

SAFETY EVALUATION REPORT BY THE
OFFICE OF NUCLEAR REACTOR REGULATION ..
EQUIPMENT QUALIFICATION BRANCH
FOR DUKE POWER COMPANY
OCONEE UNIT 1

DOCKET NO. 50-269

- (2) some of the items found deficient have been or are being replaced or relocated, thus improving the facility's capability to function following a LOCA or HELB
- (3) the harsh environmental conditions for which this equipment must be qualified result from low-probability events; events which might reasonably be anticipated during this very limited period would lead to less demanding service conditions for this equipment.

APPENDIX A

Equipment Requiring Immediate Corrective Action (Category 4.1)

LEGEND:

Designation for Deficiency

R - Radiation
T - Temperature
QT - Qualification time
RT - Required time
P - Pressure
H - Humidity
CS - Chemical spray
A - Material aging evaluation, replacement schedule, ongoing equipment surveillance
S - Submergence
M - Margin
I - HELB evaluation outside containment not completed
QM - Qualification method
RPN - Equipment relocation or replacement, adequate schedule not provided
EXN - Exempted equipment justification inadequate
SEN - Separate effects qualification justification inadequate
QI - Qualification information being developed
RPS - Equipment relocation or replacement schedule provided

Equipment Description	Manufacturer	Item No.	Deficiency
Valve Motor	Rotork	1VMTR0009	QT,T,P,H,CS, R,A*

*In a phone conversation, the licensee has stated that this valve has already been replaced.

APPENDIX B

Equipment Requiring Additional Information and/or Corrective Action (Category 4.2)

LEGEND:

Designation for Deficiency

R - Radiation
 T - Temperature
 QT - Qualification time
 RT - Required time
 P - Pressure
 H - Humidity
 CS - Chemical spray
 A - Material aging evaluation, replacement schedule, ongoing equipment surveillance
 S - Submergence
 M - Margin
 I - HELB evaluation outside containment not completed
 QM - Qualification method
 RPN - Equipment relocation or replacement, adequate schedule not provided
 EXN - Exempted equipment justification inadequate
 SEN - Separate effects qualification justification inadequate
 QI - Qualification information being developed
 RPS - Equipment relocation or replacement schedule provided

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0172	CS,A
Cable	Okonite	1CBLE0173	CS,A
Cable	Okonite	1CBLE0175	CS,A
Cable	Okonite	1CBLE0177	CS,A
Cable	Okonite	1CBLE0094	CS,A
Cable	Okonite	1CBLE0092	CS,A
Cable	Okonite	1CBLE0139	CS,A

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0144	CS,A
Cable	Okonite	1CBLE0146	CS,A
Cable	Okonite	1CBLE0148	CS,A
Cable	Okonite	1CBLE0160	CS,A
Cable	Okonite	1CBLE0165	CS,A
Cable	Okonite	1CBLE0166	CS,A
Cable	Okonite	1CBLE0167	CS,A
Cable	Okonite	1CBLE0168	CS,A
Cable	Okonite	1CBLE0170	CS,A
Cable	Okonite	1CBLE0180	CS,A
Cable	Okonite	1CBLE0181	CS,A
Cable	Okonite	1CBLE0185	CS,A
Cable	Okonite	1CBLE0187	CS,A
Cable	Okonite	1CBLE0188	CS,A
Valve Motor	Limatorque	1VMTR0025	CS,A
Valve Motor	Limatorque	1VMTR0026	CS,A
Valve Motor	Limatorque	1VMTR0027	CS,A
Valve Motor	Limatorque	1VMTR0028	CS,A
Valve Motor	Limatorque	1VMTR0021	CS,A
Valve Motor	Limatorque	1VMTR0015	CS,A
Valve Motor	Limatorque	1VMTR0012	CS,A
Valve Motor	Limatorque	1VMTR0007	CS,A
Valve Motor	Limatorque	1VMTR0008	CS,A
Valve Motor	Limatorque	1VMTR0001	CS,A

