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October 31, 1980

File: 3-0-3-a-4

Mr. J. P. O'Reilly
Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, GA 30303

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72

- References:
- (a) IE Bulletin 79-01B, Environmental Qualification of Class 1E Equipment
 - (b) Commission's Memorandum and Order of May 23, 1980, (80-CLI-21)
 - (c) Order for Modification of License dated September 19, 1980

Dear Mr. O'Reilly:

The attached report, prepared by Gilbert Associates, Inc., for Florida Power Corporation, is in response to references (a), (b), and (c). This report completely replaces the previous issue transmitted on June 30, 1980.

As discussed in Section I.1.3 of this report, the Auxiliary Steam Line Automatic Pressure Loss Shutoff Valve is scheduled to be completed during the next refueling outage, September 19 - December 12, 1981.

8012010511

Q

Mr. J. P. O'Reilly

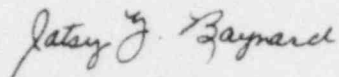
Page Two

October 31, 1980

Should you have any questions concerning our response, please contact this office.

Very truly yours,

FLORIDA POWER CORPORATION



Patsy Y. Baynard
Manager
Nuclear Support Services

Lobo(PYBekcF02)D-8-3

Attachment

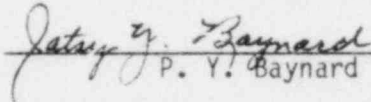
cc: Director
Office of Inspection and Enforcement
Division of Reactor Operation Inspection
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Zolton Rosztoczy
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
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STATE OF FLORIDA

COUNTY OF PINELLAS

P. Y. Baynard states that she is the Manager, Nuclear Support Services Department of Florida Power Corporation; that she is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission the information attached hereto; and that all such statements made and matters set forth therein are true and correct to the best of her knowledge, information and belief.


P. Y. Baynard

Subscribed and sworn to before me, a Notary Public in and for the State and County above named, this 31st day of October 1980.


Notary Public

Notary Public, State of Florida at Large,

My Commission Expires: June 8, 1984

PYB/MAHNotary(DN-98)

ENVIRONMENTAL QUALIFICATION OF
CLASS IE EQUIPMENT
IE BULLETIN NO. 79-01B

FOR

FLORIDA POWER CORPORATION

Revised Issue

10-50-80

Prepared by

Gilbert Associates, Inc.
P. O. Box 1498
Reading, Pennsylvania

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
I.0	GENERAL INTRODUCTION	I-1
I.1	CRITERIA	I-1
I.1.1	General	I-1
I.1.2	Operating Times	I-2
I.1.3	Temperature/Pressure Profiles	I-2
I.1.4	Relative Humidity	I-4
I.1.5	Chemical Spray	I-4
I.1.6	Radiation	I-4
I.1.7	Aging	I-5
I.1.8	Submergence	I-5
I.2	SECTION EXPLANATIONS	I-6
I.3	QUALIFICATION PLAN	I-6
I.4	FUNCTIONS/SYSTEMS LIST	I-7
I.0	45-Day Response	
	Air Handling, Ventilation and Cooling (AH)	1-1
	AH Equipment/Components (Typical)	1-2
	Auxiliary Steam (AS)	1-4
	AS Equipment/Components (Typical)	1-5
	Reactor Building Spray (BS)	1-6
	BS Equipment/Components (Typical)	1-7
	Chemical Addition and Sampling-Reactor (CA)	1-9
	CA Equipment/Components (Typical)	1-10
	Condensate (CD)	1-11
	CD Equipment/Components	1-12
	Core Flooding (CF)	1-13
	CF Equipment/Components (Typical)	1-14
	Industrial Cooler (CI)	1-15
	CI Equipment/Components (Typical)	1-16
	Decay Heat Closed Cycle Cooling (DC)	1-17
	DC Equipment/Components (Typical)	1-18
	Decay Heat Removal (DH)	1-19
	DH Equipment/Components (Typical)	1-20
	Demineralized Water (DW)	1-21
	DW Equipment/Components (Typical)	1-22
	Emergency Feedwater (EF)	1-23
	EF Equipment/Components (Typical)	1-24
	Feedwater (FW)	1-25
	FW Equipment/Components (Typical)	1-26
	Main Steam	1-28
	MS Equipment/Components (Typical)	1-29

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
	Makeup and Purification (MU)	1-31
	MU Equipment/Components (Typical)	1-33
	Electrical Power Distribution (MT)	1-35
	Reactor Coolant (RC)	1-37
	Radiation Monitoring (RM)	1-39
	Nuclear Services and Decay Heat Sea Water (RW)	1-40
	RW Equipment/Components (Typical)	1-41
	Secondary Plant (SP)	1-42
	Nuclear Services Closed Cycle Cooling (SW)	1-44
	SW Equipment/Components (Typical)	1-46
	Waste Disposal (WD)	1-48
	WD Equipment/Components (Typical)	1-49
	Radwaste (WS)	1-50
	WS Equipment/Components (Typical)	1-51
2.0	<u>COMPONENT EVALUATION SHEETS</u>	
	Notes, Cable and Cable Terminations	2-1
	Component AHF-1A	2-2
	Component AHF-1B and 1C	2-3
	Component AHF-15A and 15B	2-4
	Component AHV-1B and 1C	2-5
	Component AHV-1A	2-6
	Component AHV-1D	2-7
	Component MTMC-4 and 5	2-8
	Component MTMC-7	2-9
	Component AH-5 and 6	2-10
	Component AH-28	2-11
	Component AH-29	2-12
	Component AH-23	2-13
	Component AH-24	2-14
	Component Control CAB 16A and 16B	2-15
	Component AH-315-TS and 410-TS	2-16
	Component AH-552-dPS	2-17
	Component AH-551-dPS	2-18
	Component ASV-5 - Motor Operator	2-19
	Component ASV-5 - Motor Starter	2-20
	Component AS-1 - Local Control Station	2-21
	Component AS-1 - Terminal B:	2-22
	Component BSP-1A/1B	2-23
	Component BSV-4	2-24
	Component BSV-3	2-24A
	Component BSV-16/17	2-25
	Component BSV-36/37	2-26

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
Component	BS-5/6	2-27
Component	BS-PS-18	2-28
Component	BS-PS-25	2-29
Component	BS-PS-62	2-30
Component	PS Cabinet - 3A1 and 3A2	2-31
Component	PS Cabinet - 3A4	2-32
Component	BS-79-FIS	2-33
Component	BS-80-FIS	2-34
Component	BS-PT-16 and 17	2-35
Component	CAV-1/3	2-36
Component	CAV-4/5	2-37
Component	CAV-126	2-38
Component	CAV-2	2-39
Component	CAV-6 and 7	2-39A
Component	CA-1, 2 and 3 - Local Control Station	2-40
Component	CA-1, 2 and 3 - Terminal Box	2-41
Component	CDV-43 and 44	2-42
Component	CFV-11/12	2-43
Component	CFV-15/16	2-44
Component	CFV-25, 26, 29 and 42	2-45
Component	CFV-27 and 28	2-46
Component	CF-1, 5 and 6	2-47
Component	CF-3	2-48
Component	CF-1, 3 and 4	2-49
Component	CF-2	2-50
Component	CIV-34, 35, 40 and 41	2-51
Component	CI-3, 4, 5 and 6	2-52
Component	CI-1, 3, 4 and 9	2-53
Component	DCP-1A/1B	2-54
Component	DHP-1A/1B	2-55
Component	DHV-5/6	2-56
Component	DHV-11 and 12	2-57
Component	DHV-34/35	2-58
Component	DHV-110/111	2-59
Component	DH-43-FIS	2-60
Component	DH-44-FIS	2-61
Component	DH-2-TE-1 and 2, DH-6-TE-1 and 2	2-62
Component	DH-DPT-1 and 2	2-63
Component	DH-DPT-38	2-64
Component	DWV-160	2-65
Component	EFV-1	2-66
Component	EFV-3/4	2-67
Component	EFV-7 and 8	2-68
Component	EFV-11/32	2-69

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
Component	EFV-14/33	2-70
Component	EFV-11/14	2-71
Component	EFV-3 and 4 - Local Control Station	2-72
Component	EFV-3 and 4 - Terminal Box	2-73
Component	FWV-14/15	2-74
Component	EWV-28	2-75
Component	FWV-29/30	2-76
Component	FWV-31/32	2-77
Component	FWV-33 and 34	2-78
Component	FWV-161/162	2-79
Component	FWV-33, 34, 35 and 36	2-80
Component	FWV-161/162	2-81
Component	FW-5 and 6	2-82
Component	FW-11 and 12	2-83
Component	FW-3 and 4	2-84
Component	FW-11 and 20	2-85
Component	FW-22	2-86
Component	FW-38 and 39-PT	2-87
Component	MSV-55 and 56 - Valve Motor	2-88
Component	MSV-55 and 56 - Local Motor Starter	2-89
Component	MSV-411, 412, 413 and 414	2-90
Component	MSV-130	2-91
Component	MSV-148	2-92
Component	MS-5 and 6	2-93
Component	MS-7	2-94
Component	MS-8	2-95
Component	MS-9	2-96
Component	MS-10	2-97
Component	MS-5 and 6	2-98
Component	MS-7	2-99
Component	MS-8	2-100
Component	MS-17	2-101
Component	MS-18	2-102
Component	MS-92-PS1	2-103
Component	MTMC-3	2-104
Component	MTMC-4	2-105
Component	MTMC-5	2-106
Component	MTMC-6	2-107
Component	MTMC-7	2-108
Component	MTMC-8	2-109
Component	MTMC-12 and 13	2-110
Component	MTMC-14	2-111
Component	MTMC-15	2-112
Component	MTBD-2A	2-113

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
	Component MTBD-2B	2-114
	Component MTBD-2C	2-115
	Component MTBD-8A	2-116
	Component MTBD-8B	2-117
	Component MTBD-8C and 8D	2-118
	Component MTBD-9A and 9B	2-119
	Component MTBD-9C and 9D	2-120
	Component MTBD-11A and 11B	2-121
	Component Power and Control Cable	2-122
	Component Control and Thermocouple Extension Cable	2-123
	Component Instrument Cable and Thermocouple Extension Cable	2-124
	Component NI Detector Cable	2-125
	Component Cable Connectors	2-126
	Component Terminal Blocks	2-127
	Component Terminal Blocks	2-128
	Component Terminal Lugs	2-129
	Component Termination Procedure	2-130
	Component Termination Procedure	2-131
	Component Termination Procedure	2-132
	Component Filler Tape	2-133
	Component Insulating Tape	2-134
	Component Insulating Tape	2-134A
	Component Insulating and Filler Tape	2-134B
	Component Glass Electrical Tape	2-135
	Component Vinyl Electrical Tape	2-136
	Component Silicone Rubber Tape	2-137
	Component Splice Terminal	2-138
	Component Heat Shrink Tubing	2-139
	Component Heat Shrink Tubing	2-140
	Component MUP-1A, 1B and 1C	2-141
	Component MUV-18	2-142
	Component MUV-23 and 24	2-143
	Component MUV-25 and 26	2-144
	Component MUV-27	2-145
	Component MUV-38 and 39	2-146
	Component MUV-40 and 41	2-147
	Component MUV-53 and 257	2-148
	Component MUV-58	2-149
	Component MUV-73	2-150
	Component MUV-112	2-151
	Component MUV-258, 259, 260 and 261	2-152
	Component MUV-49	2-153
	Component MUV-64	2-154
	Component MUV-253	2-155

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
Component	MUV-25-SV	2-156
Component	MUV-23/2d and 25/26	2-157
Component	MU-4 and 5	2-158
Component	MU-7	2-159
Component	MU-16	2-160
Component	MU-4 and 5	2-161
Component	MU-11	2-162
Component	MU-21	2-163
Component	MU-22	2-164
Component	MU-14-LT-1 and 2	2-165
Component	MU-23-dPT-1, 2, 3 and 4	2-166
Component	MU-24-dPT	2-167
Component	RCV-10-SV	2-167A
Component	RCV-11	2-168
Component	RC-8	2-169
Component	RC-3A-PT-1 and 2, RC-3B-PT-1 and 2	2-170
Component	RC-3A-PT-3 and 4, RC-3B-PT-3	2-171
Component	RC-PT-132	2-172
Component	RC-14A-DPT-1 and 2, RC-14B-DPT-1 and 2	2-173
Component	RC-4A-TE4	2-174
Component	RC-DPT-1, 2 and 3	2-175
Component	NI-005-A13, NI-006-A13, NI-007-A13 and NI-008-A13	2-176
Component	RM-A1	2-177
Component	RM-A6	2-178
Component	RM-A12	2-179
Component	LR-7-TR	2-180
Component	RWP-2A and 2B	2-181
Component	RWP-3A and 3B	2-182
Component	SP1A-LT1 and SP1B-LT1	2-183
Component	SP1A-LT2 and SP1B-LT2	2-184
Component	SP1A-LT4, 5 and SP1B-LT-4, 5	2-185
Component	SP-6A-PT-1 and 2, SP-6B-PT-1 and 2	2-186
Component	SP-8A-DPT-1, 2 and 3, SP-8B-PT-1, 2 and 3	2-187
Component	SWP-1A and 1B	2-188
Component	SWV-12	2-189
Component	SWV-35, 37, 39, 41, 43 and 45	2-190
Component	SWV-47, 48, 49 and 50	2-191
Component	SWV-47, 48, 49 and 50	2-191A
Component	SWV-79, 80, 81, 82, 83, 84, 85 and 86	2-192
Component	SWV-109 and 110	2-193
Component	SWV-151, 152, 353, 354 and 355	2-194

TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
	Component SW-3	2-195
	Component SW-4, 5 and 16	2-196
	Component SW-6	2-197
	Component SW-7	2-198
	Component SW-8	2-199
	Component SW-9	2-200
	Component SW-10	2-201
	Component SW-11, 13 and 14	2-202
	Component SW-3	2-203
	Component SW-4, 5 and 19	2-204
	Component SW-6	2-205
	Component SW-7	2-206
	Component SW-8	2-207
	Component SW-9	2-208
	Component SW-10	2-209
	Component SW-11, 12 and 13	2-210
	Component SW-14	2-211
	Component SW-15	2-212
	Component SW-18	2-213
	Component WDV-3	2-214
	Component WDV-60	2-215
	Component WDV-94	2-216
	Component WDV-405	2-217
	Component WDV-406	2-218
	Component WDV-407	2-219
	Component WDV-4	2-220
	Component WDV-61 and 62	2-221
	Component WD-1	2-222
	Component WD-3	2-223
	Component WD-LT-26 and 222	2-224
	Component WSV-3, 4, 5 and 6	2-225
	Component WS-1, 2, 3 and 4	2-226
	Component WS-2	2-227
	Component WS-3	2-228

3.0

COLD SHUTDOWN MASTER LIST

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TABLE OF CONTENTS

(Cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
4.0	<u>TABLES AND FIGURES</u>	
Table 4-1	Dose Rate By Region	
Table 4-2	6 Month Accident Dose (Rads)	
Figure 4-1	Dose Rate Map	
Figure 4-2	Dose Rate Map	
Figure 4-3	Dose Rate Map	
Figure 4-4	Intermediate Building Temperature After a Main Steam Rupture	
Figure 4-5	Reactor Building Pressure Versus Time for 7.0 FT ² Cold Leg Break (Pump Suction)	
Figure 4-6	Rosemount 1152 LOCA (Temperature and Pressure)	
Figure 4-7	By Transmitter (Temperature and Pressure)	
Figure 4-8	Foxboro E11GH (Temperature and Pressure)	
Figure 4-9	Foxboro E11GH (Test Output Errors)	
Figure 4-10	Limitorque Test Report No. B0003	
Figure 4-11	Limitorque Test Report No. 600456 (Actual)	
Figure 4-12	Limitorque Test Report No. 600456 (Specified)	
Figure 4-13	Limitorque Test Report No. F-C3271	
Figure 4-14	Limitorque Test Report No. 600376A	
Figure 4-15	Limitorque Test Report No. 600198	
Figure 4-16	Rockbestos Test Report Dated 3/2/78	
Figure 4-17	Anaconda Report No. 79118	

1.0 GENERAL INTRODUCTION

The following report is in accordance with the requirements of Nuclear Regulatory Commission IE Bulletin 79-01B, "Environmental Qualification of Class IE Equipment" to review the environmental qualifications of the electrical equipment required to mitigate the consequences of the postulated accidents.

This report satisfies the requirements of the 90-day response which was to evaluate the environmental qualifications of the equipment required to mitigate the consequences of the postulated accidents against the guidelines provided in Enclosure 4 of IE Bulletin 79-01B. Revision I of this report provides additional information per NRC/FPC letter of 8/29/80.

I.1 CRITERIA

The criteria used in formulating this report within the guidelines of enclosure 4 of IE Bulletin 79-01B are as follows:

I.1.1 General

The report includes the equipment required to mitigate the consequences of the postulated accidents based on Florida Power Corporation's (FPC) licensing commitments

The report contains the cold shutdown equipment and components as required by Enclosure 4 Appendix A footnote 2 of the Bulletin and as clarified in the "Generic Questions and Answers to IE Bulletin No. 79-01B" response from the NRC.

I.1.2 Operating Times

Any equipment or component which is required to operate for one minute or less is considered as not being exposed to the accident environment. However, aging factors due to normal operation will be considered for that equipment or component.

Operating times, for the equipments, not specifically stated in the FSAR or other license documents were arrived at using operation/engineering evaluation in accordance with the accident considered.

I.1.3 Temperature/Pressure Profiles

For inside containment the FSAR curve for Reactor Building Pressure, (Section 4 Figure 4-5) was used with the saturation temperatures for the associated pressures plotted to give a temperature curve. This was done as suggested by B&W in lieu of computer drawn pressure/temperature curves.

Figure 4-5 as modified, only presents the pressure/temperature profiles for approximately the first 15 minutes of the postulated accident. To acquire extended pressure/Temperature profiles we are utilizing the Rosemount 1152 transmitter curves (see Section 4 Figure 4-6) provided by B&W. These curves are considered conservative and extend for 24 hours.

Figure 4-5 was used instead of a main steam line break inside containment because of the automatic operation of the containment spray system per Paragraph 4.2.1 of Enclosure 4 of IE Bulletin 79-01B.

For outside containment in the Intermediate Building, the analysis for the temperature is based on the "Effects of the High Energy Piping System Breaks Outside the Reactor Building," GAI Report

No. 1811 dated October 1, 1973. This temperature following a main steam line break is based on the following:

- a. A double-ended rupture of a main steam line.
- b. The CONTEMPT computer program was used to generate the temperature profile until the affected steam generator blows dry.
- c. A long-term temperature condition (212° F for 1000 sec.) is superimposed on the transient.

The environmental temperature envelope, as given in Section 4 Figure 4-4 (GAI Report No. 1811, Figure 4.3.4), has been extended by linearly decreasing the Intermediate Building temperature from 212° F at 1000 seconds to atmospheric temperature at 3600 seconds. Although an analysis has not been performed, this temperature decay is considered conservative based on analyses done for plants in the operating license stage of review. This approach was used per Paragraph 4.3.1 of Enclosure 4 to IE Bulletin 79-01D which allows the use of the high energy line break (HELB) report for outside containment.

For outside containment in the Auxiliary Building, the temperature and pressure are considered to remain at ambient throughout the HELB incident for the following reasons:

Two high energy sources are located in the Auxiliary Building, the "Auxiliary Steam" and the "LPI."

- 1) Auxiliary Steam - is to be provided with an automatic pressure loss shutoff valve to preclude the release of steam in the Auxiliary Building in the event of an auxiliary steam line rupture.

- 2) LPI System - this system is only used approximately 2% of plant life. The only time this system operates as a high energy system is during an accident condition and normal cooldown. Major portions of the equipment are located in a sealed pit with safety-grade equipment and instrumentation which is monitored and controlled from the control room. The system can be remote manually isolated in a timely manner precluding high pressure and temperature conditions in the Auxiliary Building.

See Section 4 Figures 4-4 and 4-5 for Temperature/Pressure Profiles.

I.1.4 Relative Humidity

The relative humidity figures are from the FSAR and GAI Report No. 1811 for inside and outside containment respectively.

I.1.5 Chemical Spray

The chemical spray is from the Crystal River #3 Technical Specifications pages 3/4 5-7, and 3/4 6-12.

I.1.6 Radiation

The radiation exposure calculations are based on the following:

- a. For immersion dose inside containment use Bulletin 79-01B Enclosure 4 nomogram methodology.
- b. NUREG 0578 Section 2.1.6.b (Reg. Guide 1.4) sources are utilized throughout.
- c. Dose rates at a given location within a given area are added up from all significant sources.

- d. The dose rate-time curve had a log-log linear fit applied at one hour and five days. Integrations of the area under the fit were performed for various operating times up to 6 months. Integrations for longer operating times do not appreciably change the results.
- e. Beta dose is neglected inside containment based on Enclosure 4 paragraph 4.1.2 of Bulletin 79-01B which explicitly permits this if the radiation sensitive equipment internals are protected by 70 mils of material.

The 40-year dose was obtained by calculating the dose rate of contact with the equipment and multiplying by 40 years.

See Section 4 Figures 4-1, 4-2 and 4-3 for Dose Rate Maps and associated tabulations.

I.1.7 Aging

Equipment vendors have been contacted via letter (attaching the environmental profiles and expected radiation doses their supplied equipment will be subjected), requesting information pertaining to radiation and thermal sensitive materials contained in their supplied equipment. Also requested, in regard to these environmental parameters, are recommended replacement intervals and replacement parts which are qualified.

I.1.8 Submergence

Equipment was examined in April 1979 for submergence, in light of TMI 2, per the recommendation of FPC's Nuclear General Review Committee (NGRC). Equipment essential to the safe operation of Crystal River Unit 3 were determined to be above the flood level in the Reactor Building (99.85 ft.).

I.2

SECTION EXPLANATION

Section 1 contains the "Master List" of equipment and components required to bring the plant to a cold shutdown Mode 5 following the postulated accidents of IE Bulletin 79-01B. The components are listed in accordance with the format of Enclosure 2 of IE Bulletin 79-01B (system vs. functional).

Section 2 contains the "Component Evaluation Sheets" for each item listed in Section 1. This section is in accordance with the format of Enclosure 3 of IE Bulletin 79-01B.

Section 3 of this report has been deleted. The systems, portions of systems, and components previously contained in Section 3 are utilized to take the plant from Mode 4 to Mode 5 (Hot Shutdown to Cold Shutdown) under normal plant shutdown operations. As these systems and components are not relied upon for LOCA or HELB mitigation they have therefore been deleted relative to IE Bulletin 79-01B considerations.

Section 4 contains the Radiation Dose-Rate Maps and Temperature/Pressure Profiles utilized to depict the environmental parameters for this report.

I.3

QUALIFICATION PLAN

As indicated in Paragraph I.1, each vendor has been contacted for qualification information as required. The Component Evaluation Sheets have been reevaluated and revised appropriately in accordance with this qualification information. For equipment which qualification information has not yet been obtained, or is not yet available; the respective Component Evaluation Sheets indicate the action to be taken to qualify or replace the equipment.

I.4

FUNCTIONS/SYSTEMS LIST

The following list contains those systems considered standard for B&W PWR reactors in accordance with information received from the NRC via telecopier on October 17, 1980. The column on the left are those referred to on the standard list. The column on the right are the corresponding system designations for the Crystal River Unit 3 plant. The system designations listed in the column on the right may be part of a system or the entire system. Individual "Component Evaluation Sheets" found in Section 2 should be consulted for individual components and their functions. Please note, an N/A indicates that the standard system designation in the column on the left is not applicable to Crystal River Unit 3, or that a system, such as the Engineered Safeguards, is a part of the Crystal River Unit 3 systems however there is no component from this system located in the harsh environment of the postulated accidents. Components controlled by this system (the Engineered Safeguards) have been included in this report.

B&W Standard SystemsCrystal River 3 Systems

Reactor Protection	RC
Engineered Safeguard	N/A
Containment Isolation	Many Systems
Main & Auxiliary Steam Iso.	AS, MS
Main & Auxiliary Feedwater Iso.	FW
Feedwater Control	FW
Containment Spray	BS
Containment Air Purification/Cleanup	AH
Containment Combustible Gas Control	H ₂ Purge System
High Pressure Injection	MU
Low Pressure Injection	DH
Accumulators	CF
Residual Heat Removal	DH
Chemical Volume & Control	MU, CA

B&W Standard SystemsCrystal River 3 Systems

Pressurizer Spray	BS
Power Operated Relief Valves	RC
Steam Dump	MS
Containment Radiation/Monitor	RM
Containment Radiation/Sampling	WD
Component Cooling Water	DC
Service Water	RW
Emergency Power	SW
Containment Sump	MT
Control Room Habitability	DH
Safety Equipment Area Ventilation	N/A
Auxiliary Feedwater	AH
Reactor Coolant	EF
	RC

SECTION 1

MASTER LIST

SYSTEM: Air Handling, Ventilation and Cooling (AH)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
AHF-1A	Fan Motor	X	
AHF-1B	Fan Motor	X	
AHF-1C	Fan Motor	X	
AHF-15A	Air Handling Unit Motor		X
AHF-15B	Air Handling Unit Motor		X
AHV-1C	Valve Motor Operator	X	
AHV-1B	Valve Motor Operator	X	
AHV-1A	Solenoid Valve		X
AHV-1D	Solenoid Valve		X

SYSTEM: AH Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
AH-5	Local Control Station		X
AH-6	Local Control Station		X
AH-28	Local Control Station		X
AH-29	Local Control Station		X
AH-23	Terminal Box		X
AH-24	Terminal Box		X
16A	HVAC Control Cabinet		X
16B	HVAC Control Cabinet		X
EPA #411	Electrical Penetration Assembly	X	X
EPA #412	Electrical Penetration Assembly	X	X
EPA #308	Electrical Penetration Assembly	X	X
EPA #104	Electrical Penetration Assembly	X	X
EPA #126	Electrical Penetration Assembly	X	X
EPA #309	Electrical Penetration Assembly	X	X
AH-552-dPS	Pressure Switch		X
AH-551-dPS	Pressure Switch		X
AH-315-TS	Temperature Switch		X

SYSTEM: AH Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
AH-410-TS	Temperature Switch		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs	X	X
Kerite 600V	Power and Control Cable	X	X
Continental Wire and Cable Corp.	Instrument Cable	X	X
Continental Wire and Cable Corp.	Control Cable		X
Kulka 7TB & 5TB	Terminal Strip (Penetration)	X	X
T&B F1	Connector (Penetration)	X	X
MTMC-4	Local Motor Starter		X
MTMC-5	Local Motor Starter		X
MTMC-7	Local Motor Starter		X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	

