANUP SY	STEM		
FT-12-1A			! QUALIFIED		· CATEGORY D
FT-12-18	1.00		! QUAL IFIED		! CATEGORY D
MOV-12-15	! LIMITORQUE	! SMB-000	! QUALIFIED		
MOV-12-18	! LIMITORQUE	! SMB-000	! QUALIFIED		
MOV-12-68	1	1	! QUALIFIED	1	! CATEGORY D
12-1A(M)	! ROSEMOUNT	1 510DU	! JC0-22	! RAD/DESIGN CHANGE	
12-1A(X)	1.1	1	! QUALIFIED		! CATEGORY D
12-1B(M)	! ROSEMUUNT	! 510DU	! JC0-24	RAD+TEMP/REPLACE+DSGN CH	61
12-1B(X)	1	1	! QUALIFIED	1	! CATEGORY D
REACTOR	CORE IS	OLATION C	OOLING SYS	TEM	
CP-82-3	! MERCURY		! QUALIFIED	-, · · · · · · · · · · · · · · · · · · ·	,
MOV-13-15	! LIMITORQUE	! SMB-000	! JC0-46	! RAD/REPLACE MOTOR	
MOV-13-16	! LIMITORQUE	! SMB-000	! JC0-47	! NO DOC/REPLACE LIMIT SH	4S!
MTS-13-2	! WESTINGHOUSE	! MTSS	! QUALIFIED	1	
TS-13-79A	! FENWAL	! 17002-40	! JC0-48	INO TEST DATA/REPLACE	
TS-13-79B	! FENWAL	17002-40	! JC0-49	! NO TEST DATA/REPLACE	
TS-13-79C	! FENWAL	! 17002-40	1 JC0-49	I NO TEST DATA/REPLACE	
TS-13-79D	FENWAL	! 17002-40	! JC0-50	! NO TEST DATA/REPLACE	
TS-13-80A	! FENWAL	! 17002-40	! JCO-48	I NO TEST DATA/REPLACE	1
7S-13-80B	! FENWAL	17002-40	! JC0-49	! NO TEST DATA/REPLACE	
TS-13-80C	! FENWAL	! 17002-40	! JC0-49	! NO TEST DATA/REPLACE	
TS-13-80D	! FENWAL	! 17002-40	! JC0-50	I NO TEST DATA/REPLACE	
TS-13-81A	! FENWAL	1 17002-40	! JC0-48	NO TEST DATA/REPLACE	
TS-13-81B	FENWAL	17002-40	! JC0-49	! NO TEST DATA/REPLACE	
TS-13-81C	! FENWAL	! 17002-40	! JCO-49	I NO TEST DATA/REPLACE	
TS-13-81D	! FENWAL	17002-40	! JC0-50	I NO TEST DATA/REPLACE	
TS-13-82A	FENWAL	17002-40	! JC0-48	I NO TEST DATA/REPLACE	
TS-13-82B	! FENWAL	17002-40	! JC0-49	I NO TEST DATA/REPLACE	1
TS-13-82C	! FENWAL	17002-40	! JC0-49	INO TEST DATA/REPLACE	i a ser a
TS-13-82D	! FENWAL	17002-40	! JC0-50	I NO TEST DATA/REPLACE	1
V-13-16	! WESTINGHOUSE	! TYPE W	! JC0-5	! DOC/QDR	LOCAL STARTER
CORE SP	RAY SYST	EM		1	
FS-14-45A	! BARTON	! 289A-2456	! JC0-51	! NO TEST DATA/QDR	1
FS-14-458	I RARTON	1 2894-8122	1.100-51	I NO TEST DATA/ODP	

! QUALIFIED

! QUALIFIED

MOV-14-5A

MOV-14-5B

! LIMITORQUE ! SMB-000

! LIMITORQUE ! SMB-000

THORNER FOR

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	MODEL NUMBER	!	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
CORE SP.P	AY SYSTEM	(CONTINUED)				
MOV-14-7A	LIMITORQUE	! SMB-00	ł	QUALIFIED	1	44 N N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1
MUV-14-7B	! LIMITORQUE	! SMB-00	1	QUALIFIED	이 아이는 아이는 것은 것이 같아.	1
MOV-14-11A	LIMITORQUE	! SMB-2	ł	QUALIFIED		1
MOV-14-118	! LINITORQUE	! SMB-2	1	QUALIFIED		1
MOV-14-12A	! LIMITORQUE	! SMB-2	1	JC0-52	RAD/REPLACE MOTOR + BRAKE	
MOV-14-12B	LIMITORQUE	! SMB-2	!	JC0-52	IRAD/REPLACE MOTOR + BRAKE	1
MOV-14-26A	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1	!	QUALIFIED	1	! CATEGORY D
MOV-14-26B	•	1	1	QUALIFIED	1	! CATEGORY D
P-46-1A	! GEN ELECTRIC	! FEJ604010	1	QUALIFIED	1	1
P-46-18	! GEN ELECTRIC	! FEJ604011	1	QUALIFIED		1
PS-14-44A	!	1	1	QUALIFIED		! CATEGORY D
PS-14-448	•	!	1	QUALIFIED		! CATEGORY D
PS-14-44C		1	1	QUALIFIED		! CATEGORY D
PS-14-44D		!	1	QUALIFIED		! CATEGORY D
PRIMARY	CONTAINME	ENT ATMO	SP	HERIC CO	NTROL SYSTEM	
DPS-16-19-32A	BARTON	! 288A-6648	į.	JC0-53	! NO TEST DATA/QDR	1
DPS-16-19-32B	BARTON	: 288A-6649	1	JC0-53	! NO TEST DATA/QDR	1
LT-16-19-10A	ROSEMOUNT	! 1153B	4	QUALIFIED		1
LT-16-19-10B	! ROSEMOUNT	! 1153B	1	QUALIFIED		1
PT-16-19-29A	! ROSEMOUNT	! 1153AB7	ł	QUALIFIED	1	1
PT-16-19-29B	! ROSEMOUNT	! 1153AB7	1	QUALIFIED	1	1
RD-16-19-1A	! VICTOREEN	! 877	1	QUALIFIED	1	1
RD-16-19-1B	! VICTOREEN	! 877	ł	QUALIFIED	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1
SB-16-19-6	!	1	ł	QUALIFIED	1 Children of Manager	! CATEGORY D
SB-16-19-6A	la se	1	1	QUALIFIED		! CATEGORY D
SP-16-19-6B	f	1.00	1	QUALIFIED		! CATEGORY D
SB-16-19-7	!	1	1	QUALIFIED		! CATEGORY D
SB-16-19-7A		1.000	1	QUALIFIED		! CATEGORY D
SB-16-19-7B	10 C	1	1	QUALIFIED		! CATEGORY D
SB 16-19-8	!	1.1.1.1.1.1.1.1.1.1	1	QUALIFIED	1	! CATEGORY D
SB-16-19-9	•	1.000	1	QUALIFIED	1.1	! CATEGORY D
SB-16-19-10	!	!	1	QUALIFIED	1	! CATEGORY D
SB-16-19-11A	! ASCO	! NP831654E	1	QUALIFIED	· ·	
LS-SB-16-19-11A	MICROSWITCH	! OPD-AR-6809	1	JC0-54	! RAD/QDR	1
SB 16-19-11B	ASCO	! NP831654E	ł	QUALIFIED		
LS-SB-16-19-11B	MICROSWITCH	! OPD-AR-6809	1	JC0-54	! RAD/QDR	1
SB-16-19-23	!	1	i	QUALIFIED		! CATEGORY D

