

VERMONT YANKEE NUCLEAR
POWER CORPORATION

ENVIRONMENTAL QUALIFICATION MASTER
EQUIPMENT LIST

Revision - 2

August 10, 1984

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

PAGE 1

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
CONTAINMENT ATMOSPHERIC DILUTION SYSTEM					
FSO-109-75A-1	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-75A-2	TARGET ROCK	82-U002	QUALIFIED		
FSO-109-75A-3	TARGET ROCK	75E002	QUALIFIED		
FSO-109-75A-4	TARGET ROCK	75E002	QUALIFIED		
FSO-109-75B-1	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-72B-2	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-75C-1	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-75C-2	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-75D-1	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-75D-2	TARGET ROCK	82-U001	QUALIFIED		
FSO-109-76A	TARGET ROCK	82-U001	QUALIFIED		CATEGORY D
FSO-109-76B	TARGET ROCK	82-U001	QUALIFIED		
NG-11A	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
NG-11B	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
NG-12A	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
NG-12B	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
NG-13A	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
NG-13B	TARGET ROCK	75E001	QUALIFIED		CATEGORY D
SAH-VG-5A	TELEDYNE	225CMA-2	QUALIFIED		
SAH-VG-5B	TELEDYNE	225CMA-2	QUALIFIED		
VG-9A	TARGET ROCK	75E002	QUALIFIED		CATEGORY D
VG-9B	TARGET ROCK	75E002	QUALIFIED		CATEGORY D
VG-22A	LIMITORQUE	SMB-000	QUALIFIED		CATEGORY D
VG-22B	LIMITORQUE	SMB-000	QUALIFIED		CATEGORY D
VG-23	TARGET ROCK	75E002	QUALIFIED		
VG-24	TARGET ROCK	75E002	QUALIFIED		
VG-25	TARGET ROCK	75E002	QUALIFIED		
VG-26	TARGET ROCK	75E002	QUALIFIED		CATEGORY D
VG-33	TARGET ROCK	75E002	QUALIFIED		
VG-34	TARGET ROCK	75E002	QUALIFIED		
EMERGENCY POWER SYSTEM					
A-ECCS BATT	C+D	KC-9	QUALIFIED		
A-ECCS DP	MERCURY		QUALIFIED		
B-ECCS BATT	C+D	KC-9	QUALIFIED		
B-ECCS DP	MERCURY		QUALIFIED		
DC-1A	WESTINGHOUSE	TYPE W	QUALIFIED		CATEGORY D
DC-1B	WESTINGHOUSE	TYPE W	QUALIFIED		CATEGORY D
DC-2A	WESTINGHOUSE	TYPE W	QUALIFIED		
DC-2B	WESTINGHOUSE	TYPE W	QUALIFIED		CATEGORY D

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EMERGENCY POWER SYSTEM (CONTINUED)					
MCC-8B	WESTINGHOUSE	TYPE W	QUALIFIED		
MCC-8E	WESTINGHOUSE	TYPE W	QUALIFIED		
MCC-9B	WESTINGHOUSE	TYPE W	QUALIFIED		
MCC-9D	WESTINGHOUSE	TYPE W	QUALIFIED		
MCC-89A	ITE	5600	QUALIFIED		
MCC-89B	ITE	5600	QUALIFIED		
PP-89	WESTINGHOUSE		QUALIFIED		PART OF MCC-9D
UPS-1A	EXIDE		QUALIFIED		CATEGORY D
UPS-1B	EXIDE		QUALIFIED		CATEGORY D
VAC-B	GEN ELECTRIC	TYPE NAB	QUALIFIED		
HEATING & VENTILATION SYSTEM					
RRU-5	RELIANCE ELEC		QUALIFIED		
RRU-6	RELIANCE ELEC		QUALIFIED		
RRU-7	RELIANCE ELEC		QUALIFIED		
RRU-8	RELIANCE ELEC		QUALIFIED		
STANDBY GAS TREATMENT SYSTEM					
EUH-2	CHROMALOX 9KW	106-114426-001	QUALIFIED		
EUH-4	CHROMALOX 9KW	106-114426-001	QUALIFIED		
FS-1-125-1A	PEECO	NPS	QUALIFIED		
FS-1-125-1B	PEECO	NPS	QUALIFIED		
LS-SB-1A	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-1B	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-2A	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-2B	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-3A	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-3B	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-4A	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-4B	MICROSWITCH	OPD-AR-6809	QUALIFIED		
LS-SB-5	MICROSWITCH	OPD-AR-6809	QUALIFIED		
REF-2A	RELIANCE ELEC	215T,TYPE B	QUALIFIED		
REF-2B	RELIANCE ELEC	215T,TYPE B	QUALIFIED		
SB-1A	ASCO	206-380-7F	QUALIFIED		
SB-1B	ASCO	206-380-7F	QUALIFIED		
SB-2A	ASCO	206-380-7F	QUALIFIED		
SB-2B	ASCO	206-380-7F	QUALIFIED		
SB-3A	ASCO	206-380-7F	QUALIFIED		
SB-3B	ASCO	206-380-7F	QUALIFIED		