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Valve Motor	Limatorque	1VMTR0002	CS,A
Valve Motor	Limatorque	1VMTR0022	CS,A
Valve Motor	Limatorque	1VMTR0023	CS,A
Valve Motor	Rotork	1VMTR0004	CS,A
Valve Motor	Rotork	1VMTR0005	CS,A
Fan Motor	Reliance	1FMTR0001	CS,A
Fan Motor	Reliance	1FMTR0003	CS,A
Fan Motor	Reliance	1FMTR0005	CS,A
Terminal Block	States	1TBOX0010	R,H,A,QI
Terminal Block	States	1TBOX0011	R,H,A,QI
Terminal Block	States	1TBOX0012	R,H,A,QI
Terminal Block	States	1TBOX0007	R,H,A,QI
Terminal Block	States	1TBOX0013	R,H,A,QI
Terminal Block	States	1TBOX0014	R,H,A,QI
Terminal Block	States	1TBOX0008	R,T,P,H,A,QI
Terminal Block	States	1TBOX0009	R,T,P,H,A,QI
Terminal Block	States	1TBOX0015	R,H,A,QI
Terminal Block	States	1TBOX0001	R,H,A,QI
Terminal Block	States	1TBOX0002	R,H,A,QI
Terminal Block	States	1TBOX0003	R,H,A,QI
Terminal Block	States	1TBOX0004	R,H,A,QI
Terminal Block	States	1TBOX0006	R,H,A,QI
Cable	Brand Rex	1CBLE0025	R,T,P,H,A,QI
Cable	Brand Rex	1CBLE0063	R,T,P,H,A,QI

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Brand Rex	1CBLE0073	R,T,P,H,A,QI
Cable	Brand Rex	1CBLE0468	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0469	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0470	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0471	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0462	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0465	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0403	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0405	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0453	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0455	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0425	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0427	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0429	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0431	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0023	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0061	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0071	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0105	R,T,QT,P,H,A,QI
Cable	Brand Rex	1CBLE0478	R,QT,H,A,QI
Cable	Brand Rex	1CBLE0479	R,QT,H,A,QI
Cable	Brand Rex	1CBLE0480	R,QT,H,A,QI
Cable	Brand Rex	1CBLE0481	R,QT,H,A,QI

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Boston Insulated Wire	1CBLE0434	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0436	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0438	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0440	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0442	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0444	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0446	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0448	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0450	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0456	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0022	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0060	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0070	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0104	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0402	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0404	QT,A,QI

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Boston Insulated Wire	1CBLE0452	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0454	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0406	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0408	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0410	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0412	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0414	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0416	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0418	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0420	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0422	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0424	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0426	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0428	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0430	QT,A,QI
Cable	Boston Insulated Wire	1CBLE0432	QT,A,QI

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0190	CS,A,S
Cable	Okonite	1CBLE0135	CS,A,S
Cable	Okonite	1CBLE0136	CS,A,S
Valve Motor	Limatorque	1VMTR0017	CS,A,S
Valve Motor	Limatorque	1VMTR0010	CS,A,S
Valve Motor	Limatorque	1VMTR0011	CS,A,S
Valve Motor	Limatorque	1VMTR0055	R,QT,H,A
Valve Motor	Limatorque	1VMTR0061	R,T,QT,P,H,A
Valve Motor	Limatorque	1VMTR0062	R,T,QT,P,H,A
Valve Motor	Limatorque	1VMTR0063	R,T,QT,P,H,A
Valve Motor	Limatorque	1VMTR0051	R,QT,H,A
Valve Motor	Rotork	1VMTR0065	R,T,QT,P,H,CS,A
Valve Motor	Limatorque	1VMTR0066	R,T,QT,P,H,CS,A
Level Transmitter	Rosemount	1LTRM0014	R,QT,CS,A,S
Level Transmitter	Rosemount	1LTRM0015	R,QT,CS,A,S
Level Transmitter	Rosemount	1LTRM0016	R,QT,CS,A,S
Level Transmitter	Rosemount	1LTRM0017	R,QT,CS,A,S
Pressure Transmitter	Rosemount	1PTRM0016	R,QT,CS,A
Pressure Transmitter	Rosemount	1PTRM0004	CS,A,M
Pressure Transmitter	Rosemount	1PTRM0005	CS,A,M
Pressure Transmitter	Rosemount	1PTRM0006	CS,A,M
Pressure Transmitter	Rosemount	1PTRM0007	CS,A,M
Pressure Switch	Mercoide	1PRSW0001	A,M
Pressure Switch	Mercoide	1PRSW0002	A,M