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

and the second		March 1997	! QUALIFICATION	! DEFICIENCY/	
ID NUMBER !	MANUFACTURER	MODEL NUMBER	! STATUS	! RESOLUTION	COMMENTS
!-		·!			
PRIMARY C		NT ATMOS	PHERIC COM	TROL SYSTEM (CONTINUED)
rainant. c	en in in in i		inchie ver		
TE-1-149-1 !	CONAX	! 7952-10000-04	! QUALIFIED	1	:
TE-1-149-2 !	CONAX	! 7952-10000-04	! QUALIFIED	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TE-1-149-3 !	CONAX	! 7952-10000-04	! QUALIFIED	1	1
TE-1-149-4 !	CONAX	! 7952-10000-04	! QUALIFIED	!	1
TE-1-149-5 !	CONAX	! 7952-10000-04	! QUALIFIED	1	1
TE-1-149-6 !	CONAX	! 7952-10000-04	! QUALIFIED	1	1
TE-1-149-7 !	CONAX	! 7952-10000-04	! QUALIFIED	1	
TE-1-149-8 !	CONAX	! 7952-10000-04	! QUALIFIED	1	Little Charles Shares Shares
TE-1-149-9 !	CONAX	! 7952-10000-03	! QUALIFIED	1	La carriera de la carriera de
TE-1-149-10 !	CONAX	! 7952-10000-03	! QUALIFIED	1	10년 20년 1월 20일 - 19일 - 19일 - 19일 - 19g - 19 - 19일 - 19g - 1 - 19g - 19g
TE-1-149-11 !	CONAX	! 7952-10000-03	! QUALIFIED	1	1
TE-1-149-12 !	CONAX	1 7952-10000-03	! QUALIFIED	1	1
TE-16-19-30 !	CONAX	! 7952-10000-01	! QUALIFIED	1	1
TE-16-19-33A !	CONAX	1 7952-10000-02	! QUALIFIED	1	1
TE-16-19-33C	CONAX	1 7952-10000-02	! QUALIFIED	1	1
TE-16-19-34	CONAX	1 7952-10000-01	! QUALIFIED	1	1
V16-20-20		1	! QUALIFIED	1	I CATEGORY D
V16-20-22A !		4	! QUALI TED	1	! CATEGORY D
V16-20-22B !		1	! QUALIFIED	l-	: CATEGORY D
RADIATION	MONITO	RING SYST	r e M		
Rm-17-430A !		1	! QUALIFIED	1 Street as f	! CATEGORY D
RM-17-430B !		1	! QUALIFIED	!	! CATEGORY D
RM-17-431A !		1	! QUALIFIED	1	! CATEGORY D
RM-17-431B !		1	! QUALIFIED	1	! CATEGORY D
FUEL POOL	COOLIN	G SYSTEM			
LOCAL IND LIGHTS!		1	! JC0-58	! NO TEST DATA/DESIGN CHNO	S! NOTE 5
LOCAL CONT SW !		和社会民主	! JCO-57	! NO TEST DATA/REPLACE	1
LSH-19-60 !	JOBELL	: MODEL B	! JC0-55	! NU TEST DATA/REPLACE	! NOTE 12
LSL-19-60 !	JOBELL	! MODEL K	! JCO-56	! NO TEST DATA/REPLACE	! NOTE 12
P-9-1A !	WESTINGHOUSE	! 40HP-286T6	! QUALIFIED	1	!
P-9-18 !	WESTINGHOUSE	! 40HP-286T6	! QUALIFIED	• • • • • • • • • • • • • • • • • • •	1
PS-19-68A !	ASHCROFT	! 6480	! JCD-59	! NO TEST DATA/REPLACE	1.000
PS-19-688 !	ASHCROFT	! 6480	! JCO-59	! NO TEST DATA/REPLACE	1
RADWASTE	SYSTEM				
A0V-20-82 !		!	! QUALIFIED	1	! CATEGORY D