SYSTEM: Auxiliary Steam (AS)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
ASV-5	Valve Motor Operator		X

SYSTEM: AS Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
ASV-5	Local Motor Starter		X
AS-1	Terminal Box		X
AS-1	Local Control Station		X
States Co. Sliding Link	Terminal Block		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 600V	Power Cable		X
Kerite 600V	Control Cable		X
Continental Wire and Cable Co.	Instrument Cable		X
	Lubricating Grease (See Note 3, Sh. 2-1)		X
	Seals and Gaskets (See Note 3, Sh. 2-1)		X

SYSTEM: Reactor Building Spray (BS)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
BSP-1A	Pump Motor		X
BSP-1B	Pump Motor		X
BSV-3	Valve Motor Operator		X
BSV-17	Valve Motor Operator		X
BSV-36	Valve Motor Operator		X
BSV-4	Valve Motor Operator		X
BSV-16	Valve Motor Operator		X
BSV-37	Valve Motor Operator		X

SYSTEM: BS Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
BS-6	Terminal Box		X
BS-5	Terminal Box		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 600V	Power Cable		X
Kerite 600V	Control Cable		X
Kerite 5kV	Power Cable		X
Continental Wire and Cable Co.	Instrument Cable		X
BS-PS-25	Pressure Switch		X
BS-PS-18	Pressure Switch		X
BS-PS-62	Pressure Switch		X
PS Cabinet - 3A1	Pressure Switch Cab.		X
BS-PT-16	Pressure Transmitter		X
BS-PT-17	Pressure Transmitter		X
BS-80-FIS	Flow Switch		X
BS-79-FIS	Flow Switch		X
	Lubricating Grease (See Note 3, Sh. 2-1)		X

SYSTEM: Chemical Addition and Sampling - Reactor (CA)

COMPONENTS			
PLANT IDENTIFICATION NO. (TAG NO.)	GENERIC NAME	LOCATION	
		INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
CAV-1	Valve Motor Operator	X	
CAV-3	Valve Motor Operator	X	
CAV-126	Valve Motor Operator	X	
CAV-4	Valve Motor Operator	X	
CAV-5	Valve Motor Operator	X	
CAV-2	Solenoid Valve		X
CAV-6	Solenoid Valve		X
CAV-7	Solenoid Valve		X

SYSTEM: CA Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
CA-1	Local Control Station		X
CA-2	Local Control Station		X
CA-3	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
EPA #410	Electrical Penetration Assembly	X	X
Kerite 600V	Power Cable	X	X
Kerite 600V	Control Cable	X	X
Burndy Crimp Type	Terminal Lugs	X	X
Kulka 7TB & 5TB	Terminal Strip (Penetration)	X	X
CA-1	Terminal Box		X
CA-2	Terminal Box		X
CA-3	Terminal Box		X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	

SYSTEM: Condensate (CD)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
Deleted (Ref. Sh. 2-42)			
Deleted (Ref. Sh. 2-42)			

SYSTEM: Core Flooding (CF)

COMPONENTS			
PLANT IDENTIFICATION NO. (TAG NO.)	GENERIC NAME	LOCATION	
		INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
CFV-11	Valve Motor Operator	X	
CFV-12	Valve Motor Operator	X	
CFV-16	Valve Motor Operator	X	
CFV-15	Valve Motor Operator	X	
CFV-25	Solenoid Valve		X
CFV-26	Solenoid Valve		X
CFV-27	Solenoid Valve		X
CFV-28	Solenoid Valve		X
CFV-42	Solenoid Valve		X
CFV-29	Solenoid Valve		X

SYSTEM: CF Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
CF-1	Terminal Box		X
CF-2	Terminal Box		X
CF-3	Terminal Box		X
CF-4	Terminal Box		X
CF-1	Local Control Station		X
CF-3	Local Control Station		X
CF-5	Local Control Station		X
CF-6	Local Control Station		X
EPA #410	Electrical Penetration Assembly	X	X
States Co. Sliding Link	Terminal Blocks		X
Kulka 7TB & 5TB	Terminal Strip (Penetration)	X	X
Burndy Crimp Type	Terminal Lugs	X	X
Kerite 600V	Power Cable	X	X
Kerite 600V	Control Cable	X	X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	

SYSTEM: CI Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
CI-2	Terminal Box		X
CI-3	Terminal Box		X
CI-4	Terminal Box		X
CI-9	Terminal Box		X
CI-3	Local Control Station		X
CI-4	Local Control Station		X
CI-5	Local Control Station		X
CI-6	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Kerite 600V	Power		X
Kerite 600V	Control		X
Burndy Crimp Type	Terminal Lugs		X

[illegible]

SYSTEM: Decay Heat Removal (DH)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
DHP-1A	Pump Motor		X
DHP-1B	Pump Motor		X
DHV-5	Valve Motor Operator		X
DHV-34	Valve Motor Operator		X
DHV-110	Valve Motor Operator		X
DHV-6	Valve Motor Operator		X
DHV-35	Valve Motor Operator		X
DHV-111	Valve Motor Operator		X
DHV-42	Valve Motor Operator		X
DHV-43	Valve Motor Operator		X
DHV-11	Valve Motor Operator		X
DHV-12	Valve Motor Operator		X

SYSTEM: DH Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
Burndy Crimp Type	Terminal Lugs		X
Kerite 5kV	Power Cable		X
Kerite 600V	Power Cable		X
Kerite 600V	Control Cable		X
Continental Wire and Cable Co.	Instrument Cable		X
DH-001-PT1	Pressure Transmitter		X
DH-001-PT2	Pressure Transmitter		X
DH-2-TE1	Temperature Element		X
DH-2-TE2	Temperature Element		X
DH-6-TE1	Temperature Element		X
DH-6-TE2	Temperature Element		X
DH-43-FIS	Flow Switch		X
DH-44-FIS	Flow Switch		X
DH-38-dPT	Flow Transmitter		X
	Lubricating Grease (See Note 3, Sh. 2-1)		X
	Seals and Gaskets (See Note 3, Sh. 2-1)		X

SYSTEM: Emergency Feedwater (EF)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
EFP-1	Pump Motor		X
EFV-3	Valve Motor Operator		X
EFV-4	Valve Motor Operator		X
EFV-11	Valve Motor Operator		X
EFV-14	Valve Motor Operator		X
EFV-32	Valve Motor Operator		X
EFV-33	Valve Motor Operator		X
EFV-7	Valve Motor Operator		X
EFV-8	Valve Motor Operator		X

SYSTEM: EF Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
EFV-11	Motor Starter		X
EFV-14	Motor Starter		X
EFV-32	Motor Starter		X
EFV-33	Motor Starter		X
EF-3	Terminal Box		X
EF-4	Terminal Box		X
EF-3	Local Control Station		X
EF-4	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 5kV	Power Cable		X
Kerite 600V	Control Cable		X
Kerite 600V	Power Cable		X
Continental Wire and Cable Co.	Instrument Cable		X
	Lubricating Grease (See Note 3, Sh. 2-1)		X
	Seals and Gaskets (See Note 3, Sh. 2-1)		X

SYSTEM: Feedwater (FW)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
FWV-14	Valve Motor Operator		X
FWV-162	Valve Motor Operator		X
FWV-36	Valve Motor Operator		X
FWV-31	Valve Motor Operator		X
FWV-35	Valve Motor Operator		X
FWV-30	Valve Motor Operator		X
FWV-28	Valve Motor Operator		X
FWV-15	Valve Motor Operator		X
FWV-161	Valve Motor Operator		X
FWV-33	Valve Motor Operator		X
FWV-32	Valve Motor Operator		X
FWV-34	Valve Motor Operator		X
FWV-29	Valve Motor Operator		X

SYSTEM: FW Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
FWV-162	Local Motor Starter		X
FWV-36	Local Motor Starter		X
FWV-35	Local Motor Starter		X
FWV-161	Local Motor Starter		X
FWV-33	Local Motor Starter		X
FWV-34	Local Motor Starter		X
FWV-11	Terminal Box		X
FW-3	Terminal Box		X
FW-20	Terminal Box		X
FW-4	Terminal Box		X
FW-11	Local Control Station		X
FW-5	Local Control Station		X
FW-12	Local Control Station		X
FW-6	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 600V	Power Cable		X

SYSTEM: FW Equipment/Components (Typical)

[illegible]

SYSTEM: Main Steam (MS)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MSV-130	Solenoid Valve		X
MSV-148	Solenoid Valve		X
MSV-411	Solenoid Valve		X
MSV-412	Solenoid Valve		X
MSV-413	Solenoid Valve		X
MSV-414	Solenoid Valve		X
MSV-55	Valve Motor Operator		X
MSV-56	Valve Motor Operator		X

SYSTEM: MS Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MS-7	Terminal Box		X
MS-8	Terminal Box		X
States Co. Sliding Link	Terminal blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 600V	Power and Control Cable		X
Continental Wire and Cable Co. 600V	Control Cable		X
MSV-55	Local Motor Starter		X
MS-5	Terminal Box		X
MS-5	Local Control Station		X
MSV-56	Local Motor Starter		X
MS-6	Terminal Box		X
MS-6	Local Control Station		X
MS-17	Terminal Box		X
MS-18	Terminal Box		X
MS-9	Local Control Station		X
MS-10	Local Control Station		X
MS-92-PS1	Pressure Switch		X

SYSTEM: Makeup and Purification (MU)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MUP-1A	Makeup Pump Motor		X
MUP-1B	Makeup Pump Motor		X
MUP-1C	Makeup Pump Motor		X
MUV-23	Valve Motor Operator		X
MUV-24	Valve Motor Operator		X
MUV-73	Valve Motor Operator		X
MUV-53	Valve Motor Operator		X
MUV-64	Solenoid Valve		X
MUV-40	Valve Motor Operator	X	
MUV-41	Valve Motor Operator	X	
MUV-258	Valve Motor Operator	X	
MUV-259	Valve Motor Operator	X	
MUV-260	Valve Motor Operator	X	
MUV-261	Valve Motor Operator	X	
MUV-27	Valve Motor Operator		X
MUV-25	Valve Motor Operator		X
MUV-26	Valve Motor Operator		X

SYSTEM: Makeup and Purification (MU)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MUV-58	Valve Motor Operator		X
MUV-257	Valve Motor Operator		X
MUV-253	Solenoid Valve		X
MUV-23/24	Local Motor Starter		X
MUV-25/26	Local Motor Starter		X
MUV-18	Valve Motor Operator		X
MUV-112	Valve Motor Operator		X
MU-25-SV	Solenoid Valve		X
MUV-38	Valve Motor Operator	X	
MUV-39	Valve Motor Operator	X	
MUV-49	Solenoid Valve		X

SYSTEM: MU Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MU-11	Terminal Box		X
MU-21	Terminal Box		X
MU-4	Terminal Box		X
MU-5	Terminal Box		X
MU-7	Local Control Station		X
MU-16	Local Control Station		X
MU-4	Local Control Station		X
MU-5	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs	X	X
EPA #410	Electrical Penetration Assembly	X	X
Kulka 7TB & 5TB	Terminal Strip (Penetration)	X	X
Kerite 600V	Power Cable	X	X
Kerite 600V	Control Cable	X	X
Continental Wire and Cable Co. 600V	Control Cable		X
Rockbestos 600V	Control Cable		X
Kerite 5kV	Power Cable		X

SYSTEM: MU Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MU-14-LT1	Level Transmitter		X
MU-14-LT2	Level Transmitter		X
MU-24-dPT	Pressure Transmitter		X
MU-23-dPT1	Pressure Transmitter		X
MU-23-dPT2	Pressure Transmitter		X
MU-23-dPT3	Pressure Transmitter		X
MU-23-dPT4	Pressure Transmitter		X
MU-22	Terminal Box		X
EPA #104	Electrical Penetration Assembly	X	X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	X
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	X

SYSTEM: Electrical Power Distribution (MT)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MTMC-3	Motor Control Center		X
MTMC-4	Motor Control Center		X
MTMC-5	Motor Control Center		X
MTMC-6	Motor Control Center		X
MTBD-2A	Electrical Penetration Assembly #126	X	X
MTBD-2B	Electrical Penetration Assembly #412	X	X
MTBD-2C	Electrical Penetration Assembly #309	X	X
MTBD-8A	Electrical Penetration Assembly #104	X	X
MTBD-8B	Electrical Penetration Assembly #308	X	X
MTBD-8C	Electrical Penetration Assembly #410	X	X
MTBD-8D	Electrical Penetration Assembly #411	X	X
MTBD-9A	Electrical Penetration Assembly #129	X	X
MTBD-9B	Electrical Penetration Assembly #130	X	X
MTBD-9C	Electrical Penetration Assembly #132	X	X
MTBD-9D	Electrical Penetration Assembly #133	X	X
MTMC-7	Motor Control Center		X
MTBD-11A	Electrical Penetration Assembly #405	X	X

SYSTEM: Electrical Power Distribution (MT)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
MTBD-11B	Electrical Penetration Assembly #406	X	X
Kerite 600V	Power Cable		X
MTMC-1	Motor Control Center		X
MTMC-2	Motor Control Center		X
Deleted (Ref. Sh. 2-111)			
Deleted (Ref. Sh. 2-112)			
MTMC-12	Motor Control Center		X
MTMC-13	Motor Control Center		X
Kerite 5kV	Power Cable		X
Continental Wire and Cable Co.	Control and Instrument Cable	X	X
Rockbestos 600V	Control Cable		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lug	X	X
T-1NS-HT	Kerite Termination Procedure		X
T-5NS-HT	Kerite Termination Procedure		X
33-74 (Special)	Kerite Termination Procedure	X	