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STANDBY GAS TREATMENT SYSTEM (CONTINUED)					
SB-4A	ASCO	206-380-7F	QUALIFIED		
SB-4B	ASCO	206-380-7F	QUALIFIED		
SB-5	ASCO	206-380-7F	QUALIFIED		
TSH-1-125-15A	CHROMALOX	5-17108	QUALIFIED		PART OF ELECTRIC HEATER(EUH-2)
TSH-1-125-15B	CHROMALOX	5-17108	QUALIFIED		PART OF ELECTRIC HEATER(EUH-4)
NUCLEAR BOILER SYSTEM					
AOV-2-80A	ASCO	NP8323A36V	QUALIFIED		
AOV-2-80B	ASCO	NP8323A36V	QUALIFIED		
AOV-2-80C	ASCO	NP8323A36V	QUALIFIED		
AOV-2-80D	ASCO	NP8323A36V	QUALIFIED		
AOV-2-86A	ASCO	NP8323A36V	QUALIFIED		
AOV-2-86B	ASCO	NP8323A36V	QUALIFIED		
AOV-2-86C	ASCO	NP8323A36V	QUALIFIED		
AOV-2-86D	ASCO	NP8323A36V	QUALIFIED		
LS-AOV-2-80A	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-80B	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-80C	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-80D	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-86A	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-86B	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-86C	NAMCO	EA-740	QUALIFIED		
LS-AOV-2-86D	NAMCO	EA-740	QUALIFIED		
FCV-2-39	ASCO	206-823-3	QUALIFIED		
FCV-2-40	ASCO	80173	QUALIFIED		CATEGORY D
FT-2-110A	GE/MAC	555111BDAAA3	QUALIFIED		CATEGORY D
FT-2-110B	GE/MAC	555111BDAAA3	QUALIFIED		CATEGORY D
FT-2-110C	GE/MAC	555111BDAAA3	QUALIFIED		CATEGORY D
FT-2-110D	GE/MAC	555111BDAAA3	QUALIFIED		CATEGORY D
MOV-2-53A	LIMITORQUE	SMB-2	QUALIFIED		
MOV-2-53B	LIMITORQUE	SMB-2	QUALIFIED		
MOV-2-54A	LIMITORQUE	SMB-000	QUALIFIED		
MOV-2-54B	LIMITORQUE	SMB-000	QUALIFIED		
MOV-2-74	LIMITORQUE	SMB-000	QUALIFIED		
MOV-2-77	LIMITORQUE	SMB-000	QUALIFIED		CATEGORY D
PS-2-71-1A	SOR	6TA-B3-NX- C1A-JTXX6	QUALIFIED		
PS-2-71-1B	SOR	6TA-B3-NX- C1A-JTXX6	QUALIFIED		

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
NUCLEAR BOILER SYSTEM (CONTINUED)					
PS-2-71-1C	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-1D	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-2A	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-2B	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-2C	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-2D	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-3A	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-3B	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-3C	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-71-3D	SOR	6TA-B3-NX- C1A-JJTX6	QUALIFIED		
PS-2-128A	SOR	5NN-KK3-C1A-X2	QUALIFIED		CATEGORY D
PS-2-128B	SOR	5NN-KK3-C1A-X2	QUALIFIED		CATEGORY D
PS-2-134A	SOR	9TA-B45-NX- C1A-JJTX6	QUALIFIED		
PS-2-134B	SOR	9TA-B45-NX- C1A-JJTX6	QUALIFIED		
PS-2-134C	SOR	9TA-B45-NX- C1A-JJTX6	QUALIFIED		
PS-2-134D	SOR	9TA-B45-NX- C1A-JJTX6	QUALIFIED		
RV-2-71A	ASCO	206-381-6F	QUALIFIED		
RV-2-71B	ASCO	206-381-6F	QUALIFIED		
RV-2-71C	ASCO	206-381-6F	QUALIFIED		
RV-2-71D	ASCO	206-381-6F	QUALIFIED		
SRV MONITOR	GEN. ELECTRIC	21984061	QUALIFIED		
PNL-112D19430005					
TS-2-121A	FENWAL	010-170020-090	QUALIFIED		
TS-2-121B	FENWAL	010-170020-090	QUALIFIED		
TS-2-121C	FENWAL	010-170020-090	QUALIFIED		

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
NUCLEAR BOILER SYSTEM (CONTINUED)					
TS-2-121D	FENWAL	010-170020-090	QUALIFIED		
TS-2-122A	FENWAL	010-170020-090	QUALIFIED		
TS-2-122B	FENWAL	010-170020-090	QUALIFIED		
TS-2-122C	FENWAL	010-170020-090	QUALIFIED		
TS-2-122D	FENWAL	010-170020-090	QUALIFIED		
TS-2-123A	FENWAL	010-170020-090	QUALIFIED		
TS-2-123B	FENWAL	010-170020-090	QUALIFIED		
TS-2-123C	FENWAL	010-170020-090	QUALIFIED		
TS-2-123D	FENWAL	010-170020-090	QUALIFIED		
TS-2-124A	FENWAL	010-170020-090	QUALIFIED		
TS-2-124B	FENWAL	010-170020-090	QUALIFIED		
TS-2-124C	FENWAL	010-170020-090	QUALIFIED		
TS-2-124D	FENWAL	010-170020-090	QUALIFIED		
ZE-2-1A	ENDEVCO	2273AM20	QUALIFIED		
ZE-2-1B	ENDEVCO	2273AM20	QUALIFIED		
ZT-2-1A	TEC	504E	QUALIFIED		
ZT-2-1B	TEC	504E	QUALIFIED		
NUCLEAR BOILER VESSEL INSTRUMENTATION SYSTEM					
LT-2-3-57A	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-57B	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-58A	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-58B	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-72A	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-72B	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-72C	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-72D	ROSEMOUNT	1152DP4	QUALIFIED		
LT-2-3-73A	ROSEMOUNT	1153DB	QUALIFIED		
LT-2-3-73B	ROSEMOUNT	1153DB	QUALIFIED		
PT-2-3-52C	ROSEMOUNT	1153GB9	QUALIFIED		
PT-2-3-52D	ROSEMOUNT	1153GB9	QUALIFIED		
PT-2-3-55A	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-55B	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-55C	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-55D	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-56A	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-56B	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-56C	ROSEMOUNT	1152GP9	QUALIFIED		
PT-2-3-56D	ROSEMOUNT	1152GP9	QUALIFIED		

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
NUCLEAR BOILER VESSEL INSTRUMENTATION SYSTEM (CONTINUED)					
2-3-52C(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-52C(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-52D(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-52D(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-55A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-55A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-55B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-55B(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-55C(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-55C(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-55D(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-55D(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-56A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56A(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-56A(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-56B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56B(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56B(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-56B(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-56C(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56C(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56C(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-56C(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-56D(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56D(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-56D(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-56D(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-57A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57A(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57A(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-57A(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-57A(X2)	AGASTAT	EGPB001	QUALIFIED		
2-3-57B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57B(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57B(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-57B(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-57B(X1)	AGASTAT	EGPB001	QUALIFIED		

