

YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581
June 5, 1980

United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Division of Licensing
Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch #5

References: (a) License No. DPR-3 (Docket No. 50-79)
(b) USNRC Letter to YAEC, dated March 28, 1980
(c) YAEC Letter to USNRC, dated February 28, 1978
(d) YAEC Letter to USNRC, dated February 14, 1979
(e) USNRC Letter to YAEC, dated February 15, 1980
(f) YAEC Letter to USNRC, dated May 1, 1980
(g) YAEC Letter to USNRC, dated September 12, 1973
(h) USNRC Letter to YAEC, dated April 18, 1980

Dear Sir:

Subject: Environmental Qualification of Electrical Equipment

In reference (b), each SEP license was asked to perform a review of their safety related electrical equipment against the guidelines furnished in that letter. YAEC has already completed an extensive review of its safety related equipment and submitted this review in Reference (c). The review was subsequently updated and resubmitted in Reference (d). We have not received any comments from the NRC on the contents of this report and feel that it had adequately addressed all the concerns for environmental qualification of electrical equipment and met the guidelines provided.

In response to the request of Reference (e), we have reviewed the previously submitted equipment list using the new guidelines furnished in Reference (e). Enclosure A is the new master equipment list which takes into account the new guidelines for identifying electrical equipment and incorporates equipment added or changed as a result of system modifications made at the Yankee Rowe Plant since the earlier submittals. Equipment added strictly in response to TMI Lessons Learned Short Term Requirements and audited by the TMI review team has not yet been listed but will be included in the next revision.

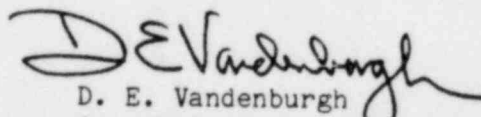
In reference (f), we submitted the data necessary for the calculation of the containment pressure and temperature decay time as requested in Enclosure 2 of Reference (b). Enclosure 3 of Reference (b) requested information necessary for review of plant specific containment analyses. This information is provided in Enclosure B of this letter. This scoping analysis is being used in determining the service environments for equipment inside the containment until a more detailed analysis is performed as discussed in Enclosure B.

For high energy line breaks (HELB) outside the containment, we have submitted in Reference (g) a supplementary report on the effects of pipe breaks outside the containment. This report did not address the environmental effects of such breaks. To address these effects, our approach is to identify the breaks that can affect the safety related equipment required to mitigate the consequences of the break from an environmental viewpoint. In such cases, we are planning to implement localized leak detection in conjunction with in service inspection to give advanced warning of impending pipe breaks. This would allow the plant operators sufficient time to bring the plant to a stable condition prior to a possible line break. This eliminates the need to perform a detailed analysis of the environmental effects of a line break outside containment and to qualify electrical equipment to withstand the effects of this environment.

We have obtained the service of two outside consultants to assist us in evaluating the ability of the electrical equipment listed in Enclosure A to withstand the doses from recirculating fluids outside the containment after a LOCA and to evaluate the effects of aging on electrical equipment. We are analyzing the effects of the doses to mechanical equipment from recirculating fluids as noted in Reference (h). We have obtained preliminary schedules from these consultants for the time required to perform this work. According to these schedules, the analysis of in-containment equipment will be completed in September 1980, based on timely completion of the consultant's work, adequate and timely response from manufacturers, and YAEC review of the results. For equipment outside containment, we expect the analysis to be completed in December, 1980, again based on the timely completion of the consultant's work, adequate and timely response from manufacturers and YAEC review of the results.

We trust you will find this information satisfactory. However, if you have any questions, please contact us.

