

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 764

COLUMBIA, SOUTH CAROLINA 29218

O. W. DIXON, JR.  
VICE PRESIDENT  
NUCLEAR OPERATIONS

May 17, 1983

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

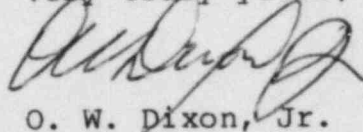
Subject: Virgil C. Summer Nuclear Station  
Docket No. 50/395  
Operating License No. NPF-12  
Environmental Qualification of  
Electric Equipment Important  
to Safety

Dear Mr. Denton:

As required by 10CFR50.49 published in the Federal Register/Volume 48, No. 15/Friday, January 21, 1983, South Carolina Electric and Gas Company (SCE&G) herein submits a list of electric equipment important to safety within the scope of the rule. In the attachment to our letter of February 19, 1982, SCE&G provided a summary of the qualification information for most of the equipment. In several letters since that date SCE&G has provided additional information regarding certain pieces of equipment. This letter summarizes the information previously submitted and provides SCE&G's schedule for qualification of the remaining pieces of equipment.

If you have any questions, please let us know.

Very truly yours,



O. W. Dixon, Jr.

CO:NEC:OWD/fjc

Attachment:

cc: V. C. Summer  
T. C. Nichols, Jr./O. W. Dixon, Jr.  
E. H. Crews, Jr.  
E. C. Roberts  
H. N. Cyrus  
J. P. O'Reilly  
Group/General Managers  
O. S. Bradham  
R. B. Clary  
C. A. Price  
A. R. Koon  
C. L. Ligon (NSRC)  
G. J. Braddick  
J. C. Miller  
J. L. Skolds  
J. B. Knotts, Jr.  
NPCF  
File (Lic./Eng.)

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PDR ADOCK 05000395  
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CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
AC	6" Motor Operated Gate Valve Operator	ROTORK	14NA1	XVG7502	1
				XVG7503	1
AC	6" Motor Operated Gate Valve Operator	ROTORK	14NA2	XVG7501	1
				XVG7504	1
AH	Limit Switches for Reactor Building Cooling Unit HEPA Filter Bypass Dampers	NAMCO	EA-180	XDP0110A	1
				XDP0110B	1
				XDP0111A	1
				XDP0111B	1
AH	Limit Switch for 36" Purge Line Isolation Valve	NAMCO	EA-180	XVB0001B	1
				XVB0002B	1
AH	Limit Switch for Air Damper	NAMCO	EA-180	XDP0012A	2
				XDP0012B	2
				XDP0013A	2
				XDP0013B	2
AH	Damper Actuator Solenoid Valve for Reactor Building Cooling Unit HEPA Bypass Damper	ASCO	206-381-7F	XDP0110A	1
				XDP0110B	1
				XDP0111A	1
				XDP0111B	1
AH	Reactor Building Cooling Unit Fan Emergency Motor	RELIANCE	5003UCZ	MFN0097A	1
				MFN0097B	1
				MFN0097C	1
				MFN0097D	1

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AH	Solenoid Valve for 36" Purge Line Isolation Valve	ASCO	NP-8316	XVB0001B XVB0002B	1 1
AH	Solenoid Valves for Air Dampers	ASCO	NP-8320	XDP0012A XDP0012B XDP0013A XDP0013B	2 2 2 2
BD	3" Air Operated Gate Valve Solenoid	ASCO	NP-8316	XVG503A XVG503B XVG503C	1 1 1
BD	3" Air Operated Gate Valve Limit Switch	NAMCO	EA-180	XVG503A XVG503B XVG503C	1 1 1
CC	8" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-5	XVG9605	1
CC	4" Air Operated Gate Valve Solenoid	ASCO	NP-8316	XVG9627A XVG9627B	1 1
CC	8" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-5	XVG9568 XVG9606	1 1
CC	3" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-2	XVG9600	2
CC	8" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-5	XVG9625 XVG9626	2 2

