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**RESPONSE TO IE BULLETIN 79-01B
QUAD CITIES
NUCLEAR POWER STATION
UNITS 1 AND 2**

Volume 2

REGULATORY DOCKET FILE COPY

Docket # 50-237
Control # 830 5250377
Date 5-19-83 of Document
REGULATORY DOCKET FILE

Commonwealth Edison

APPENDIX D.1

QUAD CITIES UNIT 1 AND COMMON
COMPONENT EVALUATION WORKSHEETS
SORTED BY SYSTEM

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 1
 Revision 2
 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR PROTECTION Plant I.D. Number: TE-1-1291-60A THRU H Component: TEMPERATURE ELEMENT Manufacturer: MINCO (FOR PANALARM) Model Number: S51-1-103 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	1 MINUTE	NOT REQD.	REF. (A)			
	Temperature (°F)	217	500	REF. (B)	REF. (C)		
	Pressure (PSIA)	17.0	500	REF. (B)	REF. (C)		
	Relative Humidity (%)	100		REF. (D)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4		REF. (E)			SEE NOTE (1)
	Aging	5.4 EO6 RADS		REF. (F)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THESE TEMPERATURE SWITCHES ARE USED FOR LEAK DETECTION IN THE REACTOR WATER CLEAN-UP ROOMS. CONDITIONS ARE NORMALLY NON-HARSH. IMMEDIATELY FOLLOWING A LEAK, THE TEMPERATURE WILL INCREASE. AS SOON AS THE LEAK OCCURS THE SWITCHES WILL FUNCTION ACTUATING AN ALARM TO INITIATE SYSTEM ISOLATION. THIS WILL OCCUR WITHIN 1 MINUTE.	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984. THESE RESISTANCE TEMPERATURE DETECTORS ARE MANUFACTURED BY MINCO UNDER A CONTRACT FOR PANALARM (SCAM INSTRUMENTS).

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>B. BECHTEL LETTER OF 03-04-83 (CHRON 6958) C. PANALARM DWG. 77100-RTD-2B D. FSAR SECTION 10.10 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>MODEL S51-1-103 IS DESIGNED TO OPERATE IN A TEMPERATURE RANGE OF -328 TO +500F. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <ul style="list-style-type: none">A. THE DESIGN TEMPERATURE RANGE OF THIS INSTRUMENT ENVELOPES THE ACCIDENT CONDITIONS.B. THE ACTUAL RADIATION EXPOSURE OF THE DEVICES FOR ACCIDENT CONDITIONS IS BELOW THE RADIATION DAMAGE THRESHOLD OF THE MOST SUSCEPTIBLE SUBCOMPONENT.C. THE ANNUNCIATION FUNCTION IS COMPLETE PRIOR TO EXPOSURE TO A HARSH ENVIRONMENT SUBSEQUENT FAILURE OF THIS EQUIPMENT WOULD NOT MISLEAD THE OPERATOR.D. ALTERNATE MEANS OF LEAK DETECTION ARE AVAILABLE UTILIZING EXISTING PRESSURE, TEMPERATURE, AND FLOW INSTRUMENTS AND ALARMS IN THE RWCU SYSTEM; AUTOMATIC ISOLATION FOR HIGH NONREGENERATIVE HEAT EXCHANGER OUTLET TEMPERATURE WHICH WOULD RESULT IF A BREAK SHOULD OCCUR; AREA RADIATION MONITORS; AND REACTOR BUILDING SUMP PUMP OPERATION.

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 3
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60A Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	3.6 E06 RADS
Location RWCU PHASE SEPARATOR TANK ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60B Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	3.6 E06 RADS
Location RWCU PHASE SEPARATOR TANK ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

G-0858-03

Owner: COMMONWEALTH EDISON
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 4
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60C Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	5.4 E06 RADS
Location RWCU HEAT EXCHANGER ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60D Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	5.4 E06 RADS
Location RWCU HEAT EXCHANGER ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 5
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60E Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	5.4 E06 RADS
Location RWCU HEAT EXCHANGER ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60F Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	1.8 E04 RADS
Location RWCU PUMP A ROOM Elevation 623'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

G-0858-03

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 6
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60G Component: TEMPERATURE ELEMENT	Temperature (°F)	217
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	17.0
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	<1.0 EO4
Accuracy: Spec: NA Demo: NA	Aging	1.8 EO4 RADS
Location RWCU PUMP B ROOM	Submergence	NA
Elevation 623'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR PROTECTION	Operating Time	1 MINUTE
Plant I.D. Number: TE-1-1291-60H Component: TEMPERATURE ELEMENT	Temperature (°F)	104
Manufacturer: MINCO (FOR PANALARM)	Pressure (PSIA)	14.7
Model Number: S51-1-103	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: LEAK DETECTION FOR RWCU ROOM	Radiation (Rad)	NA
Accuracy: Spec: NA Demo: NA	Aging	RADS
Location HALLWAY	Submergence	NA
Elevation 623'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 7
 Revision 2
 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: FS-1-1464A,B Component: FLOW SWITCH Manufacturer: BARTON Model Number: 289 Purchase Order Number: GE- SPEC 21A1146P4 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.7 E05		REF. (A)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2 E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO THE PARAMETERS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA FOR RADIATION IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON-

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>A. THESE SWITCHES CONTROL THE MINIMUM FLOW VALVE IN THE CORE SPRAY SYSTEM. FAILURE OF THESE SWITCHES, EITHER CLOSING OR OPENING THE MINIMUM FLOW VALVE, WILL NOT RESULT IN FAILURE OF THE CORE SPRAY SYSTEM TO DELIVER THE REQUIRED MINIMUM FLOW TO THE CORE.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 9
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: FS-1-1464A Component: FLOW SWITCH	Temperature (°F)	114
Manufacturer: BARTON	Pressure (PSIA)	14.7
Model Number: 289	Relative Humidity (%)	100
Purchase Order Number: GE- SPEC 21A1146P4 Function/Service: OPENS VALVE MO-1-1402-38A ON LOW FLOW	Chemical Spray	NA
	Radiation (Rad)	<1.0E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-30A NW CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: FS-1-1464B Component: FLOW SWITCH	Temperature (°F)	114
Manufacturer: BARTON	Pressure (PSIA)	14.7
Model Number: 289	Relative Humidity (%)	100
Purchase Order Number: GE- SPEC 21A1146P4 Function/Service: OPENS VALVE MO-1-1402-38B ON LOW FLOW	Chemical Spray	NA
	Radiation (Rad)	1.7 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-30B SW CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 10
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: FT-1-1461A,B Component: FLOW TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: 4532K-43001 TYPE 553 Purchase Order Number: GE-A9148 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.7 E05	2.75 E06	REF. (A)	REF. (E)		
	Aging	NA		REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2 E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 11
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: FT-1-1461A Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 4532K-43001 TYPE 553 Purchase Order Number: GE-A9148	Relative Humidity (%)	100
Function/Service: PUMP 1-1401A DISCHARGE FLOW SENDS SIGNAL TO FS-1-1464A	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.0 E06
Location RACK 2201-30A NW CORNER ROOM Elevation 554'0"	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: FT-1-1461B Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 4532K-43001 TYPE 553 Purchase Order Number: GE-A9148	Relative Humidity (%)	100
Function/Service: PUMP 1-1401B DISCHARGE FLOW SENDS SIGNAL TO FS-1-1464B	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.7 E05
Location RACK 2201-30B SW CORNER ROOM Elevation 554'0"	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 12
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: MO-1-1402-24A, B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-2-40 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	104	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E05	2.0 E07	REF. (A)	REF. (B)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO. 600461-BO003, QUALIFICATION TYPE TEST REPORT - LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. C. FSAR SECTION 10.10 D. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED TO BE NOT REQUIRED. THE DISCONNECTION OR REPLACEMENT OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984.

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 13
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-24A Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-2-40	Temperature (°F)	104
Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: PUMP 1-1401A DISCHARGE SHUTOFF VALVE	Pressure (PSIA)	14.7
Accuracy: Spec: NA Demo: NA	Relative Humidity (%)	100
Location 8'9" W OF COL. J 10'1" S OF COL. 15	Chemical Spray	NA
Elevation 639'7"	Radiation (Rad)	3.9 E05
Flood Level Elevation: NA Above Flood Level: Yes: No:	Aging	NA
	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-24B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-2-40	Temperature (°F)	104
Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: PUMP 1-1401B DISCHARGE SHUTOFF VALVE	Pressure (PSIA)	14.7
Accuracy: Spec: NA Demo: NA	Relative Humidity (%)	100
Location 12'0" W OF COL. M 9'0" S OF COL. 15	Chemical Spray	NA
Elevation 642'3"	Radiation (Rad)	3.9 E05
Flood Level Elevation: NA Above Flood Level: Yes: No:	Aging	NA
	Submergence	NA

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 14
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: MO-1-1402-25A, B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-2-40 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	104	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7'	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E05	2.0 E07	REF. (A)	REF. (B)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

B

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT - LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. C. FSAR SECTION 6.2.3.2 D. NEDO REPORT 24217, TABLE 4-3'	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED NOT TO BE REQUIRED. THE DISCONNECTION OR REPLACEMENT OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984.

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 15
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-25A	Temperature (*F)	104
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-2-40	Radiation (Rad)	3.9 E05
Purchase Order Number: 3620-125	Aging	NA
SPEC R-2358	Submergence	NA
Function/Service: CONTAINMENT ISOLATION PUMP 1-1401A DISCHARGE		
Accuracy: Spec: NA Demo: NA		
Location 6'9" W OF COL. J 12'1" S OF COL. 15		
Elevation 642'3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-25B	Temperature (*F)	104
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-2-40	Radiation (Rad)	3.9 E05
Purchase Order Number: 3620-125	Aging	NA
SPEC R-2358	Submergence	NA
Function/Service: CONTAINMENT ISOLATION PUMP 1-1401B DISCHARGE		
Accuracy: Spec: NA Demo: NA		
Location 12'0" W OF COL. M 11'6" S OF COL. 15		
Elevation 642'3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 16
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: MD-1-1402-38A,B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-000-2 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.6 E07	2.0 E07	REF. (A)	REF. (B)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO 600461-B0003, QUALIFICATION TYPE TEST REPORT - LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. C. THIS REPORT SECTION 6.2.3 D. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE FOR RADIATION, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- A. THIS VALVE OPENS ON LOW FLOW TO PROVIDE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>A MINIMUM FLOW LINE. FAILURE OF THIS VALVE TO OPEN WILL NOT REDUCE CORE COOLING FLOW. SHOULD THE VALVE FAIL IN THE OPEN POSITION, COOLANT INJECTION WOULD BE REDUCED BUT WOULD STILL MEET THE TECHNICAL SPECIFICATION REQUIREMENTS FOR MINIMUM FLOW TO THE CORE.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-38A Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-000-2	Temperature (°F)	135
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: DIVERT FLOW TO RECIRCULATION LINE ON LOW FLOW FROM PUMP 1-1401A	Radiation (Rad)	2.6 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location TOP OF TORUS	Submergence	NA
Elevation 590' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: MO-1-1402-38B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-000-2	Temperature (°F)	135
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: DIVERT FLOW TO RECIRCULATION LINE ON LOW FLOW FROM PUMP 1-1401B	Radiation (Rad)	2.6 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location TOP OF TORUS	Submergence	NA
Elevation 590' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: MO-1-1402-4A, B Component: MOTOR OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-1-15 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	10 MINUTES	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	B
	Temperature (°F)	120	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.1 E05	2.0 E07	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J.R. DRAB TO J. HINK DATED MAY 19, 1981. C. FSAR SECTION 6.2.3.2 D. BECHTEL RADIATION STUDY	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. NEDO REPORT 24217, TABLE 4-3	

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 21
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	10 MINUTES
Plant I.D. Number: MO-1-1402-4A	Temperature (°F)	120
Component: MOTOR OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-1-15	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	1.1 E05
Function/Service: PUMP 1-1401A TEST RETURN VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location 5'11" E OF COL. H 1'6" S OF COL. 14		
Elevation 588'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	10 MINUTES
Plant I.D. Number: MO-1-1402-4B	Temperature (°F)	120
Component: MOTOR OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-1-15	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	1.1 E05
Function/Service: PUMP 1-1401B TEST RETURN VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location 10'0" E OF COL. M 3'9" S OF COL. 15		
Elevation 585'9"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 22
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: PT-1-1460A,B Component: PRESSURE TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: 4532K11001 GE/MAC 551 Purchase Order Number: GE-A8028 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.7 E05	2.75 E06	REF. (A)	REF. (E)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2 E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: PT-1-1460A Component: PRESSURE TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 4532K11001 GE/MAC 551 Purchase Order Number: GE-A8028	Relative Humidity (%)	100
Function/Service: PUMP 1-1401A DISCHARGE PRESSURE	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0E04
Location RACK 2201-30A NW CORNER ROOM Elevation 554'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: PT-1-1460B Component: PRESSURE TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 4532K11001 GE/MAC 551 Purchase Order Number: GE-A8028	Relative Humidity (%)	100
Function/Service: PUMP 1-1401B DISCHARGE PRESSURE	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.7 E05
Location RACK 2201-30B SW CORNER ROOM Elevation 554'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CORE SPRAY Plant I.D. Number: 1-1401A,B Component: PUMP-MOTOR DRIVEN Manufacturer: GENERAL ELECTRIC Model Number: 5K6338XC23A Purchase Order Number: GE-92081 SPEC 21A5580 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	SEE NOTE (1)	REF. (A)	REF. (B)	SIMILARITY TEST	
	Temperature (°F)	114	212	REF. (C)	REF. (B)	SIMILARITY TEST	
	Pressure (PSIA)	14.7	14.7	REF. (D)	REF. (B)	SIMILARITY TEST	
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMILARITY TEST	
	Chemical Spray	NA	NOT REQD	NA	NA		
	Radiation (Rad)	5.8 E05	4.6 E07	REF. (A)	REF. (B)	SIMILARITY TEST	
	Aging	NA	69000 HRS AT 284 F	REF. (E)	REF. (B)	SIMILARITY TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. NEDO REPORT 24217, TABLE 4-3 QUALIFICATION DATA REPORT; COMPARISON OF RHR AND CORE SPRAY MOTOR DATA WITH QUALIFICATION TEST DATA FOR SIMILAR MOTORS. C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2	1. THE TEST WAS PERFORMED IN TWO SIX HOUR CYCLES AT 212 F THEN A POST DBE TEST AT 189 F FOR 200 HOURS WHICH IS MUCH MORE STRINGENT THAN 114 F FOR 12 DAYS.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. NEDO REPORT 24217, TABLE 4-3	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: 1-1401A Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6338XC23A	Relative Humidity (%)	100
Purchase Order Number: GE-92081 SPEC 21A5580 Function/Service: CORE SPRAY INJECTION TO REACTOR-A LOOP	Chemical Spray	NA
	Radiation (Rad)	5.8 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NW CORNER ROOM		
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CORE SPRAY	Operating Time	12 DAYS
Plant I.D. Number: 1-1401B Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6338XC23A	Relative Humidity (%)	100
Purchase Order Number: GE-92081 SPEC 21A5580 Function/Service: CORE SPRAY INJECTION TO REACTOR-B LOOP	Chemical Spray	NA
	Radiation (Rad)	5.8 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SW CORNER ROOM		
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: SEE ATTACHED SHEETS Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE H0752 136B1921P1 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	<1 MINUTE				SEE NOTE (1)	SEE NOTE (2)
	Temperature (°F)	188		REF. (A)			SEE NOTE (2)
	Pressure (PSIA)	14.7	NOT REQD.	REF. (A)	REF. (B)		
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (2)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	NOT REQD.	REF. (C)	REF. (B)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.2-1 AND CALIBRATION B. THIS REPORT SECTION 4.4 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. AS SOON AS STEAM LINE BREAK OCCURS IN THE STEAM TUNNEL THE SENSORS DETECT HIGH TEMPERATURE AND THEIR FUNCTION IS COMPLETED. 2. THESE COMPONENTS WILL BE QUALIFIED BY ENGINEERING ANALYSIS BEFORE JANUARY 1, 1984 OR COMPONENTS QUALIFIED FOR OPERATION IN THE ENVIRONMENT LISTED ABOVE WILL BE PROCURED

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOR INSTALLATION DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA ARE NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON-</p> <p>A. PERIODIC CALIBRATION IN ACCORDANCE WITH CALIBRATION PROCEDURE QIS-27 IS PERFORMED ON THESE COMPONENTS WHICH WOULD JUSTIFY THAT THESE ARE OPERATIONAL DURING THE REQUIRED SERVICE CONDITIONS. THE MAXIMUM OPERATING TEMPERATURE OF THE SWITCHES BY DESIGN IS 370F WHICH IS ABOVE THE REQUIRED OPERATING TEMPERATURE.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2370A Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location ABOVE HPCI TURBINE	Radiation (Rad)	<1.0 E04
Elevation 560' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2370B Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location ABOVE HPCI TURBINE	Radiation (Rad)	<1.0 E04
Elevation 560' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2370C Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location SOUTH END OF HPCI TURB. GLAND SEAL Elevation 560' 0"	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2370D Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location NORTH END OF HPCI TURB. GLAND SEAL Elevation 560' 0"	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2371A Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS	Pressure (PSIA)	14.7
Model Number: 88B TYPE F7	Relative Humidity (%)	100
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location ABOVE HPCI TURB. WEST WALL STEAM INLET	Aging	NA
Elevation 560' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2371B Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS	Pressure (PSIA)	14.7
Model Number: 88B TYPE F7	Relative Humidity (%)	100
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location ON RING ABOVE HPCI TURB.	Aging	NA
Elevation 560' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2371C Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location SOUTH END OF HPCI TURB. Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (*F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2371D Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location NORTH END OF HPCI TURB. Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (*F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2372A Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location ABOVE HPCI TURB-WEST WALL TURB STEAM INLET Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2372B Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location ON RING ABOVE HPCI TURBINE Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2372C Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location SOUTH END OF HPCI TURB. GLAD SEAL Elevation 560' 0"	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2372D Component: TEMPERATURE SWITCH	Temperature (°F)	188
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: GE H0752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location NORTH END OF HPCI TURB. GLAND SEAL Elevation 560' 0"	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2373A	Temperature (°F)	188
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B TYPE F7	Chemical Spray	NA
Purchase Order Number: GE H0752 136B1921P1	Radiation (Rad)	<1.0 E04
Function/Service: CLOSES ISOLATION VALVES	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location ABOVE HPCI TURB WEST WALL TURB STEAM INLET		
Elevation 560' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-2373B	Temperature (°F)	188
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B TYPE F7	Chemical Spray	NA
Purchase Order Number: GE H0752 136B1921P1	Radiation (Rad)	<1.0 E04
Function/Service: CLOSES ISOLATION VALVES	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location ON RING ABOVE HPCI TURBINE		
Elevation 560' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2373C Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location SOUTH END OF HPCI TURB GLAND SEAL Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: TS-1-2373D Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B TYPE F7 Purchase Order Number: GE HO752 136B1921P1 Function/Service: CLOSES ISOLATION VALVES Accuracy: Spec: NA Demo: NA Location NORTH END HPCI TURB GLAND SEAL Elevation 560' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	188
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: DPIS-1-2352, 2353 Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON Model Number: 288 Purchase Order Number: 158B7018P12 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	1 HOUR		REF. (A)			SEE NOTE (1)
	Temperature (°F)	285		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	21.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	NOT REQD.	REF. (A)	REF. (C)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.3.2 C. THIS REPORT SECTION 4.4 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE OUTAGE PRESENTLY SCHEDULED TO END MAY 1984. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- A. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>B. THERE ARE ADDITIONAL COMPONENTS WHICH WOULD BE CAPABLE OF PROVIDING THE SAME ISOLATION SIGNAL.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: DPIS-1-2352 Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON Model Number: 288 Purchase Order Number: 158B7018P12 Function/Service: ACTIVATES AUTO ISOLATION SYSTEM Accuracy: Spec: NA Demo: NA Location RACK2201-28 COLUMNS 15 & M Elevation 595'0"	Operating Time	1 HOUR
	Temperature (°F)	285
	Pressure (PSIA)	21.0
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: DPIS-1-2353 Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON Model Number: 288 Purchase Order Number: 158B7018P12 Function/Service: ACTIVATES AUTO ISOLATION SYSTEM Accuracy: Spec: NA Demo: NA Location RACK2201-28 COLUMNS 15 & M Elevation 595'0"	Operating Time	1 HOUR
	Temperature (°F)	285
	Pressure (PSIA)	21.0
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: LS-1-2351A,B Component: LEVEL SWITCH Manufacturer: MAGNETROL Model Number: 291 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	1 HOUR	26 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	135	300	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (D)		
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	NOT REQD.	REF. (A)	REF. (D)		
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. GE TEST REPORT NO. 159C4361 QUALIFICATION DESIGN VERIFICATION FILE AND WYLE TEST REPORT NO. 43235-1. C. THIS REPORT SECTION 4.3.1 D. THIS REPORT SECTION 4.4 E. NEDO REPORT 24217, TABLE 4-3	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: LS-1-2351A Component: LEVEL SWITCH	Temperature (°F)	135
Manufacturer: MAGNETROL	Pressure (PSIA)	14.7
Model Number: 291	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: SUPPRESSION POOL LOW LEVEL SWITCH	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SIDE OF TORUS NEAR AZIMUTH 225 Elevation 575'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: LS-1-2351B Component: LEVEL SWITCH	Temperature (°F)	135
Manufacturer: MAGNETROL	Pressure (PSIA)	14.7
Model Number: 291	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: SUPPRESSION POOL LOW LEVEL SWITCH	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SIDE OF TORUS NEAR AZIMUTH 225 Elevation 575'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: MD-1-2301-35 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-O-25 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SUCTION VALVE FROM SUPPRESSION CHAMBER Accuracy: Spec: NA Demo: NA Location: HPCI ROOM Elevation: 560' 0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	1 HOUR	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	230	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	21.0	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	1.0 E07	REF. (A)	REF. (B)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO. 600461-80003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. C. SPECIAL REPORT 12, REV 1, FEB. 1975 D. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: MD-1-2301-36 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-0-25 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: PUMP SUCTION FROM SUPPRESSION CHAMBER Accuracy: Spec: NA Demo: NA Location: HPCI ROOM Elevation: 569'0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	1 HOUR	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	230	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	21.0	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	1.0 EO7	REF. (A)	REF. (B)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. C. SPECIAL REPORT 12, REV 1, FEB 1975 D. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: MO-1-2301-4 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-1-60 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: STEAM SUPPLY LINE ISOLATION VALVE Accuracy: Spec: \$NA Demo: \$NA Location: NORTHSIDE-GROUND FLOOR DRYWELL Elevation: 595' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	1 HOUR	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Pressure (PSIA)	63.0	39.7	REF. (D)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NONE	REF. (E)			SEE NOTE (1)
	Radiation (Rad)	<1.0E04	2.0 E07	REF. (A)	REF. (B)	SEQUENTIAL TEST	
	Aging	150 F 6.6 E06 RADS	165 F FOR 199.8 HOURS	REF. (F)	REF. (B)	SEQUENTIAL TEST	SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. REPORT NO. 600461-80003, QUALIFICATION TYPE TEST REPORT-LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. C. NSED-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THIS VALVE IS LOCATED