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	! MANUFACTURER	MODEL NUMBER	! QUALIFICATION ! STATUS	! DEFIC_ENCY/ ! RESOLUTION	COMMENTS	
1						
RADWAS J.I	ESYSIEM	(CUNTINUED)				
A0V-20-83	1	1	. QUALIFIED	1	! CATEGORY D	
A0V-20-94	1	1	! QUALIFIED	1	! CATEGORY D	
A01-20-95	1	1	! QUALIFIED	1	! CATEGORY D	
HIGH PRI	ESSURE CO	OLANT IN	JECTION SY	STEM		
MOV-23-15	! LIMITORQUE	! SMB-1	! QUALIFIED	1	A STATE OF SHARE	
NUV-23-16	! LIMITORQUE	! SMB-1	! QUALIFIED	1		
TS-23-101A	! FENWAL	! 17002-40	! JC0-61	! NO TEST DATA/REPLACE	· •	
TS-23-101B	! FENWAL	! 17002-40	! JC0-62	! NO TEST DATA/REPLACE	1	
TS-23-101C	! FENWAL	! 17002-40	! JC0-62	! NO TEST DATA/REPLACE		
TS-23-101D	! FENWAL	! 17002-40	! JC0-63	! NO TEST DATA/REPLACE		
TS-23-102A	! FENWAL	! 17002-40	! JCO-61	! NO TEST DATA/REPLACE		
TS-23-102B	! FENWAL	! 17002-40	! JC0-62	! NO TEST DATA/REPLACE		
TS-23-102C	! FENWAL	! 17002-40	! JC0-62	! NO TEST DATA/REPLACE		
TS-23-102D	! FENHAL	! 17002-40	! JC0-63	! NO TEST DATA/REPLACE		
TS-23-103A	! FENWAL	! 17002-40	! JC0-61	I NO TEST DATA/REPLACE		
TS-23-103B	! FENMAL	! 17002-40	! JCO-62	! NO TEST DATA/REPLACE		
TS-23-103C	! FENWAL	! 17002-40	! JCO-62	! NO TEST DATA/REPLACE		
TS-23-103D	! FENWAL	! 17002-40	! JC0-63	! NO TEST DATA/REPLACE		
TS-23-104A	! FENWAL	! 17002-40	! JCO-61	! NO TEST DATA/REPLACE		
TS-23-104B	! FENWAL	! 17002-40	1 JC0-62	! NO TEST DATA/REPLACE		
TS-23-104C	! FENWAL	! 17002-40	! JC0-62	! NO TEST DATA/REPLACE	1	
TS-23-104D	! FENWAL	! 17002-40	! JC0-63	! NO TEST DATA/REPLACE		
V-23-16	! WESTINGHOUSE	! TYPE W	! JC0-5	! DOC/QDR	! LOCAL STARTER	
SERVICE	AND COOL	ING WATE	R SYSTEM			
MOV-70-19A	! LIMITORQUE	! SMB-1	! QUALIFIED	1	1	
NOV-70-19B	! LIMITORQUE	! SMB-1	! QUALIFIED	1		
MOV-70-20	! LIMITORQUE	! SMB-1	! QUALIFIED	!	· ·	
P-59-1A	! WESTINGHOUSE	! LIFELINE T	! QUALIFIED	1	· ·	
P-59-1B	! WESTINGHOUSE	! LIFELINE T	! QUALIFIED	1		
PS-104-57-1	!	1	! QUALIFIED	· · · · · · · · · · · · · · · · · · ·	! CATEGORY D	
PS-104-57-2	1	1	! QUALIFIED	! .	! CATEGORY D	
SE-70-4A	! ASCO	! HPX8211C13	! JC0-66	! NO TEST DATA/REPLACE	1	
SE-70-48	! ASCO	! HPX8211C13	! JC0-66	! NO TEST DATA/REPLACE	1	
SE-70-4C	! ASCO	! HPX8211C13	! JC0-66	! NO TEST DATA/REPLACE		
SE 70-40	! ASCO	! HPX8211C13	! JCO-66	! NO TEST DATA/REPLACE		
					그는 말 같은 것이 같은 것이 없는 것이 없이 않이	

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	! ! MODEL NUMBER	QUALIFICATION	DEFICIENCY/ RESOLUTION	COMMENTS
Ę	-!	•!	.!		
POST AC.C	IDENT SA	MPLING SY	STEM		
71-F-1 71-P-1 71-S-1 71-S-2	! ASCO ! ASCO ! ASCO ! ASCO	! HBT-8300-D58F ! HBT-8300-D58F ! HBT-8300-D58F ! HBT-8300-D58F	! JC0-67 ! JC0-67 ! JC0-67 ! JC0-67	! NO TEST DATA/REPLACE ! NO TEST DATA/REPLACE ! NO TEST DATA/REPLACE ! NO TEST DATA/REPLACE	
SERVICE	AND INST	RUMENT A	IR SYSTEM		
A0V-72-38A A0V-72-38B CONDENSA	! 	I TRANSFER	! QUALIFIED ! QUALIFIED SYSTEM	1	! CATEGORY D ! CATEGORY D
107-12A(M) 107-12B(M)	! ROSEMOUNT ! ROSEMOUNT	! 510DU ! 510DU	900-22 900-22	! RAD/DESIGN CHANGE ! RAD/DESIGN CHANGE	1
MISCELLA	NEOUS EL	ECTRICAL	EQUIPMENT		
ELEC-3 ELEC-4	! LEWIS ! ROME	! SR/SR ! XLP/PVC	! QUALIFIED ! QUALIFIED	1	! THERMOCOUPLE CABLE ! POWER CABLE
ELEC-5 ELEC-6 ELEC-7	I GEN ELECTRIC	NS02/NS03/NS04 XLP/PVC 0222	1 QUALIFIED		PENETRATION POWER CABLE
ELEC-9	ROME	! XLP/PVC ! HTK/FR	! QUALIFIED ! QUALIFIED		POWER CABLE
ELEC-11 ELEC-12	PROME	I XLP/PVC/PVC	900-7 900ALIFIED 900ALIFIED	: NHU/NEFLHUE ! !	CONTROL CABLE
ELEC-13 ELEC-14 ELEC-15	PROME STATES STATES	! XLP/PVC/PVC ! NT ! NT	! QUALIFIED ! QUALIFIED ! QUALIFIED		! CONTROL CABLE ! TERMINAL BLOCK ! TERMINAL BLOCK
ELEC-16 ELEC-17 ELEC-18	PROCKBESTOS ROCKBESTOS GEN ELECTRIC	! FIREWALL SR ! FIREWALL SR ! CR151	! QUALIFIED ! QUALIFIED ! QUALIFIED		! CONTROL CABLE ! CONTROL CABLE ! TERMINAL BLOCK
ELEC-19 ELEC-21	BIW	I XLP/NEOPENE	! QUALIFIED ! QUALIFIED		! CONTROL CALE ! TERMINAL BLOCK
ELEC-23 ELEC-25	! LEWIS ! BUCHANAN	PE/PVC/SHLD	904LIFIED		! CONTROL CABLE ! CONTROL CABLE ! TERMINAL BLOCK
ELEC-28 ELEC-29 ELEC-30	! STATES ! LEWIS ! LEWIS	PE/PVC	! QUALIFIED ! QUALIFIED ! QUALIFIED		! TERMINAL BLOCK ! THERMOCOUPLE CABLE ! THERMOCOUPLE CABLE