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
CC	16" Motor Operated Butterfly Valve Operator	LIMITORQUE	SMB0005/H2BC	XVB9526B	1
				XVB9687B	1
				XVB9526A	1
				XVB9687A	1
CC	20" Motor Operated Butterfly Valve Operator	LIMITORQUE	SMB0005/H2BC	XVB9503A	1
				XVB9503B	1
CC	16" Motor Operated Butterfly Valve Operator	LIMITORQUE	SMB0005/H2BC	XVB9524A	2
				XVB9524B	2
				XVB9525A	2
				XVB9525B	2
CC	Component Cooling Water Pump Motor	WESTINGHOUSE LRA	PAM/3840 Frame	MPP0001A	1
				MPP0001B	1
				MPP0001C	1
CC	Component Cooling Water Flow To Reactor Coolant Pump Bearings	ROSEMOUNT	1153DA4	IFT7263A	2
				IFT7263B	2
CC	Component Cooling Water Surge Tank Level Transmitters	ROSEMOUNT	1152DP4	ILT7092	1
				ILT7094	1
CC	Component Cooling Water Flow To Reactor Cooling Pump Thermal Barriers	ROSEMOUNT	1153DA4	IFT7273A	2
				IFT7273B	2

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
CC	4" Air Operated Gate Valve Limit Switch	NAMCO	EA-180	XVG9627A XVG9627B	1 1
CI	RTD, Reactor Building Temperature	PYCO	122-1010	ITE9201 ITE9203	1 1
CS	2" Globe Valve Motor Operator	LIMITORQUE	SMB-00-10	XVT8104 XVT8109A XVT8109B XVT8109C XVT8100	1 1 1 1 1
CS	4" Gate Valve Motor Operator	LIMITORQUE	SB-00	LCV115C LCV115E	1 1
CS	8" Gate Valve Motor Operator	LIMITORQUE	SB-00	LCV115B LCV115D	1 1
CS	1-1/2" Globe Valve Motor Operator	LIMITORQUE	SMB-00-10	XVT8102A XVT8102B XVT8102C	1 1 1
CS	8" Gate Valve Motor Operator	LIMITORQUE	SB-00	XVG8130A XVG8130B XVG8131A XVG8131B	1 1 1 1

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CS	4" Gate Valve Motor Operator	LIMITORQUE	SB-00	XVG8132A	1
				XVG8132B	1
				XVG8133A	1
				XVG8133B	1
CS	3" Gate Valve Motor Operator	LIMITORQUE	SB-00	XVG8106	1
				XVG8107	1
				XVG8108	1
CS	2" Globe Valve Motor Operator	LIMITORQUE	SMB-00-10	XVT8112	1
CS	3" Globe Valve Solenoid	ASCO	NP-831654V	XVT8152	1
CS	2" Globe Valve Solenoid	ASCO	NP-831654V	XVT8149A	1
				XVT8149B	1
				XVT8149C	1
CS	Stem Mounted Limit Switch	NAMCO	EA-180	XVT8152	1
CS	Charging Pump Motor	WESTINGHOUSE	6809	XPP0043A	1
				XPP0043B	1
				XPP0043C	1
CS	Safety Injection Pump Transfer Switch	TERAC GOULD	HPL-C	XET2002C	1

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
CS	Boric Acid Tank Level Transmitter	BARTON	752	ILT106	2
				ILT108	2
				ILT161	2
				ILT163	2
EF	6" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00-5	XVG1001A	1
				XVG1001B	1
EF	8" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-5	XVG1002	1
				XVG1008	1
				XVG1037A	1
				XVG1037B	1
EF	Emergency Feedwater Pump Flow Control Valve Solenoid	ASCO	WP-HVA-206-381-3RVU	IFV3531	1
				IFV3536	1
				IFV3541	1
				IFV3546	1
				IFV3551	1
				IFV3556	1
EF	4" Swing Check Valve Solenoid	ASCO	206-381-3F	XVC1009A	2
				XVC1009B	2
				XVC1009C	2
EF	Emergency Feedwater Pump Motor	GENERAL ELECTRIC	K Horizontal	MPP0021A	1
			Frame 8311Z	MPP0021B	1
			5K831155C7		
			5K831155C8		