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<p>D. FSAR FIGURE 5.2.17 E. FSAR SECTION 6.2.4.2.2 F. NEDO REPORT 24217, TABLE 4-3</p>	<p>INSIDE DRYWELL AND IS NORMALLY OPEN. FOLLOWING A POSTULATED ACCIDENT, IT WOULD REMAIN OPEN TO ALLOW STEAM FLOW TO THE HPCI TURBINE. VALVE OPERATION WOULD ONLY BE REQUIRED TO ISOLATE THE HPCI STEAM LINE. THREE ADDITIONAL VALVES ARE LOCATED ON THIS STEAM LINE OUTSIDE DRYWELL TO ISOLATE THE STEAM LINE. SINCE THE HARSH ENVIRONMENT INSIDE DRYWELL IS ASSOCIATED WITH AN ACCIDENT WHICH WOULD NOT AFFECT ENVIRONMENTS OR HPCI STEAM LINE PIPE INTEGRITY OUTSIDE DRYWELL, THE THREE OUTSIDE DRYWELL VALVES WOULD BE CAPABLE OF ISOLATING THE STEAM LINE.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: MO-1-2301-5 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-1 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: STEAM SUPPLY LINE ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: NORTHSIDE OF REACTOR TOP OF TORUS Elevation: 590'0"	Operating Time	1 HOUR		REF. (A)			SEE NOTE (1)
	Temperature (°F)	285		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	21.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	6.6 E06	NOT REQD.	REF. (A)	REF. (C)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.3.2 C. THIS REPORT SECTION 4.4 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- A. THIS COMPONENT IS DESIGNED AS A REDUNDANT PAIR, WITH MO-1-2301-4, EACH

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	<p>SEPARATED FROM THE OTHER WITH ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT</p> <p>B. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. ADDITIONAL VALVES (MO-1-2301-3, MO-1-2301-4, THE TURBINE STOP VALVE, AND THE TURBINE CONTROL VALVE) WHICH WOULD ALSO BE CAPABLE OF PROVIDING THE ISOLATION FUNCTION ARE LOCATED IN THIS PIPING SYSTEM.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: MO-1-2301-8 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB 3-80 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: HPCI PUMP DISCHARGE VALVE Accuracy: Spec: NA Demo: NA Location: STEAM TUNNEL Elevation: 595' 0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	1 HOUR		REF. (A)			SEE NOTE (1)
	Temperature (°F)	304		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	27.5		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04		REF. (A)			SEE NOTE (1)
	Aging	150 F 1.4 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC NO. 3C2-0181-001, REV 0 NOVEMBER 1982 C. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- A. THIS COMPONENT IS DESIGNED AS A REDUNDANT PAIR, WITH MO-1-2301-9, EACH SEPARATED

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FROM THE OTHER, WITH ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT.</p> <p>B. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THIS COMPONENT UNDERGOES PERIODIC SURVEILLANCE TESTING. THIS TESTING WOULD DETECT AGE RELATED DEGRADATION OR FAILURE.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: PS-1-2389A,B,C,D Component: PRESSURE SWITCH (LOW) Manufacturer: BARKSDALE Model Number: B2T-A12SS Purchase Order Number: 209A4965P1 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	1 HOUR		REF. (A)			SEE NOTE (1)
	Temperature (°F)	285		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	21.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD.	REF. (A)	REF. (C)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.3.2 C. THIS REPORT SECTION 4.4 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE OUTAGE PRESENTLY SCHEDULED TO END MAY 1984. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- A. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>B. THERE ARE ADDITIONAL COMPONENTS WHICH WOULD BE CAPABLE OF PROVIDING THE SAME ISOLATION SIGNAL.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: PS-1-2389A Component: PRESSURE SWITCH (LOW)	Temperature (°F)	285
Manufacturer: BARKSDALE	Pressure (PSIA)	21.0
Model Number: B2T-A12SS	Relative Humidity (%)	100
Purchase Order Number: 209A4965P1	Chemical Spray	NA
Function/Service: REACTOR LOW PRESSURE	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-28 COLUMNS 15 & M Elevation 595'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: PS-1-2389B Component: PRESSURE SWITCH (LOW)	Temperature (°F)	285
Manufacturer: BARKSDALE	Pressure (PSIA)	21.0
Model Number: B2T-A12SS	Relative Humidity (%)	100
Purchase Order Number: 209A4965P1	Chemical Spray	NA
Function/Service: REACTOR LOW PRESSURE	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-28 COLUMNS 15 & M Elevation 595'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: PS-1-2389C Component: PRESSURE SWITCH (LOW)	Temperature (°F)	285
Manufacturer: BARKSDALE	Pressure (PSIA)	21.0
Model Number: B2T-A12SS	Relative Humidity (%)	100
Purchase Order Number: 209A4965P1	Chemical Spray	NA
Function/Service: REACTOR LOW PRESSURE	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-28 COLUMNS 15 & M Elevation 595'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: HIGH PRESSURE COOLANT INJECTION	Operating Time	1 HOUR
Plant I.D. Number: PS-1-2389D Component: PRESSURE SWITCH (LOW)	Temperature (°F)	285
Manufacturer: BARKSDALE	Pressure (PSIA)	21.0
Model Number: B2T-A12SS	Relative Humidity (%)	100
Purchase Order Number: 209A4965P1	Chemical Spray	NA
Function/Service: REACTOR LOW PRESSURE	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-28 COLUMNS 15 & M Elevation 595'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: 102A Component: TIME DELAY RELAY Manufacturer: CONTROL PRODUCT DIV AMERACE CORP Model Number: AGASTAT TR14I3B Purchase Order Number: 735150 Function/Service: PREVENT SPURIOUS STEAMLINE ISOLATION Accuracy: Spec: NA Demo: NA Location: IN AUX ELEC EQ RM PANEL 901-33 Elevation: 595' 0"	Operating Time	1 HOUR	NOT REQD	REF. (A)	REF. (B)		
	Temperature (°F)	80	NOT REQD	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD	REF. (A)	REF. (B)		
	Aging	NA	NOT REQD	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: HIGH PRESSURE COOLANT INJECTION Plant I.D. Number: 102B Component: TIME DELAY RELAY Manufacturer: CONTROL PRODUCT DIV AMERAGE CORP Model Number: AGASTAT TR14D3B Purchase Order Number: 735150 Function/Service: PREVENT SPURIOUS STEAMLINE ISOLATION Accuracy: Spec: NA Demo: NA Location: IN AUX ELEC EQ RM PANEL 901-39 Elevation: 595' 0"	Operating Time	1 HOUR	NOT REQD	REF. (A)	REF. (B)		
	Temperature (°F)	80	NOT REQD	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD	REF. (A)	REF. (B)		
	Aging	NA	NOT REQD	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-203-3A Component: SAFETY RELIEF VALVE AND SOLENOID Manufacturer: TARGET ROCK/ AUTOMATIC VALVE CO Model Number: C5450-5 Purchase Order Number: GE HO270 SPEC 21A5482 Function/Service: SAFETY RELIEF VALVE FOR REACTOR PRESSURE VESSEL Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL ON A MAIN STEAM LINE Elevation: 615'0"	Operating Time	1 DAY	7 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	334	340	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	79.7	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	STEAM	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	< 1.0 E04	3.0 E07	REF. (F)	REF. (B)	SEQUENTIAL TEST	
	Aging	150F 2.3 E06 RADS	203 F CONTINUOUS	REF. (G)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
	Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:						

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.17 B. ATTACHMENT FORM D173-9675, REV 0 DATED 9/6/75 TO TVA LETTER, F. W. CHANDLER TO J. HINK DATED 9/12/82 CHRON 5696. PLANT EQUIPMENT DESIGN ENGINEERING MEMORANDUM NO. 126-62. C. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL	

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>TEMPERATURE ANALYSIS CHRON 05642. D. FSAR SECTION 6.2.4.2.2 E. THE ELECTRICAL COMPONENTS ASSOCIATED WITH THIS RELIEF VALVE ARE ENCLOSED IN A METAL ENCLOSURE WHICH OPENS FROM THE BOTTOM ONLY. SPRAY THEREFORE COULD NOT AFFECT THE OPERATION OF THIS COMPONENT. F. BECHTEL RADIATION STUDY G. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-203-3B,C,D,E Component: ELECTROMATIC RELIEF VALVE AND SOLENOID Manufacturer: DRESSER INDUSTRIES Model Number: TYPE-1525VX Purchase Order Number: GE H0270 SPEC 21A5482 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	1 HOUR	10 HOURS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	300	REF. (C)	REF. (B)	SIMULTANEOUS TEST	SEE NOTE (1)
	Pressure (PSIA)	63.0	76.7	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER		REF. (D)	REF. (E)		
	Radiation (Rad)	< 1.0 E04		REF. (F)			SEE NOTE (1)
	Aging	150 F 2.3 E06 RADS		REF. (G)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.17 B. PEP REPORT NO. 42963, MAY 1968, SECTION 1. TEST- DRESSER RELIEF VALVE ACTUATOR C. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. D. FSAR SECTION 6.2.4.2.2	1. A MATERIAL ANALYSIS WILL BE PERFORMED BY DECEMBER, 1983.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. THE ELECTRICAL COMPONENTS ASSOCIATED WITH THIS EQUIPMENT ARE CONTAINED IN A METAL ENCLOSURE WHICH OPENS FROM THE BOTTOM ONLY. THEREFORE, SPRAY COULD NOT AFFECT THIS EQUIPMENT</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-203-3B Component: ELECTROMATIC RELIEF VALVE AND SOLENOID Manufacturer: DRESSER INDUSTRIES Model Number: TYPE-1525VX Purchase Order Number: GE HO270 SPEC 21A5482 Function/Service: RELIEF VALVE FOR REACTOR PRESSURE VESSEL Accuracy: Spec: NA Demo: NA Location INSIDE DRYWELL ON B MAIN STEAM LINE Elevation 615' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: <input checked="" type="checkbox"/> No:	Operating Time	1 HOUR
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	< 1.0 E04
	Aging	150 F
		2.3 E06 RADS
	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-203-3C Component: ELECTROMATIC RELIEF VALVE AND SOLENOID Manufacturer: DRESSER INDUSTRIES Model Number: TYPE-1525VX Purchase Order Number: GE HO270 SPEC 21A5482 Function/Service: RELIEF VALVE FOR REACTOR PRESSURE VESSEL Accuracy: Spec: NA Demo: NA Location INSIDE DRYWELL ON C MAIN STEAM LINE Elevation 615' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: <input checked="" type="checkbox"/> No:	Operating Time	1 HOUR
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	< 1.0 E04
	Aging	150 F
		2.3 E06 RADS
	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	1 HOUR
Plant I.D. Number: 1-203-3D	Temperature (°F)	334
Component: ELECTROMATIC RELIEF VALVE AND SOLENOID	Pressure (PSIA)	63.0
Manufacturer: DRESSER INDUSTRIES	Relative Humidity (%)	100
Model Number: TYPE-1525VX	Chemical Spray	DEMIN WATER
Purchase Order Number: GE H0270 SPEC 21A5482	Radiation (Rad)	< 1.0 EO4
Function/Service: RELIEF VALVE FOR REACTOR PRESSURE VESSEL	Aging	150 F 2.3 EO6 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location INSIDE DRYWELL ON D MAIN STEAM LINE Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	1 HOUR
Plant I.D. Number: 1-203-3E	Temperature (°F)	334
Component: ELECTROMATIC RELIEF VALVE AND SOLENOID	Pressure (PSIA)	63.0
Manufacturer: DRESSER INDUSTRIES	Relative Humidity (%)	100
Model Number: TYPE-1525VX	Chemical Spray	DEMIN WATER
Purchase Order Number: GE H0270 SPEC 21A5482	Radiation (Rad)	< 1.0 EO4
Function/Service: RELIEF VALVE FOR REACTOR PRESSURE VESSEL	Aging	150 F 2.3 EO6 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location INSIDE DRYWELL ON B MAIN STEAM LINE Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-261-GOA THRU E Component: SENSOR- ACOUSTIC MONITOR Manufacturer: NDT INSTRUMENTS Model Number: 781 B Purchase Order Number: 238800 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (C)			SEE NOTE (1)
	Radiation (Rad)	8.5 E07		REF. (D)		TYPE TEST	SEE NOTE (1)
	Aging	150 F 1.1 E06 RADS		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.17 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR SECTION 6.2.4.2.2 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. 1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND/OR TESTING, OTHERWISE THE EQUIPMENT OR PARTS WILL BE REPLACED WITH QUALIFIED COMPONENTS. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED BECAUSE -SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED FOR ENVIRONMENTAL CONDITIONS.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-261-60A	Temperature (°F)	334
Component: SENSOR- ACOUSTIC MONITOR	Pressure (PSIA)	63.0
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 781 B	Chemical Spray	DEMIN WATER
Purchase Order Number: 238800	Radiation (Rad)	8.5 E07
Function/Service: SRV POSITION INDICATION	Aging	150 F
Accuracy: Spec: NA Demo: NA	Location	1.1 E06 RADS
Location INSIDE DRYWELL NEAR SRV 2-203-3A	Submergence	NA
Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-261-60B	Temperature (°F)	334
Component: SENSOR- ACOUSTIC MONITOR	Pressure (PSIA)	63.0
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 781 B	Chemical Spray	DEMIN WATER
Purchase Order Number: 238800	Radiation (Rad)	8.5 E07
Function/Service: SRV POSITION INDICATION	Aging	150 F
Accuracy: Spec: NA Demo: NA	Location	1.1 E06 RADS
Location INSIDE DRYWELL NEAR SRV 2-203-3B	Submergence	
Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-261-60C	Temperature (*F)	334
Component: SENSOR- ACOUSTIC MONITOR	Pressure (PSIA)	63.0
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 781 B	Chemical Spray	DEMIN WATER
Purchase Order Number: 238800	Radiation (Rad)	8.5 E07
Function/Service: SRV POSITION INDICATION	Aging	150 F
Accuracy: Spec: NA Demo: NA	Location	1.1 E06 RADS
Location INSIDE DRYWELL NEAR SRV 2-203-3C	Submergence	
Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-261-60D	Temperature (*F)	334
Component: SENSOR- ACOUSTIC MONITOR	Pressure (PSIA)	63.0
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 781 B	Chemical Spray	DEMIN WATER
Purchase Order Number: 238800	Radiation (Rad)	8.5 E07
Function/Service: SRV POSITION INDICATION	Aging	150 F
Accuracy: Spec: NA Demo: NA	Location	1.1 E06 RADS
Location INSIDE DRYWELL NEAR SRV 2-203-3D	Submergence	
Elevation 615' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-261-60E Component: SENSOR- ACOUSTIC MONITOR Manufacturer: NDT INSTRUMENTS Model Number: 781 B Purchase Order Number: 238800 Function/Service: SRV POSITION INDICATION Accuracy: Spec: NA Demo: NA Location INSIDE DRYWELL NEAR SRV 2-203-3E Elevation 615' 0"	Operating Time	12 DAYS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	8.5 E07
	Aging	150 F
		1.1 E06 RADS
	Submergence	
Flood Level Elevation: 583' 0" Above Flood Level: Yes: <input checked="" type="checkbox"/> No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: Plant I.D. Number: Component: Manufacturer: Model Number: Purchase Order Number: Function/Service: Accuracy: Spec: Demo: Location Elevation	Operating Time	
	Temperature (°F)	
	Pressure (PSIA)	
	Relative Humidity (%)	
	Chemical Spray	
	Radiation (Rad)	
	Aging	
	Submergence	
Flood Level Elevation: Above Flood Level: Yes: No:		

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 69
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: AUTO DEPRESSURIZATION MAIN STEAM Plant I.D. Number: 1-262-61A THRU E Component: PREAMPLIFIER ACOUSTIC MONITOR Manufacturer: NDT INSTRUMENTS Model Number: 400 A Purchase Order Number: 238800 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	NOT REQD	REF. (A)	REF. (B)		SEE NOTE (1)
	Temperature (*F)	104	NOT REQD	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.2 E05		REF. (D)			SEE NOTE (1)
	Aging	NA	NOT REQD	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.17 AND 5.2.18 B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. CECO WILL HAVE A QUALIFIED RELIEF AND SAFETY VALVE POSITION DETECTION SYSTEM AT QUAD CITIES UNIT 1 IN OPERATION BEFORE THE REFUELING OUTAGE SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-

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Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 70
Revision: 2
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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>A. THESE COMPONENTS OR SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED FOR ENVIRONMENTAL CONDITIONS.</p>

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 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 71
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-262-61A	Temperature (°F)	104
Component: PREAMPLIFIER ACOUSTIC MONITOR	Pressure (PSIA)	14.7
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 400 A	Chemical Spray	NA
Purchase Order Number: 238800	Radiation (Rad)	3.2 E05
Function/Service: SRV POSITION INDICATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location OUTSIDE DRYWELL IN R.B.		
Elevation 615' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-262-61B	Temperature (°F)	104
Component: PREAMPLIFIER ACOUSTIC MONITOR	Pressure (PSIA)	14.7
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 400 A	Chemical Spray	NA
Purchase Order Number: 238800	Radiation (Rad)	3.2 E05
Function/Service: SRV POSITION INDICATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location OUTSIDE DRYWELL IN R.B.		
Elevation 615' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 72
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-262-61C	Temperature (*F)	104
Component: PREAMPLIFIER ACOUSTIC MONITOR	Pressure (PSIA)	14.7
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 400 A	Chemical Spray	NA
Purchase Order Number: 238800	Radiation (Rad)	3.2 E05
Function/Service: SRV POSITION INDICATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location OUTSIDE DRYWELL IN R.B. Elevation 615' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-262-61D	Temperature (*F)	104
Component: PREAMPLIFIER ACOUSTIC MONITOR	Pressure (PSIA)	14.7
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 400 A	Chemical Spray	NA
Purchase Order Number: 238800	Radiation (Rad)	3.2 E05
Function/Service: SRV POSITION INDICATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location OUTSIDE DRYWELL IN R.B. Elevation 615' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 73
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: AUTO DEPRESSURIZATION MAIN STEAM	Operating Time	12 DAYS
Plant I.D. Number: 1-262-61E	Temperature (*F)	104
Component: PREAMPLIFIER ACOUSTIC MONITOR	Pressure (PSIA)	14.7
Manufacturer: NDT INSTRUMENTS	Relative Humidity (%)	100
Model Number: 400 A	Chemical Spray	NA
Purchase Order Number: 238800	Radiation (Rad)	3.2 E05
Function/Service: SRV POSITION INDICATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location OUTSIDE DRYWELL IN R.B.		
Elevation 615' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System:	Operating Time	
Plant I.D. Number:	Temperature (*F)	
Component:	Pressure (PSIA)	
Manufacturer:	Relative Humidity (%)	
Model Number:	Chemical Spray	
Purchase Order Number:	Radiation (Rad)	
Function/Service:	Aging	
Accuracy: Spec: Demo:	Submergence	
Location		
Elevation		
Flood Level Elevation: Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 74
 Revision 2
 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: SEE ATTACHED SHEETS Component: FLOW TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE H0950/GE N0831 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.5 E06	2.75 E06	REF. (D)	REF. (E)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1042A Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE H0950	Relative Humidity (%)	100
Function/Service: PUMP DISCHARGE FLOW TRANSMITTER	Chemical Spray	NA
	Radiation (Rad)	1.5 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59A NORTHEAST CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1042B Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE H0950	Relative Humidity (%)	100
Function/Service: PUMP DISCHARGE FLOW TRANSMITTER	Chemical Spray	NA
	Radiation (Rad)	4.0 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59B SOUTHEAST CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1049A Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE H0950	Relative Humidity (%)	100
Function/Service: RHR FLOW OUTPUT TRANSMITTER	Chemical Spray	NA
	Radiation (Rad)	1.5 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59A NORTHEAST CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1049B Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE H0950	Relative Humidity (%)	100
Function/Service: RHR FLOW OUTPUT TRANSMITTER	Chemical Spray	NA
	Radiation (Rad)	4.0 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59B SOUTHEAST CORNER ROOM Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1051A Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE NO831	Relative Humidity (%)	100
Function/Service: CONTAINMENT SPRAY FLOW OUTPUT TRANSMITTER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.5 E06
Location RACK 2201-59A NORTHEAST CORNER ROOM Elevation 554'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: FT-1-1051B Component: FLOW TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GE/MAC 553 553112CAAJ2 Purchase Order Number: GE NO831	Relative Humidity (%)	100
Function/Service: CONTAINMENT SPRAY FLOW TRANSMITTER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	4.0 E05
Location RACK 2201-59B SOUTHEAST CORNER ROOM Elevation 554'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 78
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: DPIS-1-1001-81A&B Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON Model Number: 289 Purchase Order Number: SPEC 730E761 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.5 E06		REF. (D)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO THE PARAMETERS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THIS SWITCH OPENS/CLOSES THE MINIMUM FLOW

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Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	LINE. FAILURE OF THIS SWITCH CAN BE OVERRIDDEN BY OPERATOR ACTION, AND THEREFORE, WILL NOT ADVERSELY AFFECT SAFETY.