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
NUCLEAR BOILER VESSEL INSTRUMENTATION SYSTEM (CONTINUED)					
2-3-57B(X2)	AGASTAT	EGPB001	QUALIFIED		
2-3-58A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58A(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58A(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-58A(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-58A(X2)	AGASTAT	EGPB001	QUALIFIED		
2-3-58B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58B(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58B(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-58B(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-58B(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-58B(X2)	AGASTAT	EGPB001	QUALIFIED		
2-3-72A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(S3)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(S4)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(S5)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-72A(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-72A(X2)	AGASTAT	ETR1483B001	QUALIFIED		
2-3-72A(X3)	AGASTAT	EGPB001	QUALIFIED		
2-3-72A(X4)	AGASTAT	EGPB001	QUALIFIED		
2-3-72A(X5)	AGASTAT	EGPB001	QUALIFIED		
2-3-72B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(S3)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(S4)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(S5)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72B(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-72B(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-72B(X2)	AGASTAT	ETR1483B001	QUALIFIED		
2-3-72B(X3)	AGASTAT	EGPB001	QUALIFIED		
2-3-72B(X4)	AGASTAT	EGPB001	QUALIFIED		
2-3-72B(X5)	AGASTAT	EGPB001	QUALIFIED		
2-3-72C(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72C(S1)	ROSEMOUNT	710DU	QUALIFIED		

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NUCLEAR BOILER VESSEL INSTRUMENTATION SYSTEM (CONTINUED)					
2-3-72C(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72C(S3)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72C(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-72C(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-72C(X2)	AGASTAT	ETR14B3B001	QUALIFIED		
2-3-72C(X3)	AGASTAT	EGPB001	QUALIFIED		
2-3-72D(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72D(S1)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72D(S2)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72D(S3)	ROSEMOUNT	710DU	QUALIFIED		
2-3-72D(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-72D(X1)	AGASTAT	EGPB001	QUALIFIED		
2-3-72D(X2)	AGASTAT	ETR14B3B001	QUALIFIED		
2-3-72D(X3)	AGASTAT	EGPB001	QUALIFIED		
2-3-73A(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-73A(X)	AGASTAT	EGPB001	QUALIFIED		
2-3-73B(M)	ROSEMOUNT	710DU	QUALIFIED		
2-3-73B(X)	AGASTAT	EGPB001	QUALIFIED		
CONTROL ROD DRIVE SYSTEM					
LT-3-231A	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231B	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231C	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231D	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231E	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231F	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231G	ROSEMOUNT	1153DB4PG	QUALIFIED		
LT-3-231H	ROSEMOUNT	1153DB4PG	QUALIFIED		
SE-3-ARI-A	ASCO	NP8316E36E	QUALIFIED		
SE-3-ARI-B	ASCO	NP8316E36E	QUALIFIED		
SE-3-31A	ASCO	HVA90-405-2A	QUALIFIED		
SE-3-31B	ASCO	HVA90-405-2A	QUALIFIED		
S0-3-13-117	ASCO	HVA90-405-2A	QUALIFIED		SCRAM SOLENOIDS-89 TOTAL
S0-3-13-118	ASCO	HVA90-405-2A	QUALIFIED		SCRAM SOLENOIDS-89 TOTAL
25-56A-A1	RIS	AN1178	QUALIFIED		CATEGORY D
25-56A-B1	RIS	AN1178	QUALIFIED		CATEGORY D
25-56B-A2	RIS	AN1178	QUALIFIED		CATEGORY D
25-56B-B2	RIS	AN1178	QUALIFIED		CATEGORY D
3-231A(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
CONTROL ROD DRIVE SYSTEM (CONTINUED)					
3-231A(S1)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231A(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231A(X1)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231B(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231B(S1)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231B(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231B(X1)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231C(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231C(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231D(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231D(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231E(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231E(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231F(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231F(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231G(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231G(S1)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231G(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231G(X1)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231H(M)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231H(S1)	ROSEMOUNT	510DU	QUALIFIED		CATEGORY D
3-231H(X)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
3-231H(X1)	AGASTAT	EGPB002	QUALIFIED		CATEGORY D
CRDM POS IND	GEN ELECTRIC		JCO-29	NO DOC/QDR	(NOTE 3)
REACTOR PROTECTION SYSTEM					
PNL5-7A	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7B	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7C	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7D	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7E	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7F	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7G	GEN ELECTRIC		QUALIFIED		CATEGORY D
PNL5-7H	GEN ELECTRIC		QUALIFIED		CATEGORY D
PS-5-14A	SOR	5TA-B45-NX- C1A-JTXX6	QUALIFIED		
PS-5-14B	SOR	5TA-B45-NX- C1A-JTXX6	QUALIFIED		
PS-5-14C	SOR	5TA-B45-NX-	QUALIFIED		

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
REACTOR PROTECTION SYSTEM (CONTINUED)					
PS-5-14D	SOR	C1A-JTXX6 5TA-B45-NX-	QUALIFIED		
PS-37	SOR	C1A-JTXX6 5N6-BB45-NX-	QUALIFIED		
PS-38	SOR	C1A-JTXX7 5N6-BB45-NX-	QUALIFIED		
PS-39	SOR	C1A-JTXX7 5N6-BB45-NX-	QUALIFIED		
PS-40	SOR	C1A-JTXX7 5N6-BB45-NX-	QUALIFIED		
PT-5-12A	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-5-12B	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-5-12C	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-5-12D	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
SVOS-1	NAMCO	EA-74080100	QUALIFIED		
SVOS-2	NAMCO	EA-74080100	QUALIFIED		
SVOS-3	NAMCO	EA-74080100	QUALIFIED		
SVOS-4	NAMCO	EA-74080100	QUALIFIED		
5-12A(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
5-12A(X)	AGASTAT	EGPB001	QUALIFIED		
5-12B(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
5-12B(X)	AGASTAT	EGPB001	QUALIFIED		
5-12C(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
5-12C(X)	AGASTAT	EGPB001	QUALIFIED		
5-12D(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
5-12D(X)	AGASTAT	EGPB001	QUALIFIED		
25-5A-(A1)	ELMA	164C5261P002	QUALIFIED		
25-5A-(B1)	ELMA	164C5261P002	QUALIFIED		
25-6A-(A2)	ELMA	164C5261P002	QUALIFIED		
25-6A-(B2)	ELMA	164C5261P002	QUALIFIED		

NEUTRON MONITORING SYSTEM

TIP SHEAR VALVES			QUALIFIED		CATEGORY D
TIP BALL VALVES			QUALIFIED		CATEGORY D
LPRMS	GEN ELECTRIC	129B3620G026	JCO-39	NO DOC/QDR	(NOTE 3)
TIP DR			QUALIFIED		CATEGORY D