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Pressure Switch	Mercoid	1PRSW0003	A,M
Pressure Switch	Mercoid	1PRSW0004	A,M
Pressure Switch	Mercoid	1PRSW0005	A,M
Pressure Switch	Mercoid	1PRSW0006	A,M
Pressure Switch	Mercoid	1PRSW0007	A,M
Pressure Switch	Mercoid	1PRSW0008	A,M
Pressure Switch	Mercoid	1PRSW0009	A,M
Pressure Switch	Mercoid	1PRSW0010	A,M
Pressure Switch	Meletron	1PRSW0011	R,QT,H,A
Pressure Switch	Meletron	1PRSW0012	R,QT,H,A
Pressure Transmitter	Motorola	1PTRM0001	CS,A,M
Pressure Transmitter	Motorola	1PTRM0002	CS,A,M
Pressure Transmitter	Motorola	1PTRM0003	CS,A,M
Fan Motor	Lou-Allis	1FMTR0002	A,M
Fan Motor	Lou-Allis	1FMTR0004	A,M
Solenoid Valve	ASCO	1SLND0015	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0019	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0008	R,T,QT,P,H,A,RPN
Solenoid Valve	ASCO	1SLND0009	R,T,QT,P,H,A,RPN
Solenoid Valve	ASCO	1SLND0020	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0001	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0002	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0004	R,QT,H,A,RPN
Solenoid Valve	ASCO	1SLND0005	R,QT,H,A,RPN

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Solenoid Valve	ASCO	1SLND0006	R,QT,H,A,RPN
Solenoid Valve	WEBCO	1SLND0017	R,QT,H,A,RPN
Solenoid Valve	WEBCO	1SLND0018	R,QT,H,A,RPN
Solenoid Valve	Super Spl.	1SLND0016	R,QT,H,A,RPN
Solenoid Valve	Pilot	1SLND0007	R,QT,H,A,RPN
Transzorb	Gen. Semi.	1TBOX0110	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0111	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0112	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0107	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0113	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0114	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0108	R,T,QT,P,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0109	R,T,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0115	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0101	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0102	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0103	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0104	R,QT,H,A,RPS
Transzorb	Gen. Semi.	1TBOX0106	R,QT,H,A,RPS
Pressure Transmitter	Motorola	1PTRM0008	R,T,QT,P,H,A,RPN
Pressure Transmitter	Motorola	1PTRM0009	R,T,QT,P,H,A,RPN
Pressure Transmitter	Motorola	1PTRM0010	R,T,QT,P,H,A,RPN
Pressure Transmitter	Motorola	1PTRM0011	R,T,QT,P,H,A,RPN
Pressure Transmitter	Motorola	1PTRM0012	R,T,QT,P,H,CS,A,RPN

APPENDIX B (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Pressure Transmitter	Motorola	1PTRM0013	R,T,QT,P,H,CS,A,RPN
Pressure Transmitter	Motorola	1PTRM0014	R,T,QT,P,H,CS,A,RPN
Pressure Transmitter	Motorola	1PTRM0015	R,T,QT,P,H,CS,A,RPN
Valve Motor	Limatorque	1VMTR0013	R,A
Valve Motor	Limatorque	1VMTR0030	R,A
Valve Motor	Limatorque	1VMTR0003	R,A
Valve Motor	Limatorque	1VMTR0006	R,A
Valve Motor	Limatorque	1VMTR0018	R,A
Valve Motor	Limatorque	1VMTR0032	R,A
Cable	Okonite	1CBLE0314	R,CS,A,RPN
Cable	Okonite	1CBLE0316	R,CS,A,RPN
Cable	Okonite	1CBLE0320	R,CS,A,RPN
Cable	Okonite	1CBLE0322	R,CS,A,RPN
Cable	Okonite	1CBLE0184	R,CS,A,RPN
Heat Shrink Tubing	Raychem	Type WCSF-N Various Locations	RT,QT,CS,A
Cable Sealant	3M	Scotch Cast 9 Various Locations	RT,QT,CS,A,M
Transmitter O-Ring Seals	?	Various Locations	RT,QT,T,P,H,CS, R,A
Lubricating Grease for Limatorque MOVs	Chevron	Type SRI-2 Various Locations	RT,QT,R,A,M

APPENDIX C

Equipment Considered Acceptable or Conditionally Acceptable (Category 4.3)

LEGEND:

Designation for Deficiency

R - Radiation
 T - Temperature
 QT - Qualification time
 RT - Required time
 P - Pressure
 H - Humidity
 CS - Chemical spray
 A - Material aging evaluation, replacement schedule, ongoing equipment surveillance
 S - Submergence
 M - Margin
 I - HELB evaluation outside containment not completed
 QM - Qualification method
 RPN - Equipment relocation or replacement, adequate schedule not provided
 EXN - Exempted equipment justification inadequate
 SEN - Separate effects qualification justification inadequate
 QI - Qualification information being developed
 RPS - Equipment relocation or replacement schedule provided

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0171	A
Cable	Okonite	1CBLE0174	A
Cable	Okonite	1CBLE0176	A
Cable	Okonite	1CBLE0262	A
Cable	Okonite	1CBLE0266	A
Cable	Okonite	1CBLE0267	A
Cable	Okonite	1CBLE0271	A
Cable	Okonite	1CBLE0272	A
Cable	Okonite	1CBLE0276	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0093	A
Cable	Okonite	1CBLE0257	A
Cable	Okonite	1CBLE0260	A
Cable	Okonite	1CBLE0091	A
Cable	Okonite	1CBLE0189	A
Cable	Okonite	1CBLE0242	A
Cable	Okonite	1CBLE0243	A
Cable	Okonite	1CBLE0247	A
Cable	Okonite	1CBLE0250	A
Cable	Okonite	1CBLE0472	A
Cable	Okonite	1CBLE0473	A
Cable	Okonite	1CBLE0474	A
Cable	Okonite	1CBLE0475	A
Cable	Okonite	1CBLE0476	A
Cable	Okonite	1CBLE0477	A
Cable	Okonite	1CBLE0329	A
Cable	Okonite	1CBLE0330	A
Cable	Okonite	1CBLE0001	A
Cable	Okonite	1CBLE0002	A
Cable	Okonite	1CBLE0020	A
Cable	Okonite	1CBLE0021	A
Cable	Okonite	1CBLE0095	A
Cable	Okonite	1CBLE0096	A
Cable	Okonite	1CBLE0097	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0098	A
Cable	Okonite	1CBLE0099	A
Cable	Okonite	1CBLE0112	A
Cable	Okonite	1CBLE0113	A
Cable	Okonite	1CBLE0114	A
Cable	Okonite	1CBLE0134	A
Cable	Okonite	1CBLE0137	A
Cable	Okonite	1CBLE0138	A
Cable	Okonite	1CBLE0149	A
Cable	Okonite	1CBLE0154	A
Cable	Okonite	1CBLE0141	A
Cable	Okonite	1CBLE0142	A
Cable	Okonite	1CBLE0143	A
Cable	Okonite	1CBLE0145	A
Cable	Okonite	1CBLE0147	A
Cable	Okonite	1CBLE0210	A
Cable	Okonite	1CBLE0227	A
Cable	Okonite	1CBLE0306	A
Cable	Okonite	1CBLE0309	A
Cable	Okonite	1CBLE0310	A
Cable	Okonite	1CBLE0312	A
Cable	Okonite	1CBLE0313	A
Cable	Okonite	1CBLE0315	A
Cable	Okonite	1CBLE0319	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0321	A
Cable	Okonite	1CBLE0376	A
Cable	Okonite	1CBLE0381	A
Cable	Okonite	1CBLE0386	A
Cable	Okonite	1CBLE0482	A
Cable	Okonite	1CBLE0483	A
Cable	Okonite	1CBLE0484	A
Cable	Okonite	1CBLE0485	A
Cable	Okonite	1CBLE0486	A
Cable	Okonite	1CBLE0487	A
Cable	Okonite	1CBLE0488	A
Cable	Okonite	1CBLE0489	A
Cable	Okonite	1CBLE0490	A
Cable	Okonite	1CBLE0491	A
Cable	Okonite	1CBLE0492	A
Cable	Okonite	1CBLE0493	A
Cable	Okonite	1CBLE0494	A
Cable	Okonite	1CBLE0333	A
Cable	Okonite	1CBLE0335	A
Cable	Okonite	1CBLE0338	A
Cable	Okonite	1CBLE0339	A
Cable	Okonite	1CBLE0342	A
Cable	Okonite	1CBLE0344	A
Cable	Okonite	1CBLE0346	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0500	A
Cable	Okonite	1CBLE0501	A
Cable	Okonite	1CBLE0502	A
Cable	Okonite	1CBLE0252	A
Cable	Okonite	1CBLE0255	A
Cable	Okonite	1CBLE0497	A
Cable	Okonite	1CBLE0498	A
Cable	Okonite	1CBLE0499	A
Cable	Okonite	1CBLE0159	A
Cable	Okonite	1CBLE0161	A
Cable	Okonite	1CBLE0162	A
Cable	Okonite	1CBLE0163	A
Cable	Okonite	1CBLE0164	A
Cable	Okonite	1CBLE0169	A
Cable	Okonite	1CBLE0324	A
Cable	Okonite	1CBLE0326	A
Cable	Okonite	1CBLE0327	A
Cable	Okonite	1CBLE0391	A
Cable	Okonite	1CBLE0396	A
Cable	Okonite	1CBLE0495	A
Cable	Okonite	1CBLE0496	A
Cable	Okonite	1CBLE0178	A
Cable	Okonite	1CBLE0179	A
Cable	Okonite	1CBLE0182	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Okonite	1CBLE0183	A
Cable	Okonite	1CBLE0186	A
Cable	Okonite	1CBLE0277	A
Cable	Okonite	1CBLE0280	A
Cable	Okonite	1CBLE0282	A
Cable	Okonite	1CBLE0285	A
Cable	Okonite	1CBLE0287	A
Cable	Okonite	1CBLE0289	A
Cable	Okonite	1CBLE0292	A
Cable	Okonite	1CBLE0294	A
Cable	Okonite	1CBLE0297	A
Cable	Okonite	1CBLE0299	A
Cable	Okonite	1CBLE0300	A
Cable	Okonite	1CBLE0301	A
Cable	Okonite	1CBLE0304	A
Cable	Okonite	1CBLE0349	A
Cable	Okonite	1CBLE0351	A
Cable	Okonite	1CBLE0353	A
Cable	Okonite	1CBLE0355	A
Cable	Anaconda	1CBLE0236	A
Cable	Anaconda	1CBLE0238	A
Cable	Anaconda	1CBLE0458	A
Cable	Anaconda	1CBLE0459	A
Cable	Anaconda	1CBLE0460	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Anaconda	1CBLE0461	A