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: DPIS-1-1001-81A Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON	Temperature (°F)	114
Model Number: 289	Pressure (PSIA)	14.7
Purchase Order Number: SPEC. 730E761	Relative Humidity (%)	100
Function/Service: SENSES RHR PUMP MINIMUM FLOW, CONTACT OPENS WHEN FLOW IS GREATER THAN LOW FLOW SET POINT	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.5 E06
Location RACK 2201-59A NORTHEAST CORNER ROOM	Aging	NA
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: DPIS-1001-81B Component: DIFFERENTIAL PRESSURE INDICATING SWITCH Manufacturer: BARTON	Temperature (°F)	114
Model Number: 289	Pressure (PSIA)	14.7
Purchase Order Number: SPEC 730E761	Relative Humidity (%)	100
Function/Service: SENSES RHR PUMP MINIMUM FLOW, CONTACT OPENS WHEN FLOW IS GREATER THAN LOW FLOW SET POINT	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	4.0 E05
Location RACK 2201-59B SOUTHEAST CORNER ROOM	Aging	NA
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
Plant I.D. Number: DPS-1-1001-78A,B	Temperature (*F)	114	NOT REQD.	REF. (B)	REF. (A)		
Component: DIFFERENTIAL PRESSURE SWITCH	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
Manufacturer: BARTON	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
Model Number: 288	Chemical Spray	NA	NA	NA	NA		
Purchase Order Number:	Radiation (Rad)	1.3 E06		REF. (D)			SEE NOTE (1)
Function/Service: SEE ATTACHED SHEETS	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
Accuracy: Spec: Demo:	Submergence	NA	NA	NA	NA		
Location: SEE ATTACHED SHEETS							
Elevation: SEE ATTACHED SHEETS							
Flood Level Elevation: Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO THE PARAMETERS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON-

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>THESE COMPONENTS ARE REQUIRED TO ESTABLISH RHR FLOW AND PROVIDE AUTOMATIC FLOW CONTROL. IN THE EVENT OF FAILURE OF THIS COMPONENT, THE OPERATOR COULD MANUALLY CONTROL RHR FLOW. THEREFORE, THERE ARE NO ADVERSE AFFECTS RESULTING FROM FAILURE OF THESE COMPONENTS.</p>

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 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: DPS-1-1001-78A Component: DIFFERENTIAL PRESSURE SWITCH Manufacturer: BARTON	Temperature (°F)	114
Model Number: 288	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR HEAT EXCHANGER A DIFFERENTIAL PRESSURE	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.3 E06
Location NE CORNER ROOM	Aging	NA
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: DPS-1-1001-78B Component: DIFFERENTIAL PRESSURE SWITCH Manufacturer: BARTON	Temperature (°F)	114
Model Number: 288	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR HEAT EXCHANGER B DIFFERENTIAL PRESSURE	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	1.3 E06
Location NE CORNER ROOM	Aging	NA
Elevation 554'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 84
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: LS-1-4941-2A,B,C Component: LEVEL SWITCH (HIGH) Manufacturer: MAGNETROL Model Number: 249C-X-EP-SIMD4DC Purchase Order Number: FIELD Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	120	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD.	REF. (C)	REF. (A)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: LS-1-4941-2A Component: LEVEL SWITCH (HIGH)	Temperature (*F)	120
Manufacturer: MAGNETROL	Pressure (PSIA)	14.7
Model Number: 249C-X-EP-SIMD4DC	Relative Humidity (%)	100
Purchase Order Number: FIELD	Chemical Spray	NA
Function/Service: TURBINE BUILDING EQUIPMENT DRAIN FLOOD PROTECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RHR SERVICE WATER PUMP A ROOM Elevation 558' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: LS-1-4941-2B Component: LEVEL SWITCH (HIGH)	Temperature (*F)	120
Manufacturer: MAGNETROL	Pressure (PSIA)	14.7
Model Number: 249C-X-EP-SIMD4DC	Relative Humidity (%)	100
Purchase Order Number: FIELD	Chemical Spray	NA
Function/Service: TURBINE BUILDING EQUIPMENT DRAIN FLOOD PROTECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RHR SERVICE WATER PUMP B/C ROOM Elevation 558' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

Owner: COMMONWEALTH EDISON
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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: LS-1-4941-2C Component: LEVEL SWITCH (HIGH)	Temperature (°F)	120
Manufacturer: MAGNETROL	Pressure (PSIA)	14.7
Model Number: 249C-X-EP-SIMD4DC	Relative Humidity (%)	100
Purchase Order Number: FIELD	Chemical Spray	NA
Function/Service: TURBINE BUILDING EQUIPMENT DRAIN FLOOD PROTECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RHR SERVICE WATER PUMP D ROOM Elevation 558' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System:	Operating Time	
Plant I.D. Number:	Temperature (°F)	
Component:	Pressure (PSIA)	
Manufacturer:	Relative Humidity (%)	
Model Number:	Chemical Spray	
Purchase Order Number:	Radiation (Rad)	
Function/Service:	Aging	
Accuracy: Spec: Demo:	Submergence	
Location Elevation		
Flood Level Elevation: Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
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 Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-16A&B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-2-40 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003 QUALIFICATION TYPE TEST REPORT-LIMTORQUE VALVE ACTUATORS FOR CLASS IE SERVICE OUTSIDE PRIMARY CONTAINMENT. B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-16A	Temperature (°F)	114
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-2-40	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	2.3 E06
Function/Service: HEAT EXCHANGER BY-PASS VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NORTHEAST CORNER ROOM		
Elevation 565'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-16B	Temperature (°F)	114
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-2-40	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	2.3 E06
Function/Service: HEAT EXCHANGER BYPASS VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location SOUTHEAST CORNER ROOM		
Elevation 572'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-18A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: TYPE SMB-000-5 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E08	REF. (D)	REF. (E)	SEQUENTIAL TEST	
	Aging	NA	311 F FOR 100 HRS	REF. (F)	REF. (E)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. REPORT NO. WCAP-7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS, SECTION 5. F. NEDO REPORT 24217, TABLE 4-3</p>	

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 Facility: QUAD CITIES
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-18A	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-000-5	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: RHR MINIMUM FLOW RECIRCULATION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 580'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-18B	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-000-5	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: RHR MINIMUM FLOW RECIRCULATION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 587'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-185A, B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-1 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO 600461-B0003, QUALIFICATION TYPE TEST REPORT LIMITORQUE VALVE ACTUATORS FOR CLASS IE SERVICE OUTSIDE PRIMARY CONTAINMENT. B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-185A	Temperature (°F)	114
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1	Radiation (Rad)	1.3 E06
Purchase Order Number:	Aging	NA
Function/Service: RHR HEAT EXCHANGER A SERVICE WATER OUTLET SHUTOFF VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA		
Location NE CORNER ROOM		
Elevation 580'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-185B	Temperature (°F)	114
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1	Radiation (Rad)	1.3 E06
Purchase Order Number:	Aging	NA
Function/Service: RHR HEAT EXCHANGER B SERVICE WATER OUTLET SHUTOFF VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA		
Location SE CORNER ROOM		
Elevation 580'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-19A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-1-40 Purchase Order Number: 3620-125 SPEC R2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.5 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-80003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J.R. DRAB TO J. HINK DATED MAY 19, 1981. B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-19A	Temperature (*F)	114
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1-40	Radiation (Rad)	1.5 E06
Purchase Order Number: 3620-125	Aging	NA
SPEC R-2358	Submergence	NA
Function/Service: EQUALIZING HEADER VALVE		
Accuracy: Spec: NA Demo: NA		
Location NORTHEAST CORNER ROOM		
Elevation 588'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-19B	Temperature (*F)	114
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1-40	Radiation (Rad)	1.5 E06
Purchase Order Number: 3620-125	Aging	NA
SPEC R-2358	Submergence	NA
Function/Service: EQUALIZING HEADER VALVE		
Accuracy: Spec: NA Demo: NA		
Location SOUTHEAST CORNER ROOM		
Elevation 578'-6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-21 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-000-5 Purchase Order Number: Function/Service: RHR DISCHARGE TO RADWASTE Accuracy: Spec: NA Demo: NA Location: SE CORNER ROOM Elevation: 557'0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	25 SECONDS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD.	REF. (E)	REF. (B)		
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 10.10 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-23A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: TYPE SMB-O-15 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	104	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.0 E06	2.0 E07	REF. (C)	REF. (A)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED TO BE NOT REQUIRED. THE DISCONNECTION OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MD-1-1001-23A	Temperature (°F)	104
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-O-15	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	1.0 E06
Function/Service: CONTAINMENT SPRAY HEADER VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location 9'-1" SOUTH COLUMN 15 5'-6" WEST COLUMN M		
Elevation 597'-6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MD-1-1001-23B	Temperature (°F)	104
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-O-15	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	9.6 E05
Function/Service: CONTAINMENT SPRAY HEADER VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location REACTOR BUILDING		
Elevation 623'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-26A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-1 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	104	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.0 E06	2.0 E07	REF. (C)	REF. (A)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED TO BE NOT REQUIRED. THE DISCONNECTION OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-26A	Temperature (°F)	104
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-1	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	1.0 E06
Function/Service: CONTAINMENT SPRAY HEADER VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location 15'-0" N. COLUMN 16 5'-6" WEST COLUMN M		
Elevation 604'-6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-26B	Temperature (°F)	104
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-1	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	9.6 E05
Function/Service: CONTAINMENT SPRAY HEADER VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location REACTOR BUILDING		
Elevation 626'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 103
 Revision 2
 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-28A&B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-5-400 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT - LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THE SOURCE TERMS UTILIZED AS A BASIS FOR

Owner: COMMONWEALTH EDISON
Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>RADIATION DOSE CALCULATIONS ARE EXTREMELY CONSERVATIVE. AS A RESULT, THE CALCULATED DOSES TO THESE VALVES ARE CONSERVATIVE BOUNDING VALUES WHICH ARE NOT EXPECTED TO BE REACHED DURING A REALISTIC ACCIDENT.</p> <p>B. THESE COMPONENTS UNDERGO FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE-RELATED DEGRADATION.</p> <p>C. OTHER EQUIPMENT SIMILAR IN DESIGN TO THIS EQUIPMENT HAS SUCCESSFULLY BEEN QUALIFIED FOR ENVIRONMENTS IN EXCESS OF THE CALCULATED REQUIREMENT FOR THIS EQUIPMENT.</p>

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 105
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-28A Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-5-400 Purchase Order Number: 3620-125 SPEC. R-2358 Function/Service: RECIRCULATION INJECTION VALVE Accuracy: Spec: NA Demo: NA Location TOP OF TORUS Elevation 580' -3"	Operating Time	CONTINUOUS
	Temperature (°F)	135
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	3.9 E07
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-28B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-5-400 Purchase Order Number: 3620-125 SPEC. R-2358 Function/Service: RECIRCULATION INJECTION VALVE Accuracy: Spec: NA Demo: NA Location TOP OF TORUS Elevation 580' -3"	Operating Time	CONTINUOUS
	Temperature (°F)	135
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	3.9 E07
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

Component Sheet No: 106
 Revision 2
 Date 05-01-83

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-29A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: TYPE SMB-3-100 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250 F	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E08	REF. (D)	REF. (E)	INDIVIDUAL TEST	SEE NOTE (1)
	Aging	NA	311F FOR 100 HRS	REF. (F)	REF. (E)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED TO BE NOT REQUIRED. THE DISCONNECTION OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY, 1984.

Component Sheet No. 107

Revision: 2

Date: 05-01-83

Owner: COMMONWEALTH EDISON
Facility: QUAD CITIES
Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. REPORT NO. WCAP-7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS, SECTION 5. F. NEDO REPORT 24217, TABLE 4-3</p>	

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 108
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-29A	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-3-100	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	3.9 E07
Function/Service: LPCI INJECTION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS NEAR PEN X-13A Elevation 591'-5"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-29B	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-3-100	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	3.9 E07
Function/Service: LPCI INJECTION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS NEAR PEN X-13B Elevation 591'-5"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 109
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 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-34A&B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: TYPE SMB-1-40 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-BO003, QUALIFICATION TYPE TEST REPORT - LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THE SOURCE TERMS UTILIZED AS A BASIS FOR

Owner: COMMONWEALTH EDISON
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Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>RADIATION DOSE CALCULATIONS ARE EXTREMELY CONSERVATIVE. AS A RESULT, THE CALCULATED DOSES TO THESE VALVES ARE CONSERVATIVE BOUNDING VALUES WHICH ARE NOT EXPECTED TO BE REACHED DURING A REALISTIC ACCIDENT.</p> <p>B. THESE COMPONENTS UNDERGO FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE-RELATED DEGRADATION.</p> <p>C. OTHER EQUIPMENT SIMILAR IN DESIGN TO THIS EQUIPMENT HAS SUCCESSFULLY BEEN QUALIFIED FOR ENVIRONMENTS IN EXCESS OF THE CALCULATED REQUIREMENT FOR THIS EQUIPMENT.</p>

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 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 111
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MD-1-1001-34A	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-1-40	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SPRAY SHUT OFF VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 586'-6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MD-1-1001-34B	Temperature (°F)	135
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-1-40	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC. R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SPRAY SHUT OFF VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 581'-3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 112
 Revision 2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-36A&B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-3-60 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E08	REF. (D)	REF. (E)	INDIVIDUAL TEST	
	Aging	NA	311F FOR 100 HOURS	REF. (F)	REF. (E)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

Component Sheet No. 113
Revision: 2
Date: 05-01-83

Owner: COMMONWEALTH EDISON
Facility: QUAD CITIES
Unit: 1
Docket: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. REPORT NO. WCAP 7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS. F. NEDO REPORT 24217, TABLE 4-3</p>	

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 114
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-36A	Temperature (°F)	135
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-3-60	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SHUTOFF VALVE CONTAINMENT SPRAY LINE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 580' -3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-36B	Temperature (°F)	135
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-3-60	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SHUTOFF VALVE CONTAINMENT SPRAY LINE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 591' -3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 115
 Revision: 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-37A&B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: TYPE SMB-O-10 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	135	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07	2.0 E08	REF. (D)	REF. (E)	INDIVIDUAL TEST	
	Aging	NA	311 F FPR 100 HRS	REF. (F)	REF. (E)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

Component Sheet No. 116
Revision: 2
Date: 05-01-83

Owner: COMMONWEALTH EDISON
Facility: QUAD CITIES
Unit: 1
Docket: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. REPORT NO WCAP 7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS F. NEDO REPORT 24217, TABLE 4-3	

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 117
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-37A	Temperature (°F)	135
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-O-10	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SPRAY SHUT OFF VALVE CLOSSES ON DRYWELL HIGH PRESSURE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 580' -3"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-37B	Temperature (°F)	135
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR	Relative Humidity (%)	100
Model Number: TYPE SMB-O-10	Chemical Spray	NA
Purchase Order Number: 3620-125 SPEC R-2358	Radiation (Rad)	3.9 E07
Function/Service: TORUS SPRAY SHUT OFF VALVE CLOSSES ON DRYWELL HIGH PRESSURE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location TOP OF TORUS		
Elevation 589' -0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
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SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-4A,B Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-1 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO 600461-B0003, QUALIFICATION TYPE TEST REPORT LIMITORQUE VALVE ACTUATORS FOR CLASS IE SERVICE OUTSIDE PRIMARY CONTAINMENT. B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	

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 Facility: QUAD CITIES
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 119
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-4A	Temperature (°F)	114
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1	Radiation (Rad)	1.3 E06
Purchase Order Number:	Aging	NA
Function/Service: RHR HEAT EXCHANGER A SERVICE WATER INLET SHUTOFF VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA	Flood Level	
Location NE CORNER ROOM	Elevation: NA	
Elevation 585'0"	Above Flood Level:	
	Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-4B	Temperature (°F)	114
Component: MOTOR OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (RELIANCE)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-1	Radiation (Rad)	1.3 E06
Purchase Order Number:	Aging	NA
Function/Service: RHR HEAT EXCHANGER B SERVICE WATER INLET SHUTOFF VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA	Flood Level	
Location SE CORNER ROOM	Elevation: NA	
Elevation 585'0"	Above Flood Level:	
	Yes: No:	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-47 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: TYPE SMB Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: RHR SHUTDOWN COOLING VALVE Accuracy: Spec: NA Demo: NA Location: HP HEATER BAY Elevation: 599'-0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	40 SECONDS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	120	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	1.0 E07	REF. (D)	REF. (B)	SIMILARITY TEST	
	Aging	1.8 E06	165 F FOR 199.8 HOURS	REF. (E)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

E

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED NOV 13, 1980. C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. NEDO REPORT 24217, TABLE 4-3	

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 122
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-5A&B Component: MOTOR-OPERATED GLOBE VALVE Manufacturer: LIMITORQUE PEERLESS AC MOTOR W BRAKE Model Number: TYPE SMB-2-60 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	SEE NOTE (1)
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED MAY 19, 1981. B. FIELD MEASUREMENT C. FSAR SECTION 10.10	1. THIS EQUIPMENT HAS A MOTOR BRAKE WHICH HAS BEEN DETERMINED TO BE NOT REQUIRED. THE DISCONNECTION OF THE MOTOR BRAKES WILL BE COMPLETED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-5A	Temperature (°F)	114
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE PEERLESS AC MOTOR W BRAKE	Relative Humidity (%)	100
Model Number: TYPE SMB-2-60	Chemical Spray	NA
Purchase Order Number: 3620-131 SPEC R-2395	Radiation (Rad)	2.3 E06
Function/Service: CONTAINMENT COOLANT HEAT EXCHANGER DISCHARGE ISOLATION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NORTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-5B	Temperature (°F)	114
Component: MOTOR-OPERATED GLOBE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE PEERLESS AC MOTOR W BRAKE	Relative Humidity (%)	100
Model Number: TYPE SMB-2-60	Chemical Spray	NA
Purchase Order Number: 3620-131 SPEC. R-2395	Radiation (Rad)	2.3 E06
Function/Service: CONTAINMENT COOLANT HEAT EXCHANGER DISCHARGE ISOLATION VALVE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location SOUTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-50 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-3 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: RHR SHUTDOWN COOLING VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL NEAR AZIMUTH 0 Elevation: 601'-54" Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	40 SECONDS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	2.2 E04		REF. (F)			SEE NOTE (1)
	Aging	150 F		REF. (G)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. CONTAINMENT SPRAY SYSTEM REQUIRES MANUAL	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE COMPONENTS OR SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED FOR ENVIRONMENTAL

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SYSTEM COMPONENT EVALUATION WORKSHEET

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>INITIATION. IT IS ASSUMED THIS WILL NOT OCCUR WITHIN 10 MINUTES. THEREFORE, QUALIFICATION IS NOT REQUIRED.</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. NEDO REPORT 24217, TABLE 4-3</p>	<p>CONDITIONS.</p> <p>B. THESE COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-60 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-00-15 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: HEAD SPRAY VALVE Accuracy: Spec: NA Demo: NA Location: STEAM TUNNEL Elevation: 604' - 10" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	30 DAYS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	304		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	27.5		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.2 E06		REF. (C)			SEE NOTE (1)
	Aging	150 F 1.4 E06 RADS		REF. (D)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR SECTION 6.2.4 B. TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC NO. 3C2-0181-001, REV 1, NOVEMBER 1982 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. RADIATION DOSES WERE CALCULATED USING CONSERVATIVE NON-MECHANISTIC MODELS.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>MECHANISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD THEREFORE BE LESS THAN THOSE CALCULATED USING SUCH CONSERVATIVE ASSUMPTIONS.</p> <p>B. OTHER EQUIPMENT SIMILAR IN DESIGN TO THIS EQUIPMENT HAS SUCCESSFULLY BEEN QUALIFIED FOR ENVIRONMENTS IN EXCESS OF THE CALCULATED REQUIREMENT FOR THIS EQUIPMENT.</p> <p>C. OTHER LIMITORQUE OPERATORS HAVE BEEN QUALIFIED TO RADIATION DOSES OF GREATER THAN 2.0 E07 RADS WITHOUT FAILURE.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MD-1-1001-63 Component: MOTOR-OPERATED GATE-VALVE Manufacturer: LIMITORQUE AC MOTOR Model Number: SMB Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: HEAD SPRAY VALVE INBOARD ISOLATION Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL Elevation: SMB-00- Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	30 DAYS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	DEMINE WATER		REF. (C)			SEE NOTE (1)
	Radiation (Rad)	1.0 E08		REF. (D)			SEE NOTE (1)
	Aging	150 F 1.1 E06 RADS		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA	NA	