SYSTEM: Electrical Power Distribution (MT)

COMPONENTS			
PLANT IDENTIFICATION NO. (TAG NO.)	GENERIC NAME	LOCATION	
		INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
39-69	Kerite Termination Procedure	X	
Bishop Biseal 3	Filler Tape	X	X
Bishop W962	Insulating and Filler Tape	X	
Deleted (Ref. Sh. 2-134)			
Scotch 27	Glass Electrical Tape	X	
Scotch 33+	Vinyl Electrical Tape		X
Scotch 70	Silicone Rubber Tape	X	
Scotch 130C	Insulating Tape	X	
Burndy INSULINK	Splice Terminal	X	X
Deleted (Ref. Sh. 2-139)			
Deleted (Ref. Sh. 2-140)			
Scotch 130C	Insulating Tape	X	
Bishop W962	Insulating Tape Filler Tape	X	

SYSTEM: Reactor Coolant (RC)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
RC-4A-TE4	Temperature Element	X	
RC-14A-DPT-1	Flow Transmitter	X	
RC-3A-PT-2	Pressure Transmitter	X	
RC-PT-132	Pressure Transmitter	X	
RC-3A-PT3	Pressure Transmitter	X	
Continental Wire and Cable Co.	Instrument Cable	X	X
EPA #129	Electrical Penetration Assembly	X	X
EPA #130	Electrical Penetration Assembly	X	X
EPA #132	Electrical Penetration Assembly	X	X
Kulka 5TB & 7TB	Terminal Strip (Penetration)	X	X
Burndy Crimp Type	Terminal Lugs	X	X
Deleted (See Sh. 2-176)			
RCV-11	Valve Motor Operator	X	
RC-8	Terminal Box		X
EPA #308	Electrical Penetration Assembly	X	X
States Co. Sliding Link	Terminal Blocks		X
Kerite 600V	Power and Control Cable	X	X

SYSTEM: Reactor Coolant (RC)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
RC-4A-TE1	Temperature Element	X	
RC-4B-TE1	Temperature Element	X	
RC-4B-TE4	Temperature Element	X	
RC-5A-TE1	Temperature Element	X	
RC-5A-TE2	Temperature Element	X	
RC-5A-TE3	Temperature Element	X	
RC-5A-TE4	Temperature Element	X	
RC-5B-TE1	Temperature Element	X	
RC-5B-TE2	Temperature Element	X	
RC-5B-TE3	Temperature Element	X	
RC-5B-TE4	Temperature Element	X	
RC-1-dPT1	Level Transmitter	X	
RC-1-dPT2	Level Transmitter	X	
RC-1-dPT3	Level Transmitter	X	
EPA #133	Electrical Penetration Assembly	X	X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	

SYSTEM: Reactor Coolant (RC)

[illegible]

SYSTEM: Radiation Monitoring (RM)

[illegible]

SYSTEM: Secondary Plant (SP)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
SP-6A-PT1	Pressure Transmitter	X	
SP-6A-PT2	Pressure Transmitter	X	
SP-6B-PT1	Pressure Transmitter	X	
SP-6B-PT2	Pressure Transmitter	X	
SP-1A-LT1	Level Transmitter	X	
SP-1A-LT2	Level Transmitter	X	
SP-1A-LT3	Level Transmitter	X	
SP-1A-LT4	Level Transmitter	X	
SP-1A-LT5	Level Transmitter	X	
SP-1B-LT1	Level Transmitter	X	
SP-1B-LT2	Level Transmitter	X	
SP-1B-LT3	Level Transmitter	X	
SP-1B-LT4	Level Transmitter	X	
SP-1B-LT5	Level Transmitter	X	
Deleted (Ref. Sh. 2-187)			
Deleted (Ref. Sh. 2-187)			
Deleted (Ref. Sh. 2-187)			

SYSTEM: Secondary Plant (SP)

COMPONENTS			
PLANT IDENTIFICATION NO. (TAG NO.)	GENERIC NAME	LOCATION	
		INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
Deleted (Ref. Sh. 2-187)			
Deleted (Ref. Sh. 2-187)			
Deleted (Ref. Sh. 2-187)			
EPA #129	Electrical Penetration Assembly	X	X
Kulka 5TB & 7TB	Terminal Strip (Penetration)	X	X
Burndy Crimp Type	Terminal Lugs	X	X
Continental Wire and Cable Co.	Instrument Cable	X	X
EPA #130	Electrical Penetration Assembly	X	X

SYSTEM: Nuclear Services Closed Cycle Cooling (SW)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
SWP-1A	Pump Motor		X
SWP-1B	Pump Motor		X
SWV-151	Solenoid Valve		X
SWV-109	Solenoid Valve		X
SWV-110	Solenoid Valve		X
SWV-152	Solenoid Valve		X
SWV-47	Solenoid Valve		X
SWV-50	Solenoid Valve		X
SWV-48	Solenoid Valve		X
SWV-49	Solenoid Valve		X
SWV-80	Solenoid Valve		X
SWV-84	Solenoid Valve		X
SWV-79	Solenoid Valve		X
SWV-83	Solenoid Valve		X
SWV-82	Solenoid Valve		X
SWV-86	Solenoid Valve		X
SWV-81	Solenoid Valve		X

SYSTEM: Nuclear Services Closed Cycle Cooling (SW)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
SWV-85	Solenoid Valve		X
SWV-12	Solenoid Valve		X
SWV-353	Solenoid Valve		X
SWV-354	Solenoid Valve		X
SWV-355	Solenoid Valve		X
SWV-35	Solenoid Valve		X
SWV-37	Solenoid Valve		X
SWV-39	Solenoid Valve		X
SWV-41	Solenoid Valve		X
SWV-43	Solenoid Valve		X
SWV-45	Solenoid Valve		X

SYSTEM: SW Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
SW-6	Terminal Box		X
SW-7	Terminal Box		X
SW-8	Terminal Box		X
SW-9	Terminal Box		X
SW-15	Terminal Box		X
SW-10	Terminal Box		X
SW-12	Terminal Box		X
SW-11	Terminal Box		X
SW-13	Terminal Box		X
SW-6	Local Control Station		X
SW-7	Local Control Station		X
SW-8	Local Control Station		X
SW-9	Local Control Station		X
SW-10	Local Control Station		X
SW-13	Local Control Station		X
SW-11	Local Control Station		X
SW-14	Local Control Station		X

SYSTEM: SW Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
SW-14	Terminal Box		X
SW-18	Terminal Box		X
SW-3	Terminal Box		X
SW-3	Local Control Station		X
SW-4	Terminal Box		X
SW-19	Terminal Box		X
SW-5	Terminal Box		X
SW-4	Local Control Station		X
SW-16	Local Control Station		X
SW-5	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 5kV	Power Cable		X
Kerite 600V	Power and Control Cable		X
Continental Wire and Cable Co. 600V	Control Cable		X
NAMCO	Limit Switch		X

SYSTEM: Waste Disposal (WD)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
WDV-3	Valve Motor Operator	X	
WDV-60	Valve Motor Operator	X	
WDV-94	Valve Motor Operator	X	
WDV-406	Valve Motor Operator	X	
WDV-4	Solenoid Valve		X
WDV-61	Solenoid Valve		X
WDV-62	Solenoid Valve		X
WDV-405	Valve Motor Operator		X
Deleted (Ref. Sh. 2-219)			

SYSTEM: WD Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
WD-3	Terminal Box		X
WD-1	Local Control Station		X
States Co. Sliding Link	Terminal Block		X
Burndy Crimp Type	Terminal Lugs	X	X
EPA #411	Electrical Penetration Assembly	X	X
Kulka 7TB & 5TB	Terminal Strip (Penetration)	X	X
Kerite 600V	Power Cable	X	X
Kerite 600V	Control Cable	X	X
Continental Wire and Cable Co. 600V	Control Cable		X
EPA #308	Electrical Penetration Assembly	X	X
WD-26-LT	Level Transmitter	X	
WD-222-LT	Level Transmitter	X	
EPA #132	Electrical Penetration Assembly	X	X
EPA #133	Electrical Penetration Assembly	X	X
	Lubricating Grease (See Note 3, Sh. 2-1)	X	X
	Seals and Gaskets (See Note 3, Sh. 2-1)	X	X

SYSTEM: Radwaste (US)

[illegible]

SYSTEM: WS Equipment/Components (Typical)

COMPONENTS			
PLANT IDENTIFICATION		LOCATION	
NO. (TAG NO.)	GENERIC NAME	INSIDE PRIMARY CONTAINMENT	OUTSIDE PRIMARY CONTAINMENT
WS-2	Terminal Box		X
WS-3	Terminal Box		X
WS-1	Local Control Station		X
WS-2	Local Control Station		X
WS-3	Local Control Station		X
WS-4	Local Control Station		X
States Co. Sliding Link	Terminal Blocks		X
Burndy Crimp Type	Terminal Lugs		X
Kerite 600V	Control Cable		X
Rockbestos 600V	Control Cable		X
WS-4	Terminal Box		X

SECTION 2

Component Evaluation Sheets

NOTES:

1. Equipment will be replaced (if available) as soon as possible but no later than June 30, 1982 unless information is received or obtained that allows the equipment to remain in-situ.
2. High energy source (Aux. Steam) provided with automatic isolation valve, precluding a harsh environment.
3. Lubricating grease, seals, and gaskets for valve motor operators and geared limit switches have been tested with the assembled unit in accordance with the applicable limit torque test report indicated on the individual component evaluation worksheets for the respective valve operators. If no test report is indicated, then qualification information has been requested via the noted letter to the manufacturer/supplier.
4. Information available on material evaluations proceeding to determine qualification - if not acceptable, material and/or equipment shall be replaced (if available) as soon as possible but no later than June 30, 1982 or replaced per a planned maintenance schedule.
5. Aging insignificant per Appendix C of DOR Guidelines.
6. B & W is evaluating aging.
7. Maintenance procedures will be modified (if required) based on actual records to alleviate aging problems.
8. Multi-amp/GAI letter of 9/17/80 indicates IEEE-323 Qualification Program is in progress and should be complete by the first quarter of 1981. Should this testing program indicate the terminal blocks to be unqualified, qualified terminal blocks (if available) will be installed as soon as possible but no later than June 30, 1982.

CABLE AND CABLE TERMINATIONS

Cable for interconnecting each system component was listed on the Master List of the respective system. Cable termination procedures and materials for these systems were listed only on the Master List for the Electrical Power Distribution (MT) System. Only one Component Evaluation Sheet exists for each of the cable termination procedures and materials. These Component Evaluation Sheets are found in the Electrical Power Distribution (MT) System of this section (pages 2-122 through 2-140).

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHF-1A Component: Fan Motor Manufacturer: Westinghouse Model Number: Type LLA Function: Recirculate air through- out Reactor Building Accuracy: N/A Service: Reactor Building Fan Assembly 3A Location: Containment Elev. 119 Flood Level Elev: 99.85 Above Flood Level: Yes X No	Operating Time	6 Months		See Note 1			See Note 1 Sh. 2-1
	Temperature (°F)	See Fig. 4-5	320	3	1		None
	Pressure (PSIA)	See Fig. 4-5	94.7	3	1		None
	Relative Humidity (%)	100	100	3	1		None
	Chemical Spray	Boron Na OH		2			See Note 1 Sh. 2-1
	Radiation (Rads)	2.0×10^7	1.4×10^8	4	1		None
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
	Submergence	Not Required	Not Required				None

Documentation References:

1. Westinghouse report Nos. WCAP-7343-L and WCAP-9003
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
3. FSAR Fig. 14-72G
4. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering Evaluation
2. Westinghouse/GAI letter of 8/27/80 sent to MFG requesting qualification info.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHF-1B AHF-1C Component: Fan Motor Manufacture: Westinghouse Model Number: Type LLA Function: Recirculate air through out Reactor Building Accuracy: N/A Service: Reactor Building F Assembly 3B & 3C Location: Containment Elev. 95 Flood Level Elev: 99.85 Above Flood Level: Yes ☒ No ☐	Operating Time	6 Months		See Note 1			See Note 1 Sh. 2-1
	Temperature (°F)	See Fig. 4-5	320	3	1		None
	Pressure (PSIA)	See Fig. 4-5	94.7	3	1		None
	Relative Humidity (%)	100	100	3	1		None
	Chemical Spray	Baron Na OH		2			See Note 1 Sh. 2-1
	Radiation (Rads)	7.8×10^6	1.4×10^8	4	1		None
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
	Submergence	Not Required	Not Required				None

Documentation References:

1. Motor Insulation Report No. WCAP-7343-L
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. FSAR Fig. 14-72G
4. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Westinghouse/GAI letter of 8/27/80 sent to MFG requesting qualification info.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHF-15A & 15B Component: FAN MOTOR Manufacturer: CENTURY ELECTRIC Model Number: SC/80T Function: Recirculate air in Decay Heat Closed Cycle Cooling Pump Room Accuracy: N/A Service: Decay Heat Closed Cycle Pump Air Handling Unit Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 4 Sh. 2-1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 4 Sh. 2-1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 4 Sh. 2-1
	Relative Humidity(%)	Ambient = < 100		Sh. Note 2 Sh 2-1			See Note 4 Sh. 2-1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.6 x 10 ⁴		1			See Note 4 Sh. 2-1
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHV-1B AHV-1C Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-1-401H3BC Function: Containment Isolation Accuracy: N/A Service: Containment Purge Exhaust Valve Location: Containment Elev. 119	Operating Time	1 min.	See Fig. 4-15	2	4	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	329	1	4	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-15	1	4	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Baron Na OH	Boric Acid	3	4	Simultaneous Test	None
	Radiation (Rads)	1.0 x 10 ⁴		5			See Note 1 Sh. 2-1
	Aging	See Note 7 Sh. 2-1	See Note 7				See Note 7 Sh. 2-1
Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72G
2. Tech. Spec. Table 3.6-1
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
4. Philadelphia Gear Test Report #600198 dated Jan. 2, 1969 and Addendum No. 1 dated April 29, 1969.
5. Dose Maps, Fig. 4-2.