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
EF	Motor Driven Emergency Feedwater Pump Discharge Header Flow	ROSEMOUNT	1153DA5	IFT3531	1
				IFT3551	1
				IFT3541	1
EF	Emergency Feedwater to Steam Generator Flow	ROSEMOUNT	1153DA4	IFT3561	1
				IFT3571	1
				IFT3581	1
EF	Emergency Feedwater to Steam Generator A Flow	ROSEMOUNT	1153DA5	IFT3561A	1
EF	Emergency Feedwater to Steam Generator B Flow	ROSEMOUNT	1153DA5	IFT3571A	1
EF	Emergency Feedwater to Steam Generator C Flow	ROSEMOUNT	1153DA5	IFT3581A	1
ES	Motor Control Center	SQUARE D	Model 4	XMC1DA2Y	2
ES	Valve Canister Penetration	D.G. O'BRIEN	Valve Container, 1-1SC #4	XRP0100A	1
				XRP0100B	1
				XRP0101A	1
				XRP0101B	1
ES	Outside Containment Plugs	D.G. O'BRIEN	T/Model C-32 Plugs Valve Canister Penetrator	XRP0100A	1
				XRP0100B	1
				XRP0101A	1
				XRP0101B	1



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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
ES	Electrical Penetration	D.G. O'BRIEN	Low Voltage	XRP0007	1
			Power/Control	XRP0010	1
			Components	XRP0011	1
			With Exception	XRP0014	1
			of C-32 Plugs	XRP0017	1
				XRP0028	1
	XRP0030	1			
ES	Electrical Penetration	D.G. O'BRIEN	Instrumentation	XRP0035	1
			Components	XRP0036	1
			With Exception	XRP0043	1
			of C-32 Plugs	XRP0044	1
				XRP0045	1
				XRP0046	1
				XRP0048	1
	XRP0051	1			
ES	Electrical Penetration Plugs Outside Containment	D.G. O'BRIEN	C-32 Plugs	XRP0010	1
			Low Voltage	XRP0011	1
			Power Control	XRP0017	1
				XRP0028	1
				XRP0030	1
ES	Electrical Penetration Plugs Outside Containment	D.G. O'BRIEN	C-32 Plugs	XRP0035	1
			Instrumentation	XRP0036	1
				XRP0043	1
				XRP0044	1
				XRP0045	1
				XRP0046	1
				XRP0048	1
	XRP0051	1			

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
ES	Electrical Penetration Triax Connectors	D.G. O'BRIEN	Triax Connector	XRP0043	2
			Module M06	XRP0044	2
			Plug R191010G04	XRP0045	2
				XRP0046	2
		D.G. O'BRIEN	Triax Connector (Victoreen High Range Monitor)	XRP0051A	4
ES	Power Transfer and Motor Control Panel for Charging Pump C Auxiliaries	FIELD FABRICATED		XPN0040	2
ET	Isolation Fuses In Heat Tracing Panels	GOULD/SHAWMUT FUSES	N/A	XPN2005	1
				XPN2006	1
				XPN2007	1
				XPN2008	1
				XPN2009	1
				XPN2010	1
ET	Isolation Fuse Blocks in Heat Tracing Panels	BRYANT ELECTRIC	1917 3929	XPN2005	4
				XPN2006	4
				XPN2007	4
				XPN2008	4
				XPN2009	4
				XPN2010	4

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FS	4" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-5	XVG6797	2
FW	Feedwater Flow DP Transmitter	BARTON	752	IFT0476	2
				IFT0477	2
				IFT0486	2
				IFT0487	2
				IFT0496	2
				IFT0497	2
FW	3" Air Operated Globe Valve Solenoid	ASCO	NP-8316	XVT1678A	1
				XVT1678B	1
				XVT1678C	1
FW	1-1/2" Motor Operated Valve Operator	LIMITORQUE	SMB-00	XVT1633A	1
				XVT1633B	2
				XVT1633C	2
FW	18" Air-Hydraulic Globe Valve Solenoid	SKINNER	V5H61	XVG1611A	1
				XVG1611B	1
				XVG1611C	1
FW	3" Air Operated Globe Valve Limit Switch	NAMCO	EA-180	XVT1678A	1
				XVT1678B	1
				XVT1678C	1
FW	18" Air-Hydraulic Globe Valve Limit Switch	NAMCO	EA-180	XVG1611A	1
				XVG1611B	1
				XVG1611C	1