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION	DEFICIENCY/ RESOLUTION	COMMENTS	
ſ						
MISCELÉ.A	NEOUS EL	ECTRICAL	EQUIPMENT	(CONTINUED)		
ELEC-31	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	1 and the	! CONTRUE CABLE	
ELFC-34	! LEWIS	! RG-95(H.T.)	! JCO-39	! NO DOC/QDR	! CO-AXIAL CABLE	
ELEC-35			! JCO-39	! NO DCO/RPR	! ELECTRICAL CONNECTOR	
ELEC-36	! ENDEVCO	! 3075M6	! QUALIFIED	1	! CO-AXIAL CABLE	
ELEC-38	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	18.00	! SIS WIRE	
FLEC-39	! OKONITE	! EPR/HYPALON	! QUALIFIED	1	! POWER CABLE	
ELEC-40	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	1	! INSTRUMENT CABLE	
ELEC-42	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	1.	! CO-AXIAL CABLE	
ELFC-43	! RAYCHEM	! VARIOUS	! QUALIFIED	1.	! CABLE SPLICE KIT	
ELEC-44	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	1	! CO-AXIAL CABLE	
ELEC-45	! LEWIS	! RG-95	! JC0-39	! NO DOC/QDR	! CO-AXIAL CABLE	
ELEC-46	! GEN ELECTRIC	! 175A9132P008	! QUALIFIED	1	! FUSE HOLDER	
ELEC-47	! GEN ELECTRIC	1	! QUALIFIED	1.	! SIS WIRE	
ELEC-48	! GEN ELECTRIC	! 167A2452P003	! QUALIFIED	1	! FUSE	
ELEC-49	! ROCKBESTOS	! FIREWALL III	! QUALIFIED	1	! THERMOCOUPLE CABLE	
ELFC-50	1.	! 600V, PEPS	! JC0-29	! NO DOC/QDR	SIGNAL CABLE	
ELEC-51	1	! 600V, VULKENE	1 JC0-29	! NO DOC/QDR	SIGNAL CABLE	

VERMONT YANKEE ENVIRONMENTAL QUALIFICATION MASTER EQUIPMENT LIST NOTES

- The Master Equipment List consists only of electrical components located in a harsh environment for the design basis accident(s) in which it is relied upon to function (or not fail). These are Category A, B, and D components listed in the EQ Matrix Report.
- 2) These components are presently included on the Master Equipment List, but will be removed from this list once a planned design change is implemented which will make the component function in a mild environment.
- 3) Analog Instrument Cabinets 25-56A and 25-56B consist of scram discharge volume level instrumentation that is associated with Level Transmitters LT3-231 A-H. The instrumentation in these cabinets will be protected from harsh HELB environments by planned design changes. Although this instrumentation is not now included on the Master List, Justification for Continued Operation (JCO) Number 30 has been prepared for the interim period until the design changes are implemented.
- 4) A design change is planned which will prevent failures associated with MOV-70-118 from adversely affecting Reactor Building closed cooling water supply to the fuel pool cooling heat exchangers. Although MOV-70-118 and associated controls are not included on the Master List, Justification for Continued Operation (JCO) Number 65 has been prepared for the interim period until the design change is implemented.
- 5) A design change is planned which will prevent failure of the fuel pool cooling pumps' local indicating lights on Racks 10 and 11 from adversely affecting FP cooling pump operation. These lights will be removed from the Master List once the design change is implemented.
- MOV-10-32 is not included on the Master List based upon a pending exemption to delete Type C leak rate test requirements. However,

Justification for Continued Operation (JCO) Number 43 has been prepared for the interim period until the exemption is approved.

- 7) MCC-6A and 7A are non-Class 1E and are not included on the Master List. They presently supply power to the fuel pool cooling pumps. A design change is planned that will change the power source for these pumps to Class 1E MCCs that are within the scope of the EQ program. Justification for Continued Operation (JCO) Number 4 has been prepared for the interim period until the design change is implemented.
- 8) The inverters and Battery System (UPS-1A and 1B) that supply uninterruptible power to LPCI valves are not included on the Master List. A design change is planned that will allow manual transfer of power supply to LPCI valves if the UPS fails. Justification for Continued Operation (JCO) Number 6 has been prepared for the interim period until the design change is implemented.
- 9) A design change is planned to prevent failure of non-Class 1E drywell cooling components from adversely affecting post-accident monitoring drywell air temperature indication. Although these drywell cooling components are not included on the Master List, Justification for Continued Operation (JCO) Number 8 has been prepared for the interim period until the design change is implemented.
- 10) A design change is planned to prevent failure of the auxiliary relay for the HPCI gland seal condenser blower from adversely affecting the Standby Gas Treatment System. Although this relay is not included on the Master List, Justification for Continued Operation (JCO) Number 60 has been prepared for the interim period until the design change is implemented.
- 11) A design change is planned to provide redundant RBCCW surge tank level alarms to aid in long-term post-LOCA makeup. Although the present alarm instrumentation (LSL-104-3) is not included on the Master List, Justification for Continued Operation (JCO) Number 64 has been prepared for the interim period until the design change is implemented. Also, the Master List will be updated to reflect the addition of new level instruments after installation.