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.17 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR SECTION 6.2.4.2.2 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE COMPONENTS OR SIMILAR ITEMS HAVE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>BEEN PARTIALLY TESTED FOR ENVIRONMENTAL CONDITIONS.</p> <p>B. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: MO-1-1001-7A, B, C, D Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-00-15 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	16 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	114	250	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.0 E06	2.0 E07	REF. (D)	REF. (A)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED MAY 19, 1981 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-7A Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-00-15	Temperature (°F)	114
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	3.0 E06
	Aging	NA
	Submergence	NA
Purchase Order Number: 3620-125 SPEC. R-2358 Function/Service: RHR PUMP SUCTION VALVE		
Accuracy: Spec: NA Demo: NA		
Location NORTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-7B Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-00-15	Temperature (°F)	114
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	3.0 E06
	Aging	NA
	Submergence	NA
Purchase Order Number: 3620-125 SPEC. R-2358 Function/Service: RHR PUMP SUCTION VALVE		
Accuracy: Spec: NA Demo: NA		
Location NORTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-7C	Temperature (°F)	114
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-00-15	Radiation (Rad)	3.0 E06
Purchase Order Number: 3620-125 SPEC R-2358	Aging	NA
Function/Service: RHR PUMP SUCTION VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA		
Location SOUTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1-1001-7D	Temperature (°F)	114
Component: MOTOR-OPERATED GATE VALVE	Pressure (PSIA)	14.7
Manufacturer: LIMITORQUE (PEERLESS)	Relative Humidity (%)	100
AC MOTOR	Chemical Spray	NA
Model Number: SMB-00-15	Radiation (Rad)	3.0 E06
Purchase Order Number: 3620-125 SPEC R-2358	Aging	NA
Function/Service: RHR PUMP SUCTION VALVE	Submergence	NA
Accuracy: Spec: NA Demo: NA		
Location SOUTHEAST CORNER ROOM		
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
Plant I.D. Number: PT-1-1043A,B	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
Component: PRESSURE TRANSMITTER	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
Manufacturer: GENERAL ELECTRIC	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
Model Number: GEMAC 551	Chemical Spray	NA	NA	NA	NA		
Purchase Order Number: GE A8028	Radiation (Rad)	1.5 E06	2.75 E06	REF. (D)	REF. (E)	TYPE TEST	
Function/Service: SEE ATTACHED SHEETS	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
Accuracy: Spec: Demo:	Submergence	NA	NA	NA	NA		
Location: SEE ATTACHED SHEETS							
Elevation: SEE ATTACHED SHEETS							
Flood Level Elevation: Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-1043A Component: PRESSURE TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GEMAC 551	Relative Humidity (%)	100
Purchase Order Number: GE A8028	Chemical Spray	NA
Function/Service: RHR SYSTEM PRESSURE TRANSMITTER	Radiation (Rad)	1.5 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59A NORTHEAST CORNER ROOM Elevation 554'-0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-1043B Component: PRESSURE TRANSMITTER	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: GEMAC 551	Relative Humidity (%)	100
Purchase Order Number: GE A8028	Chemical Spray	NA
Function/Service: RHR SYSTEM PRESSURE TRANSMITTER	Radiation (Rad)	4.0 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2201-59B SOUTHEAST CORNER ROOM Elevation 554'-0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
Plant I.D. Number: PT-1-1044A Component: PRESSURE TRANSMITTER	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
Model Number: GE/MAC 551 50-55132GAAW1 Purchase Order Number:	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
Function/Service: RHR HEAT EXCHANGER SERVICE WATER SIDE PRESSURE INDICATION	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.5 E06	2.75 E06	REF. (D)	REF. (E)	INDIVIDUAL TEST	
Accuracy: Spec: NA Demo: NA	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
Location: NE CORNER ROOM RACK 2201-59A Elevation: 554 '0"	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

Owner: COMMONWEALTH EDISON
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 138
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: PT-1-1044B Component: PRESSURE TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: GE/MAC 551 50-55132GAAW1 Purchase Order Number: Function/Service: RHR HEAT EXCHANGER SERVICE WATER SIDE PRESSURE INDICATION Accuracy: Spec: NA Demo: NA Location: SE CORNER ROOM RACK 2201-59B Elevation: 554'0"	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	4.0 E05	2.75 E06	REF. (D)	REF. (E)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

Owner: COMMONWEALTH EDISON
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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 139
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: 1-1001-65A,B,C,D Component: RHR SERVICE WATER PUMP MOTOR-DRIVEN Manufacturer: GENERAL ELECTRIC Model Number: 5K821167A31 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	120	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	< 1.0 EO4	NOT REQD.	REF. (C)	REF. (A)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1001-65A Component: RHR SERVICE WATER PUMP MOTOR-DRIVEN Manufacturer: GENERAL ELECTRIC	Temperature (°F)	120
Model Number: 5K821167A31	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR PUMP-SERVICE WATER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 547'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1001-65B Component: RHR SERVICE WATER PUMP MOTOR-DRIVEN Manufacturer: GENERAL ELECTRIC	Temperature (°F)	120
Model Number: 5K821167A31	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR PUMP-SERVICE WATER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 547'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1001-65C Component: RHR SERVICE WATER PUMP MOTOR-DRIVEN Manufacturer: GENERAL ELECTRIC	Temperature (°F)	120
Model Number: 5K821167A31	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR PUMP SERVICE WATER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 547'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1001-65D Component: RHR SERVICE WATER PUMP MOTOR-DRIVEN Manufacturer: GENERAL ELECTRIC	Temperature (°F)	120
Model Number: 5K821167A31	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR PUMP SERVICE WATER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 547'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: 1-1002A,B,C,D Component: PUMP-MOTOR DRIVEN Manufacturer: GENERAL ELECTRIC Model Number: 5K6336XC193 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	12 HOURS	NA	REF. (A)	SIMILARITY TEST	
	Temperature (°F)	114	212	REF. (B)	REF. (A)	SIMILARITY TEST	
	Pressure (PSIA)	14.7	14.7	REF. (C)	REF. (A)	SIMILARITY TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMILARITY TEST	
	Chemical Spray	NA	NOT REQD	NA	NA		
	Radiation (Rad)	1.3 E06	4.6 E07	REF. (D)	REF. (A)	SIMILARITY TEST	
	Aging	NA	69000 HRS AT 284 F	REF. (E)	REF. (A)	SIMILARITY TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. NEDC-30067, 83 NEDO 25 CLASS 1-QUALIFICATION DATA REPORT; COMPARISON OF RHR AND CORE SPRAY PUMP MOTOR DATA WITH QUALIFICATION TEST DATA FOR SIMILAR MOTORS. AT 212 F THEN A POST DBE TEST AT 189 F FOR 200 HOURS WHICH IS MUCH MORE STRINGENT THAN 114 F FOR 12 DAYS	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1002A Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6336XC193	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: RHR PROCESS PUMP	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NORTHEAST CORNER ROOM	Submergence	NA
Elevation 554'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1002B Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6336XC193	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: RHR PROCESS PUMP	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NORTHEAST CORNER ROOM	Submergence	NA
Elevation 554'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1002C Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6336XC193	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: RHR PROCESS PUMP	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SOUTHEAST CORNER ROOM	Submergence	NA
Elevation 554'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-1002D Component: PUMP-MOTOR DRIVEN	Temperature (°F)	114
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K6336XC193	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: RHR PROCESS PUMP	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SOUTHEAST CORNER ROOM	Submergence	NA
Elevation 554'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: RESIDUAL HEAT REMOVAL Plant I.D. Number: 1-5745A, B, C, D Component: ROOM COOLER (FAN MOTOR) Manufacturer: BUFFALO FORGE Model Number: 72P10815 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	120	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	< 1.0 E04	NOT REQD.	REF. (C)	REF. (A)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5745A Component: ROOM COOLER (FAN MOTOR) Manufacturer: BUFFALO FORGE	Temperature (°F)	120
Model Number: 72P10815 Purchase Order Number:	Pressure (PSIA)	14.7
Function/Service: RHR SERVICE WATER PUMP ROOM COOLER	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location RHR SERVICE WATER PUMP ROOM	Radiation (Rad)	< 1.0 E04
Elevation 573'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5745B Component: ROOM COOLER (FAN MOTOR) Manufacturer: BUFFALO FORGE	Temperature (°F)	120
Model Number: 72P10815 Purchase Order Number:	Pressure (PSIA)	14.7
Function/Service: RHR SERVICE WATER PUMP ROOM COOLER	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location RHR SERVICE WATER PUMP ROOM	Radiation (Rad)	< 1.0 E04
Elevation 573'0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5745C Component: ROOM COOLER (FAN MOTOR) Manufacturer: BUFFALO FORGE	Temperature (*F)	120
Model Number: 72P10815	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR SERVICE WATER PUMP ROOM COOLER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 573'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: RESIDUAL HEAT REMOVAL	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5745D Component: ROOM COOLER (FAN MOTOR) Manufacturer: BUFFALO FORGE	Temperature (*F)	120
Model Number: 72P10815	Pressure (PSIA)	14.7
Purchase Order Number:	Relative Humidity (%)	100
Function/Service: RHR SERVICE WATER PUMP ROOM COOLER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	< 1.0 E04
Location RHR SERVICE WATER PUMP ROOM	Aging	NA
Elevation 573'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.,	Qual.		
System: PRESSURE SUPPRESSION Plant I.D. Number: LT-1-1641-5A,B Component: LEVEL TRANSMITTER Manufacturer: ITT BARTON Model Number: 764/732 Purchase Order Number: 244323 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	7 DAYS	NA	REF. (A)	SEQUENTIAL TEST	
	Temperature (°F)	135	114	REF. (B)	REF. (A)	SEQUENTIAL TEST	
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (C)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (C)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	4.24 E07	1.0 E08	REF. (D)	REF. (A)	TYPE TEST	SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. ITT BARTON, REPORT NO. R3-764-1 B. THIS REPORT SECTION 4.3.1 C. THIS REPORT SECTION 4.4 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	CONTINUOUS
Plant I.D. Number: LT-1-1641-5A Component: LEVEL TRANSMITTER	Temperature (*F)	135
Manufacturer: ITT BARTON	Pressure (PSIA)	14.7
Model Number: 764/732	Relative Humidity (%)	100
Purchase Order Number: 244323	Chemical Spray	NA
Function/Service: INDICATION OF CONTAINMENT WATER LEVEL	Radiation (Rad)	4.24 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN TORUS COMPARTMENT BTW COLS L,M & 13,14 Elevation 585' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	CONTINUOUS
Plant I.D. Number: LT-1-1641-5B Component: LEVEL TRANSMITTER	Temperature (*F)	135
Manufacturer: ITT BARTON	Pressure (PSIA)	14.7
Model Number: 764/732	Relative Humidity (%)	100
Purchase Order Number: 244323	Chemical Spray	NA
Function/Service: INDICATION OF CONTAINMENT WATER LEVEL	Radiation (Rad)	4.24 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN TORUS COMPARTMENT BTW COLS L,M & 18,19 Elevation 585' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: PRESSURE SUPPRESSION Plant I.D. Number: PS-1-1622A&B Component: PRESSURE SWITCH Manufacturer: STATIC-O-RING Model Number: 12NN-KK215-VX Purchase Order Number: GE D8020A Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.7 E05		REF. (A)			SEE NOTE (1)
	Aging	NA		REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 10.10 E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THE OPERATOR COULD MANUALLY CONTROL THE VACUUM RELIEF VALVES OR PROVIDE VACUUM RELIEF THROUGH THE STGS IN THE EVENT OF FAILURE OF THESE COMPONENTS.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>B. REPLACEMENT COMPONENTS QUALIFIED TO THE PARAMETERS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING OR BEFORE THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	30 DAYS
Plant I.D. Number: PS-1-1622A Component: PRESSURE SWITCH	Temperature (°F)	114
Manufacturer: STATIC-O-RING	Pressure (PSIA)	14.7
Model Number: 12NN-KK215-VX	Relative Humidity (%)	100
Purchase Order Number: GE D8020A	Chemical Spray	NA
Function/Service: ACTUATES TORUS VACUUM RELIEF VALVES 1601-20A&B	Radiation (Rad)	1.7 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SE CORNER ROOM	Submergence	NA
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	30 DAYS
Plant I.D. Number: PS-1-1622B Component: PRESSURE SWITCH	Temperature (°F)	114
Manufacturer: STATIC-O-RING	Pressure (PSIA)	14.7
Model Number: 12NN-KK215-VX	Relative Humidity (%)	100
Purchase Order Number: GE D8020A	Chemical Spray	NA
Function/Service: ACTUATES TORUS VACUUM RELIEF VALVES 1601-20A&B	Radiation (Rad)	1.7 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SE CORNER ROOM	Submergence	NA
Elevation 554' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: PRESSURE SUPPRESSION Plant I.D. Number: PT-1-1625 Component: PRESSURE TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: 4532K11001 GEMAC 551 Purchase Order Number: 1032CAAG1 Function/Service: DRYWELL PRESSURE INDICATION Accuracy: Spec: NA Demo: NA Location: SOUTH SIDE OUTSIDE DRYWELL Elevation: 595' 0"	Operating Time	12 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	104	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	7.3 E04	2.75 E06	REF. (A)	REF. (D)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: PRESSURE SUPPRESSION Plant I.D. Number: PT-1-1641-6A,B Component: PRESSURE TRANSMITTER Manufacturer: ROSEMOUNT Model Number: 1152 GP7A22PB Purchase Order Number: 241619 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.8 E05	5.0 E06	REF. (C)	REF. (D)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. ROSEMOUNT,RMT REPORT NO. 117415, REV B E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-1641-6A Component: PRESSURE TRANSMITTER	Temperature (°F)	104
Manufacturer: ROSEMOUNT	Pressure (PSIA)	14.7
Model Number: 1152 GP7A22PB	Relative Humidity (%)	100
Purchase Order Number: 241619	Chemical Spray	NA
Function/Service:	Radiation (Rad)	1.65 E05
INDICATION OF CONTAINMENT PRESSURE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location IN R.B. NEAR COLUMNS M & 15 Elevation 623' 0"		
Flood Level: Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-1641-6B Component: PRESSURE TRANSMITTER	Temperature (°F)	104
Manufacturer: ROSEMOUNT	Pressure (PSIA)	14.7
Model Number: 1152 GP7A22PB	Relative Humidity (%)	100
Purchase Order Number: 241619	Chemical Spray	NA
Function/Service:	Radiation (Rad)	2.8 E05
INDICATION OF CONTAINMENT PRESSURE	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location IN R.B. NEAR COLUMNS M & 17 Elevation 623' 0"		
Flood Level: Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No: 157
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: PRESSURE SUPPRESSION Plant I.D. Number: SO-1-1601-50A&B Component: SOLENOID VALVE Manufacturer: VERSA Model Number: VPS 2502 VGS 4522/VGS 4422 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	12 DAYS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	135		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	14.7		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.6 E07		REF. (A)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. BECHTEL RADIATION STUDY B. THIS REPORT SECTION 4.3.1 C. FSAR SECTION 10.10 D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- B. AN ALTERNATE FLOW PATH IS AVAILABLE TO

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	RELIEVE TORUS VACUUM IN THE EVENT THESE COMPONENTS SHOULD FAIL.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	12 DAYS
Plant I.D. Number: SO-1-1601-50A Component: SOLENOID VALVE	Temperature (°F)	135
Manufacturer: VERSA	Pressure (PSIA)	14.7
Model Number: VPS 2502 VGS 4522/VGS 4422 Purchase Order Number:	Relative Humidity (%)	100
Function/Service: PILOT SOLENOID FOR TORUS VACUUM RELIEF VALVES 1601-20A&B	Chemical Spray	NA
	Radiation (Rad)	2.6 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location TOP OF TORUS NEAR PEN X-205 Elevation 587'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PRESSURE SUPPRESSION	Operating Time	12 DAYS
Plant I.D. Number: SO-1-1601-50B Component: SOLENOID VALVE	Temperature (°F)	135
Manufacturer: VERSA	Pressure (PSIA)	14.7
Model Number: VPS 2502 VGS 4522/VGS 4422 Purchase Order Number:	Relative Humidity (%)	100
Function/Service: PILOT SOLENOID FOR TORUS VACUUM RELIEF VALVES 1601-20A&B	Chemical Spray	NA
	Radiation (Rad)	2.6 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location TOP OF TORUS NEAR PEN X-205 Elevation 587'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: FSL-1/2-7541-33A,B Component: FLOW SWITCH LOW Manufacturer: MERCOID Model Number: DA-533-2 R.1 Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		NA

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS COMPONENT IS PART OF AN ELECTRONIC CONTROL SUBSYSTEM WHICH WILL BE REDESIGNED. THE FUNCTION OF THIS COMPONENT WILL BE HANDLED BY ELECTRONIC COMPONENTS ASSOCIATED WITH NEW TRANSMITTERS WHICH WILL BE ASSIGNED THE PLANT I-D'S FT-1/2-7541-1A,B. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED. FOR THE FOLLOWING REASONS- THIS IS A LOW FLOW SWITCH USED TO TRIP THE SGTS AIR HEATER ON LOW FLOW. SINCE RADIATION IS THE ONLY HARSH ENVIRONMENT, FAILURE OF THE AIR HEATER OR SWITCH DUE TO RADIATION BUILDUP ON THE SGTS FILTERS WOULD NOT BE SIGNIFICANT BECAUSE AT THOSE RADIATION LEVELS, THE HEAT GENERATED IN THE CHARCOAL WOULD BE SUFFICIENT TO PROVIDE SOME INLET AIR HUMIDITY REDUCTION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: FSL-1/2-7541-33A Component: FLOW SWITCH LOW	Temperature (°F)	104
Manufacturer: MERCROID	Pressure (PSIA)	14.7
Model Number: DA-533-2 R.1	Relative Humidity (%)	100
Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: PROVIDES AUTO START FOR FAN 1/2-A-7506	Chemical Spray	NA
	Radiation (Rad)	2.3 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2212-29A COLUMNS 9&M, UNIT 2 Elevation 666'6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: FSL-1/2-7541-33B Component: FLOW SWITCH LOW	Temperature (°F)	104
Manufacturer: MERCROID	Pressure (PSIA)	14.7
Model Number: DA-533-2 R.1	Relative Humidity (%)	100
Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: PROVIDES AUTO START FOR FAN 1/2-B-7506	Chemical Spray	NA
	Radiation (Rad)	2.3 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location RACK 2212-29B COLUMNS 17&M, UNIT 1 Elevation 666'6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: FSL-1/2-7541-8A,B Component: FLOW SWITCH LOW Manufacturer: MERCID Model Number: DA-533-3 Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS COMPONENT IS PART OF AN ELECTRONIC CONTROL SUBSYSTEM WHICH WILL BE REDESIGNED. THE FUNCTION OF THIS COMPONENT WILL BE HANDLED BY ELECTRONIC COMPONENTS ASSOCIATED WITH NEW TRANSMITTERS WHICH WILL BE ASSIGNED THE PLANT I-D'S FT-1/2-7541-1A,B. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED. FOR THE FOLLOWING REASONS- THIS IS A LOW FLOW SWITCH USED TO TRIP THE SGTS AIR HEATER ON LOW FLOW. SINCE RADIATION IS THE ONLY HARSH ENVIRONMENT, FAILURE OF THE AIR HEATER OR SWITCH DUE TO RADIATION BUILDUP ON THE SGTS FILTERS WOULD NOT BE SIGNIFICANT BECAUSE AT THOSE RADIATION LEVELS, THE HEAT GENERATED IN THE CHARCOAL WOULD BE SUFFICIENT TO PROVIDE SOME INLET AIR HUMIDITY REDUCTION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT Plant I.D. Number: FSL-1/2-7541-8A Component: FLOW SWITCH LOW Manufacturer: MERCOID Model Number: DA-533-3 Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: SHUT OFF A TRAIN HEATER ON LOW FLOW Accuracy: Spec: NA Demo: NA Location RACK 2212-29A COLUMNS 9 & M, UNIT 2 Elevation 666'6"	Operating Time	CONTINUOUS
	Temperature (°F)	104
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	2.3 E05
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT Plant I.D. Number: FSL-1/2-7541-8B Component: FLOW SWITCH LOW Manufacturer: MERCOID Model Number: DA-533-3 Purchase Order Number: 3620-158 SPEC R-2355 Function/Service: SHUT OFF B TRAIN HEATER ON LOW FLOW Accuracy: Spec: NA Demo: NA Location RACK 2212-29B COLUMNS 17 & M, UNIT 1 Elevation 666'6"	Operating Time	CONTINUOUS
	Temperature (°F)	104
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	2.3 E05
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: MO-1/2-7504A,B Component: MOTOR OPERATED DAMPER Manufacturer: LIMITORQUE WITH AC MOTOR Model Number: SMB-000- Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.6 E06		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT BY MARCH 31, 1985. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE VALVES ARE DESIGNED AS A REDUNDANT PAIR WITH EACH VALVE HAVING A NORMAL OPEN AND FAIL-SAFE OPEN OPERATION.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>B. THESE VALVES COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WILL NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THESE VALVES UNDERGO PERIODIC TESTING TO VERIFY OPERABILITY.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1/2-7504A Component: MOTOR OPERATED DAMPER	Temperature (°F)	104
Manufacturer: LIMITORQUE WITH AC MOTOR Model Number: SMB-000-	Pressure (PSIA)	14.7
Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: UNIT 1/2 TURBINE BLDG INLET ISOLATION	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location 10' 0" W OF COL N 15' 0" N OF COL 9 Elevation 674'6"	Radiation (Rad)	1.6 E06
Flood Level Elevation: NA Above Flood Level: Yes: No:	Aging	NA
	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1/2-7504B Component: MOTOR OPERATED DAMPER	Temperature (°F)	104
Manufacturer: LIMITORQUE WITH AC MOTOR Model Number: SMB-000-	Pressure (PSIA)	14.7
Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: UNIT 1/2 TURBINE BLDG INLET ISOLATION	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location 10' 0" W OF COL N 9' 0" N OF COL 18 Elevation 674'6"	Radiation (Rad)	1.6 E06
Flood Level Elevation: NA Above Flood Level: Yes: No:	Aging	NA
	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: MD-1/2-7505A,B Component: MOTOR OPERATED DAMPER Manufacturer: LIMITORQUE AC MOTOR ALLIS CHALMERS Model Number: SMB-00- Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E06		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT BY MARCH 31, 1985. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE VALVES ARE DESIGNED AS A REDUNDANT PAIR WITH EACH VALVE HAVING A NORMAL OPEN AND FAIL-SAFE OPEN OPERATION.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>B. THESE VALVES COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WILL NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THESE VALVES UNDERGO PERIODIC TESTING TO VERIFY OPERABILITY.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1/2-7505A Component: MOTOR OPERATED DAMPER	Temperature (°F)	104
Manufacturer: LIMITORQUE AC MOTOR ALLIS CHALMERS Model Number: SMB-00-	Pressure (PSIA)	14.7
Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: INLET DAMPER	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location 10' 0" W OF COL N 16' 6" N OF COL 9	Radiation (Rad)	1.3 E06
Elevation 673' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: MO-1/2-7505B Component: MOTOR OPERATED DAMPER	Temperature (°F)	104
Manufacturer: LIMITORQUE AC MOTOR ALLIS CHALMERS Model Number: SMB-00-	Pressure (PSIA)	14.7
Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: INLET DAMPER	Relative Humidity (%)	100
Accuracy: Spec: NA Demo: NA	Chemical Spray	NA
Location 10' 0" W OF COL N 8' 6" N OF COL 18	Radiation (Rad)	1.3 E06
Elevation 673' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: MD-1/2-7507 Component: MOTOR OPERATED DAMPER Manufacturer: LIMITORQUE AC MOTOR ALLIS CHALMERS Model Number: TYPE SMB- Purchase Order Number: 2620-192 SPEC R-2396 Function/Service: B TRAIN FAN DISCHARGE DAMPER Accuracy: Spec: NA Demo: NA Location: 18' 0" W OF COL N 5' 2" N OF COL 16 Elevation: 674' 6" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.1 EO6		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MARCH 1985. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOR THE FOLLOWING REASONS-</p> <ul style="list-style-type: none">A. THESE VALVES ARE DESIGNED AS A REDUNDANT PAIR WITH EACH VALVE HAVING A NORMAL OPEN AND FAIL-SAFE OPEN OPERATION.B. THESE VALVES COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WILL NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.C. THESE VALVES UNDERGO PERIODIC TESTING TO VERIFY OPERABILITY.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: MD-1/2-7507A Component: MOTOR OPERATED DAMPER Manufacturer: LIMITORQUE AC MOTOR (RELIANCE) Model Number: TYPE SMB Purchase Order Number: 3620-192 SPEC R-2396 Function/Service: A TRAIN FAN DISCHARGE DAMPER Accuracy: Spec: NA Demo: NA Location: 18' 0" W OF COL N 16' 6" N OF COL 9 Elevation: 674' 6" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 E06		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (B)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT BY MARCH 31, 1985. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE VALVES ARE DESIGNED AS A REDUNDANT PAIR WITH EACH VALVE HAVING A NORMAL OPEN AND FAIL-SAFE OPEN OPERATION.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>B. THESE VALVES COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WILL NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THESE VALVES UNDERGO PERIODIC TESTING TO VERIFY OPERABILITY.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: TSH-1/2-7541-11A,B Component: TEMPERATURE SWITCH HIGH Manufacturer: CHROMALOX Model Number: BI-MET THM SW Purchase Order Number: 3620-162 SPEC R-2367 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E07		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON-