Very truly yours,

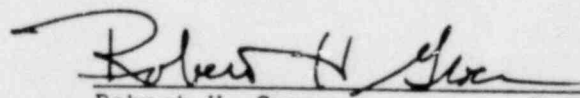

D. E. Vandenburg
Senior Vice President

WJA/sec

COMMONWEALTH OF MASSACHUSETTS))ss
COUNTY OF WORCESTER)

Then personally appeared before me, D. E. Vandenburg, who, being duly sworn, did state that he is a Senior Vice President of Yankee Atomic Electric Company, that he is duly authorized to execute and file the foregoing request in the name and on the behalf of Yankee Atomic Electric Company, and that the statements therein are true to the best of his knowledge and belief.




Robert H. Groce Notary Public
My Commission Expires September 14, 1984

ENCLOSURE A

FACILITY: YANKEE ROWE
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ENCLOSURE A
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EQUIPMENT LIST

SYSTEM: Component Cooling

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
P-20-1	Motor, Component Cooling Pump	PAB	CC-1
P-20-2	Motor, Component Cooling Pump	PAB	CC-1

SYSTEM: Main Steam

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
PIT-MS-403	Pneumatic Pressure Transmitter SG	TB	
PIT-MS-404	Pneumatic Pressure Transmitter SG		
PIT-MS-405	Pneumatic Pressure Transmitter SG		
PIT-MS-406	Pneumatic Pressure Transmitter SG		

SYSTEM: Charging and Volume Control

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
P-15-1	Motor, Charging Pump	PAB	CH-1
P-15-2	Motor, Charging Pump	PAB	CH-1
P-15-3	Motor, Charging Pump	PAB	CH-1

EQUIPMENT LIST

SYSTEM: Containment Isolation

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
K-CI-9	Relay, Containment Isolation Actuation	SWGR	
K-CI-10	Relay, Containment Isolation Actuation	SWGR	
K-CI-11	Relay, Containment Isolation Actuation	SWGR	
K-CI-12	Relay, Containment Isolation Actuation	SWGR	
K-CI-13	Relay, Containment Isolation Actuation	MCR	CI-1
K-CI-14	Relay, Containment Isolation Actuation	MCR	CI-1
K-CI-15	Relay, Containment Isolation Actuation	MCR	CI-1
K-CI-16	Relay, Containment Isolation Actuation	MCR	CI-1
PS-CI-230	Pressure Switch, Cont. Iso. Actuation	PAB	CI-2
PS-CI-231	Pressure Switch, Cont. Iso. Actuation	PAB	CI-2
PT-CI-227	Transmitter Vapor Container Pressure	PAB	CI-3
SOV-CI-801-820	Containment Isolation Solenoid Operated Valves	PAB	CI-4
SOV-CI-901-920	Containment Isolation Solenoid Operated Valves	PAB	CI-5
LOR-CI-A	Lockout Relay	PAB	
LOR-CI-B	Lockout Relay	PAB	
K-CI-21	Auxiliary Relay	PAB	
K-CI-22	Auxiliary Relay	PAB	
Switch	Cont. Iso. Switch Pnl.	PAB/MCR	
K-CI-40 through 69	Relays, Cont. Iso. Reset Sys A	MCR	
K-CI-70 through 99	Relays, Cont. Iso. Reset Sys B	MCR	

EQUIPMENT LIST

SYSTEM: Service Water

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
P-6-1	Motor, Service Water Pump	SCRN	SW-1
P-6-2	Motor, Service Water Pump	SCRN	SW-1
P-6-3	Motor, Service Water Pump	SCRN	SW-1

SYSTEM: Main Coolant

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
K1	Relay, Main Coolant Flow Scram Sys A	SWGR	
K2	Relay, Main Coolant Flow Scram Sys A	SWGR	
K3	Relay, Main Coolant Flow Scram Sys A	SWGR	
K4	Relay, Main Coolant Flow Scram Sys A	SWGR	
K1	Relay, Main Coolant Flow Scram Sys B	SWGR	
K2	Relay, Main Coolant Flow Scram Sys B	SWGR	
K3	Relay, Main Coolant Flow Scram Sys B	SWGR	
K4	Relay, Main Coolant Flow Scram Sys B	SWGR	
TD-MC-A	Time Delay Relay, 200 ms, Flow Scram	SWGR	
TD-MC-B	Time Delay Relay, 200 ms, Flow Scram	SWGR	
TD-MC-5	Relay, Main Coolant Flow Scram Sys A	SWGR	
TD-MC-6	Relay, Main Coolant Flow Scram Sys A	SWGR	