- 12) A design change is planned to replace existing fuel pool level alarm instruments with redundant Class 1E instruments.
- 13) A design change is planned to enhance our RWCU High Space Temperature Detection and Isolation System. Justification for Continued Operation (JCO) Number 45 has been prepared for the interim period until the design change is implemented. Also, the Master List will be updated to reflect the addition of new temperature detection components after installation.
- 14) Components designated as "Category D" in the comment column are those components that function prior to the onset of a harsh environment and whose subsequent failure will not adversely affect any safety functions. The technical basis for components in this category is provided in the "Vermont Yankee Electrical Component Matrix Report".

ENCLOSURE 1

STATUS OF ITLMS ADDRESSED IN FRANKLIN RESEARCH CENTER TER-C5257-496 REVISION 1

....

.

Enclosure 1 Page <u>1</u> of <u>24</u>

STATUS OF ITEMS ADDRESSED IN FRANKLIN RESEARCH CENTER TER-C5257-496

TTEM

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
1	Limit Switch NAMCO EA740	A.II	Similarity Aging Qualified Life	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
2	Limit Switch NAMCO EA740	II.A	Similarity Aging Qualified Life	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
3	Limit Switch Microswitch OPDAR6809	I.B	Documentat! on	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office. Some of the equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
4	Position Switch General Electric	I.B		Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Enclosure 1 Page 2 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
5	Temperature Switch Fenwal 17023-6	II.A	Documentation Similarity Steam Exposure	These switches will be replaced with qualified Fenwal switches Model (01-170230-090) during the 1984 Refueling Outage.
6	Pressure Switch Static-O-Ring 6NE3CIAGGMMRTTX10	I.B		These switches will be replaced with qualified SOR Model (6TA-B3-NX-C1A- JJTTX6) switches during the 1984 Refueling Outage.
7	Level Indicating Transmitter YARWAY 4418CE	III.B		This equipment will be replaced with qualified Rosemount (1153s) during the 1984 Refueling Outage.
8	Electric Motor General Electric FEJ604011	A.II	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
9	Electric Motor General Electric BEJ212003	II.A	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
10	Electric Motor Westinghouse S069F46553	II.A	Similarity Aging Qualified Life	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Enclosure 1 Page <u>3</u> of <u>24</u>

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
11	Electric Motor Reliance Electric	II.A	Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
12	Electric Motor Allis Chalmers RG Frame 215T	I.B	Documentation	Qualified replacement equipment has already been installed per FRC Item #11.
13	Electric Motor Reliance Electric	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
14	Electric Motor Reliance Electric	II.A	Similarity	The equipment has been deleted from the Master Equipment List because it is part of the CAD System, which is not in the scope of 10CFR50.49.
15	Electric Motor Allis Chalmers 51308578	I.B	Documentation	Qualified replacement equipment has already been installed per FRC Item #13.
16	Electric Motor	I.B	Documentation	The equipment has been deleted from the Master Equipment List because it was going to be replaced by FRC Item 14.
17	Terminal Block General Electric CR151	I.A	None	None required.

Enclosure 1 Page <u>4</u> of <u>24</u>

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
18	Terminal Block Buchanan 0222	II.A	Documentation Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
19	Terminal Block States NT	I.A.	None	States Type NT Terminal Blocks are used for several thermocouple circuits within the primary containment. The effects of potential leakage currents in this application have been evaluated in documentation on file at our engineering office and the blocks are qualified.
20	Terminal Block States NT	I.A	None	None required.
21	Terminal Block Buchanan	II.A	Documentation Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
22	Terminal Block States NT	I.A	None	None required.
23	Electrical Penetration General Electric NS02	I.A	None	None required.

Enclosure 1 Page 5 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
24	Electrical Penetration General Electric NS03	I.A	None	None required.
25	Electrical Penetration General Electric NSO4	I.A	None	None required.
26	Pressure Transmitter Rosemount 1152	II.C	Aging Qualified Life	The equipment has been deleted from the Master Equipment List because it is part of the CAD System, which is not in the scope of 10CFR50.49.
27	Level Transmitter Rosemount 1152	I.B		Qualified replacement equipment (Rosemount 1153s) have already been installed.
28	Pressure Transmitter General Electric 552	II.A	Documentation	The equipment has been deleted from the Master Equipment List because we are using other qualified equipment in FRC Item #29, and Item #28 is no longer in the scope of 10CFR50.49.
29	Pressure Transmitter Rosemount 1152	II.C	Aging Qualified Life	Qualified replacement equipment (Rosemount 1153s) have already been installed.
30	Level Transmitter Rosemount 1152T280	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.

Enclosure 1 Page <u>6</u> of <u>24</u>

ITEM NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPUSED RESOLUTION
31	Level Transmitter General Electric GEMAC 555	I.B	Documentation	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
32	Acoustic Transmitter Babcock & Wilcox	I.B	Documentation	This equipment will be replaced with qualified TEC Models (504E and 160-2) during the 1984 Refueling Outage.
33	Acoustic Accelerometer Babcock & Wilcox	I.B	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
34	Radiation Detector Victoreen 877	I.B	Similarity Pressure Steam Exposure Accuracy	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
35	Thermocouple Conax T 2319029ECSA	II.A	Documentation Aging Qualified Life Aging Simulation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
36	Pressure Transmitter Rosemount 1152	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.

Enclosure 1 Page <u>7</u> of <u>24</u>

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
37	Hydrogen Analyzer Comsip Delphi KI	IA	Documentation	Qualified replacement equipment (Teledyne 225 CMA-2s) have already been installed.
38	Power Supply Exide 250 kVA	II.A	Documentation	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
39	Thermocouple Conax 2310-9029-ESCA	II.A	Documentation Aging Qualified Life Aging Simulation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
40	Electric Motor General Electric BEJ205002	II.A	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
41	Temperature Element Conax 23109029-ECSA	II.A	Documentation Aging Qualified Life Aging Simulation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
42	Electric Motor General Electric BEJ219001	II.A	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Enclosure 1 Page <u>8</u> of <u>24</u>