Notes:

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHV-1A Component: Solenoid Valve Manufacture: H. Pratt Model Number: Function: Isolation Accuracy: N/A Service: Containment Purge Exhaust Location: Auxiliary Bldg. Elev. 143 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1, 2			See Note 1 Sh. 2-1
	Temperature (°F)	Ambient		See Note 1			See Note 1 Sh. 2-1
	Pressure (PSIA)	14.7		See Note 1			See Note 1 Sh. 2-1
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 1 Sh. 2-1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 1 Sh. 2-1
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
	Submergence						

Documentation References:

1. FSAR Chapter 7, paragraph 7.1.1.7
2. Tech Spec Table 3.6-1
3. Dose Maps, Fig. 4-3.

Notes:

1. Ref Note #2 sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AHV-ID Component: Solenoid Valve Manufacture: H. Pratt Model Number: Function: Isolation Accuracy: N/A Service: Containment Purge Exhaust Location: Intermediate Bldg. Elev. 119	Operating Time	1 min.		2, 3			See Note 1 Sh. 2-1
	Temperature (°F)	Note 1		1			See Note 1 Sh. 2-1
	Pressure (PSIA)	19.15		1			See Note 1 Sh. 2-1
	Relative Humidity (%)	100		1			See Note 1 Sh. 2-1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		4			See Note 1 Sh. 2-1
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. FSAR Chap. 7, paragraph 7.1.1.7
3. Tech Spec. Table 3.6-1
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref Fig. 4-4.
(From GAI Report No. 1811 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. MTMC-4,5 Component: WALL MOUNTED STARTER Manufacture: ALLEN-BRADLEY Model Number: Series K Function: Energize Fan Motor Accuracy: N/A Service: Reactor Building Fan Assembly 3A, AHF-1A Location: 3B, AHF-1B Auxiliary Bldg. Elev.119	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	2.6 x 10 ⁴	1.0 x 10 ⁵	1	See Note 4		None
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. MTMC-7 Component: WALL MOUNTED STARTER Manufacture: ALLEN-BRADLEY Model Number: Series K Function: Energize Fan Motor Accuracy: N/A Service: Reactor Building Fan Assembly 3C, AHF-1C Location: Auxiliary Bldg. Elev. 119	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.6 x 10 ⁵		1			See Note 2
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-5, AH-6 Component: LOCAL CONTROL STATION Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UE212 Lights Function: AH Control Accuracy: N/A Service: Decay Heat Closed Cycle Pp AH Unit 3A, AHF-15A; Location: 3B, AHF-15B Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		1			See Note 2
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
Submergence							

Documentation References:

1. Base Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-28 Component: LOCAL CONTROL STATION Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: AH Control Accuracy: N/A Service: Containment Purge Valve 3A, AHV-1A Location: Auxiliary Bldg. Elev. 143 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		2			See Note 1
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-3.

Notes:

1. Ref. Note 1, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-29 Component: LOCAL CONTROL STATION Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: AH Control Accuracy: N/A Service: Containment Purge Valve 3D, AHV-1D Location: Intermediate Bldg. Elev. 719 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 2
	Temperature (°F)	See Note 1		2			See Note 2
	Pressure (PSIA)	19.15		2			See Note 2
	Relative Humidity(%)	100		2			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 2
	Aging	See Note 7 Sh. 2-1	See Note 7 Sh. 2-1				See Note 7 Sh. 2-1
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. GAI Report No. 1811 dated 10/1/73.
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4
(From GAI Rept No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-23 Component: TERMINAL BOX Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Containment Purge Valve 3A Wiring Location: Auxiliary Bldg. Elev. 143 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴	1.0 x 10 ⁶	3	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. GE letter of 10/10/78; Electrical Terminal Block Testing
3. Dose Maps, Fig. 4-3.

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-24 Component: TERMINAL BOX Manufacture: Field Fabricated Model Number: States Type NT Function: Terminal Blocks Field Connection of Power and Control Cables Accuracy: N/A Service: Containment Purge Valve 3D Wiring Location: Intermediate Bldg. Elev. 119	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. GE letter of 10/10/78; Electrical Terminal Block Testing
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. CONTROL CAB 16A & CONTROL CAB 16B Component: CONTROL CABINET Manufacture: JOHNSON CONTROL Model Number: Function: AH Control Accuracy: N/A Service: Decay Heat Closed Cycle Pp. AH Unit 3A, AHF-15B; Location: 3B, AHF-15B Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.3 x 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 4, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-315-TS AH-410-TS Component: TEMPERATURE SWITCH Manufacture: PENN CONTROLS Model Number: A70KA-I Function: Actuate on increasing temperature Accuracy: Service: Decay Heat Closed Cycle Pp AH Unit 3A, AHF-15A; Location: 3B, AHF-15B Auxiliary Bldg. Elev.95	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.3 x 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AH ID No. AH-552-dPS Component: FLOW SWITCH Manufacture: CLEVELAND Model Number: AFS-145 Function: Monitor difference between intake and discharge air flow Service: Containment Purge Valve 3A, AHV-1A Location: Auxiliary Bldg. Elev.143 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		2			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-3.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Air ID No. AH-551-dPS Component: FLOW SWITCH Manufacture: CLEVELAND Model Number: AFS-145 Function: Monitor difference between intake and discharge Accuracy: air flow Service: Containment Purge Valve 3D, AHV-1D Location: Intermediate Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AS Plant ID No. ASV-5 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-00 Function: System Line-up Accuracy: N/A Service: EF Pump Turb. Iso. valve Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	24 Hours		See Note 4			See Note 1
	Temperature (°F)	See Note 3		1			See Note 1
	Pressure (PSIA)	19.15		1			See Note 1
	Relative Humidity(%)	100		1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		2			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report # 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh 2-1.
3. Ref. Fig. 4-4.
(From GAI Report No. 1811 10/1/73)
4. Operation/Engineering evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AS Plant ID No. ASV-5 Component: Local Motor Starter Manufacture: Allen-Bradley Model Number: Bulletin 205 Function: Energize Valve Motor Operator Accuracy: N/A Service: Motor starter for operating valve ASV-5 Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	1 min.		3			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100%		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report # 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.
3. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Allen-Bradley /GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AS Plant ID No. AS-1 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 Switches G.E. UC212 lights Function: Local Control Accuracy: N/A Service: E/ Comp Turb. Iso. Vlv. ASV-5 Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	1 min.		3			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. GAI Report # 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.
3. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: AS Plant ID No. AS-1 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Termination Power & Control Cables Accuracy: N/A Service: EF Pump Turb. Iso. Valve ASV-5 Location: Intermediate Bldg. Elev. 95'0"	Operating Time	1 min.	8 days	4	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	2	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report # 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.
3. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing
4. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh.2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. BSP-1A/1B Component: Pump Motor Manufacturer: Westinghouse Model Number: Type LAC Function: Reactor Bldg. Spray Accuracy: N/A Service: Reactor Bldg. Spray Pump 3A/3B Location: Auxiliary Bldg. Elev. 75'-0"	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.7×10^5		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. B&W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Ref. Note 6, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. ESV 4 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-040 Function: System Line-up Accuracy: N/A Service: Reactor Bldg. Spray Header Inlet iso. Valve Location: Auxiliary Bldg. Elev. 95'-0"	Operating Time	24 Hours	See Fig. 4-10	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Relative Humidity(%)	Ambient = <100	100	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.7×10^7	2.0×10^7	2	1	Sequential Test	None
	Aging	None	40 years		1	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Limitorque Test Report #B0003 dated 5/28/76
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION (KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. BSV-3 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-040 Function: System Line-up Accuracy: N/A Service: Reactor Bldg. Spray Header Inlet Iso. Valve Location: Auxiliary Bldg. Elev. 95'-0"	Operating Time	24 Hours	See Fig. 4-10	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	2.7×10^7	2.0×10^7	2	1	Sequential Test	See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Limitorque Test Report #B0003 dated 5/28/76.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. BSV-16/17 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-00-25 Function: System Line-up Accuracy: N/A Service: R.B. Spray Pump Suction Iso. Valve to BSP-1B/1A Location: Auxiliary Bldg. Elev. 75'-0"	Operating Time	1 min.	See Fig. 4-10	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.9×10^6	2.0×10^7	3	2	Sequential Test	None
	Aging	None	40 years		2	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

Notes:

1. Tech. Spec. Table 3.6-1
2. Limatorque test report #B0003 dated 5/28/76
3. Dose Maps, Fig. 4-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. BSV-36/37 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB -000-5 Function: System Line-up Accuracy: N/A Service: BST-2 Iso. Valve to Decay Heat Pump 3A/3B Location: Auxiliary Bldg. Elev. 75'-0"	Operating Time	24 hours	See Fig. 4-10	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100%	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.7×10^5	2.0×10^7	1	2	Sequential Test	None
	Aging	None	40 years		2	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Limitorque test report # B0003 dated 5/28/76.

Notes:

1. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS Plant ID No. BS-5/6 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Control Cables Accuracy: N/A Service: BS-7' 80-FIS for R. B. Spray Header Inlet Iso. Valves BSV-3/4 Location: Auxiliary Bldg. Elev. 95'0"	Operating Time	24 hours	8 days	See Note 2	1	Simultaneous Test	See Note 1
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8	1.0×10^6	2	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing.
2. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 8, Sh. 2-1
2. Operation/Engineering evaluation.
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-PS-18 Component: Press Switch Manufacture: Square - D Model Number: 9013-AMG-5 Function: HI Cont. Press. Trip Accuracy: 5 psig Dead band Service: Cont. Press Measurement Location: Int. Bldg. El. 95'	Operating Time	24 Hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2	140	1, 4	2		See Note 3
	Pressure (PSIA)	19-15	Atmosphere	1, 4	2		See Note 3
	Relative Humidity(%)	100	50	1, 4	2		See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		5			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. CAI Report #1811, dated October 1, 1973.
2. Vendor certification.
3. Deleted
4. FSAR Chapter 7, paragraph 7.1.1.7
5. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig. 4-4.
(From CAI Report #1811 10/1/73)
3. Ref Note #1 Sheet 2-1
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-PS-25 Component: Press Switch Manufacture: Static-O-Ring Model Number: 12N-K5-CM2 Function: HI Cont. Pressure trip Accuracy: 0.15 psig Deadband Service: Cont. Press Measurement Location: Int. Bldg. El. 95' Flood Level Elev: N/A Above Flood Level: ^{Yes} NO	Operating Time	24 Hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2	140	1, 4	2		See Note 3
	Pressure (PSIA)	19.15	Atmosphere	1, 4	2		See Note 3
	Relative Humidity(%)	100	50	1, 4	2		See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		5			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. GAI Report #1811, dated October 1, 1973.
2. Vendor certification.
3. Deleted
4. FSAR Chapter 7, paragraph 7.1.1.7
5. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref Fig. 4-4.
(From GAI report #1811 10/1/73)
3. Ref Note #1 Sheet 2-1
4. Ref. Note 4, Sh. 2-1.
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-PS-62 Component: Press Switch Manufacture: Static-O-Ring Model Number: 12N-K5-CM2 Function: Hi Cont. Press Trip Accuracy: 0.15 psig deadband Service: Cont. Press Measurement Location: Aux. Bldg. El. 95' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	Ambient	140	See Note 2 Sh. 2-1	1		None
	Pressure (PSIA)	14.7	Atmosphere	See Note 2 Sh. 2-1	1		None
	Relative Humidity(%)	Ambient = < 100	50	See Note 2 Sh. 2-1	1		None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		2			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Vendor certification
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref Note #1 Sheet 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS PS Cabinet - 3A1, 3A2 (Note 2) Component: Press. Switch Cabinet Manufacture: Hoffman Co. Model Number: N/A Function: N/A Accuracy: N/A Service: Cabinets for mounting of pressure switches Location: Inter. Bldg. El. 95' Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	24 Hours		See Note 1			See Note 4
	Temperature (°F)	See Note 3	140	1	2		See Note 4
	Pressure (PSIA)	19.15	Atmosphere	1	2		See Note 4
	Relative Humidity (%)	100		1			See Note 4
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		3			See Note 4
	Aging	See Note 5	See Note 5				See Note 5
Submergence							

Documentation References:

1. GAI Report #1811, dated October 1, 1973.
2. Vendor certification
3. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation.
2. Includes other cabinet mounted equipment.
3. Ref Fig. 4-4. (from GAI report # 1811 10/1/73)
4. Ref note # 1 sheet 2-1
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS PS Cabinet - 3A4 (Note 2) Component: Press. Switch Manufacture: Hoffman Co. Model Number: N/A Function: N/A Accuracy: N/A Service: Cabinets for mounting of pressure Switches Location: Aux. Bldg. 95'	Operating Time	24 Hours		See Note 1			See Note 4
	Temperature (°F)	Ambient	140	See Note 2 Sh. 2-1	2		None
	Pressure (PSIA)	14.7	Atmosphere	See Note 2 Sh. 2-1	2		None
	Relative Humidity(%)	Ambient = ≤ 100		See Note 2 Sh. 2-1			See Note 4
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.7×10^4		1			See Note 4
	Aging	See Note 5	See Note 5				See Note 5
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Vendor certification