EQUIPMENT LIST

SYSTEM: Main Coolant (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
TD-MC-5	Relay, Main Coolant Flow Scram Sys B	SWGR	
TD-MC-6	Relay, Main Coolant Flow Scram Sys B	SWGR	
K-MC-1A	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-1B	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-2A	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-2B	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-3A	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-3B	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-4A	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-4B	Relay, Main Coolant Flow Scram Sys A	SWGR	MC-1
K-MC-1A	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-1C	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-2A	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-2C	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-3A	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-3C	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-4A	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
K-MC-4C	Relay, Main Coolant Flow Scram Sys B	SWGR	MC-1
	Current Transformer, Main Coolant Pumps	SWGR	
FT-MC-8	Differential Pressure Detector MC Loop Flow	VC	MC-2
FT-MC-10	Differential Pressure Detector MC Loop Flow	VC	MC-2
FT-MC-11	Differential Pressure Detector MC Loop Flow	VC	MC-2
FT-MC-12	Differential Pressure Detector MC Loop Flow	VC	MC-2

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EQUIPMENT LIST

SYSTEM: Main Coolant (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
PT-MC-6	Pressure Detector Pressurizer	VC	MC-3
PT-MC-9	Pressure Detector MC	VC	MC-3
	Recorder, LTOP Pressure	MCR	
PT-MC-712	Pressure Xmitter LTOP	VC	MC-4
PWR-MC-712	Power Supply, LTOP Pressure	MCR	
MC-MOV-301	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-302	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-309	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-310	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-318	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-319	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-325	Main Coolant Inlet/Outlet Valve	VC	MC-5
MC-MOV-326	Main Coolant Inlet/Outlet Valve	VC	MC-5

EQUIPMENT LIST

SYSTEM: Pressurizer

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
CH-PR-3	Comp. Ion Chamber (IR)	VC	PR-1
CH-PR-4	Comp. Ion Chamber (IR)	VC	PR-1
CH-PR-5	Comp. Ion Chamber (IR)	VC	PR-1
CH-PR-6	Ionization Chamber (PR)	VC	PR-2
CH-PR-7	Ionization Chamber (PR)	VC	PR-2
CH-PR-8	Ionization Chamber (PR)	VC	PR-2
LD-PR-6	Level Detector Pressurizer Level (NR)	VC	PR-3
LD-PR-8	Level Detector Pressurizer Level (WR)	VC	PR-3
SOV-PR-90	Power Operated Relief Valve	VC	
PR-MOV-512	Block Valve for PR-PRV-90	VC	

SYSTEM: Purification

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
PU-MOV-541	Motor Operated Valve, Containment Isolation	PAB	