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>THESE ARE LOW FLOW SWITCHES USED TO TRIP THE SGTS AIR HEATER ON LOW FLOW. SINCE RADIATION IS THE ONLY HARSH ENVIRONMENT, FAILURE OF THE AIR HEATER OR SWITCH DUE TO RADIATION BUILDUP ON THE SGTS FILTERS WOULD NOT BE SIGNIFICANT BECAUSE AT THESE RADIATION LEVELS (1-2E08RADS) THE HEAT GENERATED IN THE CHARCOAL WOULD BE SUFFICIENT TO PROVIDE SOME INLET AIR HUMIDITY REDUCTION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: TSH-1/2-7541-11A Component: TEMPERATURE SWITCH HIGH Manufacturer: CHROMALOX,	Temperature (°F)	104
	Pressure (PSIA)	14.7
Model Number: BI-MET THM SW	Relative Humidity (%)	100
Purchase Order Number: 3620-162 SPEC R-2367 Function/Service: SHUTS OFF HEATER 1/2-A-7503 ON HIGH TEMPERATURE .	Chemical Spray	NA
	Radiation (Rad)	1.3 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location BETWEEN COLUMNS M&N AND 8&9 Elevation 666'6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: TSH-1/2-7541-11B Component: TEMPERATURE SWITCH HIGH Manufacturer: CHROMALOX	Temperature (°F)	104
	Pressure (PSIA)	14.7
Model Number: BI-MET THM SW	Relative Humidity (%)	100
Purchase Order Number: 3620-162 SPEC R-2367 Function/Service: SHUTS OFF HEATER 1/2-B-7503 ON HIGH TEMPERATURE .	Chemical Spray	NA
	Radiation (Rad)	1.3 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location BETWEEN COLUMNS M-17 & N-17 Elevation 666'6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: 1/2-A,B-7503 Component: ELECTRIC AIR HEATER Manufacturer: EDWIN L. WIEGLAND Model Number: Purchase Order Number: 3620-163 SPEC R-2367 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E07		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THESE COMPONENTS WILL BE QUALIFIED TO THE PARAMETERS LISTED ABOVE BY ANALYSIS. FINAL ANALYSIS FOR QUALIFICATION OF THESE COMPONENTS WILL BE COMPLETED BY AUGUST 1, 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON-

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>SINCE RADIATION IS THE ONLY HARSH ENVIRONMENT, FAILURE OF THE AIR HEATER DUE TO RADIATION BUILDUP ON THE SGTS FILTERS WOULD NOT BE SIGNIFICANT BECAUSE AT THOSE RADIATION LEVELS, THE HEAT GENERATED IN THE CHARCOAL WOULD BE SUFFICIENT TO PROVIDE SOME INLET AIR HUMIDITY REDUCTION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1/2-7503A Component: ELECTRIC AIR HEATER	Temperature (°F)	104
Manufacturer: EDWIN L. WIEGLAND	Pressure (PSIA)	14.7
Model Number:	Relative Humidity (%)	100
Purchase Order Number: 3620-163 SPEC R-2367 Function/Service: HEAT/DRY INLET GAS	Chemical Spray	NA
	Radiation (Rad)	1.3 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location 10' 0" W OF COL N 10' 0" N OF COL 9 Elevation 670' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1/2-7503B Component: ELECTRIC AIR HEATER	Temperature (°F)	104
Manufacturer: EDWIN L. WIEGLAND	Pressure (PSIA)	14.7
Model Number:	Relative Humidity (%)	100
Purchase Order Number: 3620-163 SPEC R-2367 Function/Service: HEAT/DRY INLET GAS	Chemical Spray	NA
	Radiation (Rad)	1.3 E07
Accuracy: Spec: NA Demo: NA	Aging	NA
Location 10' 0" W OF COL N 15' 0" N OF COL 18 Elevation 670' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: 1/2-7506-A,B Component: MOTOR-EXHAUST FAN Manufacturer: GENERAL ELECTRIC Model Number: 5K256BK2038 Purchase Order Number: 3620-184 SPEC R- Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.4 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THESE MOTORS HAVE CLASS B INSULATION. OTHER

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>MOTORS WITH CLASS B INSULATION HAVE BEEN TESTED TO GREATER THAN OR EQUAL TO 2E07 RADS AND QUALIFIED. IT IS EXPECTED THIS INSULATION WOULD NOT SUFFER RADIATION FAILURE FOR THE SPECIFIED DOSE (2.2 E06 RADS).</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1/2-7506A Component: MOTOR-EXHAUST FAN	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K256BK2038	Relative Humidity (%)	100
Purchase Order Number: 3620-184 SPEC R- Function/Service: SYSTEM EXHAUST FAN	Chemical Spray	NA
	Radiation (Rad)	2.4 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location 15'9" E OF COL.M 8'0" S OF COL.10 Elevation 671'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1/2-7506B Component: MOTOR-EXHAUST FAN	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K256BK2038	Relative Humidity (%)	100
Purchase Order Number: 3620-184 SPEC R- Function/Service: SYSTEM EXHAUST FAN	Chemical Spray	NA
	Radiation (Rad)	2.4 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location 10'0" W OF COL.N 17'0" S OF COL.15 Elevation 671'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY GAS TREATMENT Plant I.D. Number: 2212-29A&B Component: LOCAL CONTROL PANEL Manufacturer: *HARLO Model Number: D12971 Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.3 E06		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. NO QUALIFIED COMPONENTS HAVE BEEN LOCATED IN THE MARKETPLACE FOR THIS INTEGRATED DOSE. THE PANELS WILL BE RELOCATED AND/OR SHIELDING WILL BE PROVIDED TO REDUCE EXPOSURE TO NON HARSH LEVELS BY MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOLLOWING REASON- THIS PANEL CONTAINS RELAYS AND A TIMER. THE SYSTEM CAN BE OPERATED WITHOUT THE TIMER. THE RELAYS CONTAIN BAKELITE AND NYLON. FOR THE SPECIFIED SERVICE BOTH ARE EXPECTED TO PERFORM THEIR REQUIRED FUNCTION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 2212-29A Component: LOCAL CONTROL PANEL	Temperature (°F)	104
Manufacturer: HARLO	Pressure (PSIA)	14.7
Model Number: D12971	Relative Humidity (%)	100
Purchase Order Number: 12971	Chemical Spray	NA
Function/Service: CONTAINS RELAYS AND CABLE FOR STANDBY GAS TREATMENT SYSTEM CONTROLS.	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 9&M	Submergence	NA
Elevation 666'6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY GAS TREATMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 2212-29B Component: LOCAL CONTROL PANEL	Temperature (°F)	104
Manufacturer: HARLO	Pressure (PSIA)	14.7
Model Number: D12971	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: CONTAINS RELAYS AND CABLE FOR STANDBY GAS TREATMENT SYSTEM CONTROLS.	Radiation (Rad)	1.3 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 17&M	Submergence	NA
Elevation 666'6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: SERVICE WATER Plant I.D. Number: 1-5746A,B Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC Model Number: 5K213AK2476 Purchase Order Number: 3620-189 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	114	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	5.1 E05		REF. (D)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FIELD MEASUREMENT C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>THE FOLLOWING REASON- THESE MOTORS HAVE CLASS B INSULATION. OTHER MOTORS WITH CLASS B INSULATION HAVE BEEN TESTED TO GREATER THAN OR EQUAL TO 2E07 RADS AND QUALIFIED. IT IS EXPECTED THIS INSULATION WOULD NOT SUFFER RADIATION FAILURE FOR THE SPECIFIED DOSES (1.5 E05 RADS).</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: SERVICE WATER	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5746A Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC	Temperature (°F)	114
Model Number: 5K213AK2476	Pressure (PSIA)	14.7
Purchase Order Number: 3620-189	Relative Humidity (%)	100
Function/Service: RHR A ROOM EMERGENCY VENTILATION COOLER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	5.1 E05
Location NE CORNER ROOM	Aging	NA
Elevation 570'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: SERVICE WATER	Operating Time	CONTINUOUS
Plant I.D. Number: 1-5746B Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC	Temperature (°F)	114
Model Number: 5K213AK2476	Pressure (PSIA)	14.7
Purchase Order Number: 3620-189	Relative Humidity (%)	100
Function/Service: RHR B ROOM EMERGENCY VENTILATION COOLER	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	5.1 E05
Location SE CORNER ROOM	Aging	NA
Elevation 570'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: SERVICE WATER Plant I.D. Number: 1-5748-A,B Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC Model Number: 5K184AL2151 Purchase Order Number: 3620-189 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	30 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.5 E05		REF. (E)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURES 5.2.17 AND 5.2.18 B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>THE FOLLOWING REASON- THESE MOTORS HAVE CLASS B INSULATION. OTHER MOTORS WITH CLASS B INSULATION HAVE BEEN TESTED TO GREATER THAN OR EQUAL TO 2E07 RADS AND QUALIFIED. IT IS EXPECTED THIS INSULATION WOULD NOT SUFFER RADIATION FAILURE FOR THE SPECIFIED DOSES (1.5 E05 RADS).</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: SERVICE WATER	Operating Time	30 DAYS
Plant I.D. Number: 1-5748A	Temperature (°F)	114
Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K184AL2151	Relative Humidity (%)	100
Purchase Order Number: 3620-189	Chemical Spray	NA
Function/Service: CORE SPRAY ROOM EMERGENCY VENTILATION COOLER	Radiation (Rad)	1.4 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NW CORNER ROOM	Submergence	NA
Elevation 560'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: SERVICE WATER	Operating Time	30 DAYS
Plant I.D. Number: 1-5748B	Temperature (°F)	114
Component: ROOM COOLER FAN MOTOR Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 5K184AL2151	Relative Humidity (%)	100
Purchase Order Number: 3620-189	Chemical Spray	NA
Function/Service: CORE SPRAY ROOM EMERGENCY VENTILATION COOLER	Radiation (Rad)	1.5 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SW CORNER ROOM	Submergence	NA
Elevation 560'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

ALL COMPONENTS IN THIS SYSTEM
ARE LOCATED IN A MILD ENVIRONMENT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: SEE ATTACHED SHEETS Component: TEMPERATURE SWITCH Manufacturer: FENWAL Model Number: 17002-40 Purchase Order Number: GE H1184 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	<1 MINUTE		REF. (A)			
	Temperature (°F)	200		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	27.5		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04		REF. (C)			SEE NOTE (1)
	Aging	150 F		REF. (D)			SEE NOTE (1)
	Submergence	1.4 E06 RADS	NA	NA	NA		

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DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.2.1 AND AS SOON AS STEAM LINE BREAK OCCURS IN THE STEAM TUNNEL, THE SENSORS DETECT HIGH TEMPERATURE AND THEIR FUNCTION IS OVER. C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. A. A PERIODIC CALIBRATION IN ACCORDANCE WITH CALIBRATION PROCEDURE QIS 26-1 IS PERFORMED ON THESE COMPONENTS WHICH JUSTIFIES THAT THESE ARE OPERATIONAL DURING THE REQUIRED SERVICE CONDITIONS. THE MAXIMUM OPERATING TEMPERATURE OF THE SWITCHES BY DESIGN IS 600F, WHICH IS ABOVE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>THE REQUIRED OPERATING TEMPERATURE. B. THESE COMPONENTS WILL BE QUALIFIED BY ENGINEERING ANALYSIS BY MAY, 1984.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-15A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-15B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-15C Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation '595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-15D Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation '595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-16A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-16B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-16C Component: TEMPERATURE SWITCH	Temperature (*F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-16D Component: TEMPERATURE SWITCH	Temperature (*F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 595' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-17A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-17B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-17C	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	27.5
Manufacturer: FENWAL	Relative Humidity (%)	100
Model Number: 17002-40	Chemical Spray	NA
Purchase Order Number: GE H1184	Radiation (Rad)	<1.0 E04
Function/Service: MAIN STEAM LINE LEAK DETECTION	Aging	150 F 1.4 E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location STEAM TUNNEL		
Elevation 606' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-17D	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	27.5
Manufacturer: FENWAL	Relative Humidity (%)	100
Model Number: 17002-40	Chemical Spray	NA
Purchase Order Number: GE H1184	Radiation (Rad)	<1.0 E04
Function/Service: MAIN STEAM LINE LEAK DETECTION	Aging	150 F 1.4 E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location STEAM TUNNEL		
Elevation 606' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-18A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-18B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-18C Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-261-18D Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: FENWAL	Pressure (PSIA)	27.5
Model Number: 17002-40	Relative Humidity (%)	100
Purchase Order Number: GE H1184	Chemical Spray	NA
Function/Service: MAIN STEAM LINE LEAK DETECTION	Radiation (Rad)	<1.0 E04
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location STEAM TUNNEL		1.4 E06 RADS
Elevation 606' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MO-1-1201-2 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-00-10 Purchase Order Number: SPEC R-2358 Function/Service: REACTOR WATER CLEANUP INBOARD ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL Elevation: 602' 10" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	30 SECONDS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)		SEE NOTE (2)	SEE NOTE (1)
	Radiation (Rad)	<1.0 E04	2.0 E08	REF. (E)	REF. (F)	SEQUENTIAL TEST	
	Aging	150F 1.1 E06 RADS	155C FOR 100 HOURS	REF. (G)	REF. (F)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

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DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7.1 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE COMPONENTS ARE DESIGNED AS REDUNDANT PAIRS, EACH SEPARATED FROM THE OTHER WITH

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<p>F. REPORT NO. WCAP 7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS.</p> <p>G. NEDO REPORT 24217, TABLE 4-3</p>	<p>ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT.</p> <p>B. THESE COMPONENTS COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THESE COMPONENTS UNDERGO PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE RELATED DEGRADATION.</p>

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MO-1-1201-5 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: TYPE SMB-00-15 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: REACTOR WATER CLEANUP OUTBOARD ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: RWCU HX ROOM NEAR PEN, AZIMUTH 270 Elevation: 625'0" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	30 SECONDS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	218	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	17.0	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	1.0 E07	REF. (D)	REF. (B)	SIMILARITY TEST	
	Aging	4.1 E06 RADS	165 F FDR 199.8 HOURS	REF. (E)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7.1 B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE LETTER J. R. DRAB TO J. HINK DATED OCT 24, 1980. C. THIS REPORT SECTION 4.3.2 D. BECHTEL RADIATION STUDY	

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E. NEDO REPORT 24217, TABLE 4-3	

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MO-1-220-1 Component: MOTOR OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-000-5 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: MAIN STEAM LINE, DRAIN CONTAINMENT ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL BASE OF MSIV Elevation: 589'0"	Operating Time	35 SECONDS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (D)			SEE NOTE (1)
	Radiation (Rad)	< 1.0 E04	2.0 E08	REF. (E)	REF. (F)		
	Aging	150 F 1.1 E06 RADS	311 F FOR 100 HR	REF. (G)	REF. (F)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THIS COMPONENT IS DESIGNED AS A REDUNDANT PAIR WITH MO-1-220-2, EACH SEPARATED FROM

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>F. REPORT NO. WCAP 7410-L TEST ON LIMITORQUE VALVE OPERATORS G. NEDO REPORT 24217, TABLE 4-3</p>	<p>THE OTHER WITH ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT.</p> <p>B. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THIS COMPONENT UNDERGOES PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE RELATED DEGRADATION.</p> <p>D. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2.</p> <p>E. OTHER VALVES ARE AVAILABLE ON THE MAIN STEAM LINE DRAIN LINES TO PERFORM THE ISOLATION FUNCTION SHOULD VALVE MO-1-220-1 FAIL TO CLOSE.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MD-1-220-2 Component: MOTOR OPERATED GLOBE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-00-7.5 Purchase Order Number: 3620-125 Function/Service: MAIN STEAM LINE, DRAIN CONTAINMENT ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: STEAM TUNNEL NEAR DRYWELL PENETRATION Elevation: 589'0"	Operating Time	35 SECONDS	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	304	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	27.5	39.7	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	2.0 E07	REF. (D)	REF. (B)		
	Aging	150 F 1.4 E06 RADS	165 F FOR 199.8 HRS	REF. (E)	REF. (B)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. REPORT NO. 600461-B0003, QUALIFICATION TYPE TEST REPORT- LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. LIMITORQUE REPORT NO. 00027 LIMITORQUE ACTUATOR TEMPERATURE RELATED TO HIGH SUPERHEAT AMBIENT TEMPERATURES. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982</p> <p>D. BECHTEL RADIATION STUDY</p> <p>E. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION VALVE Plant I.D. Number: MO-1-3702 Component: MOTOR OPERATED VALVE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-2-40 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: CONTAINMENT ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: TOP OF TORUS NEAR 45 AZIMUTH Elevation: 590'0"	Operating Time	10 MINUTES	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	K
	Temperature (°F)	120	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.1 E05	2.0 E07	REF. (E)	REF. (B)	INDIVIDUAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (F)	REF. (G)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. REPORT NO 600461-B0003 QUALIFICATION TYPE TEST REPORT LIMITORQUE VALVE ACTUATORS FOR CLASS IE SERVICE OUTSIDE PRIMARY CONTAINMENT. C. THIS COMPONENT WILL COMPLETE ITS FUNCTION WITHIN 10 MINUTES. DURING THAT TIME INTERVAL THE ENVIRON-	

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>MENTAL CONDITIONS WILL NOT CHANGE. THEREFORE THE PREACCIDENT ENVIRONMENTAL CONDITIONS WILL STILL EXIST. D. FSAR SECTION 10.10 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MO-1-3703 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) Model Number: TYPE SMB-000-5 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: RBCCW DRYWELL RETURN ISOLATION Accuracy: Spec: NA Demo: NA Location: TOP OF TORUS NEAR 45 AZIMUTH Elevation: 513' 9" Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	10 MINUTES	16 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	K
	Temperature (°F)	120	250	REF. (C)	REF. (B)	SIMULTANEOUS TEST	
	Pressure (PSIA)	14.7	39.7	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	1.1 E05	2.0 E07	REF. (E)	REF. (B)	SEQUENTIAL TEST	
	Aging	NA	165 F FOR 199.8 HOURS	REF. (F)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. REPORT NO. 600461-B0003. QUALIFICATION TYPE TEST REPORT LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. REFERENCE LIMITORQUE LETTER DATED MAY 19, 1981 J. B. DRAB TO J. HINK. D. FSAR SECTION 10.10	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: MD-1-3706 Component: MOTOR-OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-000-5 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: RBCCW DRYWELL RETURN ISOLATION VLV Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL Elevation: 590' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	10 MINUTES		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMINE WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	3.3 E05	2.0 E08	REF. (F)	REF. (G)	SEQUENTIAL TEST	
	Aging	150F 1.1 E06 RADS	311 FOR 100 HOURS	REF. (H)	REF. (G)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. NSED-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. CONTAINMENT SPRAY SYSTEM REQUIRES MANUAL	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THIS COMPONENT IS DESIGNED AS A REDUNDANT PAIR WITH MD-1-3703 EACH

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>INITIATION. IT IS ASSUMED THIS WILL NOT OCCUR WITHIN 10 MINUTES. THEREFORE, QUALIFICATION IS NOT REQUIRED.</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. REPORT NO. WCAP 7410-L TEST ON LIMITORQUE VALVE MOTOR OPERATORS.</p> <p>H. NEDO REPORT 24217, TABLE 4-3</p>	<p>SEPARATED FROM THE OTHER WITH ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT. THESE COMPONENTS COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>THESE COMPONENTS UNDERGO PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE RELATED DEGRADATION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CONTAINMENT ISOLATION Plant I.D. Number: SO-1-203-1&2A, B, C, D Component: MSIV AND SOLENOID FOR AIR OPERATOR Manufacturer: AUTOMATIC VALVE CO Model Number: C5512 Purchase Order Number: GE H0049 SPEC 21A5644AB Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	10.5 SECONDS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	<1.0 EO4		REF. (F)			
	Aging	150 F 1.4 EO6 RADS		REF. (G)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

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DOCUMENTATION REFERENCES	NOTES
A. FSAR SECTION 6.2.7.2 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. ALTHOUGH THE VALVES ARE INSIDE THE CONTAINMENT,	1. THIS EQUIPMENT WILL BE QUALIFIED BY TYPE TEST BEFORE THE END OF THE SECOND QUARTER OF 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. THESE COMPONENTS ARE DESIGNED AS REDUNDANT PAIRS, EACH SEPARATED FROM THE OTHER WITH