Notes:

1. Operation/Engineering evaluation.
2. Includes other cabinet mounted equipment.
3. Ref Fig. 4-4. (from GAI report #1811 10/1/73)
4. Ref Note #4 Sheet 2-1
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-79-FIS Component: Flow Indicator Switch Manufacture: Bart Model Number: SN 1003-4-SC Function: Open/Close BSV-3 Accuracy: N/A Service: React Bldg. Spray Pump 3A Discharge Location: Aux Bldg. EL-95	Operating Time	24 Hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient $\leq$ 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.5×10^4		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref Note #2 Sheet 2-1
2. Ref Note #1 Sheet 2-1
3. Ref Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-80-FIS Component: Flow Indicator Switch Manufacture: Bart Model Number: SN 1003-3-SC Function: Open/Close BSV-4 Accuracy: N/A Service: React Bldg Spray Pym 3B Location: Aux Bldg EL=95	Operating Time	24 Hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient $\leq$ <100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.5×10^4		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref Note #2 Sheet 2-1
2. Ref Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: BS BS-PT-16,17 Component: Press Transmitter Manufacture: L & N Model Number: 1973-215-2 Function: Containment Press Monitor Accuracy: $\pm 12\%$ Service: Control Press Measurement Location: Aux Bldg EL=95'	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA Plant ID No.: CAV - 1/3 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-2 Function: Isolation Accuracy: N/A Service: Press. stm./wtr. space sampling Iso. valve Location: Inside Containment Elev. 95'-0" Flood Level Elev: 99.85' Above Flood Level: Yes x No	Operating Time	30 days	See Fig. 4-14	See Note 1.	1	Simultaneous test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-14	5	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-14	5	1	Simultaneous Test	None
	Relative Humidity (%)	100	100	5	1	Simultaneous Test	None
	Chemical Spray	Boron NaOH	Boric Acid Solution	4	1	Simultaneous Test	None
	Radiation (Rads)	8.6×10^4	2.04×10^8	3	2	Sequential Test	None
	Aging	None	40 years		2	Sequential Test	None
	Submergence	Not Required	Not Required				None

Documentation References:

1. Philadelphia Gear Test Report #600198 and Add. No. 1 dated 1/2/69
2. Philadelphia Gear Test Report #600376A Dated 5/13/76.
3. Dose Maps, Fig. 4-1.
4. Tech. Spec. Pg. 3/4 5-7; 3/4 6-12
5. FSAR, Fig. 14-72G

Notes:

1. Operation/Engineering Evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA Plant ID No. CAV-4/5 Component: Valve Motor Operator Manufacturer: Limatorque Model Number: SMB-000-2 Function: Isolation Accuracy: N/A Service: Steam Gen. 3A/3B Sampling Iso.Valve Location: Inside Con- tainment Elev. 95'-0"	Operating Time	1 min.	See Fig. 4-14	3	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-14	5	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-14	5	1	Simultaneous Test	None
	Relative Humidity(%)	100%	100%	5	1	Simultaneous Test	None
	Chemical Spray	Boron NaOH	Boric Acid Solution	4	1	Simultaneous Test	None
	Radiation (Rads)	1.0×10^4	2.04×10^8	6	2	Sequential Test	None
	Aging	None	40 years		2	Sequential Test	None
Flood Level Elev: 99.85' Above Flood Level: Yes ☒ No ☐	Submergence	Not Required	Not Required				None

Documentation References:

Notes:

1. Philadelphia Gear Test Report #600198
2. Philadelphia Gear Test Report #600376
3. Tech. Spec. Table 3.6-1.
4. Tech. Spec. pg 3/4 5-7; 3/4 6-12
5. FSAR Fig. 14-72G
6. Dose Maps, Fig. 4-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA Plant ID No.: CAV-126 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-5 Function: Isolation Accuracy: N/A Service: R.C. Letdown Sample Valve Iso. Valve Location: Inside Con- tainment Elev. 95'-0" Flood Level Elev: 99.85 Above Flood Level: Yes ☒ No ☐	Operating Time	30 days	See Fig. 4-11	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	4	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-12	4	1	Simultaneous Test	None
	Relative Humidity (%)	100	100	4	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	3	1	Simultaneous Test	None
	Radiation (Rads)	8.6 X 10 ⁴	2.04 x 10 ⁸	2	1	Sequential Test	None
	Aging	None	40 years		1	Sequential Test	None
Submergence	Not Required	Not Required					None

Documentation References:

1. Philadelphia Gear Test Report #600456 dated 9/76.
2. Dose Maps, Fig. 4-1.
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
4. FSAR Fig. 14-72G.

Notes:

1. Operation/Engineering Evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA ID No. CAV-2 Component: Solenoid Valve Manufacture: Target Rock Model Number: 77CC-001 Function: Isolation Accuracy: N/A Service: Isolation of Chem. Add. Sampling Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	3 hrs.	2,3	5	Simultaneous Test	None
	Temperature (°F)	See Note 1	312	1	5	Simultaneous Test	None
	Pressure (PSIA)	19.15	79.7	1	5	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	5	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation	1.0×10^4	1.2×10^7	4	5	Sequential Test	None
	Aging	None	40 years		5	Sequential/Functional Test	None
	Submergence						

Documentation References:

1. GAI Report # 1811, dated 10/1/73
2. FSAR Chapter 7, paragraph 7.1.1.7
3. Tech. Spec. Table 3.6-1.
4. Dose Maps, Fig. 4-1
5. Target Rock Corp. Test Report No. 2375 dated 9/26/79.

Notes:

1. Ref. Fig. 4-4

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA ID No. CAV- 6 & 7 Component: Solenoid Valve Manufacturer: Rockwell Model Number: Function: Isolation Accuracy: N/A Service: Isolation of Chem. Add-Sampling Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		2,3			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		4			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. GAI Report # 1811, dated 10/1/73
2. FSAR Chapter 7, paragraph 7.1.1.7
3. Tech. Spec. Table 3.6-1
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4. From
GAI report # 1811 10/1/73
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA ID No. CA-1, 2, 3 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For CAV-2, 6 & 7 Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 2
	Temperature (°F)	See Note 1		2			See Note 2
	Pressure (PSIA)	19.15		2			See Note 2
	Relative Humidity (%)	100		2			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Tech. Spec. Table 6.3-1
2. GAI Report No. 1811 dated 10/1/73
3. Dose Maps, Fig. 4-1

Notes:

1. Ref Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CA ID No. CA-1, 2, 3 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for CAV-2, 6 & 7 Location: Intermediate Bldg. Elev 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 Min.	8 days	1	4	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	2	4	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	2	4	Simultaneous Test	None
	Relative Humidity (%)	100	100	2	4	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	3	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. GAI Report No. 1811 dated 10/1/73
3. Dose Maps, Fig. 4-1.
4. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CD ID No. CDV-43 & 44 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-1 Function: Condensate Demineralizer Accuracy: N/A Service: Heater 3A/3B Discharge Isolation Location: Turbine Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: ☐ Yes ☒ No	Operating Time	1 Hour	See Fig. 4-10	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	212	See Fig. 4-10	1	2	Simultaneous Test	None
	Pressure (PSIA)	16.7	See Fig. 4-10	1	2	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	N/A	2.0×10^7		2	Simultaneous Test	None
	Aging	None	40 years		2	Sequential Test	None
	Submergence						

Documentation References:

1. ~~GAI Report No. 1841 dated 10/1/72.~~
2. ~~Limitorque Test Report #B0003 dated 5/28/76~~

Notes:

1. ~~Operation/Engineering Evaluation.~~

Qualification is not required. These components are included in the Emergency Procedures, however they are not required to maintain reactor integrity following a LOCA or HELB.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID No. CFV-11/12 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-2 Function: Containment Isolation Accuracy: N/A Service: Core Flood Tank 3A/3B N.C. Sampling Valve Location: Inside Containment Elev. 119'-0"	Operating Time	1 min.	See Fig. 4-10	1	5	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-10	3	5	Simultaneous Test	See Note 1
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-10	3	5	Simultaneous Test	See Note 1
	Relative Humidity (%)	100	100	3	5	Simultaneous Test	None
	Chemical Spray	Boron NaOH		2			See Note 1
	Radiation (Rads)	1.0 X 10 ⁴	2.0 x 10 ⁷	4		Sequential Test	None
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: 99.85' Above Flood Level: YesX No	Submergence	Not Required	Not Required				None

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Tech. Spec. page 3/4 5-7; 3/4 6-12
3. FSAR, Fig. 14-72 G
4. Dose Maps, Fig. 4-2.
5. Limitorque test report #B0003 dated 5/28/76

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID No. CFV-15/16 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-000-2 Function: Containment Isolation Accuracy: N/A Service: Core Flood Tank 3A/3B vent to waste gas decay tank Location: Inside containment Elev. 119'-0"	Operating Time	1 min.	See Fig. 4-10	1	5	Simultaneous Test	None
	Temperature (°F)	See Fig 4-5	See Fig. 4-10	3	5	Simultaneous Test	See Note 1
	Pressure (PSIA)	See Fig 4-5	See Fig. 4-10	3	5	Simultaneous Test	See Note 1
	Relative Humidity(%)	100	100	3	5	Simultaneous Test	None
	Chemical Spray	Boron NaOH		2			See Note 1
	Radiation (Rads)	1.0×10^4	2.0×10^7	4	5	Sequential Test	None
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: 99.85' Above Flood Level: Yes X No	Submergence	Not Required	Not Required				None

Documentation References:

1. Tech. Spec. Tab 3.6-1
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. FSAR, Fig. 14-72 G
4. Dose Maps, Fig. 4-2.
5. Limatorque test report #B0003 dated 5/28/76.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF ID No. CFV-25, 26, 29, 42 Component: Solenoid Valve Manufacture: ASCO Model Number: THB 830281R Function: Isolation Accuracy: N/A Service: Fill Makeup Control Valves to CF Tank Location: Auxiliary Bldg El. 119 Flood Level Elev: N/A Above Flood Level: ^{Yes} _{No}	Operating Time	1 min.		1, 2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁶		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1
2. FSAR Chapter 7 paragraph 7.1.1.7
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF ID No. CFV-27, 28 Component: Solenoid Valve Manufacture: ASCO Model Number: THB 830281R Function: Isolation Accuracy: N/A Service: N2 Supply Control valvs. to CF Tank Location: Intermediate Bldg El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		2, 3			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		4			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. FSAR Chapter 7, paragraph 7.1.1.7.
3. Tech. Spec. Table 3.6-1
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref Fig. 4-4 (from GAI report # 1811 10/1/73)
2. Ref Note # 1 Sheet: 2-1
3. Ref Note # 7 Sheet: 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID No.: CF-1,5 , & 6 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 switches G.E. UE212 Switches Function: Local Control Accuracy: N/A Service: C. F. TANK Valves CFV-25,26,29, & 42 Location: Auxiliary Bldg. Elev. 119'-0" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient $\leq$ < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID No.: CF-3 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 switches G.E. UE212 lights Function: Local Control Accuracy: N/A Service: C.F. Tank Valves CFV-27 & 28 Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	1 min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100%		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						None

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4. (From GAI report no. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID no. CF-1,3,4 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Termination of Power & Control Cables Accuracy: N/A Service: C.F. Tank Valves CFV-25,26,29, & 42 Location: Auxiliary Bldg. Elev. 119'-0"	Operating Time	1 min.	8 days	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient $\leq$ < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				
	Radiation (Rads)	1.0×10^4	1.0×10^6	3	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing.
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref No. 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CF Plant ID No. CF-2 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Terminate Power & Control Cables Accuracy: N/A Service: C.F. Tank Valves CFV-27 & 28 Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	21.0	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73
2. Tech. Spec. Table 6.3-1
3. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4 (From GAI report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CI ID No. CIV-34, 35, 40,41 Component: Solenoid Valve Manufacture: Crane Model Number: Function: Isolation Accuracy: N/A Service: Ind. Cooling Cont. Isolation Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient ± < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

Notes:

1. Tech. Spec. Table 3.6-1
2. FSAR Chapter 7 paragraph 7.1.1.7.
3. Dose Maps, Fig. 4-1.

1. Ref. Note # 2 Sheet 2-1
2. Ref. Note # 1 Sheet 2-1
3. Ref. Note # 7 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CI Plant ID No.: CI-3,4,5, & 6 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 Switches G.E. UC/UE212 lights Function: Local Control Accuracy: N/A Service: React. Cavity Cooling Coil Iso. Valves CIV-34,35,40 & 41 Location: Auxiliary Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh.2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 1
	Aging	See Notes 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 1, Sh.2-1
2. Ref. Note 7, Sh.2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: CI Plant ID No. CI-2,3,4, & 9 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Terminate Control Cables Accuracy: N/A Service: React. Cavity Cooling Coil Iso. Valve CIV-34,35,40, & 41 Location: Auxiliary Bldg. Elev. 95'0"	Operating Time	1 min.	8 days	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = ≤ 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴	1.0 x 10 ⁶	3	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. G.E. Co. letter of 10/10/78; Electrical Terminal Block Testing
3. Dose Maps, Fig. 4-1