RESIDUAL HEAT REMOVAL SYSTEM

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
RESIDUAL HEAT REMOVAL SYSTEM (CONTINUED)					
CP-82-2	MERCURY		QUALIFIED		
DPT-10-91A	ROSEMOUNT	1153DB7PA	QUALIFIED		
DPT-10-91B	ROSEMOUNT	1153DB7PA	QUALIFIED		
FS-10-148A	BARTON	289A-2553	QUALIFIED		
FS-10-148B	BARTON	289A-2554	QUALIFIED		
MOV-10-13A	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-13B	LIMITORQUE	SMB-2	JCO-68	DOC PROBLEMS	(NOTE 3)
MOV-10-13C	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-13D	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-15A	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-15B	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-15C	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-15D	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-16A	LIMITORQUE	SMB	QUALIFIED		
MOV-10-16B	LIMITORQUE	SMB	QUALIFIED		
MOV-10-17	LIMITORQUE	SMB-4	QUALIFIED		CATEGORY D
MOV-10-18	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-25A	LIMITORQUE	SB-3	QUALIFIED		
MOV-10-25B	LIMITORQUE	SB-3	QUALIFIED		
MOV-10-26A	LIMITORQUE	SMB-00	QUALIFIED		
MOV-10-26B	LIMITORQUE	SMB-00	QUALIFIED		
MOV-10-27A	LIMITORQUE	SMB-4T	QUALIFIED		
MOV-10-27B	LIMITORQUE	SMB-4T	QUALIFIED		
MOV-10-31A	LIMITORQUE	SMB-0	QUALIFIED		
MOV-10-31B	LIMITORQUE	SMB-0	QUALIFIED		
MOV-10-32	LIMITORQUE	SMB-00	JCO-43	PEND LICENSING ACTION	(NOTE 4)
MOV-10-33	LIMITORQUE	SMB-001	QUALIFIED		CATEGORY D
MOV-10-34A	LIMITORQUE	SMB-002	QUALIFIED		
MOV-10-34B	LIMITORQUE	SMB-002	QUALIFIED		
MOV-10-38A	LIMITORQUE	SMB-00	QUALIFIED		
MOV-10-38B	LIMITORQUE	SMB-00	QUALIFIED		
MOV-10-39A	LIMITORQUE	SMB-0	JCO-69	DOC PROBLEMS	(NOTE 3)
MOV-10-39B	LIMITORQUE	SMB-0	QUALIFIED		
MOV-10-57	LIMITORQUE	SMB-00	QUALIFIED		CATEGORY D
MOV-10-65A	LIMITORQUE	SMB-4	QUALIFIED		
MOV-10-65B	LIMITORQUE	SMB-4	QUALIFIED		
MOV-10-66	LIMITORQUE	SMB-000	QUALIFIED		CATEGORY D
MOV-10-89A	LIMITORQUE	SMB-2	QUALIFIED		
MOV-10-89B	LIMITORQUE	SMB-2	QUALIFIED		

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
RESIDUAL HEAT REMOVAL SYSTEM (CONTINUED)					
P-8-1A	WESTINGHOUSE	CSP-USS-PP	QUALIFIED		
P-8-1B	WESTINGHOUSE	CSP-USS-PP	QUALIFIED		
P-8-1C	WESTINGHOUSE	CSP-USS-PP	QUALIFIED		
P-8-1D	WESTINGHOUSE	CSP-USS-PP	QUALIFIED		
P-10-1A	GEN ELECTRIC	BEJ-212003	QUALIFIED		
P-10-1B	GEN ELECTRIC	BEJ-219002	QUALIFIED		
P-10-1C	GEN ELECTRIC	BEJ-219003	QUALIFIED		
P-10-1D	GEN ELECTRIC	BEJ-205002	QUALIFIED		
POT-10-89A	HELIPOT	5311	QUALIFIED		
POT-10-89B	HELIPOT	5311	QUALIFIED		
PS-10-105A	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105B	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105C	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105D	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105E	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105F	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105G	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PS-10-105H	SOR	5N-AA3-X4	QUALIFIED		CATEGORY D
PT-10-101A	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-10-101B	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-10-101C	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
PT-10-101D	ROSEMOUNT	1152GP4N22PB	QUALIFIED		
10-101A(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
10-101A(S1)	ROSEMOUNT	710DUOTS	QUALIFIED		
10-101A(X)	AGASTAT	EGPB001	QUALIFIED		
10-101A(X1)	AGASTAT	EGPB001	QUALIFIED		
10-101B(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
10-101B(S1)	ROSEMOUNT	710DUOTS	QUALIFIED		
10-101B(X)	AGASTAT	EGPB001	QUALIFIED		
10-101B(X1)	AGASTAT	EGPB001	QUALIFIED		
10-101C(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
10-101C(S1)	ROSEMOUNT	710DUOTS	QUALIFIED		
10-101C(X)	AGASTAT	EGPB001	QUALIFIED		
10-101C(X1)	AGASTAT	EGPB001	QUALIFIED		
10-101D(M)	ROSEMOUNT	710DUOTT36005	QUALIFIED		
10-101D(S1)	ROSEMOUNT	710DUOTS	QUALIFIED		
10-101D(X)	AGASTAT	EGPB001	QUALIFIED		
10-101D(X1)	AGASTAT	EGPB001	QUALIFIED		