EQUIPMENT LIST

SYSTEM: Feed Water

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
LI-FW-1001	Ind. Steam Generator Level (WR)	MCR	FW-1
LI-FW-1101	Ind. Steam Generator Level (WR)	MCR	FW-1
LI-FW-1201	Ind. Steam Generator Level (WR)	MCR	FW-1
LI-FW-1301	Ind. Steam Generator Level (WR)	MCR	FW-1
LT-FW-1001	Transmitter Steam Generator Level (WR)	VC	FW-2
LT-FW-1101	Transmitter Steam Generator Level (WR)	VC	FW-2
LT-FW-1201	Transmitter Steam Generator Level (WR)	VC	FW-2
LT-FW-1301	Transmitter Steam Generator Level (WR)	VC	FW-2
LI-FW-1003	Ind. Steam Generator Level (NR)	MCR	FW-3
LI-FW-1103	Ind. Steam Generator Level (NR)	MCR	FW-3
LI-FW-1203	Ind. Steam Generator Level (NR)	MCR	FW-3
LI-FW-1304	Ind. Steam Generator Level (NR)	MCR	FW-3
LT-FW-1003	Transmitter Steam Generator Level (NR)	VC	FW-4
LT-FW-1103	Transmitter Steam Generator Level (NR)	VC	FW-4
LT-FW-1203	Transmitter Steam Generator Level (NR)	VC	FW-4
LT-FW-1303	Transmitter Steam Generator Level (NR)	VC	FW-4
SEV-FW-1000	Pneumatic Control Station FW Flow	MCR	
SEV-FW-1100	Pneumatic Control Station FW Flow	MCB	FW-5
SEV-FW-1200	Pneumatic Control Station FW Flow	MCB	FW-5
SEV-FW-1300	Pneumatic control Station FW Flow	MCB	FW-5

EQUIPMENT LIST

SYSTEM: Feed Water (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
LR-FW-3-1	Level Recorder, E/P SG Level	SWGR	
LR-FW-3-2	Level Recorder, E/P SG Level	SWGR	
LR-FW-3-3	Level Recorder, E/P SG Level	SWGR	
LR-FW-3-4	Level Recorder, E/P SG Level	SWGR	
P/S-FW-1003	Power Supply Steam Generator Level (NR)	SWGR	
P/S-FW-1103	Power Supply Steam Generator Level (NR)	SWGR	
P/S-FW-1203	Power Supply Steam Generator Level (NR)	SWGR	
P/S-FW-1303	Power Supply Steam Generator Level (NR)	SWGR	

SYSTEM: Hydrogen Vent

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
HV-SOV-1	Post-Accident H ₂ Vent Valve	VC	HV-1
HV-SOV-2	Post-Accident H ₂ Vent Valve	VC	HV-1
GA-HV-1	Hydrogen Analyzer	SWGR	

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SYSTEM: Radiation Monitoring

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
GG-RM-1	Emergency Rad. Monitor/High Range	TB/MCR	RM-1
RD-RM-112	Emergency Rad. Monitor/High Range	TB	RM-2
RI-RM-112	Emergency Rad. Monitor Indicator	MCR	RM-3

SYSTEM: Miscellaneous

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
FN18-1	Post-Accident Recirc. Fan	VC	MIS-1
FN18-2	Post-Accident Recirc. Fan	VC	MIS-1
FN18-3	Post-Accident Recirc. Fan	VC	MIS-1

EQUIPMENT LIST

SYSTEM: Safety Injection

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
LI-SI-1	Level Indicator SI Tank Level	MCR	SI-1
LT-SI-1	Level Transmitter SI Tank Level	Under SI Tank	SI-2
LS-SI-1	Level Switch SI Accumulator Low Water Level	PAB	SI-3
LS-SI-2	Level Switch SI Accumulator Low Water Level	PAB	SI-3
LS-SI-3	Level Switch SI Accumulator Low Water Level	PAB	SI-3
LS-SI-4	Level Switch SI Accumulator Low Water Level	PAB	SI-3
SI-PP-LP1	Motor, Low Pressure SI Pump	PAB	SI-4
SI-PP-LP2	Motor, Low Pressure SI Pump	PAB	SI-4
SI-PP-LP3	Motor, Low Pressure SI Pump	PAB	SI-4
SI-PP-HP-1	Motor, High Pressure SI Pump	PAB	SI-5
SI-PP-HP-2	Motor, High Pressure SI Pump	PAB	SI-5
SI-PP-HP-3	Motor, High Pressure SI Pump	PAB	SI-5
PS-SI-14	Pressure Switch, VC Pressure/SI Initiation Ckt.	VC	SI-6
PS-SI-238	Pressure Switch, SI Initiation Ckt.	PAB	SI-7
PS-SI-239	Pressure Switch, SI Initiation Ckt.	PAB	SI-7
	Switch Auto - Manual Bypass Ch A&B	MCR	
SI-MOV-1	SI Accumulator Outlet Valve	PAB	SI-8
P/S-SI-1	Power Supply, SI Tank Level	MCR	