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>QUALIFICATION FOR CONTAINMENT SPRAY IS NOT REQUIRED BECAUSE THE SPRAY SYSTEM WOULD NOT OPERATE WITHIN 10.5 SECONDS</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. NEDO REPORT 24217, TABLE 4-3</p>	<p>ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT.</p> <p>B. THESE COMPONENTS COMPLETE THEIR FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THESE COMPONENTS UNDERGO PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE RELATED DEGRADATION.</p> <p>D. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2.</p> <p>E. OPERATOR ACTION TO CUT THE AIR SUPPLY TO THE SOLENOIDS WOULD ASSURE CLOSURE OF THE MSIV'S.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SO-1-203-1A	Temperature (°F)	334
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	63.0
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR INBOARD MSIV ON C STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	1.1 E06 RADS
Location INSIDE DRYWELL		NA
Elevation 591' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SO-1-203-1B	Temperature (°F)	334
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	63.0
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: GE-H0049 SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR INBOARD MSIV ON D STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	1.1 E06 RADS
Location INSIDE DRYWELL		NA
Elevation 591' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION Plant I.D. Number: SO-1-203-1C Component: MSIV AND SOLENOID FOR AIR OPERATOR Manufacturer: AUTOMATIC VALVE CO Model Number: C5512 Purchase Order Number: GE-H0049 SPEC 21A5644AB Function/Service: PILOT SOLENOID VALVE FOR INBOARD MSIV ON A STEAM LINE Accuracy: Spec: NA Demo: NA Location INSIDE DRYWELL Elevation 591' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	10.5 SEC
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	<1.0 E04
	Aging	150 F
		1.1 E06 RADS
	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION Plant I.D. Number: SO-1-203-1D Component: MSIV AND SOLENOID FOR AIR OPERATOR Manufacturer: AUTOMATIC VALVE CO Model Number: C5512 Purchase Order Number: GE-H0049 SPEC 21A5644AB Function/Service: PILOT SOLENOID VALVE FOR INBOARD MSIV ON B STEAM LINE Accuracy: Spec: NA Demo: NA Location INSIDE DRYWELL Elevation 591' 0" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	10.5 SEC
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	<1.0 E04
	Aging	150 F
		1.1 E06 RADS
	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SD-1-203-2A	Temperature (°F)	304
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	27.5
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR OUTBOARD MSIV ON A STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.4 E06 RADS
Location STEAM TUNNEL NEAR DRYWELL PENETRATION	Submergence	NA
Elevation 591' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SD-1-203-2B	Temperature (°F)	304
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	27.5
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR OUTBOARD MSIV ON B STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.4 E06 RADS
Location STEAM TUNNEL NEAR DRYWELL PENETRATION	Submergence	NA
Elevation 591' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SO-1-203-2C	Temperature (°F)	304
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	27.5
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR OUTBOARD MSIV ON C STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.4 E06 RADS
Location STEAM TUNNEL NEAR DRYWELL PENETRATION	Submergence	NA
Elevation 591' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CONTAINMENT ISOLATION	Operating Time	10.5 SEC
Plant I.D. Number: SO-1-203-2D	Temperature (°F)	304
Component: MSIV AND SOLENOID FOR AIR OPERATOR	Pressure (PSIA)	27.5
Manufacturer: AUTOMATIC VALVE CO	Relative Humidity (%)	100
Model Number: C5512	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC 21A5644AB	Radiation (Rad)	<1.0 E04
Function/Service: PILOT SOLENOID VALVE FOR OUTBOARD MSIV ON D STEAM LINE	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.4 E06 RADS
Location STEAM TUNNEL NEAR DRYWELL PENETRATION	Submergence	NA
Elevation 591' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

ALL COMPONENTS IN THIS SYSTEM
ARE LOCATED IN A MILD ENVIRONMENT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: AD-1-220-44 Component: SOLENOID VALVE Manufacturer: ASCO Model Number: TYPE NP-1 Purchase Order Number: 3620-131 SPEC R-2395 Function/Service: PILOT SOLENOID FOR RECIRCULATION LOOP SAMPLING VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL NEAR 270 AZIMUTH Elevation: 595'0"	Operating Time	5 SECONDS	30 DAYS	REF. (A)	REF. (B)	SIMULTANEOUS TEST	
	Temperature (°F)	334	346	REF. (C)	REF. (B)	TEST	
	Pressure (PSIA)	63.0	124.7	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (E)	REF. (F)		
	Radiation (Rad)	<1.0 E04	2.0 E08	REF. (G)	REF. (B)	SEQUENTIAL TEST	
	Aging	150 F 1.1 E06 RADS	268F FOR 288 HOURS	REF. (H)	REF. (B)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. TEST REPORT AQS 21678/TR, REV A, QUALIFI- CATION TESTS OF SOLENOID VALVES BY ENVIRON- RADIATION, ETC. C. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>D. FSAR FIGURE 5.2.17 E. FSAR SECTION 6.2.4.2.2 F. TO OCCUR WITHIN 10 MINUTES. THEREFORE NO CONTAINMENT SPRAY IS MANUAL AND IS NOT EXPECTED QUALIFICATION IS REQUIRED. G. BECHTEL RADIATION STUDY H. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: LIS-1-263-58A,B Component: LEVEL INDICATOR SWITCH Manufacturer: YARWAY Model Number: 4418C Purchase Order Number: GE A8041 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	5.5 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (D)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. THIS REPORT SECTION 4.3.6	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- REDUNDANT INSTRUMENTS ARE AVAILABLE TO PROVIDE THE OPERATOR THE REQUIRED INFORMATION TO ALLOW MANUAL CONTROL. THESE REDUNDANT INSTRUMENTS ARE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	LIS-1-263-57A,B AND LIS-1-263-59A,B AND THEY ARE IN A NON-HARSH ENVIRONMENT.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	CONTINUOUS
Plant I.D. Number: LIS-1-263-58A Component: LEVEL INDICATOR SWITCH Manufacturer: YARWAY	Temperature (*F)	104
Model Number: 4418C	Pressure (PSIA)	14.7
Purchase Order Number: GE A8041	Relative Humidity (%)	100
Function/Service: REACTOR VESSEL LOW LOW WATER LEVEL ALARM 1/2 PCI ISOLATION SIG GPI ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	5.5 E05
Location RACK 2201-6 COLUMN 16&M	Aging	NA
Elevation 623' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	CONTINUOUS
Plant I.D. Number: LIS-1-263-58B Component: LEVEL INDICATOR SWITCH Manufacturer: YARWAY	Temperature (*F)	104
Model Number: 4418C	Pressure (PSIA)	14.7
Purchase Order Number: GE A8041	Relative Humidity (%)	100
Function/Service: REACTOR VESSEL LOW LOW WATER LEVEL ALARM 1/2 PCI ISOLATION SIG GPI ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	5.5 E05
Location RACK 2201-6 COLUMN 16&M	Aging	NA
Elevation 623' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: LITS-1-263-73A,B Component: LEVEL INDICATING TRANSMITTER SWITCH Manufacturer: YARWAY Model Number: 4418CE Purchase Order Number: GE A8043 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	30 DAYS	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	104	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	8.0 E04		REF. (D)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURES 5.2.17 AND 5.2.18 B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	1. REPLACEMENT COMPONENT QUALIFIED TO THE PARAMETERS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING OR BEFORE THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THIS TRANSMITTER PROVIDES AN INTERLOCK FOR

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTAINMENT SPRAY. THIS INTERLOCK, SHOULD IT FAIL, WOULD NOT AFFECT THE SAFETY ANALYSIS SINCE NO CREDIT FOR CONTAINMENT SPRAY WAS TAKEN.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	30 DAYS
Plant I.D. Number: LITS-1-263-73A	Temperature (°F)	104
Component: LEVEL INDICATING TRANSMITTER SWITCH	Pressure (PSIA)	14.7
Manufacturer: YARWAY	Relative Humidity (%)	100
Model Number: 4418CE	Chemical Spray	NA
Purchase Order Number: GE A8043	Radiation (Rad)	8.0 E04
Function/Service: REACTOR VESSEL LEVEL INDICATION CONTAINMENT SPRAY INTERLOCK	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location RACK 2201-7 COLUMNS 15&K		
Elevation 606' - 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	30 DAYS
Plant I.D. Number: LITS-1-263-73B	Temperature (°F)	104
Component: LEVEL INDICATING TRANSMITTER SWITCH	Pressure (PSIA)	14.7
Manufacturer: YARWAY	Relative Humidity (%)	100
Model Number: 4418CE	Chemical Spray	NA
Purchase Order Number: GE A8043	Radiation (Rad)	8.0 E04
Function/Service: REACTOR VESSEL LEVEL INDICATION CONTAINMENT SPRAY INTERLOCK	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location RACK 2201-8 COLUMNS 17&K		
Elevation 606' - 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: MO-1-202-5 A, B Component: MOTOR OPERATED GATE VALVE&BRAKE Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR Model Number: SMB-3-100 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	2 MINUTES	16 DAYS	REF. (A)	REF. (B)	SIMULT TEST	
	Temperature (°F)	334	250	REF. (C)	REF. (B)	SIMULT TEST	SEE NOTE (1)
	Pressure (PSIA)	63.0	39.7	REF. (D)	REF. (B)	SIMULT TEST	SEE NOTE (1)
	Relative Humidity (%)	100	100	REF. (D)	REF. (B)	SIMULT TEST	
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (E)	REF. (F)		
	Radiation (Rad)	6.7 E04	2.0 E07	REF. (G)	REF. (B)	SEQUEN TEST	
	Aging	150 F 1.1 E06 RADS	165 F FOR 199.8 HOURS	REF. (H)	REF. (B)	SEQUEN TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR SECTION 6.2.6 B. REPORT NO 600461-B0003 QUALIFICATION TYPE TEST REPORT-LIMITORQUE VALVE ACTUATORS FOR CLASS 1E SERVICE OUTSIDE PRIMARY CONTAINMENT. C. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. REPLACEMENT COMPONENTS QUALIFIED TO MEET THE ENVIRONMENTAL PARAMETERS AS LISTED ARE BEING PROCURED AND WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>D. FSAR FIGURE 5.2.17 E. FSAR SECTION 6.2.4.2.2 F. CONTAINMENT SPRAY SYSTEM REQUIRES MANUAL INITIATION. IT IS ASSUMED THIS WILL NOT OCCUR WITHIN 10 MINUTES. THEREFORE, QUALIFICATION IS NOT REQUIRED. G. BECHTEL RADIATION STUDY H. NEDO REPORT 24217, TABLE 4-3</p>	<p>THE FOLLOWING REASONS-</p> <ul style="list-style-type: none">A. THESE COMPONENTS OR SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED FOR ENVIRONMENTAL CONDITIONS.B. THESE COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT THE DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.C. EACH COMPONENT UNDERGOES PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TEST WOULD IDENTIFY AGE-RELATED DEGRADATION.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	2 MINUTES
Plant I.D. Number: MO-1-202-5-A	Temperature (°F)	334
Component: MOTOR OPERATED GATE VALVE&BRAKE	Pressure (PSIA)	63.0
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-3-100	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	6.7 E04
Function/Service: ISOLATE RECIRCULATION LOOP	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1 E06 RADS
Location INSIDE DRYWELL	Submergence	NA
Elevation 584' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR RECIRCULATION	Operating Time	2 MINUTES
Plant I.D. Number: MO-1-202-5-B	Temperature (°F)	334
Component: MOTOR OPERATED GATE VALVE&BRAKE	Pressure (PSIA)	63.0
Manufacturer: LIMITORQUE (RELIANCE) AC MOTOR	Relative Humidity (%)	100
Model Number: SMB-3-100	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	6.7 E04
Function/Service: ISOLATE RECIRCULATION LOOP	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1 E06 RADS
Location INSIDE DRYWELL	Submergence	NA
Elevation 584' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: POS-1-220-44 Component: POSITION SWITCH Manufacturer: NAMCO SNAPLOCK Model Number: EA 08011100 Purchase Order Number: Function/Service: POSITION SWITCH FOR RECIRCULATION LOOP SAMPLING VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL NEAR 270 AZIMUTH Elevation: 619' 0"	Operating Time	5 SECONDS		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	<1.0 EO4		REF. (F)			
	Aging	150 F 1.1 EO6 RADS	NOT REQD.	REF. (G)	REF. (H)		SEE NOTE (1)
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. TECH SPEC TABLE 3.7-1 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. CONTAINMENT SPRAY SYSTEM REQUIRES MANUAL	1. THIS COMPONENT WILL BE REPLACED WITH A QUALIFIED COMPONENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THIS COMPONENT PROVIDES INDICATION ONLY

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>INITIATION. IT IS ASSUMED THIS WILL NOT OCCUR WITHIN 10 MINUTES. THEREFORE, QUALIFICATION IS NOT REQUIRED.</p> <p>F. BECHTEL RADIATION STUDY G. NEDO REPORT 24217, TABLE 4-3</p>	<p>AND ITS FAILURE WOULD NOT AFFECT SAFETY CIRCUITS OR MISLEAD THE OPERATOR.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR RECIRCULATION Plant I.D. Number: PT-1-662 Component: PRESSURE TRANSMITTER Manufacturer: GENERAL ELECTRIC Model Number: 50-551032GAAWI GEMAC 551 Purchase Order Number: GE D8164A Function/Service: REACTOR PRESSURE SIGNAL TO 640-27 Accuracy: Spec: NA Demo: NA Location: RACK 2201-6 COLUMNS 16&M Elevation: 623'-0"	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	5.5 E05	2.75 E06	REF. (C)	REF. (D)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
. A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. WYLE TEST REPORT 45917-1, DATED JULY 30, 1982 E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: PROCESS RADIATION MONITORING Plant I.D. Number: RE-1-1735A&B Component: RADIATION ELEMENT GM TUBE Manufacturer: GENERAL ELECTRIC Model Number: DWG 194X927GI Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	10 MINUTES	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	120	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (C)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	NOT REQD.	REF. (D)	REF. (B)		
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. THIS REPORT SECTION 4.4 C. FSAR SECTION 10.10 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PROCESS RADIATION MONITORING	Operating Time	10 MINUTES
Plant I.D. Number: RE-1-1735A	Temperature (°F)	120
Component: RADIATION ELEMENT GM TUBE	Pressure (PSIA)	14.7
Manufacturer: GENERAL ELECTRIC	Relative Humidity (%)	100
Model Number: DWG 194X927GI	Chemical Spray	NA
Purchase Order Number:	Radiation (Rad)	<1.0 E04
Function/Service: REACTOR BUILDING VENTILATION RADIATION MONITOR	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location ABOVE TURBINE FLOOR COLUMNS G AND 13		
Elevation 639'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: PROCESS RADIATION MONITORING	Operating Time	10 MINUTES
Plant I.D. Number: RE-1-1735B	Temperature (°F)	120
Component: RADIATION ELEMENT GM TUBE	Pressure (PSIA)	14.7
Manufacturer: GENERAL ELECTRIC	Relative Humidity (%)	100
Model Number: DWG 194X927GI	Chemical Spray	NA
Purchase Order Number:	Radiation (Rad)	<1.0 E04
Function/Service: REACTOR BUILDING VENTILATION RADIATION MONITOR	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location ABOVE TURBINE FLOOR COLUMNS G AND 13		
Elevation 639'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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ALL COMPONENTS IN THIS SYSTEM
ARE LOCATED IN A MILD ENVIRONMENT

ALL COMPONENTS IN THIS SYSTEM
ARE LOCATED IN A MILD ENVIRONMENT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY AC POWER Plant I.D. Number: SEE ATTACHED SHEETS Component: 480 V MCC Manufacturer: GENERAL ELECTRIC Model Number: 7700 Purchase Order Number: SEE ATTACHED SHEETS Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	120	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	6.1 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. WORK IS IN PROGRESS TO TEST THIS EQUIPMENT. THE FINAL TEST REPORT IS SCHEDULED TO BE RECEIVED FROM WYLE LABORATORIES BY DECEMBER 31, 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASON- THE DOSES TO MCC'S ARE IN THE 10.0 E05

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	RADS RANGE WHICH IS COMPARABLE TO THE LEVEL FOR WHICH MCC'S ARE CURRENTLY QUALIFIED.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 18-1A Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169 G/C	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	1.2 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMN 17 & N	Submergence	NA
Elevation 623'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 18-1B Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169 G/C	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	9.9 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location SA	Submergence	NA
Elevation 623'-0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 18-3 Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	6.1 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMN 15 & N	Submergence	NA
Elevation 623' -0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 18/19-5 Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169-5	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	4.4 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 18 & M	Submergence	NA
Elevation 595' -0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 19-1 Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169 G/C	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	6.8 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 18 & N	Submergence	NA
Elevation 623' -0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 19-3 Component: 480 V MCC	Temperature (°F)	120
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	2.6 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 13 & G	Submergence	NA
Elevation 611' -6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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Owner: COMMONWEALTH EDISON
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: STANDBY AC POWER	Operating Time	CONTINUOUS
Plant I.D. Number: MCC 19-6 Component: 480 V MCC	Temperature (°F)	104
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	14.7
Model Number: 7700	Relative Humidity (%)	100
Purchase Order Number: 62169 G/C	Chemical Spray	NA
Function/Service: POWER DISTRIBUTION	Radiation (Rad)	6.8 EO4
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NEAR COLUMNS 18 & K	Submergence	NA
Elevation 623' -0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System:	Operating Time	
Plant I.D. Number:	Temperature (°F)	
Component:	Pressure (PSIA)	
Manufacturer:	Relative Humidity (%)	
Model Number:	Chemical Spray	
Purchase Order Number:	Radiation (Rad)	
Function/Service:	Aging	
Accuracy: Spec: Demo:	Submergence	
Location		
Elevation		
Flood Level Elevation: Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY DC POWER Plant I.D. Number: 125 V DCDP 1 Component: 125 V DC REACTOR BLDG DISTRIBUTION PANEL Manufacturer: CUTLER HAMMER Model Number: Purchase Order Number: Function/Service: DISTRIBUTE DC POWER Accuracy: Spec: NA Demo: NA Location: BETWEEN COLS. M & N AND 15 & 16 Elevation: 623' 0"	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	5.4 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. THE DISTRIBUTION PANEL BREAKERS ARE BEING ENVIRONMENTALLY TESTED WHILE THE REMAINDER OF THE PANEL COMPONENTS HAVE BEEN QUALIFIED BY ANALYSIS. THE FINAL TEST REPORT IS SCHEDULED TO BE RECEIVED FROM WYLE LABORATORIES BY THE THIRD QUARTER OF 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>IS JUSTIFIED FOR THE FOLLOWING REASON- THE DOSE TO THIS DISTRIBUTION PANEL IS IN THE 6.0 E05 RADS RANGE WHICH IS COMPARABLE TO THE LEVEL FOR WHICH DISTRIBUTION PANELS ARE CURRENTLY QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: STANDBY DC POWER Plant I.D. Number: 125 V DCDP 1B Component: 125 V DC TURB BLDG DISTRIBUTION PANEL Manufacturer: CUTLER HAMMER Model Number: Purchase Order Number: Function/Service: DISTRIBUTE DC POWER Accuracy: Spec: NA Demo: NA Location: BATTERY CHARGER ROOM Elevation: 615' 6"	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (*F)	120	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 E04	NOT REQD.	REF. (C)	REF. (A)		
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: SEE ATTACHED SHEETS Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	< 1 MINUTE		REF. (A)			
	Temperature (*F)	200		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	14.7	NOT REQD.	REF. (C)	REF. (D)		
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	<1.0 EO4	NOT REQD.	REF. (E)	REF. (D)		
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS TEMPERATURE SWITCH IS USED TO DETECT AN RCIC STEAM LINE BREAK. AS SOON AS A BREAK OCCURS, THIS SWITCH WILL FUNCTION ISOLATING THE RCIC STEAM LINE BY DETECTING HIGH TEMPERATURE. THIS WOULD OCCUR IN LESS THAN ONE MINUTE. ONE MINUTE WAS CONSERVATIVELY ASSUMED.	1. THE CALIBRATION PROCEDURES WILL BE MODIFIED TO INCORPORATE 100% HUMIDITY. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ROUTINE CALIBRATION BY TESTING IS SUFFICIENT TO DETERMINE THE COMPONENTS

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>PERIODIC CALIBRATION IS SUFFICIENT TO DEMONSTRATE COMPONENT CAPABILITY TO FUNCTION UNDER ACCIDENT ENVIRONMENTAL TEMPERATURE CONDITIONS.</p> <ul style="list-style-type: none">B. TECH SPEC TABLE 3.2-1C. FSAR SECTION 6.2.3.2D. THIS REPORT SECTION 4.4E. BECHTEL RADIATION STUDYF. NEDO REPORT 24217, TABLE 4-3G. THIS REPORT SECTION 4.3.6	<p>CAPABILITY TO FUNCTION UNDER ACCIDENT ENVIRONMENTAL CONDITIONS. THE MAXIMUM OPERATING TEMPERATURE OF THE SWITCHES BY DESIGN IS 370F WHICH IS ABOVE THE REQUIRED OPERATING TEMPERATURE.</p> <ul style="list-style-type: none">B. THESE COMPONENTS WILL BE QUALIFIED BY ENGINEERING ANALYSIS OR COMPONENTS QUALIFIED FOR THE ENVIRONMENT WILL BE INSTALLED DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-14A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-14B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-14C Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-14D Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-15A Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-15B Component: TEMPERATURE SWITCH	Temperature (°F)	200
Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7	Pressure (PSIA)	14.7
Purchase Order Number: 243756	Relative Humidity (%)	100
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	<1.0 E04
Location NW CORNER ROOM	Aging	NA
Elevation 558'0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360-15C Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558'0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360 15D Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558'0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360-16A Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558'0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
	Flood Level	
Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360-16B Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558'0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 EO4
	Aging	NA
	Submergence	NA
	Flood Level	
Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-16C	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B, TYPE F7	Chemical Spray	NA
Purchase Order Number: 243756	Radiation (Rad)	<1.0 E04
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NW CORNER ROOM		
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-16D	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B, TYPE F7	Chemical Spray	NA
Purchase Order Number: 243756	Radiation (Rad)	<1.0 E04
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NW CORNER ROOM		
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-17A	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B, TYPE F7	Chemical Spray	NA
Purchase Order Number: 243756	Radiation (Rad)	<1.0 E04
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NW CORNER ROOM		
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	<1 MINUTE
Plant I.D. Number: TS-1-1360-17B	Temperature (°F)	200
Component: TEMPERATURE SWITCH	Pressure (PSIA)	14.7
Manufacturer: UNITED ELECTRIC CONTROLS	Relative Humidity (%)	100
Model Number: 88B, TYPE F7	Chemical Spray	NA
Purchase Order Number: 243756	Radiation (Rad)	<1.0 E04
Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION	Aging	NA
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location NW CORNER ROOM		
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360-17C Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: TS-1-1360-17D Component: TEMPERATURE SWITCH Manufacturer: UNITED ELECTRIC CONTROLS Model Number: 88B, TYPE F7 Purchase Order Number: 243756 Function/Service: HIGH TEMPERATURE (STEAM LEAK) DETECTION AND ISOLATION Accuracy: Spec: NA Demo: NA Location NW CORNER ROOM Elevation 558' 0"	Operating Time	<1 MINUTE
	Temperature (°F)	200
	Pressure (PSIA)	14.7
	Relative Humidity (%)	100
	Chemical Spray	NA
	Radiation (Rad)	<1.0 E04
	Aging	NA
	Submergence	NA
	Flood Level Elevation: NA Above Flood Level: Yes: No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: AD-1-1301-34, 35 Component: SOLENOID VALVE Manufacturer: ASCO Model Number: 830281F Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	10 MINUTES	NOT REQD.	REF. (A)	REF. (B)		
	Temperature (°F)	114	NOT REQD.	REF. (C)	REF. (B)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (D)	REF. (B)		
	Relative Humidity (%)	100	NOT REQD.	REF. (D)	REF. (B)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.3 EO4	NOT REQD.	REF. (E)	REF. (B)		
	Aging	NA	NOT REQD.	REF. (F)	REF. (G)		
	Submergence	NA	NA	NA	NA		