REACTOR WATER CLEANUP SYSTEM

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
REACTOR WATER CLEANUP SYSTEM (CONTINUED)					
FT-12-1A	ROSEMOUNT	1153DB4	QUALIFIED		CATEGORY D
FT-12-1B	ROSEMOUNT	1153DB4	QUALIFIED		CATEGORY D
MOV-12-15	LIMITORQUE	SMB-000	QUALIFIED		
MOV-12-18	LIMITORQUE	SMB-000	QUALIFIED		
MOV-12-68	LIMITORQUE	SMB-00	QUALIFIED		CATEGORY D
TS-12-101A	FENWAL	01-170230-090	QUALIFIED		
TS-12-101B	FENWAL	01-170230-090	QUALIFIED		
TS-12-102A	FENWAL	01-170230-090	QUALIFIED		
TS-12-102B	FENWAL	01-170230-090	QUALIFIED		
TS-12-103A	FENWAL	01-170230-090	QUALIFIED		
TS-12-103B	FENWAL	01-170230-090	QUALIFIED		
TS-12-106A	FENWAL	01-170230-090	QUALIFIED		
TS-12-106B	FENWAL	01-170230-090	QUALIFIED		
TS-12-107A	FENWAL	01-170230-090	QUALIFIED		
TS-12-107B	FENWAL	01-170230-090	QUALIFIED		
TS-12-108A	FENWAL	01-170230-090	QUALIFIED		
TS-12-108B	FENWAL	01-170230-090	QUALIFIED		
TS-12-109A	FENWAL	01-170230-090	QUALIFIED		
TS-12-109B	FENWAL	01-170230-090	QUALIFIED		
TS-12-110A	FENWAL	01-170230-090	QUALIFIED		
TS-12-110B	FENWAL	01-170230-090	QUALIFIED		
TS-12-111A	FENWAL	01-170230-090	QUALIFIED		
TS-12-111B	FENWAL	01-170230-090	QUALIFIED		
TS-12-112A	FENWAL	01-170230-090	QUALIFIED		
TS-12-112B	FENWAL	01-170230-090	QUALIFIED		
12-1A(M)	ROSEMOUNT	710DUOTT16025	QUALIFIED		
12-1A(X)	AGASTAT	EGPB001	QUALIFIED		CATEGORY D
12-1B(M)	ROSEMOUNT	710DUOTT16025	QUALIFIED		
12-1B(X)	AGASTAT	EGPB001	QUALIFIED		CATEGORY D
12-101A(X7)	AGASTAT	EGPB002	QUALIFIED		
12-101B(X7)	AGASTAT	EGPB002	QUALIFIED		

REACTOR CORE ISOLATION COOLING SYSTEM

CP-82-3	MERCURY		QUALIFIED		
MOV-13-15	LIMITORQUE	SMB-000	JCO-46	DOC PROBLEMS	(NOTE 3)
MOV-13-16	LIMITORQUE	SMB-000	QUALIFIED		
MTS-13-2	WESTINGHOUSE	MTSSM20225EK	QUALIFIED		
TS-13-79A	FENWAL	01-170230-090	QUALIFIED		
TS-13-79B	FENWAL	01-170230-090	QUALIFIED		

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
REACTOR CORE ISOLATION COOLING SYSTEM (CONTINUED)					
TS-13-79C	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-79D	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-80A	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-80B	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-80C	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-80D	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-81A	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-81B	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-81C	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-81D	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-82A	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-82B	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-82C	FENWAL	!01-170230-090	! QUALIFIED	!	!
TS-13-82D	FENWAL	!01-170230-090	! QUALIFIED	!	!
V-13-16	WESTINGHOUSE	! TYPE W	! QUALIFIED	!	! LOCAL STARTER
CORE SPRAY SYSTEM					
FS-14-45A	BARTON	! 289A-2456	! QUALIFIED	!	!
FS-14-45B	BARTON	! 289A-8122	! QUALIFIED	!	!
MOV-14-5A	LIMITORQUE	! SMB-000	! QUALIFIED	!	!
MOV-14-5B	LIMITORQUE	! SMB-000	! QUALIFIED	!	!
MOV-14-7A	LIMITORQUE	! SMB-00	! QUALIFIED	!	!
MOV-14-7B	LIMITORQUE	! SMB-00	! QUALIFIED	!	!
MOV-14-11A	LIMITORQUE	! SMB-2	! QUALIFIED	!	!
MOV-14-11B	LIMITORQUE	! SMB-2	! QUALIFIED	!	!
MOV-14-12A	LIMITORQUE	! SMB-2	! QUALIFIED	!	!
MOV-14-12B	LIMITORQUE	! SMB-2	! QUALIFIED	!	!
MOV-14-26A	LIMITORQUE	! SMB-1	! QUALIFIED	!	! CATEGORY D
MOV-14-26B	LIMITORQUE	! SMB-1	! QUALIFIED	!	! CATEGORY D
P-46-1A	GEN ELECTRIC	! FEJ604010	! QUALIFIED	!	!
P-46-1B	GEN ELECTRIC	! FEJ604011	! QUALIFIED	!	!
PS-14-44A	SOR	! 5N-AA3	! QUALIFIED	!	! CATEGORY D
PS-14-44B	SOR	! 5N-AA3	! QUALIFIED	!	! CATEGORY D
PS-14-44C	SOR	! 5N-AA3	! QUALIFIED	!	! CATEGORY D
PS-14-44D	SOR	! 5N-AA3	! QUALIFIED	!	! CATEGORY D
PRIMARY CONTAINMENT ATMOSPHERIC CONTROL SYSTEM					
DPS-16-19-32A	BARTON	! 288A-6648	! QUALIFIED	!	!
DPS-16-19-32B	BARTON	! 288A-6649	! QUALIFIED	!	!

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
PRIMARY CONTAINMENT ATMOSPHERIC CONTROL SYSTEM (CONTINUED)					
LT-16-19-10A	ROSEMOUNT	1153DB5	QUALIFIED		
LT-16-19-10B	ROSEMOUNT	1153DB5	QUALIFIED		
PT-16-19-29A	ROSEMOUNT	1153AB7	QUALIFIED		
PT-16-19-29B	ROSEMOUNT	1153AB7	QUALIFIED		
RD-16-19-1A	VICTOREEN	877	QUALIFIED		
RD-16-19-1B	VICTOREEN	877	QUALIFIED		
SB-16-19-6	ASCO	206-380-7F	QUALIFIED		CATEGORY D
SB-16-19-6A	ASCO	206-380-7F	QUALIFIED		CATEGORY D
SB-16-19-6B	ASCO	206-380-7F	QUALIFIED		CATEGORY D
SB-16-19-7	ASCO	206-380-7F	QUALIFIED		CATEGORY D
SB-16-19-7A	ASCO	NP831654E	QUALIFIED		CATEGORY D
SB-16-19-7B	ASCO	NP831654E	QUALIFIED		CATEGORY D
SB-16-19-8	ASCO	NP831654E	QUALIFIED		CATEGORY D
SB-16-19-9	ASCO	NP831654E	QUALIFIED		CATEGORY D
SB-16-19-10	ASCO	NP831654E	QUALIFIED		CATEGORY D
SB-16-19-11A	ASCO	NP831654E	QUALIFIED		
LS-SB-16-19-11A	MICROSWITCH	EXD-AR7001	QUALIFIED		
SB-16-19-11B	ASCO	NP831654E	QUALIFIED		
LS-SB-16-19-11B	MICROSWITCH	EXD-AR6809	QUALIFIED		
SB-16-19-23	ASCO	NP8321A6	QUALIFIED		CATEGORY D
TE-1-149-1	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-2	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-3	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-4	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-5	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-6	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-7	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-8	CONAX	7952-10000-04	QUALIFIED		
TE-1-149-9	CONAX	7952-10000-03	QUALIFIED		
TE-1-149-10	CONAX	7952-10000-03	QUALIFIED		
TE-1-149-11	CONAX	7952-10000-03	QUALIFIED		
TE-1-149-12	CONAX	7952-10000-03	QUALIFIED		
TE-16-19-30	CONAX	7952-10000-01	QUALIFIED		
TE-16-19-33A	CONAX	7952-10000-02	QUALIFIED		
TE-16-19-33C	CONAX	7952-10000-02	QUALIFIED		
TE-16-19-34	CONAX	7952-10000-01	QUALIFIED		
V16-20-20	TARGET ROCK	82-U-001	QUALIFIED		CATEGORY D
V16-20-22A	TARGET ROCK	82-U-001	QUALIFIED		CATEGORY D
V16-20-22B	TARGET ROCK	82-U-001	QUALIFIED		CATEGORY D