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
HR	Hydrogen Recombiner	WESTINGHOUSE	--	XHR0004A XHR0004B	1 1
HR	Hydrogen Recombiner Control Panels and Power Supply	WESTINGHOUSE	-----	XPN0049A XPN0049B XPN0050A XPL0050B	2 2 2 2
HR	6" Air Operated Gate Valve Solenoid	ASCO	NP-8316	XVG6056	1
HR	6" Purge Isolation Valve Solenoid	ASCO	NP-8316	XVG6066 XVG6067	1 1
HR	Post Accident Hydrogen Removal System Isolation Solenoid Valves	VALCOR	V526-5292-20	XVX6050A XVX6050B XVX6051A XVX6051B XVX6051C XVX6052A XVX6053A XVX6054	1 1 1 1 1 1 1 1
HR	Reactor Building Wide Range Pressure	ROSEMOUNT	1152AP7	IPT0954A	1
HR	Narrow Range Containment Pressure Transmitter	BARTON	752	IPT950 IPT953	2 2

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<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
HR	6" Air Operated Gate Valve Limit Switch	NAMCO	EA-180	XVG6056	1
HR	6" Purge Isolation Valve Limit Switch	NAMCO	EA-180	XVG6066 XVG6067	1 1
HR	Reactor Building Hydrogen Analyzer Panel and Remote Control Panel	COMSIP, INC.	KIII	XPN7215A XPN7258A XPN72588	2 2 2
IA	6" Air Operated Globe Valve Solenoid	ASCO	NP-8316	XPN2662B XPN2662A	1 1
IA	2" Air Operated Globe Valve Solenoid	ASCO	NP-8323	XVT2660	1
IA	6" Air Operated Globe Valve Limit Switch	NAMCO	EA-180	XVT2662B XVT2662A	1 1
IA	2" Air Operated Glove Valve Limit Switch	NAMCO	EA-180	XVT2660	1
LD	Electronic Transmitter, Reactor Building RHR Sump Level	ROSEMOUNT	01153-0022-0001	ILT1969 ILT1970	1 1
LD	Electronic Transmitter, Reactor Building Level	ROSEMOUNT	01153-0022-0001	ILT1975 ILT1976	1 1

CLASS 1E EQUIPMENT  
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<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
MS	Steam Generator Level Narrow Range DP Trnasmitters	BARTON		ILT0474	1
				ILT0475	1
				ILT0476	1
				ILT0484	1
				ILT0485	1
				ILT0486	1
				ILT0494	1
				ILT0495	1
MS	First Stage Turbine Pressure Transmitter	BARTON	752	IPT446	2
				IPT447	2
MS	Steam Flow DP Transmitter	BARTON		IFT0474	2
				IFT0475	2
				IFT0484	2
				IFT0485	2
				IFT0494	2
				IFT0495	2

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<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
MS	Steam Pressure Transmitter	BARTON		IPT0474	1
				IPT0475	1
				IPT0476	1
				IPT0484	1
				IPT0485	1
				IPT0486	1
				IPT0494	1
				IPT0495	1
				IPT0496	1
MS	Control Solenoid	ASCO	WP-HVA-206-381-3RVU	IFV2030	1
MS	32" Air Operated Isolation Valve Solenoid	ALLIED	321X-21	XVM2801A	1
				XVM2801B	1
				XVM2801C	1
MS	4" Air Operated Globe Valve Solenoid	ASCO	NP-8316	XVT2869A	1
				XVT2869B	1
				XVT2869C	1
MS	4" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00	XVG2802A	1
				XVG2802B	1
MS	1-1/2" Air Operated Globe Valve Solenoid	ASCO	NP-8323	XVT2843A	1
				XVT2843B	1
				XVT2843C	1
				XVT2877A	1
				XVT2877B	1