EQUIPMENT LIST

SYSTEM: Safety Injection (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
LSX-SI-1	Aux. Relay Vent Accumulator	MCR	
LSX-SI-2	Aux. Relay Vent Accumulator	MCR	
LSX-SI-3	Aux. Relay Vent Accumulator	MCR	
LSX-SI-4	Aux. Relay Vent Accumulator	MCR	
MOV-CS-533	LPSI Path Isolation Valve	VC	SI-9
MOV-CS-535	LPSI Path Isolation Valve	VC	SI-9
MOV-SI-22	SI Loop #4 Isolation Valve	VC	SI-9
MOV-SI-23	SI Loop #3 Isolation Valve	VC	SI-9
MOV-SI-24	SI Loop #2 Isolation Valve	VC	SI-9
MOV-SI-25	SI Loop #1 Isolation Valve	VC	SI-9
MOV-SI-46	HPSI Header Throttle Valve	PAB	SI-8
FT-SI-1	Flow Transmitter SI Loop 1	VC	
FT-SI-2	Flow Transmitter SI Loop 2	VC	
FT-SI-3	Flow Transmitter SI Loop 3	VC	
FT-SI-4	Flow Transmitter SI Loop 4	VC	
MOV-SI-48	HPSI Recirculation Valve	PAB	SI-8
MOV-SI-49	HPSI Recirculation Valve	PAB	SI-8
MOV-SI-514	HPSI to Charging Hdr. Iso. Valve	PAB	SI-8
MOV-SI-515	HPSI to Charging Hdr. Iso. Valve	PAB	SI-8

EQUIPMENT LIST

SYSTEM: Safety Injection (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
MOV-SI-516	Containment Sump Isolation Valve	PAB	SI-8
MOV-SI-517	Containment Sump Isolation Valve	PAB	SI-8
MOV-SI-518	SI Tank Discharge Valve	PAB	SI-8
SOV-SI-45	Accumulator, Actuator for TV-608	PAB	SI-10
SOV-SI-46	Accumulator, Actuator for TV-604, 605, 606	PAB	SI-10
SOV-SI-47	Accumulator, Actuator for TV-604, 605, 606	PAB	SI-10
SOV-SI-56	Safety Valve Accumulator	PAB	SI-11
SOV-SI-57	Safety Valve Accumulator	PAB	SI-11
SOV-SI-639	Safety Valve Accumulator	PAB	
SOV-SI-640	Safety Valve Accumulator	PAB	
WL-SI-1	Relay, SI Initiation Ckt.	MCR	
WL-SI-1-1	Relay, SI Initiation Ckt.	MCR	
TDC-PR-1	Relay, Pressurize Accumulator	MCR	
TDC-PR-2	Relay, Pressurize Accumulator	MCR	
TDC-PR-3	Relay, Pressurize accumulator	MCR	
TDC-PR-4	Relay, Pressurize Accumulator	MCR	
TDC-SI-1	TD Relay Accumulator	MCR	
TDC-SI-2	TD Relay Accumulator	MCR	
TDC-SI-3	TD Relay Accumulator	MCR	
TDC-SI-4	TD Relay Accumulator	MCR	

EQUIPMENT LIST

SYSTEM: Safety Injection (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
X-SI-1-1	Relay Multiplier	MCR	
X-SI-1-2	Relay Multiplier	MCR	
K-CI-7	Lockout Relay, Diverse Cont. Isolation	MCR	
K-CI-8	Lockout Relay, Diverse Cont. Isolation	MCR	
K-31	Auxiliary Relay	MCR	
K-32	Auxiliary Relay	MCR	
K-SG	Relay, Operates WL-SI-1-1	MCR	
SIAS-A	Lockout Relay	MCR	
SIAS-B	Lockout Relay	MCR	