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DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. THIS REPORT SECTION 4.4 C. FIELD MEASUREMENT D. FSAR SECTION 6.2.3.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3 G. THIS REPORT SECTION 4.3.6	

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	10 MINUTES
Plant I.D. Number: AO-1-1301-34 Component: SOLENOID VALVE	Temperature (*F)	114
Manufacturer: ASCO	Pressure (PSIA)	14.7
Model Number: 830281F	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: PILOT SOLENOID FOR VALVE AO-1-1301-34	Radiation (Rad)	2.3 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NW CORNER ROOM	Submergence	NA
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: REACTOR CORE ISOLATION COOLING	Operating Time	10 MINUTES
Plant I.D. Number: AO-1-1301-35 Component: SOLENOID VALVE	Temperature (*F)	114
Manufacturer: ASCO	Pressure (PSIA)	14.7
Model Number: 830281F	Relative Humidity (%)	100
Purchase Order Number:	Chemical Spray	NA
Function/Service: PILOT SOLENOID FOR VALVE AO-1-1301-35	Radiation (Rad)	2.3 E04
Accuracy: Spec: NA Demo: NA	Aging	NA
Location NW CORNER ROOM	Submergence	NA
Elevation 558'0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: MO-1-1301-16 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) AC MOTOR Model Number: SMB-000-5 Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: STEAM SUPPLY LINE INBOARD CONTAINMENT ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL NEAR O AZIMUTH Elevation: 604' 11" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	10 MINUTES		REF. (A)			SEE NOTE (1)
	Temperature (°F)	334		REF. (B)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER	NOT REQD.	REF. (D)	REF. (E)		
	Radiation (Rad)	3.3 E05	2.0 E08	REF. (F)	REF. (G)	INDIVIDUAL TEST	
	Aging	150 F 6.6 E06 RADS	311 FOR 100 HRS	REF. (H)	REF. (G)	INDIVIDUAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. CONTAINMENT SPRAY SYSTEM REQUIRES MANUAL	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR FOLLOWING REASONS- A. THIS COMPONENT IS DESIGNED AS A REDUNDANT PAIR WITH MO-1-1301-17, EACH SEPARATED FROM

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>INITIATION. IT IS ASSUMED THIS WILL NOT OCCUR WITHIN 10 MINUTES. THEREFORE, QUALIFICATION IS NOT REQUIRED.</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. WCAP 7410-L, TEST ON LIMITORQUE VALVE MOTOR OPERATORS, SECTION 5.</p> <p>H. NEDO REPORT 24217, TABLE 4-3</p>	<p>THE OTHER WITH ONLY ONE SUBJECTED TO A HARSH ENVIRONMENT.</p> <p>B. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: REACTOR CORE ISOLATION COOLING Plant I.D. Number: MO-1-1301-17 Component: MOTOR OPERATED GATE VALVE Manufacturer: LIMITORQUE (PEERLESS) DC MOTOR Model Number: SMB-OO Purchase Order Number: 3620-125 SPEC R-2358 Function/Service: STEAM SUPPLY LINE OUTBOARD CONTAINMENT ISOLATION VALVE Accuracy: Spec: NA Demo: NA Location: IN STEAM TUNNEL NEAR DRYWELL PENETRATION Elevation: 603' 4"	Operating Time	10 MINUTES	NOT REQD.	REF. (A)	REF. (B)		SEE NOTE (1)
	Temperature (°F)	304		REF. (C)			SEE NOTE (1)
	Pressure (PSIA)	27.5		REF. (C)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (C)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.0 E04	NOT REQD.	REF. (D)	REF. (B)		
	Aging	150 F 1.4 E06 RADS		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		
	Flood Level Elevation: NA Above Flood Level: Yes: No:						

DOCUMENTATION REFERENCES	NOTES
A. FSAR TABLE 8.2.3 B. THIS REPORT SECTION 4.4 C. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC NO. 3C2-0181-001 REV O, NOV 1982. D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS COMPONENT WILL BE QUALIFIED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. ALTHOUGH QUALIFICATION DATA ARE NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. OTHER EQUIPMENT SIMILAR IN DESIGN TO THIS EQUIPMENT HAS SUCCESSFULLY BEEN QUALIFIED

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOR ENVIRONMENT IN EXCESS OF THE CALCULATED REQUIREMENT FOR THIS EQUIPMENT.</p> <p>B. THIS COMPONENT COMPLETES ITS FUNCTION IN A VERY SHORT PERIOD OF TIME AND WOULD NOT EXPERIENCE SIGNIFICANT EFFECTS OF INCREASED ENVIRONMENTAL CONDITIONS IN THIS SHORT TIME PERIOD.</p> <p>C. THIS COMPONENT UNDERGOES PERIODIC FUNCTIONAL TESTING TO VERIFY OPERABILITY. THIS TESTING WOULD IDENTIFY AGE-RELATED DEGRADATION.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: SEE ATTACHED SHEETS Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	69 HOURS		REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	63.0	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	SEE NOTE (1)	REF. (D)	REF. (E)		
	Radiation (Rad)	1.1 E08	1.0 E08	REF. (F)	REF. (A)	INDIVIDUAL TEST	
	Aging	150 F 1.1 E06 RADS	50-150 F FOR 30 DAYS	REF. (G)	REF. (A)	INDIVIDUAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. QUALIFICATION TEST FOR F-01 ELECTRICAL PENETRATION ASSEMBLIES DATED 4-30-71 AND GE DOCUMENT NO. 994-75-011. 100 SERIES PENETRATION QUALIFICATION TEST SUMMARY DATED 4-24-75, BOTH OF WHICH ARE INCLUDED IN THE ATTACHMENTS TO GE LETTER G-EBD-2-031 R.A. KOPRIVA TO E.A. ARMSTRONG DATED 2-9-1982 CHRON 05178. ALSO GE LETTER	

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>G-EBO-2-089 R.A. KOPRIVA TO E.A. ARMSTRONG WITH ATTACHMENTS DATED 4-9-1982 CHRON 04392.</p> <p>B. NSEO-52-0682, DRF#T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.</p> <p>C. FSAR FIGURE 5.2.17</p> <p>D. FSAR SECTION 6.2.4.2.2</p> <p>E. THE ELECTRICAL PENETRATIONS WITHIN THE DRYWELL ARE PROTECTED WITH A SHIELD AT THE HEADER PLATE THEREFORE THE DEMINERALIZED WATER DOES NOT DIRECTLY IMPINGE ON THE HEADER PLATE.</p> <p>F. BECHTEL RADIATION STUDY</p> <p>G. NEDO REPORT 24217, TABLE 4-3</p>	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-100A	Temperature (°F)	334
Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS	Pressure (PSIA)	63.0
Model Number: F-01 237X627G4	Relative Humidity (%)	100
Purchase Order Number: 640-1001	Chemical Spray	DEMIN WATER
Function/Service: CONTROL ROD POSITION AND TEMP MONITOR	Radiation (Rad)	1.1 E08
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location DRYWELL WALL AZ 305	Submergence	1.1E05 RADS
Elevation 611' 0"		NA
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-100B	Temperature (°F)	334
Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS	Pressure (PSIA)	63.0
Model Number: F-01 237X627G4	Relative Humidity (%)	100
Purchase Order Number: 640-1001	Chemical Spray	DEMIN WATER
Function/Service: LOW VOLTAGE POWER/ ELECTRICAL SIGNALS	Radiation (Rad)	1.1 E08
Accuracy: Spec: NA Demo: NA	Aging	150 F
Location DRYWELL WALL AZ 315	Submergence	1.1E06 RADS
Elevation 611' 0"		NA
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-100C Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: SRM/IRM, LPRM MONITORING Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 75 Elevation 609' 6" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOULS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E08
	Aging	150 F 1.1E06 RADS
	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-100D Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: SRM/IRM, LPRM MONITORING Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 80 Elevation 611' 6" Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E08
	Aging	150 F 1.1E06 RADS
	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-100E Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: SRM/IRM, LPRM MONITORING Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 130 Elevation .611' 6"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E08
	Aging	150 F 1.1E06 RADS
	Submergence	NA
	Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-100F Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: CONTROL ROD POSITION AND TEMP MONITOR Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 230 Elevation 610' 0"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E08
	Aging	150 F 1.1E06 RADS
	Submergence	NA
	Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-100G	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: 640-1001	Radiation (Rad)	1.1 E08
Function/Service: LOW VOLTAGE POWER/ ELECTRICAL SIGNALS	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 235	Submergence	NA
Elevation 610' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-101A	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: 640-1001	Radiation (Rad)	1.1 E08
Function/Service: CONTROL ROD POSITION AND TEMP MONITOR	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 50	Submergence	NA
Elevation 609' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-101B	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: 640-1001	Radiation (Rad)	1.1 E03
Function/Service: CONTROL ROD POSITION AND TEMP MONITOR	Aging	150 F 1.1E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL AZ 60		
Elevation 609' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-101D	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: 640-1001	Radiation (Rad)	1.1 E08
Function/Service: RECIRC PUMP 1B MEDIUM VOLTAGE	Aging	150 F 1.1E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL AZ 210		
Elevation 610' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-102A Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: 640-1001 Function/Service: RECIRC PUMP 1A MEDIUM VOLTAGE Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 30 Elevation 609' 6"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 EOS
	Aging	150 F
		1.1E06 RADS
	Submergence	NA
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-103 Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: SPEC R-2349 Function/Service: THERMOCOUPLES TEMP MONITOR Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 40 Elevation 605' 6"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 EOS
	Aging	150 F
		1.1E06 RADS
	Submergence	NA
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-104B	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E03
Function/Service: CONTROL ROD POSITION AND TEMP MONITOR	Aging	150 F 1.1E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL AZ 300 Elevation 611' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-104C	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E08
Function/Service: RECIRC PUMP 1A MEDIUM VOLTAGE	Aging	150 F 1.1E06 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL AZ 35 Elevation 609' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-104F Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: SPEC R-2349 Function/Service: LOW VOLTAGE POWER/ ELECTRICAL SIGNALS Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 240 Elevation 610' 0"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E03
	Aging	150 F
		1.1E06 RADS
	Submergence	NA
	Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: 1X-105A Component: ELECTRICAL PENETRATION Manufacturer: GE-NEBS Model Number: F-01 237X627G4 Purchase Order Number: SPEC R-2349 Function/Service: LOW VOLTAGE POWER/ ELECTRICAL SIGNALS Accuracy: Spec: NA Demo: NA Location DRYWELL WALL AZ 335 Elevation 611' 0"	Operating Time	CONTINUOUS
	Temperature (°F)	334
	Pressure (PSIA)	63.0
	Relative Humidity (%)	100
	Chemical Spray	DEMIN WATER
	Radiation (Rad)	1.1 E08
	Aging	150 F
		1.1E06 RADS
	Submergence	NA
	Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-105B	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E08
Function/Service: LOW VOLTAGE POWER/ ELECTRICAL SIGNALS	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 110	Submergence	NA
Elevation 611' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-105C	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E08
Function/Service: CONTROL ROD POSITION AND TEMP MONITOR	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 115	Submergence	NA
Elevation 611' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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Owner: COMMONWEALTH EDISON
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-105D	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E03
Function/Service: RECIRC PUMP 1B MEDIUM VOLTAGE	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 200	Submergence	NA
Elevation 610' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 1X-107A	Temperature (°F)	334
Component: ELECTRICAL PENETRATION	Pressure (PSIA)	63.0
Manufacturer: GE-NEBS	Relative Humidity (%)	100
Model Number: F-01 237X627G4	Chemical Spray	DEMIN WATER
Purchase Order Number: SPEC R-2349	Radiation (Rad)	1.1 E08
Function/Service: SRM/IRM, LPRM MONITORING	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.1E06 RADS
Location DRYWELL WALL AZ 135	Submergence	NA
Elevation 611' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: SEE ATTACHED SHEETS Component: TERMINAL BLOCKS (TYPICAL 2 UNITS) Manufacturer: ALLEN BRADLEY Model Number: Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	334		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (C)			SEE NOTE (1)
	Radiation (Rad)	1.1 E08		REF. (D)			SEE NOTE (1)
	Aging	150 F 1.8 E07 RADS		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. B. FSAR FIGURE 5.2.17 C. FSAR SECTION 6.2.4.2.2 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOR ENVIRONMENTAL CONDITIONS. B. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-2	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E03
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		1.8 E07 RADS
Elevation 605' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-7	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E08
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		1.8 E07 RADS
Elevation 606' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-1	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E03
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F 1.8 E07 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		
Elevation 607' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-8	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E03
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F 1.8 E07 RADS
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		
Elevation 605' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: SEE ATTACHED SHEETS Component: TERMINAL BLOCKS (TYPICAL 2 UNITS) Manufacturer: ALLEN BRADLEY Model Number: Purchase Order Number: Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (*F)	334		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (C)			SEE NOTE (1)
	Radiation (Rad)	1.1 E08		REF. (D)			SEE NOTE (1)
	Aging	150 F		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		
		1.8 E07 RADS					

DOCUMENTATION REFERENCES	NOTES
A. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. B. FSAR FIGURE 5.2.17 C. FSAR SECTION 6.2.4.2.2 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. THIS EQUIPMENT WILL BE REPLACED WITH QUALIFIED EQUIPMENT DURING THE STATION OUTAGE PRESENTLY SCHEDULED TO END IN MAY 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. SIMILAR ITEMS HAVE BEEN PARTIALLY TESTED

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>FOR EQUIVALENT ENVIRONMENTAL CONDITIONS. B. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-4	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E08
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		1.8 E07 RADS
Elevation 605' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-5	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E08
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA	Submergence	NA
Location DRYWELL WALL		1.8 E07 RADS
Elevation 605' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-3	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E08
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.8 E07 RADS
Location DRYWELL WALL	Submergence	NA
Elevation 607' 6"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS
Plant I.D. Number: 79-01B-6	Temperature (°F)	334
Component: TERMINAL BLOCKS (TYPICAL 2 UNITS)	Pressure (PSIA)	63.0
Manufacturer: ALLEN BRADLEY	Relative Humidity (%)	100
Model Number:	Chemical Spray	DEMIN WATER
Purchase Order Number:	Radiation (Rad)	1.1 E08
Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER	Aging	150 F
Accuracy: Spec: NA Demo: NA		1.8 E07 RADS
Location DRYWELL WALL	Submergence	NA
Elevation 607' 0"		
Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: ANHYDREX XX PLASTEX INSU & JKT Manufacturer: SIMPLEX Model Number: Purchase Order Number: SPEC-COM. ED EM-29116 SIMPLEX-XM Function/Service: TRANSMIT ELECTRICAL POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV 0, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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	THEY MUST BE QUALIFIED.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: ANHYDREX XX PLASTEX INSU & JKT Manufacturer: SIMPLEX Model Number: Purchase Order Number: SPEC-COM ED EM-29115 SIMPLEX-XM-1490A Function/Service: TRANSMIT ELECTRICAL POWER Accuracy: Spec: NA Demo: NA Location: OUTSIDE DRYWELL Elevation: VARIOUS-ABOVE 505/6" Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	REF. (B)			
	Radiation (Rad)	3.9 E07		REF. (C)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (D)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV 0, DATED NOVEMBER 1982 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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	THEY MUST BE QUALIFIED.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: BUTYL RBR INSU POLYVN CHLORIDE JKT Manufacturer: GENERAL ELECTRIC Model Number: Purchase Order Number: #205-HO113 Function/Service: TRANSMIT ELECTRICAL POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: BUTYL RBR INSU POLYVN CHLORIDE JKT Manufacturer: SIMPLEX Model Number: Purchase Order Number: 3447-117 Function/Service: TRANSMIT ELECTRICAL POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS-OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		N A			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F		REF. (C)			SEE NOTE (1)
	Submergence	4.1 E06 RADS	NA	NA	NA	NA	
		NA		NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV 0, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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	THEY MUST BE QUALIFIED.

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: BUTYL RBR INSU POLYVN CHLORIDE JKT Manufacturer: GENERAL ELECTRIC Model Number: Purchase Order Number: 205-HO113 Function/Service: 600V CONTROL CABLE Accuracy: Spec: NA Demo: NA Location: OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (B)			SEE NOTE (1)
	Radiation (Rad)	3.9 E07		REF. (C)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (D)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982 B. FSAR SECTION 6.2.4.2.2 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND/OR TESTING, OTHERWISE THE EQUIPMENT OR PARTS THEREOF WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ON SITE. ALTHOUGH

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <ul style="list-style-type: none">A. SIMILAR COMPONENTS HAVE BEEN SUCCESSFULLY QUALIFIED FOR THE REQUIRED ENVIRONMENTAL CONDITIONS.B. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION INCIDENT AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: CROSSLINKED POLYOLEFIN W-16 AWG DRN & JKT Manufacturer: SAMUEL MOORE AND COMPANY Model Number: NA Purchase Order Number: Function/Service: TWO CONDUCTOR SHLD. FOR LOW VOLTAGE SIGNAL Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: 583'0"	Operating Time	CONTINUOUS	100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	113.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2S2O3 PH9-11	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. ISOMEDIX-QUALIFICATION TEST OF LOCAL/DBE BY SEQUENTIAL EXPOSURE TO ENVIRONMENTS OF RADIATION, THERMAL AGING, STEAM AND CHEMICAL SPRAY JUNE 1978. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: CSPE INSUL., POLYEST ALUMINUM SHLD. Manufacturer: ROCKBESTOS, DIVISION CERRO CORP. Model Number: NA Purchase Order Number: Function/Service: CARRY INSTRUMENTATION SIGNALS Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	H3 BO3	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. F-C3798-QUALIFICATION TESTS OF REACTOR CONTAINMENT SERVICE CONDITIONS INCLUDING LOSS-OF-COOLANT ACCIDENT WHILE ELECTRICALLY ENERGIZED. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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<p>C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPDM I INSUL. W/HAPAL COND. JKT Manufacturer: SAMUEL MOORE AND COMPANY Model Number: NA Purchase Order Number: Function/Service: THERMOCOUPLE WIRE TWO CONDUCTOR Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: 583'0" Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	H3 BO3	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. F-C 3683-QUALIFICATION TESTS OF ELECTRIC NORMAL REACTOR CONTAINMENT SERVICE AND A LOSS-OF-COOLANT ACCIDENT B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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<p>D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPDM I INSUL. W/HAPAL COND. JKT Manufacturer: SAMUEL MOORE AND COMPANY Model Number: NA Purchase Order Number: Function/Service: LOW VOLTAGE SIGNAL TWO CONDUCTOR Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: 583'0" Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMINE WATER	H3 BO3	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. F-C 3683-QUALIFICATION TESTS OF ELECTRIC NORMAL REACTOR CONTAINMENT SERVICE AND A LOSS-OF-COOLANT ACCIDENT B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPDM II INSUL. W/HAPA COND. JKT Manufacturer: SAMUEL MOORE AND COMPANY Model Number: NA Purchase Order Number: Function/Service: LOW VOLTAGE TWO CONDUCTOR Accuracy: Spec: NA Demo: NA Location: INSIDE/OUTSIDE DRYWEL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMINE WATER	H3 BO3	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. F-C 3683-QUALIFICATION TESTS OF ELECTRIC NORMAL REACTOR CONTAINMENT SERVICE AND A LOSS-OF-COOLANT ACCIDENT B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

Component Sheet No. 308
Revision: 2
Date: 05-01-83

Owner: COMMONWEALTH EDISON
Facility: QUAD CITIES
Unit: 1
Docket: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPDM INSUL. W/HAPALON JKT DRN. AND SHLD. Manufacturer: SAMUEL MOORE AND COMPANY Model Number: NA Purchase Order Number: Function/Service: TWO CONDUCTOR SHLD. FOR LOW VOLTAGE SIGNAL Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2S2O3 PH9-11	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. ISOMEDIX-QUALIFICATION TEST OF LOCAL/DBE BY SEQUENTIAL EXPOSURE TO ENVIRONMENTS OF RADIATION, THERMAL AGING, STEAM AND CHEMICAL SPRAY JUNE 1978. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPR INSUL. CSPE JKT. Manufacturer: ANACONDA WIRE AND CABLE COMPANY Model Number: NA Purchase Order Number: Function/Service: LOW VOLTAGE POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUSTSIDE DRYWELL Elevation: 583'0"	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2 S2 O3 9-11	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	320F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
	Flood Level Elevation: NA Above Flood Level: Yes: No:						