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
MS	Steam Generator Power Relief Control Solenoid Valve	ASCO	WP-HVA-206-381- 3RVU	IPV2000	1
				IPV2010	1
				IPV2020	1
MS	32" Air Operated Isolation Valve Limit Switch	NAMCO	EA-740	XVM2801A	1
				XVM2801B	1
				XVM2801C	1
MS	4" Air Operated Glove Valve Limit Switch	NAMCO	EA-180	XVT2869A	1
				XVT2869B	1
				XVT2869C	1
MS	1-1/2" Air Operated Globe Valve Limit Switch	NAMCO	EA-180	XVT2843A	1
				XVT2843B	1
				XVT2843C	1
				XVT2877A	1
				XVT2877B	1
ND	3" Air Operated Diaphragm Valve Solenoid	ASCO	206-381-3RFV NP-1	XVD6242A	1
				XVD6242B	1
ND	3" Air Operated Diaphragm Valve Limit Switch	NAMCO	EA-180	XVD6242A	1
				XVD6242B	1
NI	Power Range Neutron Detector	WESTINGHOUSE	Dual Section Ionization Chamber	NC-41	2
				NC-42	2
				NC-43	2
				NC-44	2



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RC	Narrow Range Resistance Temperature Detector	RdF		ITE0412A	5
				ITE0412B	5
				ITE0412C	5
				ITE0412D	5
				ITE0422A	5
				ITE0422B	5
				ITE0422C	5
				ITE0422D	5
				ITE0432A	5
				ITE0432B	5
				ITE0432C	5
				ITE0432D	5
				RC	Wide Range Resistance Temperature Detector
ITE0413/ 0413A	1				
ITE0420/ 0420A	1				
ITE0423/ 0423A	1				
ITE0430/ 0430A	1				
ITE0433/ 0433A	1				

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RC	Reactor Coolant Flow DP Transmitter	BARTON	752	IFT0414	2
				IFT0415	2
				IFT0416	2
				IFT0424	2
				IFT0425	2
				IFT0426	2
				IFT0434	2
				IFT0435	2
				IFT0436	2
RC	Pressurizer Pressure Transmitter	BARTON		IPT0455	1
				IPT0456	1
				IPT0457	1
RC	Pressurizer Level DP Transmitter	BARTON		IPT0459	1
				IPT0460	1
				IPT0461	1
RC	Reactor Coolant System Wide Range Pressure Transmitter	BARTON		IPT0402	1
RC	Reactor Coolant System Wide Range Pressure Transmitter	VERITRAK		IPT0403	3
RC	1" Diaphragm Valve Limit Switch	NAMCO	EA-180	XVD8047	1

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RC	1" Diaphragm Valve Solenoid	ASCO	NP-831654V	XVD8047	1
RC	Diaphragm Valve Solenoid	ASCO	NP-831654V	XVD8033 XVD8028	1 1
RC	2" Motor Operated Globe Valve Operator	LIMITORQUE	SMB-00	XVT8095A XVT8095B XVT8096A XVT8096B	1 1 1 1
RC	Stem Mounted Limit Switch	NAMCO	EA-180	XVD8033 XVD8028	1 1
RC	3" Diaphragm Valve Limit Switch	NAMCO	EA-180	PCV444B PCV445A PCV445B	1 1 1
RC	3" Diaphragm Valve Solenoid	ASCO	NP-831654V	PCV444B PCV445A PCV445B	1 1 1
RH	8" Gate Valve Motor Operator	LIMITORQUE	SB-00	XVG8706A XVG8706B	1 1