RADIATION MONITORING SYSTEM

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/RESOLUTION	COMMENTS
RADIATION MONITORING SYSTEM (CONTINUED)					
RM-17-430A	GEN ELECTRIC	194X927G12	QUALIFIED		CATEGORY D
RM-17-430B	GEN ELECTRIC	194X927G12	QUALIFIED		CATEGORY D
RM-17-431A	GEN ELECTRIC	194X927G13	QUALIFIED		CATEGORY D
RM-17-431B	GEN ELECTRIC	194X927G13	QUALIFIED		CATEGORY D
FUEL POOL COOLING SYSTEM					
LD-19-60A	FCI	8-66 MPS	QUALIFIED		
LD-19-60B	FCI	8-66 MPS	QUALIFIED		
P-9-1A	WESTINGHOUSE	40HP-286TS	QUALIFIED		
P-9-1B	WESTINGHOUSE	40HP-286TS	QUALIFIED		
PS-19-68A	SOR	12TA-B45-NX- C1A-JTXX6	QUALIFIED		
PS-19-68B	SOR	12TA-B45-NX- C1A-JTXX6	QUALIFIED		
SW-9-1A	ELECTROSWITCH	SERIES 20P	QUALIFIED		
SW-9-1B	ELECTROSWITCH	SERIES 20P	QUALIFIED		
RADWASTE SYSTEM					
ADV-20-82	ASCO	NP8316A74E	QUALIFIED		CATEGORY D
ADV-20-83	ASCO	NP8316A74E	QUALIFIED		CATEGORY D
ADV-20-94	ASCO	NP8316A74E	QUALIFIED		CATEGORY D
ADV-20-95	ASCO	NP8316A74E	QUALIFIED		CATEGORY D
HIGH PRESSURE COOLANT INJECTION SYSTEM					
MOV-23-15	LIMITORQUE	SMB-0	QUALIFIED		
MOV-23-16	LIMITORQUE	SMB-1	QUALIFIED		
TS-23-101A	FENWAL	01-170230-090	QUALIFIED		
TS-23-101B	FENWAL	01-170230-090	QUALIFIED		
TS-23-101C	FENWAL	01-170230-090	QUALIFIED		
TS-23-101D	FENWAL	01-170230-090	QUALIFIED		
TS-23-102A	FENWAL	01-170230-090	QUALIFIED		
TS-23-102B	FENWAL	01-170230-090	QUALIFIED		
TS-23-102C	FENWAL	01-170230-090	QUALIFIED		
TS-23-102D	FENWAL	01-170230-090	QUALIFIED		
TS-23-103A	FENWAL	01-170230-090	QUALIFIED		
TS-23-103B	FENWAL	01-170230-090	QUALIFIED		
TS-23-103C	FENWAL	01-170230-090	QUALIFIED		
TS-23-103D	FENWAL	01-170230-090	QUALIFIED		
TS-23-104A	FENWAL	01-170230-090	QUALIFIED		

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/RESOLUTION	COMMENTS
HIGH PRESSURE COOLANT INJECTION SYSTEM (CONTINUED)					
TS-23-104B	FENWAL	01-170230-090	QUALIFIED		
TS-23-104C	FENWAL	01-170230-090	QUALIFIED		
TS-23-104D	FENWAL	01-170230-090	QUALIFIED		
V-23-16	WESTINGHOUSE	TYPE W	QUALIFIED		LOCAL STARTER
SERVICE AND COOLING WATER SYSTEM					
LS-104-69A	ASCO	SC21BR/TA20A32R	QUALIFIED		
LS-104-69B	ASCO	SC21BR/TA20A32R	QUALIFIED		
MOV-70-19A	LIMITORQUE	SMB-1	QUALIFIED		
MOV-70-19B	LIMITORQUE	SMB-1	QUALIFIED		
MOV-70-20	LIMITORQUE	SMB-1	QUALIFIED		
P-59-1A	WESTINGHOUSE	LIFELINE T	QUALIFIED		
P-59-1B	WESTINGHOUSE	LIFELINE T	QUALIFIED		
PS-104-57-1	ASHCROFT	615-6480	QUALIFIED		CATEGORY D
PS-104-57-2	ASHCROFT	615-6480	QUALIFIED		CATEGORY D
SE-70-4A	ASCO	HPX8211C13	JCO-66	NO TEST DATA	(NOTE 3)
SE-70-4B	ASCO	HPX8211C13	JCO-66	NO TEST DATA	(NOTE 3)
SE-70-4C	ASCO	HPX8211C13	JCO-66	NO TEST DATA	(NOTE 3)
SE-70-4D	ASCO	HPX8211C13	JCO-66	NO TEST DATA	(NOTE 3)
POST ACCIDENT SAMPLING SYSTEM					
71-F-1	ASCO	206-380-2F	QUALIFIED		
71-F-1	ASCO	206-380-2F	QUALIFIED		
71-S-1	ASCO	206-380-2F	QUALIFIED		
71-S-2	ASCO	206-380-2F	QUALIFIED		
SERVICE AND INSTRUMENT AIR SYSTEM					
AOV-72-38A	ASCO	206-380-7F	QUALIFIED		CATEGORY D
AOV-72-38B	ASCO	206-380-7F	QUALIFIED		CATEGORY D
CONDENSATE + DW TRANSFER SYSTEM					
107-12A(M)	ROSEMOUNT	510DU216026A014	QUALIFIED		
107-12B(M)	ROSEMOUNT	510DU216026A014	QUALIFIED		
MISCELLANEOUS ELECTRICAL EQUIPMENT					
ELEC-3	LEWIS	SR/SR	QUALIFIED		THERMOCOUPLE CABLE
ELEC-4	ROME	XLP/PVC	QUALIFIED		POWER CABLE
ELEC-5	GEN ELECTRIC	NS02/NS03/NS04	QUALIFIED		PENETRATION
ELEC-6	ROME	XLP/PVC	QUALIFIED		POWER CABLE