Electrical Penetration	Viking	1PENT0004	A
Electrical Penetration	Viking	1PENT0005	A
Electrical Penetration	Viking	1PENT0011	A
Electrical Penetration	Viking	1PENT0019	A
Electrical Penetration	Viking	1PENT0013	A
Electrical Penetration	Viking	1PENT0020	A
Electrical Penetration	Viking	1PENT0021	A
Electrical Penetration	Viking	1PENT0022	A
Electrical Penetration	Viking	1PENT0023	A
Electrical Penetration	Viking	1PENT0026	A
Electrical Penetration	Viking	1PENT0031	A
Electrical Penetration	Viking	1PENT0006	A
Electrical Penetration	Viking	1PENT0010	A
Electrical Penetration	Viking	1PENT0012	A
Electrical Penetration	Viking	1PENT0015	A
Electrical Penetration	Viking	1PENT0034	A
Electrical Penetration	Viking	1PENT0037	A
Electrical Penetration	Viking	1PENT0040	A
Electrical Penetration	Viking	1PENT0003	A
Electrical Penetration	Viking	1PENT0009	A
Electrical Penetration	Viking	1PENT0014	A
Electrical Penetration	Viking	1PENT0017	A
Electrical Penetration	Viking	1PENT0018	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Electrical Penetration	Viking	1PENT0029	A
Electrical Penetration	Viking	1PENT0030	A
Electrical Penetration	Viking	1PENT0032	A
Electrical Penetration	Viking	1PENT0033	A
Electrical Penetration	Viking	1PENT0038	A
Electrical Penetration	Viking	1PENT0039	A
Electrical Penetration	Viking	1PENT0041	A
Electrical Penetration	Viking	1PENT0042	A
Electrical Penetration	Viking	1PENT0043	A
Electrical Penetration	Viking	1PENT0001	A
Electrical Penetration	Viking	1PENT0002	A
Electrical Penetration	Viking	1PENT0007	A
Valve Motor	Limitorque	1VMTR0035	A
Valve Motor	Limitorque	1VMTR0036	A
Valve Motor	Limitorque	1VMTR0014	A
Valve Motor	Limitorque	1VMTR0031	A
Valve Motor	Limitorque	1VMTR0043	A
Valve Motor	Limitorque	1VMTR0044	A
Valve Motor	Limitorque	1VMTR0052	A
Valve Motor	Limitorque	1VMTR0053	A
Valve Motor	Limitorque	1VMTR0054	A
Valve Motor	Limitorque	1VMTR0056	A
Valve Motor	Limitorque	1VMTR0057	A
Valve Motor	Limitorque	1VMTR0058	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Valve Motor	Limatorque	1VMTR0059	A
Valve Motor	Limatorque	1VMTR0060	A
Valve Motor	Limatorque	1VMTR0019	A
Valve Motor	Limatorque	1VMTR0020	A
Valve Motor	Limatorque	1VMTR0033	A
Valve Motor	Limatorque	1VMTR0034	A
Valve Motor	Limatorque	1VMTR0039	A
Valve Motor	Limatorque	1VMTR0040	A
Valve Motor	Limatorque	1VMTR0041	A
Valve Motor	Limatorque	1VMTR0064	A
Valve Motor	Limatorque	1VMTR0024	A
Valve Motor	Limatorque	1VMTR0037	A
Valve Motor	Limatorque	1VMTR0050	A
Valve Motor	Limatorque	1VMTR0029	A
Valve Motor	Limatorque	1VMTR0038	A
Pump Motor	Westinghouse	1PMTR0001	A
Pump Motor	Westinghouse	1PMTR0008	A
Pump Motor	Westinghouse	1PMTR0005	A
Pump Motor	Westinghouse	1PMTR0002	A
Pump Motor	Westinghouse	1PMTR0006	A
Pump Motor	Westinghouse	1PMTR0009	A
Pump Motor	Westinghouse	1PMTR0003	A
Pump Motor	Westinghouse	1PMTR0010	A
Cable	Raychem	1CBLE0150	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Raychem	1CBLE0151	A
Cable	Raychem	1CBLE0152	A
Cable	Raychem	1CBLE0153	A
Cable	Raychem	1CBLE0155	A
Cable	Raychem	1CBLE0156	A
Cable	Raychem	1CBLE0157	A
Cable	Raychem	1CBLE0158	A
Cable	Boston Insulated Wire	1CBLE0024	A
Cable	Boston Insulated Wire	1CBLE0062	A
Cable	Boston Insulated Wire	1CBLE0072	A
Cable	Boston Insulated Wire	1CBLE0407	A
Cable	Boston Insulated Wire	1CBLE0409	A
Cable	Boston Insulated Wire	1CBLE0411	A
Cable	Boston Insulated Wire	1CBLE0413	A
Cable	Boston Insulated Wire	1CBLE0415	A
Cable	Boston Insulated Wire	1CBLE0417	A
Cable	Boston Insulated Wire	1CBLE0419	A
Cable	Boston Insulated Wire	1CBLE0421	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Boston Insulated Wire	1CBLE0423	A
Cable	Boston Insulated Wire	1CBLE0433	A
Cable	Boston Insulated Wire	1CBLE0435	A
Cable	Boston Insulated Wire	1CBLE0437	A
Cable	Boston Insulated Wire	1CBLE0439	A
Cable	Boston Insulated Wire	1CBLE0441	A
Cable	Boston Insulated Wire	1CBLE0443	A
Cable	Boston Insulated Wire	1CBLE0445	A
Cable	Boston Insulated Wire	1CBLE0447	A
Cable	Boston Insulated Wire	1CBLE0449	A
Cable	Boston Insulated Wire	1CBLE0451	A
Cable	Boston Insulated Wire	1CBLE0457	A
Level Transmitter	Bailey	1LTRM0011	A
Level Transmitter	Bailey	1LTRM0012	A
Level Transmitter	Bailey	1LTRM0013	A
Cable	Raychem	1CBLE0263	A, Note 1
Cable	Raychem	1CBLE0264	A
Cable	Raychem	1CBLE0265	A