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RH	2" Globe Valve Motor Operator	LIMITORQUE	SMB-00-10	FCV602A FCV602B	1 1
RH	12" Gate Valve Operator	LIMITORQUE	SB-2	XVG8701A XVG8701B XVG8702A XVG8702B	1 1 1 1
RH	RHR Pump Motor	WESTINGHOUSE	5008	XPP0031A XPP0031B	1 1
RH	Stem Mounted Limit Switch	NAMCO	EA-180	XVG8706A XVG8706B	1 1
RH	12" Gate Valve Limit Switch	NAMCO	EA-180	XVG8701B XVG8702A	1 1
RM	Containment High Range Area Monitor Detector	VICTOREEN	877-1 With Connector and Cable	RMG0018	1
SI	3" Gate Valve Motor Operator	LIMITORQUE	SB-00	XVG8884 XVG8885 XVG8886	1 1 1

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SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
SI	14" Gate Valve Motor Operator	LIMITORQUE	SB-2	XVG8811A	1
				XVG8811B	1
				XVG8812A	1
				XVG8812B	1
				XVG8809A	1
				XVG8809B	1
SI	12" Gate Valve Motor Operators	LIMITORQUE	SBD-3	XVG8808A	2
				XVG8808B	2
				XVG8808C	2
SI	10" Gate Valve Motor Operator	LIMITORQUE	SB-1	XVG8887A	1
				XVG8887B	1
SI	10" Gate Valve Motor Operator	LIMITORQUE	SBD-3	XVG8888A	1
				XVG8888B	1
				XVG8889	1
SI	3" Gate Valve Motor Operated	LIMITORQUE	SB-00	XVG8801A	1
				XVG8801B	1
				XVG8803A	1
				XVG8803B	1
SI	3/4" Globe Valve Solenoid	ASCO	NP-831654V	XVT8871	1
SI	1" Globe Valve Solenoid	ASCO	NP-831654V	XVT8880	1
				XVT8860	1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
SI	14" Gate Valve Limit Switch	NAMCO	EA-180	XVG8809A XVG8809B	1 1
SI	3/4" Globe Valve	ASCO	NP-831654V	XVT8961	1
SI	Stem Mounted Limit Switch	NAMCO	EA-180	XVT8880 XVT8860 XVT8961	1 1 1
SI	3/4" Glove Valve Limit Switch	NAMCO	EA-180	XVT8871	1
SP	10" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00-15	XVG3003A XVG3003B	1 1
SP	12" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-005-10	XVG3001A XVG3001B	1 1
SP	3" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-000-2	XVG3002A XVG3002B	1 1
SP	12" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00-5	XVG3004A XVG3004B XVG3005A XVG3005B	1 1 1 1
SP	Reactor Building Spray Pump Motor	GENERAL ELECTRIC	K Horizontal Frame 8210S 5K 821055C44	MPP0038A MPP0038B	1 1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
SP	Reactor Building Spray Pump Discharge Flow	ROSEMOUNT	1153DA4	IFT7368 IFT7378	1 1
SE	1" Air Operated Ball Valve Solenoid	ASCO	NP8321A5E	XVA9311A XVA9312A XVA9311B XVA9312B	1 1 1 1
SS	Nuclear Sampling System Isolation Solenoid Valves	VALCOR	V526-5293-6	XVX9356A XVX9356B XVX9339 XVX9364B XVX9364C XVX9357 XVX9365B XVX9365C XVX9387 XVX9398A XVX9398B XVX9398C	1 1 1 1 1 1 1 1 1 1 1 1
SS	1" Air Operated Ball Valve Limit Switch	NAMCO	EA-180	XVA9311A XVA9312A XVA9311B XVA9312B	1 1 1 1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
SW	16" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00-15	XVG3103A XVG3107A	1 1
SW	12" Motor Operated Gate Valve Operator	LIMITORQUE	SMB-00-10	XVG3111A XVG3112A	1 1
SW	2" Air Operated Globe Valve Solenoid	ASCO	NP8323	XVT3164 XVT3165 XVT3169	1 1 1
SW	16" Motor Operated Butterfly Valve Operator	LIMITORQUE	SMB002/H2BC	XVB3106A	1
SW	12" Motor Operated Butterfly Valve Operator	LIMITORQUE	SMB0002/H0BC	XVB3110A	1
SW	Service Water Booster Pump Motor	LOUIS ALLIS	COG5B/449TS Frame	MPP0045A MPP0045B	2 2
SW	RTD, Service Water Temperature Out Of Reactor Building Cooling Units	PYCO	122-4030	ITE4467	1
SW	Service Water Booster Pump Discharge Flow	ROSEMOUNT	1153DA4	IFT4466 IFT4496	1 1
SW	2" Air Operated Globe Valve Limit Switch	NAMCO	EA-180	XVT3164 XVT3165 XVT3169	1 1 1



CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
VL	Emergency Feedwater Pump Area Coolig Unit Fan Motor	RELIANCE	TEAO	XFN0083A XFN0083B	2 2
VL	Service Water Booster Pump Area Cooling Unit Fan	RELIANCE	TEAO	XFN0081A XFN0081B	2 2
VL	RHR/Spray Pump From Cooling Unit Fan Motor	RELIANCE	TEAO	XFN0049A XFN0049B	1 1
VL	Charging Pump Room Cooling Unit Fan Motor	RELIANCE	TEAO	XFN0046A XFN0046B XFN0047	1 1 1
VL	Auxiliary Building Motor Control Center and Switch- gear Air Handling Unit Fan Motor	RELIANCE	TEAO	XFN0132	2
VU	2" Air Operated Globe Valve Solenoid	ASCO	NP8323	XVT6384A XVT6384B XVT6385A XVT6385B	1 1 1 1
VU	Air Operated Globe Valve Limit Switches	NAMCO	EA-180	XVT6384A XVT6384B XVT6385A XVT6385B	1 1 1 1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
WL	3" Globe Valve Solenoid	ASCO	206-381-6RVU NP-831654V	LCV1003 XVD7136	1 1
WL	3/4" Globe Valve Solenoid	ASCO	NP-831654V	XVD7126 XVD7150	1 1
WL	3/4" Globe Valve Limit Switch	NAMCO	EA-180	XVD7126 XVD7150	1 1
WL	3" Globe Valve Limit Switch	NAMCO	EA-180	XVD7136	1
-	600 Volt Control Cable	ROCKBESTOS	Firewall III	EK-B3(*)	1
-	600 Volt Control Cable	KERITE	FR-FR	EK-B1(*)	1
-	600 Volt Power Cable	KERITE	HT-FR	EK-A2(*) EK-A3(*)	1 1
-	Special Instrument Cable	OKONITE	Okozel	EK-C6,A,B, C, (*)	1
-	Instrument Cable	SAMUEL MOORE	EPDM - HYPALON (3D and 3J)	EK-C1(*)	1
-	8 KV Power Cable	OKONITE	EPR - HYPALON	EK-A1(*)	1
-	Triaxial Cable	BOSTON INSULATED WIRE	XLPE-TEFZEL XLPE-HYPALON	EK-C2A(*) EK-C2B(*)	2 2

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

<u>SYS</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>TYPE/MOD NUMBER</u>	<u>TAG NUMBER</u>	<u>QUALIFIED</u>
-	Switchboard Wire	ROCKBESTOS	Firewall SIS	EK-J9(*)	1
-	2/C #18 Twinax Cable	BRAND REX	TCD95285	EK-C12B(*)	1
		ROCKBESTOS	RSS-6-112	EK-J9C(*)	2
-	Switchboard Wire	RAYCHEM	Flamtrol	EK-J2(*)	1
-	Heat Tracing	RAYCHEM	10PTV1	EK-H1(*)	1
-	Miscellaneous Connectors	D.G. O'BRIEN	C39P0001-G01 C42P5008G-G01	EL-44AA(*)	1 1
-	Low Voltage Power Terminations				
	Sleeve	RAYCHEM	WCSP-N	EK-I9A, 20A, 21A(*)	1
	Motor Termination Kit	RAYCHEM	N-MCK	EK-121B, 21C(*)	1
	Kerite Splice	KERITE	S-2NS-NUC	EK-I4B(*) EK-I8A(*) EK-I5A(*) EK-I4C(*)	1 1 1 1
	Terminal Blocks	STATES	ZWM	EN-6 (*) EN-74(*)	1 1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
-	8 KV Cable Terminations				
	Terminal Insulating Material				
	Insulating Tape	OKONITE	T95	EKI3A9(*)	1
	Jacketing Tape	OKONITE	T35	EKI3B(*)	1
	Cement	OKONITE	604-45-8104	EKI3C(*)	1
-	8 KV Cable Terminations				
	For Component Cooling Water Pump Motor	RAYCHEM	Thermofit HVT-CBN	EKI2E(*)	1
	For Charging Pump Motor and Transfer Switch	RAYCHEM	Thermofit HVT-CBN	EKI2E(*)	1
	For Emergency Feedwater Pump	RAYCHEM	Thermofit HVT-CBN	EKI2E(*)	1
	For Spray Pump Motor	RAYCHEM	Thermofit HVT-CBN	EKI2E(*)	1