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

PAGE 18

ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
MISCELLANEOUS ELECTRICAL EQUIPMENT (CONTINUED)					
ELEC-7	BUCHANAN	0222	QUALIFIED		TERMINAL BLOCKS
ELEC-8	ROME	XLP/PVC	QUALIFIED		POWER CABLE
ELEC-9	KERITE	HTK/FR	QUALIFIED		POWER CABLE
ELEC-10	ANNACONDA	UNISHIELD EP	QUALIFIED		POWER CABLE
ELEC-11	ROME	XLP/PVC/PVC	QUALIFIED		CONTROL CABLE
ELEC-12	ROME	XLP/PVC/PVC	QUALIFIED		CONTROL CABLE
ELEC-13	ROME	XLP/PVC/PVC	QUALIFIED		CONTROL CABLE
ELEC-14	STATES	NT	QUALIFIED		TERMINAL BLOCK
ELEC-15	STATES	NT	QUALIFIED		TERMINAL BLOCK
ELEC-16	ROCKBESTOS	FIREWALL SR	QUALIFIED		CONTROL CABLE
ELEC-17	ROCKBESTOS	FIREWALL SR	QUALIFIED		CONTROL CABLE
ELEC-18	GEN ELECTRIC	VARIOUS	QUALIFIED		TERMINAL BLOCK
ELEC-19	BIW	XLP/NEOPENE	QUALIFIED		CONTROL CABLE
ELEC-21	CINCH JONES		QUALIFIED		TERMINAL BLOCK
ELEC-22	CERRO	FIREWALL EP	QUALIFIED		POWER CABLE
ELEC-23	LEWIS	PE/PVC/SHLD	QUALIFIED		CONTROL CABLE
ELEC-25	BUCHANAN		QUALIFIED		TERMINAL BLOCK
ELEC-28	STATES	NT	QUALIFIED		TERMINAL BLOCK
ELEC-29	LEWIS	PE/PVC	QUALIFIED		THERMOCOUPLE CABLE
ELEC-30	LEWIS	PE/PVC	QUALIFIED		THERMOCOUPLE CABLE
ELEC-31	ROCKBESTOS	FIREWALL III	QUALIFIED		CONTROL CABLE
ELEC-34	LEWIS	RG-95(H.T.)	JCO-39	NO DOC/QDR	CO-AXIAL CABLE, PART OF LPRMS
ELEC-35	GEN ELECTRIC		JCO-39	NO DOC/QDR	ELEC CONN. PART OF LPRMS
ELEC-36	ENDEVCO	3075M6	QUALIFIED		CO-AXIAL CABLE
ELEC-38	ROCKBESTOS	FIREWALL III	QUALIFIED		SIS WIRE
ELEC-40	ROCKBESTOS	FIREWALL III	QUALIFIED		INSTRUMENT CABLE
ELEC-42	ROCKBESTOS	FIREWALL III	QUALIFIED		CO-AXIAL CABLE
ELEC-43	RAYCHEM	VARIOUS	QUALIFIED		CABLE SPLICE KIT
ELEC-44	ROCKBESTOS	FIREWALL III	QUALIFIED		CO-AXIAL CABLE
ELEC-45	LEWIS	RG-95	JCO-39	NO DOC/QDR	CO-AXIAL CABLE, PART OF LPRMS
ELEC-46	GEN ELECTRIC	175A9132P008	QUALIFIED		FUSE HOLDER
ELEC-47	GEN ELECTRIC		QUALIFIED		SIS WIRE
ELEC-48	GEN ELECTRIC	167A2452P003	QUALIFIED		FUSE
ELEC-49	ROCKBESTOS	FIREWALL III	QUALIFIED		THERMOCOUPLE CABLE
ELEC-50		600V-PEPS	JCO-29	NO DOC/QDR	SIGNAL CABLE, PART OF CRDM MON
ELEC-51	GEN ELECTRIC	600V-VULKENE	JCO-29	NO DOC/QDR	SIGNAL CABLE, PART OF CRDM MON
ELEC-52	COLLYER	XLP	QUALIFIED		POWER CABLE
ELEC-53	WEIDMEULLER	SAK-6N	QUALIFIED		TERMINAL BLOCK
ELEC-54	ROCKBESTOS	FIREWALL III	QUALIFIED		CONTROL CABLE

ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MASTER EQUIPMENT LIST

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ID NUMBER	MANUFACTURER	MODEL NUMBER	QUALIFICATION STATUS	DEFICIENCY/ RESOLUTION	COMMENTS
MISCELLANEOUS ELECTRICAL EQUIPMENT (CONTINUED)					
ELEC-55	3M		QUALIFIED		TAPE SPLICE KIT
ELEC-56	GEN ELECTRIC	METAL OXIDE VARISTOR	QUALIFIED		CATEGORY D
ELEC-57	CONAX	VARIOUS	QUALIFIED		CONDUIT SEAL
ELEC-58	CONAX	VARIOUS	QUALIFIED		CONDUIT SEAL

ENCLOSURE (1) NOTES

VERMONT YANKEE
ENVIRONMENTAL QUALIFICATION
MASTER EQUIPMENT LIST NOTES

1. 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 Categories A, B, and D components listed in the EQ Matrix Report.
2. 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".
3. Schedular Relief was approved by the NRC by letter dated August 2, 1984 (NVY 84-179).
4. Schedular Relief was approved by the NRC by letter dated August 2, 1984 (NVY 84-179). The basis for schedular relief is the NRC's pending review and approval of the Vermont Yankee Primary Containment Leak Rate Testing Program (10CFR50, Appendix J Program). This program was submitted to the NRC by letter dated June 26, 1984, Proposed Change No. 121 to Facility Operating License No. DPR-28.