SYSTEM: Reactor Protection

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
TC-RP-420	Thermal Conv. Permissive 15 MWe	MCR	RP-1
TC-RP-423	Thermal Conv. Permissive 15 MWe	MCR	RP-1
BS-RP-420	Bistable 15 MWe	MCR	PP-2
BS-RP-423	Bistable 15 MWe	MCR	RP-2
K-20-RS	Relay, Scram Aux.	MCR	

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SYSTEM: Reactor Protection (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
62-CS	Relay, Trip BFP	MCR	
RPS	Reactor Protection System (Westinghouse)	MCR	
BK-1	Circuit Breaker, Rod Scram	SWGR	
BK-2	Circuit Breaker, Rod Scram	SWGR	

EQUIPMENT LIST

SYSTEM: Electrical Equipment For All Systems

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
	Emergency Diesel Gen. 1,2,3	PAB	J1
LT-DG-1	Level Transmitter Level Control Day Tank	PAB	J2
LT-DG-2	Level Transmitter Level Control Day Tank	PAB	J2
LT-DG-3	Level Transmitter Level Control Day Tank	PAB	J2
SOV-DG-1	SOV Diesel Gen. Day Tank Fill Valve	PAB	J3
SOV-DG-2	SOV Diesel Gen. Day Tank Fill Valve	PAB	J3
SOV-DG-3	SOV Diesel Gen. Day Tank Fill Valve	PAB	J3
LIC-1	Level Receiver Level Control Day Tank	PAB	J4
LIC-2	Level Receiver Level Control Day Tank	PAB	J4
LIC-3	Level Receiver Level Control Day Tank	PAB	J4
	No. 1 Battery	SWGR	J5
	No. 2 Battery	SWGR	J5
	No. 3 Battery	PAB	J6
	No. 1 Battery Charger - MG Set	SWGR	J7
	No. 2 Battery Charger - MG Set	SWGR	J7
	No. 3 Battery Charger - Static	PAB	J8
	No. 1 Battery Switchboard	SWGR	J9
	No. 2 Battery Switchboard	SWGR	J9
	No. 3 Battery Switchboard	PAB	J10
	No. 3A Battery Switchboard	PAB	J10
	No. 3B Battery Switchboard	PAB	J10

EQUIPMENT LIST

SYSTEM: Electrical Equipment For All Systems (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
	480 Volt Emergency Bus 1	PAB	J11
	480 Volt Emergency Bus 2	PAB	J11
	Connector Coaxial	VC	J12
	480 Volt Emergency Bus 3	PAB	J11
	480 Volt Emergency MCC 1	SWGR	J13
	480 Volt Emergency MCC 2	PAB	J14
	Vital Bus Inverter (M-G Set)	SWGR	J15
	Vital Bus Distribution Cubicle	SWGR	J16
	Terminal Block 12 Point	VC	J17
	Terminal Block 12 Point	VC	J18
	Penetration Assembly	VC	J19
	Control Switch	MCR	
	Relay Over/Under Voltage (CV-7)	MCR	
	Relay Voltage (SV)	MCR	
	Relay Auxiliary (Various)	MCR	

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SYSTEM: Electrical Equipment For All Systems (Continued)

<u>Tag Number</u>	<u>Description</u>	<u>Location</u>	<u>References</u>
	Relay, Reverse Power (CRM-1)	MCR	
	Relay, Time Delay TDPU 2.5-50 Sec.	MCR	
	Selector Switch for MOV	MCR	
	Cable Mineral Insulated	VC	J20
	Cable Polyethylene/PVC	VC	J21
	Cable Butyl Rubber/PVC	VC	J22
	Cable Silicone Rubber/Asbestos	VC	J23
	Cable XLP/Neoprene (or Hypalon)	VC	J24
	Cable PVC Shielded	VC	J25
	Cable Coaxial	VC	J26

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