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DC Plant ID No.: DCP-1A/1B Component: Pump Motor Manufacturer: General Electric Model Number: 5K445AK364 Function: Pump Drive Accuracy: N/A Service: Decay Heat Closed Cycle Cooling Wtr. Pp. 3A/3B Location: Auxiliary Bldg. Elev. 95'-0"	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.6 X 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 4, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH Plant ID No.: DHP-1A/1B Component: Pump Motor Manufacture: Westinghouse Model Number: Type LAC Function: LPI Accuracy: N/A Service: Decay Heat Pump 3A/3B Location: Auxiliary Bldg. Decay Heat Pit Elev. 75'-0" Flood Level Elev: N/A Above Flood Level: ^{Yes} _{No}	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	6.1 X 10 ⁶		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Ref. Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH Plant ID No. DHV-5/6 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-3-100 Function: System Line-Up Accuracy: N/A Service: LPI Containment Iso. Valve from DHP-1A/1B Location: Auxiliary Bldg. Elev. 95'-0"	Operating Time	1 min	See Fig. 4-13	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient ± <100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸		3			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev. N/A							
Above Flood Level: ^{Yes} No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Limatorque report No. F-C3271 dated Feb. 1972.
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH Plant ID No. DHV-11/12 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-000-5 Function: System Line-up Accuracy: N/A Service: DH discharge from DH Pump 3 A/3B to make up Location: pumps Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	See Fig. 4-10	1	3	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	2.0×10^7	2	3	Sequential Test	None
	Aging	None	40 years		3	Sequential Test	None
	Submergence						

Documentation References:

Notes:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-1.
3. Limitorque Test report # B0003 dated 5/28/76

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH Plant ID No.: DHV-34/35 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-2-40 Function: System Line-Jp Accuracy: N/A Service: DH Suction from BST-1 to DHP-1A/1B Location: Auxiliary Bldg. Elev. 75'-0"	Operating Time	1 hour	See Fig. 4-13	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.9 X 10 ⁶		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes NO	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Limitorque report No. F-C3271 dated Feb. 1972.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH Plant ID No.: DHV-110/111 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-1-25 Function: System Line-Up Accuracy: N/A Service: DH Removal Hx 3A/3B Discharge Location: Auxiliary Bldg. Elev. 75'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 months	See Fig. 4-15	See Note 1	2	Simultaneous Test	None See Note 4
	Temperature (°F)	Ambient	See Note 5	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Figure 4-15	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	6.1 X 10 ⁶		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A							
Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Philadelphia Gear Test Report No. 600198 dated Jan. 2, 1969 and Addendum 1 dated April 29, 1969.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1
4. Considered qualified for long term operation in the specified ambient conditions.
5. Temperature ranged from 329° F to 256° F throughout the first 24 hours of the test.

SYSTEM COMPONENT EVALUATION (KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH DH-43-FIS Component: Flow Indicating Switch Manufacture: BART Model Number: SN 1003-1-SC Function: DH Heat Exchanger Discharge DHV-110 Accuracy: Service: Borated WTR To RV Loop A Location: Aux. Bldg. El = 95' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 mos.		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1

4. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION () KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH DH-44-FIS Component: Flow Indicator Switch Manufacture: Bart Model Number: SN 1003-2-SC Function: DH Heat Exchange Discharge DHV-111 Accuracy: Service: Borated WTR To RV Loop B Location: Aux. Bldg. EL = 95'	Operating Time	6 mos.		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH DH-2-TE-1,2 DH-6-TE-1,2 Component: Temp Element Manufacture: Bailey Model Number: 6610447A1 Function: DH Cooler Temp Accuracy: Service: Borated WTR To React Vessel Location: Aux. Bldg. EL = 75' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 mon.		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	6.1 X 10 ⁶		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operations/Engineering Evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH DH-DPT-1,2 Component: Pressure Transmitter Manufacture: BMMo Model Number: BY8240-A Function: DHR Flow Monitor Accuracy: Service: DH Removal Location: Aux. Bldg. EL = 98'4"	Operating Time	6 mon.		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (rads)	2.6 X 10 ⁵		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DH DH-DPT-38 Component: Differential Pressure Transmitter Manufacture: BMCO Model Number: BY8240X-A Function: DH X-Over Flow Monitor Accuracy: Service: LP Injection Crossover Flow Location: Aux Bldg. EL = 95'	Operating Time	6 mon.		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1 X 10 ⁸		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1

Notes:

1. Ref. Note # 2 Sheet 2-1
2. Ref. Note # 1 Sheet 2-1
3. Ref. Note # 7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: DW Plant ID No.: DWV+160 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00-2 Function: Containment Isolation Accuracy: N/A Service: Demin. Water Suply Iso. Valve to React. Bldg. Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	1 min.	See Fig. 4-10	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	See Fig. 4-10	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	See Fig. 4-10	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	2.0×10^7	4	3	Sequentail Test	None
	Aging	None	40 years		3	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Limitorque test report #B0003 dated 5/28/76.
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4 (From GAI report No. 1811 dated 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EFP-1 Component: Pump Motor Manufacture: Electric Machinery Model Number: 2419-S Function: Auxiliary Feedwater Accuracy: N/A Service: Emergency Feed- water Pump 3A Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIG)	19.15		1			See Note 3
	Relative Humidity (%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: ^{Yes} ^{No}	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Fig. 4-4 (From Gai report No. 1811 dated 10/1/73)
3. Ref. Note 4, Sh. 2-1
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF ID No. EFV-3/4 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000 Function: Hotwell Suction Accuracy: N/A Service: Suction from Condensate storage tank Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 hour		See Note 2			None See Note 1
	Temperature (°F)	See Note 3		1			None See Note 1
	Pressure (PSIA)	19.15		1			None See Note 1
	Relative Humidity(%)	100		1			None See Note 1
	Chemical Spray	N/A	N/A				None See Note 1
	Radiation (Rads)	1.0 x 10 ⁶		2			None See Note 1
	Aging	None	See Note 1				None See Note 1
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Qualification of the motor operator is not required because the environment at the valve will be habitable by the time the valve is required to operate, and the valve can be operated manually via the handwheel.
2. Operation/Engineering evaluation.
3. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73)

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF ID No. FFV-7 & 8 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-2 Function: System Line-Up Accuracy: N/A Service: EF Pump Discharge Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	See Fig. 4-10	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	See Note 2	See Fig. 4-10	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	See Fig. 4-10	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	2.0×10^7	2	3	Sequential Test	None
	Aging	None	40 years		3	Sequential Test	None
	Submergence						

Documentation References:

1. GAI Report No. 181i dated 10/1/73.
2. Dose Maps, Fig. 4-1.
3. Limatorque Test Report #B0003 dated 5/28/76.

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig. 4-4 (From GAI Report No. 181i dated 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EFV-11/32 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-0 Function: System Line-Up Accuracy: N/A Service: Turb. Driven EF Pump 3P Aux. Feed- water Disch. to Stm. Gen. Location: 3A/3B Intermediate Bldg. Elev. 95"-0" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	24 hours		See Note 1			See Note 4
	Temperature (°F)	See Note 3		1			See Note 4
	Pressure (PSIA)	19.15		1			See Note 4
	Relative Humidity(%)	100		1			See Note 4
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 4
	Aging	See Note 2	See Note 2				See Note 2,
	Submergence						

Documentation References:

1. CAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Figure 4-1.

Notes:

1. Operation/Engineering Evaluation.
2. Ref. Note 7, Sh. 2-1
3. Ref. Figure 4-4 (From CAI report No. 1811 Dated 10/1/73)
4. Ref. Note 1, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EFV-14/35 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-0 Function: System Line-Up Accuracy: N/A Service: Mtr. Driven EF Pump 3A Aux. Feedwater Disch. to Stm. Gen. Location: 3A/3B Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 4
	Temperature (°F)	See Note 3		1			See Note 4
	Pressure (PSIA)	19.15		1			See Note 4
	Relative Humidity (%)	100		1			See Note 4
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See Note 4
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 7, Sh. 2-1
3. Ref. Figure 4-4 (From GAI report No. 1811 dated 10/1/73)
4. Ref. Note 1, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EFV-11, 14, 32, & 33 Component: Motor Starter Manufacture: Allen-Bradley Model Number: Bulletin 205 Function: Operate Valve Motor Operator Accuracy: N/A Service: Valve Motor Operators EFV-11, 14, 32, & 33 Location: Intermediate Bldg. Elev. 95'-0"	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See note 3
	Aging	See Note 5	See Note 5				See Note 5
	Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No						
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1

Notes:

1. Operation/Engineering evaluation.
2. Ref. Fig. 4-4. (From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 1. Sh. 2-1
4. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EF-3,4 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 Switches G.E. UC212 lights Function: Local Control Accuracy: N/A Service: Valve Motor Operators EFV-11,14,32 & 33 Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		2			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Figure 4-1

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig 4-4 (From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 1, Sh. 2-1
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: EF Plant ID No.: EF-3,4 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Terminate Control Cables Accuracy: N/A Service: Valve Operators EFV-11,14,32, & 33 Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	8 days	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	See Note 2	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	2	See Note 4		None
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1
3. G. E., Co. letter of 1/10/78; Electrical Terminal Block Testing.

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 8, Sh. 2-1
4. Radiation dosage per Appendix C of Dor Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No.: FWV-14/15 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-1 Function: Isolation Accuracy: N/A Service: FW Pump 3A/3B Suction Iso. Valve Location: Turbine Bldg. Elev. 119'-0"	Operating Time	1 min.	See Fig. 4-10	2	3	Simultaneous Test	None
	Temperature (°F)	212	See Fig. 4-10	1	3	Simultaneous Test	None
	Pressure (PSIA)	16.7	See Fig. 4-10	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100		3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	N/A	2.0×10^7		3	Sequential Test	None
	Aging	None	40 years		3	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

Notes:

1. GAI Report no. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Limatorque test report #B0003 dated 5/28/76.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FWV-28 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-4T Function: System Line-Up Accuracy: N/A Service: FW Discharge Crosstie Valve Location: Turbine Bldg. Basement Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	See Fig. 4-13	1	3	Simultaneous Test	None
	Temperature (°F)	212	See Fig. 4-13	2	3	Simultaneous Test	None
	Pressure (PSIA)	16.7	See Fig. 4-13	2	3	Simultaneous Test	See Note 2
	Relative Humidity(%)	100	100	2	3	Simultaneous Test	None
	Chemical Exposure	N/A	N/A				None
	Radiation	N/A	N/A				None
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. GAI Report No. 1811 dated 10/1/73.
3. Limitorque Report No. F-C3271 dated Feb 1972

Notes:

1. Ref. Note 7, Sh. 2-1
2. Limitorque/GAI letter of 5/21/80 sent to MFG requesting qualification info.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No.: FWV-29/30 Component: Valve Motor Operator Manufacturer: Limatorque Model Number: SMB-4-T Function: System Line-Up Accuracy: N/A Service: Main FW Block Valve 3B/3A Location: Intermediate Bldg. Elev. 119'-0"	Operating Time	1 min.	See Fig. 4-10	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	See Fig. 4-10	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	See Fig. 4-10	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁷	2.0 x 10 ⁷	4	3	Sequential Test	None
	Aging	None	40 years		3	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Limatorque test report #B0003 dated 5/28/76.
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FWV-31/32 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-1 Function: System Line-Up Accuracy: N/A Service: Low Load FW Block Valve 3A/3B Location: Intermediate Bldg. Elev. 119'-0"	Operating Time	1 min.	See Fig. 4-10	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	See Fig. 4-10	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	See Fig. 4-10	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	2.0×10^7	4	3	Sequential Test	None
	Aging	None	40 years		3	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. GAI Report No. 1811 Dated 10/1/73.
2. Tech. Spec. Table 3.6-1.
3. Limitorque Test report #B0003 dated 5/28/76.
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4. (From GAI Report No. 1811 dated 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICA- TION METHOD	OUTSTANDING ITEMS
	Parameter	Specifi- cation	Qualifi- cation	Specifi- cation	Qualifi- cation		
System: FW Plant ID No.: FWV-33, 34 35, & 36 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-0 Function: System Line-Up Accuracy: N/A Service: Aux. FW Supply Iso. to Stm. Gen. 3A/3B Location: Intermediate Bldg. Elev. 119'-0"	Operating Time	1 min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A							
Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FWV-161/162 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00 Function: System Line-Up Accuracy: N/A Service: Feedwater Bypass To Stm. Gen. 3B/3A Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	See Note 3		1			See Note 2
	Pressure (PSI@) G	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Fig. 4-4
(From GAI Report No. 1811 dated 10/1/73)
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW FWV-39, 40 Component: Limit Switches Manufacture: NAMCO Model Number: SL-4 Function: Indications of Valve Openings and Closings Accuracy: Service: Indication Location: Intermediate Building EL = 119' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 Min.		2			See Note 3
	Temperature (°F)	See Note 1		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 3
	Aging	See Notes 2, 3	See Notes 2, 3				See Notes 2, 3
Submergence							

Documentation References:

1. GAI Report #1811, 10/1/73
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Section 4

Notes:

1. Ref. accident profile provided.
(From GAI Report #1811, 10/1/73)
2. Ref. Note #1, Sheet 2-1
3. NAMCO/GAI letter of 6/23/80 sent to manufacturer requesting qualification information.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FWV-33,34,35,36 Component: Local Motor Starter Manufacture: Allen Bradley Model Number: Bulletin 205 Function: Operate Valve Motor Operators Accuracy: N/A Service: Valve Motor Operators FWV-33,34,35,36 Location: Intermediate Bldg. Elev. 119'-0"	Operating Time	1 min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3,6-1
3. Dose Map 3, Fig. 4-2