CLASS 1E EQUIPMENT  
SUBJECT TO HARSH ENVIRONMENTAL CONDITIONS

SYS	EQUIPMENT DESCRIPTION	MANUFACTURER	TYPE/MOD NUMBER	TAG NUMBER	QUALIFIED
-	Control Cable Terminations Splicing Sleeve	RAYCHEM	WCSF-N	EKI9A (*) EK120A(*)	1 1
	Cable Breakout Type V Stub Connection Splice Kits	RAYCHEM RAYCHEM	302A812-52 NPKV	EK19B (*) EK-I20B, 20C(*)	1 1 1
	AMP Connectors	AMP	36906 321280	EK-J1(*)	1
	Terminal Blocks	STATES	ZWM	EN-6 (*) EN-74(*)	1 1
-	Instrument Cable Terminations	RAYCHEM	WCSF-N	EK-I9A(*) EK-I20A(*) EK-I21A(*)	1 1 1

\* Bill of Material Number

1. Qualified. See Revision 4 of Virgil C. Summer Nuclear Station, Environmental Qualification of Safety Related Electrical Equipment per NUREG 0588 provided February 19, 1982.
2. Exempt from Qualification. See document described in (1) above.
3. Qualified. Information provided November 3, 1982.
4. Qualified. Information provided September 29, 1982.
5. Qualified. Information provided July 23, 1982.

## EQUIPMENT WHOSE QUALIFICATION IS INCOMPLETE

### 1. Reactor Vessel Level Indication System (RVLIS)

As discussed in our letter of March 8, 1983, the Westinghouse RVLIS system installed has been approved by the Staff as documented in Generic Letter 82-28. Westinghouse has recently provided South Carolina Electric and Gas Company (SCE&G) the test reports documenting the IEEE 323-1974 harsh environment qualification for the Barton Model 581 Hydraulic Isolators, the Barton Model 353 High Volume Sensors and the MINCO Model S8809 and S8810 RTDs which are installed. The review, acceptance and placement of the test reports in the equipment qualification file will be complete by the end of the second refueling outage after March 31, 1982 or by March 31, 1985 whichever is earlier.

### 2. Pressurizer Safety Valve Position Indication Switches

As discussed in our letter of September 29, 1982, prototype switches have successfully completed all phases of environmental qualification testing up to the LOCA/MSLB. The vendor, Crosby Valve, is developing a retest schedule. The retest and submittal of the test report by the vendor and the review, acceptance and placement of the documentation in the equipment qualification file by SCE&G will be complete by the end of the second refueling outage after March 31, 1982 or by March 31, 1985 whichever is earlier.

### 3. Core Subcooling Monitor System

As discussed in our letter of March 8, 1983, availability of qualified incore thermocouple connectors, cable and other required hardware is being investigated. Hardware procurement and delivery limitations prohibit installation prior to our estimated first refueling outage. When the equipment is procured, the qualification documentation will be obtained, reviewed, approved and placed in the equipment qualification file. This will be complete by the end of the second refueling outage after March 31, 1982 or by March 31, 1985 whichever is earlier.