DOCUMENTATION REFERENCES	NOTES
A. F-C4350-4 TEST OF ELECTRICAL AGING, GAMMA RADIATION, AND A LOSS-OF-COOLANT ACCIDENT SIMULATION. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPR W/CSPE JKT., FR SHLD, DRN WIRE Manufacturer: BOSTON INSULATED WIRE Model Number: NA Purchase Order Number: Function/Service: LOW VOLTAGE MULTI- CONDUCTOR SIGNAL CABL Accuracy: Spec: NA Demo: NA Location: VARIOUS - INSIDE/ OUTSIDE DRYWELL Elevation: 583'0"	Operating Time	CONTINUOUS	100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	H3 BO3 10.5 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250 F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: NA Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. B910-B1W BOSTRAD CABLES CABLES FOR NUCLEAR POWER PLANTS. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: EPR W/CSPE JKT., FR SHLD, DRN WIRE Manufacturer: BOSTON INSULATED WIRE Model Number: Purchase Order Number: Function/Service: LOW VOLTAGE TWO CONDUCTOR SIGNAL CABL Accuracy: Spec: NA Demo: NA Location: INSIDE/OUTSIDE DRYWEL Elevation: 583'0"	Operating Time	CONTINUOUS	100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	119.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2 S2 O3 10.5 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. REPORT NO. B910-B1W BOSTRAD CABLES CABLES FOR NUCLEAR POWER PLANTS. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
Plant I.D. Number: CABLE	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
Component: EPR W/NEOPRENE INSUL.	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
Manufacturer: ROCKBESTOS, DIVISION CERRO CORP.	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
Model Number: NA	Chemical Spray	DEMIN WATER	NA2 S2 O3 9-11 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
Purchase Order Number:	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
Function/Service: CONTROL CABLE 600V	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
Accuracy: Spec: NA Demo: NA	Submergence	NA	NA	NA	NA		
Location: INSIDE/OUTSIDE DRYWEL							
Elevation: 583'0"							
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. F-C3798-QUALIFICATION TESTS OF REACTOR CONTAINMENT SERVICE CONDITIONS INCLUDING LOSS-OF-COOLANT ACCIDENT WHILE ELECTRICALLY ENERGIZED. B. N5EO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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SYSTEM COMPONENT EVALUATION WORKSHEET

DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>C. AND FSAR TABLE 5.2.1 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: FR-EPDM AND 16 AWG AND HYPALON JKT. Manufacturer: SAMUEL MOORE AND COMPANY Model Number: Purchase Order Number: Function/Service: TWO CONDUCTOR SHLD. FOR LOW VOLTAGE SIGNAL Accuracy: Spec: NA Demo: NA Location: INSIDE/OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: 583' 0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	SEE NOTE (1) 100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	
	Temperature (°F)	334	336	REF. (B)	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (2)
	Pressure (PSIA)	63.0	117.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2S2O3 PH9-11	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	121 C FOR 168 HR 40 YR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. ISOMEDIX-QUALIFICATION TEST OF LOCAL/DBE BY SEQUENTIAL EXPOSURE TO ENVIRONMENTS OF RADIATION, THERMAL AGING, STEAM AND CHEMICAL SPRAY JUNE 1978. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: MULTI PAIR WITH OVERALL SH CU CON Manufacturer: GENERAL ELECTRIC Model Number: Purchase Order Number: 205-HO113 Function/Service: TRANSMIT ELECTRICAL SIGNALS Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: OKONITE EPR INSUL. WITH OKO COVER AND OV Manufacturer: OKONITE CO. Model Number: NA Purchase Order Number: Function/Service: 600V LOW VOLTAGE POWER CABLE Accuracy: Spec: NA Demo: NA Location: INSIDE/OUTSIDE DRYWEL Elevation: VARIOUS Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	100 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	340	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	CHEMICAL SPRAY	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	302F FOR 504 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. ENGINEERING REPORT NO. 266R.1- FOR NUCLEAR POWER PLANT SERVICE B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: POLY NYLON INSU SHLD & PLASTEX INSTR Manufacturer: SIMPLEX Model Number: Purchase Order Number: SPEC-COM ED-EST 7026-2 SIMPLEX-XM2255 Function/Service: TRANSMIT ELECTRICAL SIGNALS/POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F		REF. (C)			SEE NOTE (1)
	Submergence	4.1 E06 RADS	NA	NA	NA	NA	

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV 0, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: RBR INSU POLYV CHLORIDE JACKET Manufacturer: SIMPLEX Model Number: Purchase Order Number: 3447-117 Function/Service: 600V CONTROL CABLE Accuracy: Spec: NA Demo: NA Location: INSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	334		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	DEMIN WATER		REF. (C)			SEE NOTE (1)
	Radiation (Rad)	1.1 E08		REF. (D)			SEE NOTE (1)
	Aging	150 F 1.35 E07 RAD		REF. (E)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642. B. FSAR FIGURE 5.2.17 C. FSAR SECTION 6.2.4.2.2 D. BECHTEL RADIATION STUDY E. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING THE RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE.

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <ul style="list-style-type: none">A. SIMILAR COMPONENTS HAVE BEEN SUCCESSFULLY QUALIFIED FOR THE REQUIRED ENVIRONMENTAL CONDITIONS.B. IDENTICAL COMPONENTS REMAINED FUNCTIONAL DURING THE JUNE 5, 1970 DEPRESSURIZATION AT DRESDEN UNIT 2. THIS INCIDENT RESULTED IN HARSH ENVIRONMENTAL CONDITIONS.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: SINGLE/MULTIPAIR CABLE WITH OVERALL SH Manufacturer: SIMPLEX Model Number: Purchase Order Number: 3447-117 ITEM#24 COM-ED EST-7026-1 Function/Service: TRANSMIT ELECTRICAL POWER Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV 0, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: SR INSUL. WITH GLASSB AND SIL. SAT. AS Manufacturer: ROCKBESTOS, DIVISION CERRO CORP. Model Number: NA Purchase Order Number: Function/Service: CONTROL CABLE 600V Accuracy: Spec: NA Demo: NA Location: INSIDE/OUTSIDE DRYWEL Elevation: 583'0"	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2 S2 O3 9-11 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		
	Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:						

DOCUMENTATION REFERENCES	NOTES
A. F-C3798-QUALIFICATION TESTS OF REACTOR CONTAINMENT SERVICE CONDITIONS INCLUDING LOSS-OF-COOLANT ACCIDENT WHILE ELECTRICALLY ENERGIZED. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>C. FSAR FIGURE 5.2.17. D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: SWITCHBOARD-TYPE SIS #SI 57275 VULKENE Manufacturer: GENERAL ELECTRIC Model Number: Purchase Order Number: 205-H1186 Function/Service: 600V CONTROL CABLE Accuracy: Spec: NA Demo: NA Location: VARIOUS - OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F 4.1 E06 RADS		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA		NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: XLPE INSUL. WITH NEOPRENE JKT. Manufacturer: ROCKBESTOS, DIVISION CERRO CORP. Model Number: NA Purchase Order Number: Function/Service: CONTROL CABLE 600V Accuracy: Spec: NA Demo: NA Location: INSIDE OUTSIDE DRYWEL Elevation: 583'0" Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
	Chemical Spray	DEMIN WATER	NA2 S2 O3 9-11 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
	Aging	150 F 1.35 E07 RAD	250F FOR 168 HR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. F-C3798-QUALIFICATION TESTS OF REACTOR CONTAINMENT SERVICE CONDITIONS INCLUDING LOSS-OF-COOLANT ACCIDENT WHILE ELECTRICALLY ENERGIZED. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON. 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>C. AND FSAR TABLE 5.2.1 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT Plant I.D. Number: CABLE Component: 3 TW WITH OVERALL SH Manufacturer: SIMPLEX Model Number: Purchase Order Number: 3447-117 ITEM #30 Function/Service: TRANSMIT ELECTRICAL SIGNAL Accuracy: Spec: NA Demo: NA Location: OUTSIDE DRYWELL Elevation: VARIOUS Flood Level Elevation: NA Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	304		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	21.2		REF. (A)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (A)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	3.9 E07		REF. (B)			SEE NOTE (1)
	Aging	150 F		REF. (C)			SEE NOTE (1)
	Submergence	NA	NA		NA		

DOCUMENTATION REFERENCES	NOTES
A. SUMMARY OF TEMPERATURE TRANSIENT IN THE MAIN STEAM TUNNEL, NSLD CALC 3C2-0181-001 REV O, DATED NOVEMBER 1982 B. BECHTEL RADIATION STUDY C. NEDO REPORT 24217, TABLE 4-3	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND OR TESTING, OTHERWISE THE EQUIPMENT WILL BE REPLACED WITH QUALIFIED COMPONENTS DURING THE NEXT REFUELING OUTAGE FOLLOWING RECEIPT OF A QUALIFIED REPLACEMENT ONSITE. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE,

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	<p>CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS-</p> <p>A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, ISOLATION CONDENSER PIPE CHASE, TORUS COMPARTMENT AND RWCU ROOMS), CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT AREA ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK, AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE REQUIRED CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH</p>

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	THEY MUST BE QUALIFIED.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: GENERAL USE ELECTRICAL EQUIPMENT	Operating Time	CONTINUOUS	30 DAYS	NA	REF. (A)	SIMULTANEOUS TEST	SEE NOTE (1)
Plant I.D. Number: CABLE (SHIELDED)	Temperature (°F)	334	346	REF. (B)	REF. (A)	SIMULTANEOUS TEST	
Component: EPR INSUL. EXTRUDED SEMI. COND. CSPE	Pressure (PSIA)	63.0	127.7	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
Manufacturer: ANACONDA WIRE AND CABLE COMPANY	Relative Humidity (%)	100	100	REF. (C)	REF. (A)	SIMULTANEOUS TEST	
Model Number: UNIBLEND REP	Chemical Spray	DEMINS WATER	NA2 S2 O3 9-11 PH	REF. (D)	REF. (A)	SIMULTANEOUS TEST	
Purchase Order Number:	Radiation (Rad)	1.1 E08	2.0 E08	REF. (E)	REF. (A)	SEQUENTIAL TEST	
Function/Service: MEDIUM VOLTAGE POWER	Aging	150 F	168HR 150C 40 YR	REF. (F)	REF. (A)	SEQUENTIAL TEST	
Accuracy: Spec: NA Demo: NA	Submergence	NA	NA	NA	NA		
Location: INSIDE OUTSIDE DRYWELL		1.35 E07 RAD					
Elevation: 583'0"							
Flood Level Elevation: 583'0" Above Flood Level: Yes: X No:							

DOCUMENTATION REFERENCES	NOTES
A. F-C4350-4 TEST OF ELECTRICAL AGING, GAMMA RADIATION, AND A LOSS-OF-COOLANT ACCIDENT SIMULATION. B. NSEO-52-0682, DRF NO. T23-00442- DRESDEN 2&3 AND QUAD CITIES 1&2 NUCLEAR POWER PLANTS DRYWELL TEMPERATURE ANALYSIS CHRON 05642.	1. QUALIFICATION OF THIS EQUIPMENT WILL BE COMPLETED BY ANALYSIS BEFORE THE END OF SEPTEMBER 1983. CONTINUED STATION OPERATION IS JUSTIFIED FOR THE FOLLOWING REASONS- A. ALL OF THE PLANT AREAS WHICH COULD EXPERIENCE HARSH PRESSURE, TEMPERATURE, AND HUMIDITY (THE STEAM TUNNEL, TORUS COMPARTMENT AND RWCU ROOMS) CONTAIN EQUIPMENT WHICH MUST FUNCTION IN 1 MINUTE

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
<p>C. FSAR FIGURE 5.2.17 D. FSAR SECTION 6.2.4.2.2 E. BECHTEL RADIATION STUDY F. NEDO REPORT 24217, TABLE 4-3</p>	<p>OR LESS. ONCE EQUIPMENT FUNCTIONS ARE COMPLETED, THERE WOULD BE NO FURTHER ACTIVE FUNCTION REQUIRED. IN ALL CASES EXCEPT THE TORUS COMPARTMENT, THE ONLY SAFETY-RELATED CABLES ENTERING THE POTENTIALLY HARSH ENVIRONMENT ARE CABLES WHICH TERMINATE ON EQUIPMENT REQUIRED TO MITIGATE THE CONSEQUENCES OF THE POSTULATED BREAK AND WHICH COMPLETE THEIR FUNCTION IN ONE MINUTE OR LESS. IN THE CASE OF THE TORUS COMPARTMENT, OTHER CABLING COULD BE IN THE VICINITY OF THE POSTULATED BREAK. HOWEVER, THIS CABLE IS NOT REQUIRED FOR THE MITIGATION OF THE HARSH ENVIRONMENT CREATED BY THE POSTULATED BREAK. RADIATION IS NOT CONCURRENT WITH OTHER HARSH CONDITIONS.</p> <p>B. REALISTIC RELEASE MODELS WOULD RESULT IN RADIATION RELEASES WHICH OCCUR SEVERAL HOURS AFTER THE POSTULATED ACCIDENT. ACTUAL DOSES WOULD BE LESS THAN THOSE CALCULATED USING THE CONSERVATIVE ASSUMPTIONS. ADDITIONALLY, HARSH RADIATION IS NOT CONCURRENT WITH PRESSURE, TEMPERATURE, AND HUMIDITY. THEREFORE, ALTHOUGH SOME MATERIAL DEGRADATION MAY OCCUR DUE TO RADIATION, STRESS FACTORS ARE NOT PRESENT TO ACCELERATE DAMAGE. FINALLY, MOST OF THE MATERIALS UTILIZED FOR THIS CABLE ARE STILL BEING UTILIZED IN CABLE MANUFACTURING AND HAVE DEMONSTRATED THE ABILITY TO WITHSTAND THE RADIATION LEVELS FOR WHICH THEY MUST BE QUALIFIED.</p>

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CAM Plant I.D. Number: PT-1-2421-A,B Component: PRESSURE TRANSMITTER Manufacturer: BAILEY B&W Model Number: KG556220BAA1WFE Purchase Order Number: 187059 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.52 E05		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

U

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. A CONTRACT HAS BEEN ISSUED FOR SERVICES TO QUALIFY THIS EQUIPMENT BY ANALYSIS AND-OR TESTING. THE TEST REPORT WILL BE COMPLETED DURING THE SECOND QUARTER OF 1984. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED BECAUSE A. THESE COMPONENTS ARE DESIGNED AS REDUNDANT

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DOCUMENTATION REFERENCES (cont.)	NOTES (cont.)
	PAIRS, EACH SEPARATED FROM THE OTHER.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-2421-A Component: PRESSURE TRANSMITTER	Temperature (°F)	104
Manufacturer: BAILEY B&W	Pressure (PSIA)	14.7
Model Number: KG55622OBAA1WFE	Relative Humidity (%)	100
Purchase Order Number: 187059	Chemical Spray	NA
Function/Service: MONITOR PRESSURE	Radiation (Rad)	1.65 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. NEAR COLS M&15 Elevation 625' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: PT-1-2421-B Component: PRESSURE TRANSMITTER	Temperature (°F)	104
Manufacturer: BAILEY B&W	Pressure (PSIA)	14.7
Model Number: KG55622OBAA1WFE	Relative Humidity (%)	100
Purchase Order Number: 187059	Chemical Spray	NA
Function/Service: MONITOR PRESSURE	Radiation (Rad)	2.52 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. NEAR COLS M&16 Elevation 625' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CAM Plant I.D. Number: RE-1-2418-A,B,C,D Component: RADIATION DETECTOR Manufacturer: GENERAL ELECTRIC Model Number: ION CHAMBER 237X731G009 Purchase Order Number: 187059 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS		NA			SEE NOTE (1)
	Temperature (°F)	180		REF. (A)			SEE NOTE (1)
	Pressure (PSIA)	63.0		REF. (B)			SEE NOTE (1)
	Relative Humidity (%)	100		REF. (B)			SEE NOTE (1)
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	4.24 E07		REF. (C)			SEE NOTE (1)
	Aging	NA	NOT REQD.	REF. (D)	REF. (E)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. FSAR FIGURE 5.2.19 B. FSAR SECTION 5.2.3.1 C. BECHTEL RADIATION STUDY D. NEDO REPORT 24217, TABLE 4-3 E. THIS REPORT SECTION 4.3.6	1. ADDITIONAL VENDOR INFORMATION IS BEING SOUGHT TO RESOLVE OUTSTANDING ENVIRONMENTAL QUALIFICATION ITEMS. ALTHOUGH QUALIFICATION DATA IS NOT AVAILABLE, CONTINUED STATION OPERATION IS JUSTIFIED BECAUSE A. THESE COMPONENTS ARE DESIGNED AS REDUNDANT PAIRS, EACH SEPARATED FROM THE OTHER.

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: RE-1-2418-C Component: RADIATION DETECTOR	Temperature (°F)	180
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	63.0
Model Number: ION CHAMBER 237X731G009 Purchase Order Number: 187059	Relative Humidity (%)	100
Function/Service: MONITOR RADIATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	4.24 E07
Location INSIDE TORUS NEAR AZ 115 Elevation 590' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: RE-1-2418-D Component: RADIATION DETECTOR	Temperature (°F)	180
Manufacturer: GENERAL ELECTRIC	Pressure (PSIA)	63.0
Model Number: ION CHAMBER 237X731G009 Purchase Order Number: 187059	Relative Humidity (%)	100
Function/Service: MONITOR RADIATION	Chemical Spray	NA
Accuracy: Spec: NA Demo: NA	Radiation (Rad)	4.20 E07
Location INSIDE TORUS NEAR AZ 245 Elevation 589' 0"	Aging	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:	Submergence	NA

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CAM	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)	SEE NOTE (1)	
Plant I.D. Number: RE-1-2419-A,B Component: RADIATION DETECTOR	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
Manufacturer: GENERAL ATOMIC	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
Model Number: RD-23 ION CHAMBER	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
Purchase Order Number: 241812	Chemical Spray	NA	NA	NA	NA		
Function/Service: SEE ATTACHED SHEETS	Radiation (Rad)	6.9 E06	1.0 E09	REF. (C)	REF. (D)		
Accuracy: Spec: Demo:	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
Location: SEE ATTACHED SHEETS	Submergence	NA	NA	NA	NA		
Elevation: SEE ATTACHED SHEETS							
Flood Level Elevation: Above Flood Level: Yes: No:							

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. GENERAL ATOMIC, TEST PERFORMANCE ELA-281-9034 E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: RE-1-2419-A Component: RADIATION DETECTOR	Temperature (°F)	104
Manufacturer: GENERAL ATOMIC	Pressure (PSIA)	14.7
Model Number: RD-23 ION CHAMBER	Relative Humidity (%)	100
Purchase Order Number: 241812	Chemical Spray	NA
Function/Service: MONITOR RADIATION	Radiation (Rad)	6.9 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. AT X-46	Submergence	NA
Elevation 618' 6"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: RE-1-2419-B Component: RADIATION DETECTOR	Temperature (°F)	104
Manufacturer: GENERAL ATOMIC	Pressure (PSIA)	14.7
Model Number: RD-23 ION CHAMBER	Relative Humidity (%)	100
Purchase Order Number: 241812	Chemical Spray	NA
Function/Service: MONITOR RADIATION	Radiation (Rad)	6.9 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. AT X-107B	Submergence	NA
Elevation 610' 0"		
Flood Level Elevation: NA Above Flood Level: Yes: No:		

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET ,

Component Sheet No: 352
 Revision 2
 Date 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REFERENCES		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Spec.	Qual.		
System: CAM Plant I.D. Number: SO-1-2499-1A.B&2A,B Component: SOLENOID VALVE Manufacturer: TARGET ROCK Model Number: 1/2 SMS-S-1 Purchase Order Number: 194997 Function/Service: SEE ATTACHED SHEETS Accuracy: Spec: Demo: Location: SEE ATTACHED SHEETS Elevation: SEE ATTACHED SHEETS Flood Level Elevation: Above Flood Level: Yes: No:	Operating Time	CONTINUOUS	NOT REQD.	NA	REF. (A)		
	Temperature (°F)	104	NOT REQD.	REF. (B)	REF. (A)		
	Pressure (PSIA)	14.7	NOT REQD.	REF. (B)	REF. (A)		
	Relative Humidity (%)	100	NOT REQD.	REF. (B)	REF. (A)		
	Chemical Spray	NA	NA	NA	NA		
	Radiation (Rad)	2.11 E06	3.3 E07	REF. (C)	REF. (D)	TYPE TEST	
	Aging	NA	NOT REQD.	REF. (E)	REF. (F)		
	Submergence	NA	NA	NA	NA		

DOCUMENTATION REFERENCES	NOTES
A. THIS REPORT SECTION 4.4 B. FSAR SECTION 10.10 C. BECHTEL RADIATION STUDY D. TARGET ROCK CORP. REPORT NO 1500 (10-22-74) E. NEDO REPORT 24217, TABLE 4-3 F. THIS REPORT SECTION 4.3.6	

Owner: COMMONWEALTH EDISON
 Facility: QUAD CITIES
 Unit: 1
 Docket No: 50-254

SYSTEM COMPONENT EVALUATION WORKSHEET

Component Sheet No. 353
 Revision 2
 Date: 05-01-83

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: SO-1-2499-1A Component: SOLENOID VALVE	Temperature (°F)	104
Manufacturer: TARGET ROCK	Pressure (PSIA)	14.7
Model Number: 1/2 SMS-S-1	Relative Humidity (%)	100
Purchase Order Number: 194997	Chemical Spray	NA
Function/Service: CALIBRATION H2 SENSOR	Radiation (Rad)	2.11 E06
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. NEAR COLS L&14 Elevation 596' 6"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	Parameter	Specification
System: CAM	Operating Time	CONTINUOUS
Plant I.D. Number: SO-1-2499-1B Component: SOLENOID VALVE	Temperature (°F)	104
Manufacturer: TARGET ROCK	Pressure (PSIA)	14.7
Model Number: 1/2 SMS-S-1	Relative Humidity (%)	100
Purchase Order Number: 194997	Chemical Spray	NA
Function/Service: CALIBRATION H2 SENSOR	Radiation (Rad)	7.07 E05
Accuracy: Spec: NA Demo: NA	Aging	NA
Location IN R.B. NEAR COLS M&16 Elevation 609' 0"	Submergence	NA
Flood Level Elevation: NA Above Flood Level: Yes: No:		

G-0858-03