STATUS OF ITEMS ADDRESSED IN FRANKLIN RESEARCH CENTER TER-C5257 496

-

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
43	Motor-Generator General Electric	II.A	Documentation	The equipment has been deleted from the Master Equipment List. It is not required to be qualified since an alternate qualified power source is available.
44	Motor Control Center Westinghouse Type W	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
45	Motor Control Center ITE 5600	II.A	Aging Qualified Life Aging Simulation Radiation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
46	Power Panel Westinghouse	II.A	Documentation	This power panel is located in one of the MCCs which are evaluated by FRC Item #47.
47	Motor Control Center Westinghouse Type W	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Enclosure 1 Page 9 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
48	Thermocouple Cable Lewis SR/SR	I.B	Documentation	A portion of this equipment has been replaced with qualified Rockbestos thermocouple cable. Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
49	Thermocouple Cable Lewis PE/PVC	I.B	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
50	Thermocouple Cable Lewis PZ/PVC	1.A	None	None required.
51	Power Cable Kerite HTK/FR	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
52	Power Cable Collyer Butyl/Neoprene	I.A	None	The environment that this equipment is exposed to is harsher than evaluated by FRC. This equipment will be replaced with qualified Rockbestos 5kV cable during the 1984 Refueling Outage.
53	Power Cable Cerro XLP/Neoprene Firewall III	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.

Enclosure 1 Page 10 of 24

STATUS OF ITEMS ADDRESSED IN FRANKLIN RESEARCH CENTER TER-C5257-496

TTEM

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
54	Power Cable Cerro EPR/Neoprene	II.A	Similarity	The equipment has been deleted from the Master Equipment List because it supports the CAD System, which is not in the scope of 10CFR50.49. Also, a portion of this cable is associated with components that function prior to a harsh environment.
55	Power Cable Rome XLP/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
56	Power Cable Rome XLP/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
57	Power Cable Rome XLP/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
58	Control Cable Rockbestos Firewall SR	II.A	Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Fnclosure 1 Page 11 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
59	Control Cable Rockbestos Firewall SR	II.A	Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
60	Control Cable Cerro XLPE/Neoprene	II.A	Similarity	The equipment has been deleted from the Master Equipment List because it is part of the CAD System, which is not in the scope of 10CFR50.49.
61	Control Cable Rome XLP/PVC/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
62	Control Cable Rome XLP/PVC/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
63	Control Cable Rome XLP/PVC/PVC	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
64	Control Cable Lewis PE/PVC/SHLD	1.4	None	None required.

Enclosure 1 Page 12 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
65	Control Cable BIW XLP/Neoprene	II.A	Documentation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
66	MOV Limitorque SMB-000	I.B	Documentation Aging Qualified Life Radiation	These deficiencies will be corrected by replacement of certain subcomponents with qualified subcomponents during the 1984 Refueling Outage. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life.
67	Electric Motor General Electric BEJ219003	II.A	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
68	MOV Limitorque SMB-1 SMB-00	II.A	Aging Qualified Life Radiation	These deficiencies will be corrected by replacement of certain subcomponents with qualified subcomponents during the 1984 Refueling Outage. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life. One component has been deleted from the Master Equipment List. MOV 10-32 is not required to be qualified since a design change was installed that blanks off the downstream piping and eliminates the safety function of this valve.

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
69	Electric Motor General Electric FEJ604010	II.A	Similarity Aging Qualified Life Radiation Functional Test	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
70	MOV Limitorque SMB-4T	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
71	MOV Limitorque SMB-000	I.B	Documentation Aging Qualified Life Radiation	These deficiencies will be corrected by replacement of certain subcomponents with qualified subcomponents during the 1984 Refueling Outage. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life.
72	MOV Limitorque SMB-4	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
73	MOV Limitorque SMB-000	I.B.	Documentation Aging Qualified Life Radiation	The equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.

Enclosure 1 Page 14 of 24

ITEM NO. 74	DESCRIPTION	_ <u>CATEGORY</u> II.A	DEFICIENCIES Documentation Similarity Aging Qualified Life Radiation	PROPOSED RESOLUTION These deficiencies will be corrected by replacement of certain subcomponents with qualified subcomponents during the 1984 Refueling Outage. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life.
	MOV Limitorque SMB000 DC Motor			
75	MOV Limitorque SMB-000	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
76	MOV Limitorque SMB-000 SMB-2	I.B	Documentation Aging Qualified Life Radiation	Part of these deficiencies have been resolved by additional qualification documentation, which qualifies the equipment, not previously available to FRC which will be on file at our engineering office. The remaining deficiencies will be corrected by replacement of certain subcomponents with qualified subcomponents during the 1984 Refueling Outage. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life.
77	MOV Limitorque SMB-2 DC Motor	II.A	Documentation Similarity Aging Qualified Life Radiation	The equipment has been deleted from the Master Equipment List because it is equipment which is required for cold shutdown which is not in the scope of 10CFR50.49.

Enclosure 1 Page 15 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
78	MOV Limitorque SMB-000	I.B	Documentation Aging Qualified Life Radiation	The equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
79	SOV ASCO 8320/8311A31F	I.B	Documentation	Equipment performs its function before its exposure to the harsh equipment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
80	MOV Limitorque SMB-2	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
81	MOV Limitorque SMB-1	II.C	Aging Qualified Life	There concerns will be addressed in the ongoing Maintenance and Surveillance Program.
82	MOV Limitorque SMB-1	III.A	Exempt	This item was originally exempt. It is now required, and has been determined to be qualified.
83	MOV Limitorque SMB-0 SMB-1 SMB-3 SMB-4	II.C	Aging Qualified Life	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.

Enclosure 1 Page 16 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
84	MOV Limitorque SMB-1 SMB-000	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
85	Turbine Controls Terry CCS	III.B		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore it is not in the scope of 10CFR50.49
86	Flow Transmitters General Electric 555111BDAAPBJ	III.B		The equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore it is not in the scope of 10CFR50.49.
87	MOV Limitorque	II.A	Documentation Aging Qualified Life Radiation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
88	Temperature Switch Fenwal 17023-6	II.A	Documentation Similarity Steam Exposure	These switches will be replaced with qualified Fenwal switches Model (01- 170-230-090) during the 1984 Refueling Outage.