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Raychem	1CBLE0268	A
Cable	Raychem	1CBLE0269	A
Cable	Raychem	1CBLE0270	A
Cable	Raychem	1CBLE0273	A
Cable	Raychem	1CBLE0274	A
Cable	Raychem	1CBLE0275	A
Cable	Raychem	1CBLE0258	A
Cable	Raychem	1CBLE0259	A
Cable	Raychem	1CBLE0261	A, Note 1
Cable	Raychem	1CBLE0244	A, Note 1
Cable	Raychem	1CBLE0245	A, Note 1
Cable	Raychem	1CBLE0246	A, Note 1
Cable	Raychem	1CBLE0248	A, Note 1
Cable	Raychem	1CBLE0249	A, Note 1
Cable	Raychem	1CBLE0251	A, Note 1
Cable	Raychem	1CBLE0253	A, Note 1
Cable	Raychem	1CBLE0254	A, Note 1
Cable	Raychem	1CBLE0256	A, Note 1
Cable	Raychem	1CBLE0278	A, Note 1
Cable	Raychem	1CBLE0279	A, Note 1
Cable	Raychem	1CBLE0281	A, Note 1
Cable	Raychem	1CBLE0283	A, Note 1
Cable	Raychem	1CBLE0284	A, Note 1
Cable	Raychem	1CBLE0286	A, Note 1