VERMONT YANKEE NUCLEAR
POWER CORPORATION

LIST OF CHANGES TO
THE ENVIRONMENTAL QUALIFICATION
MASTER EQUIPMENT LIST
AND BASIS FOR CHANGE

August 10, 1984

ADDITIONS TO THE MASTER EQUIPMENT LIST

<u>COMPONENT ID NO.</u>	<u>COMPONENT TYPE</u>	<u>SERVICE</u>	<u>REASON FOR ADDITION</u>
ELEC-56	Surge Suppression Diode	Control Rod Drive Scram Solenoids - Associated Components	See Note 1.
LD-19-60A LD-19-60B	Level Detector	Fuel Pool Level	New design change to provide qualified redundant Fuel Pool level indications.
LS-104-69A LS-104-69B	Pressure Switch	RBCCW Surge Tank level	New design change to provide qualified redundant RBCCW surge tank level indications.
TS-12-101A TS-12-101B TS-12-102A TS-12-102B TS-12-103A TS-12-103B TS-12-106A TS-12-106B TS-12-107A TS-12-107B TS-12-108A TS-12-108B TS-12-109A TS-12-109E TS-12-110A TS-12-110B TS-12-111A TS-12-111B TS-12-112A TS-12-112B	Temperature Switch	Reactor Water Clean-Up System Line Break Sensor	New design change to enhance line break detection capability.
LT-2-3-73A LT-2-3-73B LT-2-3-73A(M) LT-2-3-73B(M) LT-2-3-73A(X) LT-2-3-73B(X)	Level Transmitter Level Transmitter Master Trip Unit Master Trip Unit Auxiliary Relay Auxiliary Relay	Reactor Vessel Water Level - ECCS Permissive	Design Change to replace LITS-2-3-73A & B.

ADDITIONS (continued)

<u>COMPONENT ID NO.</u>	<u>COMPONENT TYPE</u>	<u>SERVICE</u>	<u>REASON FOR ADDITION</u>
PT-2-3-52C	Pressure Trans.	Reactor	Design Change
PT-2-3-52D	Pressure Trans.	Pressure -	to replace
PT-2-3-52C(M)	Master Trip Unit	ECCS Permissive	PS-2-3-52C & D.
PT-2-3-52D(M)	Master Trip Unit		
PT-2-3-52C(X)	Auxiliary Relay		
PT-2-3-52D(X)	Auxiliary Relay		
ELEC-52	Collyer 600V Power Cable	Fuel Pool Cooling HPCI Valve	New items found during field verification walkdowns.
ELEC-54	Rockbestos 600V Control Cable	Controls	
ELEC-10	Annaconda Power Cable	RHR, Core Spray, RHR SW Pump	Qualified cable replacing an unqualified cable.
ELEC-53	Weidmeuller Terminal Block	Fuel Pool Cooling	Design Change
ELEC-55	3M Tape Splice	Motor Termination	Assures qualification of motor termination
ELEC-57	Conax Seal	MSIV Limit Switches	Design Change
ELEC-56	Conax Seal	MSIV Limit Switches	Design Change

DELETIONS TO THE MASTER EQUIPMENT LIST

COMPONENT ID NO.	COMPONENT TYPE	SERVICE	REASON FOR DELETION
MOV-2-66A MOV-2-66B	Motor-Operated Valve	Reactor Recirculation System	See Note 2.
SN-3-140A SN-3-140B	Solenoid-Operated Valve	Back-up Scram Solenoid Valves	See Note 3.
A-ECCS-BC B-ECCS-BC	Battery Charger	24 Volt Instrumentation System	Relocated to a mild environment.
Local Indicating Lights	--	Fuel Pool Cooling System	Removed from associated circuit.
LSH-19-60 LSL-19-60	Level Switch	Fuel Pool Level	Design Change (Replaced by LD-19-60A & B).
PS-2-3-52C PS-2-3-52D	Pressure Switch	Reactor Pressure ECCS Permissive	Design Change (Replaced by PT-2-3-52C & D).
LITS-2-3-73A LITS-2-3-73B	Level Indicating Transmitter Switch	Reactor Vessel Water Level - ECCS Permissive	Replaced by LT-2-3-73A & B.
ELEC-39	Okonite Power Cable	RHR, Core Spray, RHR SW Pump	Qualified but replaced during design change in accordance with an engineering improvement (Replaced by ELEC-10).
ELEC-10	Collyer Power Cable	RHR, Core Spray, RHR SW Pump	Unqualified cable replaced.

ENCLOSURE (2) NOTES

1. These components were identified during our field verification walkdowns of the scram solenoid valves circuits.

Failure of these components due to a High Energy Line Break (HELB) environment could result in de-energizing the scram solenoids and thereby cause a reactor scram.

Although a reactor scram is a "fail-safe condition", an inadvertent scram due to non-environmentally qualified components following a Reactor Water Clean-Up System HELB before the line break isolation valves are fully closed could impact our design basis assumptions. The environment postulated following an RWCU HELB is based upon normal closing times for the isolation valves. If we take the RWCU outboard DC isolation valve as the single failure, and assume that a loss of offsite power occurs (due to the inadvertent reactor scram) prior to the RWCU inboard AC isolation valve closure, then our postulated design basis environment could be non-conservative since it will take the AC isolation valve an additional 13 seconds to close due to the emergency diesel start-up time. Although the failure of these components could result in de-energizing the scram solenoids, we have determined that these components operate in a mild environment for the first 25 seconds following an RWCU HELB, thereby eliminating this concern.

2. MOV-2-66A & B are Reactor Recirculation System cross-tie bypass valves. These valves are aligned such that one valve is normally open and one is normally closed. Both valves automatically close on an accident signal. The motors were originally intended to be replaced with environmentally qualified motors but installation was not possible due to physical interference. The motor leads to the normally closed bypass valve have been disconnected to prevent any single failure from opening this valve. This change eliminated the need to environmentally qualify these valves.
3. The back-up scram solenoid valves are not specifically required for any safety function. The intended function is to back up the Hydraulic Control Unit's (HCU) scram solenoid valves. Since the plant design accounts for one stuck rod; the back-up scram solenoids are not depended upon even for a single failure of an HCU scram solenoid.