Enclosure 1 Page 17 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
89	MOV Limitorque SMB-0 SMB-2	II.A	Documentation Similarity Aging Qualified Life Radiation	The ultimate injection valves have been deleted from the Master Equipment List because they are no longer required, and therefore are not in the scope of 10CFR50.49.
90	Pressure Switch Barton 288	II.A	Documentation Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
91	MOV Limitorque SMB-0 SMB-00 SMB-2 SMB-3 SMB-4	II.A	Aging Qualified Life Radiation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
92	MOV Limitorque SMB-0 SMB-2 SMB-4T	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
93	Level Transmitter Rosemount 1152T280	II.C	Aging Qualified Life	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
94	Pressure Switch Barton 288	II.A	Documentation Similarity	One of these switches has already been replaced with qualified equipment (Rosemount 1153). The other will be replaced during the 1984 Refueling Outage.

Enclosure 1 Page <u>18</u> of <u>24</u>

1TEM NO. 95	DESCRIPTION	II.A	DEFICIENCIES Documentation Aging Qualified Life Temperature Radiation	Some of this equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator. Some will be qualified by installing replacement subcomponents during the 1984 Refueling Outage. The remaining have qualification documentation, not previously available to FRC, which qualifies the equipment and is on file at our engineering office. In addition, our Maintenance and Surveillance Program will address ongoing Aging and Qualified Life.
	MOV Limitorque SMB-1 SMB-2			
96	Pressure Switch Barksdale B2TA12SS	II.A	Aging Qualified Life Temperature Steam Exposure Radiation Margin	The equipment has been deleted from the Master Equipment List because we are using other qualified equipment, and therefore it is no longer in the scope of 10CFR50.49.
97	Turbine Controls Terry GS1	III.A		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore it is not in the scope of 10CFR50.49.

Enclosure 1 Page <u>19</u> of <u>24</u>

ITEM NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
98	Pressure Switch Barksdale D2HA150SS	III.B		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break _OCA event, and its environment is mild for this event. Therefore it is not in the scope of 10CFR50.49.
99	SOV ASCO NP831654E	II.C	Aging	The equipment has been deleted from the Master Equipment List because this equipment is associated with the fast closing valves which will not be installed.
100	SOV ASCO 2063816F	I.B	Documentation Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
101	MOV Limitorque SMB-1	II.A	Documentation Aging Qualified Life Radiation	This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore it is not in the scope of 10CFR50.49.
102	SOV ASCO 2068323	I.B	Documentation Similarity	Qualification Gocumentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.

Enclosure 1 Page 20 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
103	SOV ASCO 8320C29F 8311A31F	I.B	Documentation	Qualified replacement valves ASCO (206-380-7F) have already been installed.
104	MOV Limitorque SMB-3 SMB-4T	II.A	Aging Qualified Life Radiation	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
105	SOV ASCO 8315C22	I.B	Documentation	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
106	SOV ASCO NP1	II.A	Aging Similarity	Qualification documentation, not previously available to FRC, which qualifies the equipment, will be on file at our engineering office.
107	Radiation Monitor General Electric 194X927G12	11.A	Documentation	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.

Enclosure 1 Page 21 of 24

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
108	SOV ASCO NP1	II.A	Documentation Similarity Aging Duration	Equipment performs its function before its exposure to the harsh environment and subsequent failure of the equipment does not degrade other safety functions or mislead the operator.
109	SOV Target Rock 75E002	II.A	Similarity Aging	Some of these values have qualification documentation not previously available to FRC, which qualifies them and is on file at our engineering office. Some of the values perform their function before their exposure to the harsh environment and subsequent failure of the value does not degrade other safety functions or mislead the operator. One value will be replaced with qualified Target Rock Model 82-U value during the 1984 Refueling Outage.
110	SOV Target Rock 75E001	II.A	Similarity Aging	FRC Item #110 has been superseded by FRC Item #109.
111	SOV Atkomatic 15840VPIMOD	I.B	Documentation	These valves will be replaced with qualified Target Rock Model (82-U) valves during the 1984 Refueling Outage.

Enclosure 1 Page 22 of 24

STATUS OF ITEMS ADDRESSED IN FRANKLIN RESEARCH CENTER TER-C5257-496

TTT

NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
112	SOV Target Rock 75E002	II.A	Similarity Aging	One valve performs its function before its exposure to the harsh environment and subsequent failure of the valve does not degrade other safety functions or mislead the operator. Two valves will be replaced with qualified Target Rock Model 82-U valves during the 1984 Refueling Outage.
113	SOV Atkomatic 15840VPIMOD	I.B	Documentation	These valves will be replaced with qualified Target Rock Model 82-U valves during the 1984 Refueling Outage.
114	SOV ASCO NP8323A36V	II.C	Aging	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
115	SOV ASCO NP8323A36V	II.C	Aging	These concerns will be addressed in the ongoing Maintenance and Surveillance Program.
116	Motor Control Center Westinghouse Type W	II.A	Documentation	This equipment has been deleted from the Marter Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore, it is not in the scope of 10CFR50.49.

Enclosure 1 Page 23 of 24

ITEM NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
117	Motor Control Center Westinghouse Type W	II.A	Documentation	The equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event and its environment is mild for this event. Therefore, it is not in the scope of 10CFR50.49.
118	Temperature Switch Fenwal 17023-6	II.A	Documentation Similarity Steam Exposure	These switches will be replaced with qualified Fenwal switches Model (01-170-230-090) during the 1984 Refueling Outage.
119	Pressure Switch Barksdale B2TM12SS	III.B		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore, it is not in the scope of 10CFR50.49.
120	Flow Transmitter General Electric GE/MAC 555	III.B		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore, it is not in the scope of 10CFR50.49.

Enclosure 1 Page 24 of 24

ITEM NO.	DESCRIPTION	CATEGORY	DEFICIENCIES	PROPOSED RESOLUTION
121	Pressure Switch Barksdale D2HM12SS	III.B		This equipment has been deleted from the Master Equipment List since this equipment is only required to function for a small break LOCA event, and its environment is mild for this event. Therefore, it is not in the scope of 10CFR50.49.
122	Pressure Transmitter General Electric GE/MAC 552	II.A	Documentation	The equipment has been deleted from the Master Equipment List because we are using other qualified equipment and it is no longer in the scope of lOCFR50.49.