APPENDIX C (Continued)

Equipment Description	Manufacturer	Item No.	Deficiency
Cable	Raychem	1CBLE0290	A, Note 1
Cable	Raychem	1CBLE0291	A, Note 1
Cable	Raychem	1CBLE0293	A, Note 1
Cable	Raychem	1CBLE0295	A, Note 1
Cable	Raychem	1CBLE0296	A, Note 1
Cable	Raychem	1CBLE0298	A, Note 1
Cable	Raychem	1CBLE0302	A, Note 1
Cable	Raychem	1CBLE0303	A, Note 1
Cable	Raychem	1CBLE0305	A, Note 1
Cable	Raychem	1CBLE0360	A, Note 1
Cable	Raychem	1CBLE0369	A, Note 1
Cable	Raychem	1CBLE0375	A, Note 1
Cable	Okonite	1CBLE0140	A, Note 1
Electrical Penetration	Viking	1PENT0008	A, Note 1

Note 1: The licensee has stated, in a phone conversation on January 7, 1981, that these components are qualified for one year; therefore, qualification time has not been listed as a deficiency. A later revision to the submittal will reflect this change.

APPENDIX D
Safety-Related Systems List¹

Function	System
Emergency Reactor Shutdown	Chemical Addition and Sampling
	Reactor Coolant
	Engineered Safeguards
	Reactor Protection
Containment Isolation	Chemical Addition and Sampling
	Reactor Building Ventilation
	Feedwater
	Component Cooling
	Low Pressure Service Water
	Main Steam
	High Pressure Injection
	Low Pressure Injection
	Reactor Building Spray
Reactor Core Cooling	Reactor Building Cooling
	Liquid Waste Disposal
	High Pressure Injection
	Low Pressure Injection
	Accumulators (Part of Reactor Coolant)

¹The NRC staff recognized that there are differences in nomenclature of systems because of plant vintage and engineering design; consequently, some systems performing identical or similar functions may have different names. In those instances, it was necessary to verify the function of the system(s) with the responsible IE regional reviewer and/or the licensee.

APPENDIX D (continued)

Function	System
Containment Heat Removal	Reactor Building Spray
	Reactor Building Cooling
	Reactor Building Ventilation
	Containment Sump Recirculation (Part of Liquid Waste Disposal)
Core Residual Heat Removal	Coolant Storage Quench Tank
	Residual Heat Removal (Part of Low Pressure Injection)
	Auxiliary Feedwater (Part of Feedwater)
	Pressurizer Spray ⁽¹⁾
	Power Operated Relief Valves ⁽¹⁾
	Main Steam
	Steam Dump (Part of Main Steam)
	Component Cooling
	Low Pressure Service Water
Prevention of Significant Release of Radioactive Material to Environment	Iodine Removal (Part of Reactor Building Spray)
	Containment Radiation Monitoring ⁽¹⁾
	Containment Combustible Gas Control ⁽¹⁾
	Containment Radiation Sampling ⁽¹⁾
	Containment Air Purification/Cleanup (Part of Reactor Building Ventilation)

APPENDIX D (Continued)

Function	System
Supporting Systems	Emergency Power ⁽²⁾ Safety Equipment Area Ventilation ⁽²⁾ Control Room Habitability ⁽²⁾

- Notes:
- (1) Covered as part of TMI-2 Lessons Learned; does not appear in systems lists.
 - (2) Electrical components in system not exposed to harsh environment.