Page 1 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

escription	Status	
Valve	Documentation which demonstrates that this	

Solenoid Valve Target Rock 82-U

H₂/O₂ Monitors Teledyne 225CMA-2

Solenoid Valve Asco HVA90-405-2A

Solenoid Valve Asco HPX 8211C13

Solenoid Valve Asco HBT-8300-D58F

Battery C&D KC-9

Battery Charger C&D ARR24CE50F3

Distribution Panel Mercury

Distribution Panel (VAC-B) General Electric Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

This equipment will be replaced by ASCO Model (NP-8316 A77E) valves, which are environmentally qualified, during the 1984 refueling outage.

This equipment will be replaced by ASCO Model (206-380-2F) valves, which are environmentally qualified, during the 1984 refueling outage.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

This equipment will be relocated to an area with a mild environment during the 1984 refueling outage.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Page 2 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

Description

Electric Heaters and Thermostat Chromalox D106-114426-000

Flow Switch McDonald-Miller NP-8

Temperature Switch Fenwal 17002-40

Level Transmitters Rosemount 1152's

Pressure Switch Barksdale B2T-A12-SS

Trip Cards Rosemount 510 DU's

Relays Agastat EGPB001

Trip Cards Rosemount 510 DU's

Relays Agastat ETR14B3B001

Level Transmitters Rosemount 1153's

Pressure Switches PCI Al711

Status

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

This equipment will be qualified or will be replaced by environmentally qualified equipment during the 1984 refueling outage.

This equipment will be replaced by Fenwal Model (01-170020-090) switches, which are environmentally qualified, during the 1984 refueling outage.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

This equipment will be replaced by Static-O-Ring Model (5TA-B45-NX-C1A-JJTTX6) and Model (9TA-B45-NX-C1A-JJTTX6) switches, which are environmentally qualified, during the 1984 refueling outage.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

This equipment will be replaced by Rosemount Model (710 DUs), which are environmentally qualified, during the 1984 refueling outage.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Page 3 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

Description	Status
Pressure Switches PENN	This equipment will be replaced by Static-O-Ring Model (5TA-BB45-NX-C1A-JJTTX6)
P72AA-997	switches, which are environmentally qualified, during the 1984 refueling outage.
Limit Switches Namco SL-3	This equipment will be replaced by Namco Model (EA-740-20000) switches, which are environmentally qualified, during the 1984 refueling outage.
Power Supply Elma 164C5261	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Power Supply Elma 164C5261	This equipment will be relocated to an area where the environment is within the qualification limits of the equipment during the 1984 refueling outage.
Control Panel (RHR Alt S/D) Mercury N/A	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Differential Pressure Transmitter GE/MAC 552	This equipment will be replaced by Rosemount (1153s), which are environmentally qualified, during the 1984 refueling outage.
Flow Switch Barton 289A	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Motor Operator Limitorque	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Position Transmitter Limitorque N/A	This equipment is currently being re-evaluated, this item will be deleted from the Master Equipment List or environmentally qualified.
Alternate Shutdown Control Panel (RCIC) Mercury N/A	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Manual Transfer Switch (D.C.) Westinghouse MTSS	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Page 4 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

Description	Status
Local Starter (V1)-16) Westinghouse Type W	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Local Indicating Lights	A design change is planned during the 1984 refueling outage which will prevent failure of the fuel pool cooling pumps' local indicating lights from adversely affecting FP cooling pump operation. These lights will be removed from the Master List once the design change is implemented.
Local Control Switch - -	This switch will be replaced by an Electroswitch Series 20 PDG switch, which is environmentally qualified, during the 1984 refueling outage.
Level Switch Jobell Model B	This equipment will be replaced by a FCI Model (8-66) level sensor, which is environmentally qualified, during the 1984 refueling outage.
Level Switch Jobell Model K	This equipment will be replaced by a FCI Model (8-66) level sensor, which is environmentally qualified, during the 1984 refueling outage.
Pump Motor Westinghouse Lifeline T 460V, 125HP, Frame 405T	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Pressure Switch Ashcroft 6480	This equipment will be replaced by Static-O Ring Model (12TA-B45-NX-C1A-TTJJX6) switches, which are environmentally qualified, during the 1984 refueling outage.
Terminal Block Cinch Jones	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Terminal Block Buchanan 0222	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Control Cable Rockbestos Firewall III	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Page 5 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

	Status
Co-Axial Cable Endevco	Documentation which demonstrates that this equipment is environmentally qualified will be
3075M6	on file in our engineering office.
SIS Wire Rockbestos	Documentation which demonstrates that this equipment is environmentally qualified will be
Filewall III	on file in our engineering office.
Power Cable Okonite	This equipment will be replaced during the 1984 outage with Rockbestos Rocktherm 5 kV
Erk/hypaton	power cable which is qualified.
Instrument Cable Rockbestos Firewall III	Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.
Cable Splice Kit	Documentation which demonstrates that this
Raychem	equipment is environmentally qualified will be on file in our engineering office.
Co-Axial Cable	Documentation which demonstrates that this
Firewall III	on file in our engineering office.
Fuseholder	Documentation which demonstrates that this
175A9132P008	on file in our engineering office.
SIS Wire	Documentation which demonstrates that this
General Electric	equipment is environmentally qualified will be on file in our engineering office.
Fuse	Documentation which demonstrates that this
General Electric 167A2452P003	equipment is environmentally qualified will be on file in our engineering office.
Thermocouple Wire	Documentation which demonstrates that this
Rockbestos Firewall III	equipment is environmentally qualified will be on file in our engineering office.
	Documentation which demonstrates that this

Page 6 of 6

ADDITIONAL ITEMS ADDED SINCE THE FRC TECHNICAL EVALUATION REPORT

Description

Co-Axial Cable Lewis RG-95 high temperature

Co-Axial Cable Lewis RG-95

Connector Neutron Monitoring

Control Rod Position Indication General Electric

Signal Cable 600V Vulkene/Neoprene

Signal Cable 600V PEPS Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Status

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.

Documentation which demonstrates that this equipment is environmentally qualified will be on file in our engineering office.