Notes:

1. Ref. Fig. 4-4 (from GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FWV-161,162 Component: Local Motor Starter Manufacture: Allen Bradley Model Number: Bulletin 205 Function: Operate Valve Motor Operators Accuracy: N/A Service: Valve Motor Operators FWV-161,162 Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 3
	Aging	See Note 5	See Note 5				See Note 5
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 1, Sh. 2-1
4. Allen-Bradley letter of 6/23/80 sent to MFG requesting qualification info.
5. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No.: FW-5,6, Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 Sws. G.E. UC212 lights Function: Local Control Accuracy: N/A Service: Valve Motor Operators FWV-33,34, 35,36 Location: Intermediate Bldg. Elev. 119'-0" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 Min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-2

Notes:

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No. FW-11,12 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 switches G.E. UC212 lights Function: Local Control Accuracy: N/A. Service: Valve Motor Operators FWV-161,162 Location: Intermediate Bldg. Elev. 95'-0" Flood Level Elev: N/A Above Flood Level: ☐ Yes ☒ No	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		2			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 1, Sh. 2-1
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW ID No. FW. 3 & 4 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Valve operators FWV-33,34,35, & 36 Location: Intermediate Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.5	35.7	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2,
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. G.E. letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4 (From GAI report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW ID No. FW-11 & 20 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Control Cables Accuracy: N/A Service: Valve Operators FWV- 162 & 161 Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	24 hours	8 days	See note 1	2	Simultaneous Test	None
	Temperature (°F)	See Note 2	260	1	2	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	2	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴	1.0 x 10 ⁶	3	See Note 4		None
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. G.E. Letter of 10/10/78; Electrical Terminal Block Testing.
3. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
3. Ref. Note 8, Sh. 2-1
4. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW Plant ID No.: FW-22 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Terminate signal cables Accuracy: N/A Service: Main Steam Pressure Switch MS-92-PS1 Location: Intermediate Bldg. Elev. 119' Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	3	2	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	2	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	2	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴	1.0 x 10 ⁶	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. G.E. Co. letter of 10/10/73; Electrical Terminal Block Testing.
3. Tech. Spec. Table 3.6-1.
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
2. Ref. Note 8, Sh. 2-1.
3. Radiation dosage per Appendix C of DOH Guidelines.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: FW FW-38,39-PT Component: Pressure Transmitter Manufacture: L&N Model Number: 1970-41-2-0-0-1-00000-01200-0- Function: FW Pump Discharge Pressure Accuracy: N/A Service: Location: Turbine Bldg. El. = 99' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 hour		See Note 1			See Note 2
	Temperature (°F)	212		1			See Note 2
	Pressure (PSIA)	16.7		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation	N/A	N/A				None
	Aging	See Notes 3	See Notes 3				See Notes 3
	Submergence						

Documentation References

1. GAI Report No. 1811 dated 10/1/73.

Notes:

1. Operation Engineering evaluation.
2. Reference Note #1 Sheet 2-1.
3. Ref. Note 7, Sh. 2-1.

Qualification not required because components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in the Emergency Procedures, however their function is for indication only.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MSV-55 & 56 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-0-15 Function: Isolation Accuracy: N/A Service: M.S. Supply Iso. to E.F.P 3E Turbine Drive Location: Intermediate Bldg El. 119	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		2			See Note
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-2

Notes:

1. Operation/Engineering evaluation.
2. Rel. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
3. Ref. Note 1, Sh. 2-1.
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID NO. MSV-55 & 56 Component: Local Motor Starter Manufacture: Allen Bradley Model Number: Bulletin 205 Function: Energize Valve Motor Operator Accuracy: N/A Service: Motor Operator for MSV-55 & 56 Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		2			See Note 3
	Aging	See Note 5	See Note 5				See Note 5
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
3. Ref. Note 1, Sh. 2-1.
4. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
5. Ref. Note 1, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MSV-411, 412, 413, 414 Component: Solenoid Valve Manufacture: Rockwell Model Number: 612JGMMTY Function: Isolation Accuracy: N/A Service: Isolation of Stm. Gen FW and Steam lines Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		2,4			See Note 2
	Temperature (°F)	See Note 1	250	1	3		See Note 2
	Pressure (PSIA)	19.15	24.7	1	3		See Note 2
	Relative Humidity(%)	100	100	1	3		See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		5			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

Notes:

1. GAI Report No. 1811 dated 10/1/73.
2. FSAR Chapter 7, paragraph 7.1.1.7.
3. Vendor certification
4. Tech. Spec. Table 3.6-1.
5. Dose Maps, Fig. 4-2

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
2. Ref. note #1, Sheet 2-1.
3. Ref. note #7, Sheet 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MSV-130 Component: Solenoid Valve Manufacture: ASCo Model Number: 8320 A 24 Function: Isolation Accuracy: N/A Service: Isolation of Stem Gen. drain Valve Location: Intermediate Bldg El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		2, 3			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		4			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. FSAR Chapter 7 paragraph 7.1.1.7.
3. Tech. Spec. 3.6-1.
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
2. Ref. Note #1 Sheet 2-1.
3. Ref. Note #7, Sheet 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MSV-148 Component: Solenoid Valve Manufacture: ASCO Model Number: 8320 A 24 Function: Isolation Accuracy: N/A Service: Isolation of Stm. Gen. drain valve Location: Auxiliary Eldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2, Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		2			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1.
2. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note 1, Sh. 2-1.
2. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-5 & 6 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA 202 Switches; GE Type UC212 Lights Function: Valve Motor Operator Control Accuracy N/A Service: Local Control of MSV-55 & 56 Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		2			See Note 3
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Fig. 4-4 (From GAI Report No. 1811 dated 10/1/73).
3. Ref. Note 1, Sh. 2-1.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-7 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UE212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control of MSV-130 Location: Intermediate Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 2
	Temperature (°F)	See Note 1		2			See Note 2
	Pressure (PSIA)	19.15		2			See Note 2
	Relative Humidity(%)	100		2			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1.
2. GAI Report No. 1811 dated 10/1/73.
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4. (From GAI Report No. 1811 dated 10/1/73).
2. Ref. Note 1, Sh. 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-8 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UE212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control of MSV-148 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0x10 ⁴		2			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1.
2. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note 1, Sh. 2-1.
2. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-9 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control for MSV-411 & 412 Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

Notes:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-2.

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-10 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For MSV-413 & 414 Location: Intermediate Bldg El. 119	Operating Time	1 min.		2			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

Notes:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-2.

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-5 & 6 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Control Cables Accuracy: N/A Service: Control Wiring for MSV-55 & 56 Location: Intermediate Building El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	8 days	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	See Note 2	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 4		None
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

Notes:

1. GAI Report No. 1811 dated 10/1/73.
2. FSAR
3. GE letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-2.

1. Operation/Engineering Evaluation
2. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
3. Ref. Note 8, Sh. 2-1
4. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-7 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Control Cables Accuracy: N/A Service: Control Wiring for MSV-130 Location: Intermediate Bldg. El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. GE letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-8 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Cables Accuracy: N/A Service: Control Wiring for MSV-148 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	1	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient = <100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	2	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1
2. Dose Maps, Fig. 4-2.
3. GE letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-17 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Control Cables Accuracy: N/A Service: Control Wiring for MSV-411 & 412 Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

Notes:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. GE letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-2.

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOK Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS ID No. MS-18 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power & Control Cables Accuracy: N/A Service: Control Wiring for MSV-413 & 414 Location: Intermediate Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	See Note 1	260	1	3	Simultaneous Test	None
	Pressure (PSIA)	19.15	35.7	1	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	4	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Tech. Spec. Table 3.6-1
3. GE letter of 10/10/78; Electrical Terminal Block Testing.
4. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Fig. 4-4.
(From GAI Report No. 1811 dated 10/1/73)
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOP Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MS MS-92-PS1 Component: Press Switch Manufacture: Static-O-Ring Model Number: 9R2YY5NCXJ Function: Isolate Stm. Gen. Main Steam and Feedwater lines Accuracy: Service: Main Steam Press. Measurement Location: Intermediate Bldg. El. 119" Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	See Note 4	130	1	2		See Note 2
	Pressure (PSIA)	19.15	Atmosphere	1	2		See Note 2
	Relative Humidity(%)	100	100	1	2		See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Notes 3
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. GAI Report # 1811, dated 10/1/73.
2. Vendor certification.
3. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note #1 Sheet 2-1
3. Ref. Note 7, Sh. 2-1.
4. Ref. Fig. 4-4. (From GAI report #1811 10/1/73)

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-3 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution & Control Accuracy: N/A. Service: Engineered Safeguard Channel "A" Power Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 x 10 ⁵		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID. No. MTMC-4 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Engineered Safeguard Channel "A" Power Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: YES NO	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. Dose Maps, fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 4, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-5 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Engineered Safeguard Channel "B" Power Location: Auxiliary Bldg. Elev. 119	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	2.6 X 10 ⁴		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/CAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MIMC-6 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Engineered Safeguard Channel "B" Power Location: Auxiliary Bldg. Elev. 95	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	6.1×10^4		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFC requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUAT. , WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICA- TION METHOD	OUTSTANDING ITEMS
	Parameter	Specifi- cation	Qualifi- cation	Specifi- cation	Qualifi- cation		
System: MT ID No. MTMC-7 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Engineered Safeguard Channel "A" or "B" power Location: Auxiliary Bldg. Elev.119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.6 X 10 ⁵		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/GAI letter of 6/2 '80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-1 & 2 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Power and control for WDV-407 and MUV-38, 39 and 112 Location: Auxiliary Bldg. Elev. 143	Operating Time	30 days		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. Dose Maps, Fig. 4-3.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-12 & 13 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Power and control for EFV-7 & 8 Location: Turbine Bldg. Elev. 119	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	212		1			See Note 2
	Pressure (PSIA)	16.7		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	N/A	N/A				None
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.

Notes:

1. Operation/Equipment evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-14 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Power and control for CDV-44 Location: Turbine Building 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 Hour		See Note 1			See Note 2
	Temperature (°F)	212		1			See Note 2
	Pressure (PSIA)	16.7		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	N/A	N/A				None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References

1. GAI Report No. 1811 dated 10/1/73.

Qualification is not required due to the deletion of CDV-44 from the qualification requirements. Ref. Sh. 2-42.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTMC-15 Component: Motor Control Center Manufacture: Allen-Bradley Model Number: Bulletin 798 Function: Low Voltage Power Distribution and Control Accuracy: N/A Service: Power and control for CDV-43 Location: Turbine Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 Hour		See Note 1			See Note 2
	Temperature (°F)	212		1			See Note 2
	Pressure (PSIA)	16.7		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (r/s)	N/A	N/A				None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.

Qualification is not required due to the deletion of CDV-43 from the qualification requirements. Ref. Sh. 2-42.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Allen-Bradley/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. NTBD-2A Component: Electrical Penetration Manufacture: Assembly Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB Accuracy: wall. N/A Service: Low voltage AC power distribution Location: RB Wall, Qual. 1, Elev. 136 Flood Level Elev: 99.85 Above Flood Level: Yes No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100%	100%	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (Rads)	2.0 X 10 ⁷	1.5 x 10 ⁸	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax Test Report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for Type Qualification of Electrical Penetration Sub-Assemblies"
3. FSAR Fig. 14-72G
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, sh. 2-1,
5. Radiation dosage is per certificate of conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-2B Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB wall Accuracy: N/A Service: Low Voltage AC Power Distribution Location: RB wall, Qual. 4, Elev. 137 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	4			None
	Radiation (Rads)	2.0×10^7	1.5×10^8	5	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax test report TR-17, "Prototype test report of penetration assemblies."
2. Conax specification IPS-16, "Specification for type qualification of electrical penetration sub-assemblies"
3. FSAR Fig. 14-72G.
4. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
5. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-2C Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB wall Accuracy: N/A Service: Low Voltage AC Power Distribution Location: RB wall, Quad 3, Elev. 146 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity (%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (Rads)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax test report TR-17, "Prototype test report of penetration assemblies."
2. Conax specification IPS-16, "Specification for type qualification of electrical penetration sub-assemblies."
3. FSAR, Fig. 14-72C
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-8A Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for electrical continuity through RB wall Accuracy: N/A Service: Low voltage control circuits Location: RB wall, Qual. 1, Elev. 136 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron No OH	None	5	1		None
	Radiation (Rads)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Notes 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax test report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for type Qualification of Electrical Penetration Sub-Assemblies."
3. FSAR, Fig. 14-72G
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-3B Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB Wall Accuracy: N/A Service: Low Voltage Control Circuits Location: RB Wall, Quad 3, Elev. 146 Flood Level Elev: 99.85 Above Flood Level: YesX No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (RADS)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax Test Report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for Type Qualification of Electrical Penetration Sub-assemblies."
3. FSAR, Fig. 14-72C
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. Pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-8C & 8D Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB Wall Accuracy: N/A Service: Low Voltage Control Circuits Location: RB Wall, Quad 4, Elev. 137 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (RADS)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax test report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for Type Qualification of Electrical Penetration Sub-Assemblies."
3. FSAR, Fig. 14-17C
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD 9A & 9B Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB Wall Accuracy: N/A Service: Instrumentation Circuits Location: RB Wall, Quad 1, Elev. 133 Flood Level Elev: 99.85 Above Flood Level: Yes ☒ No ☐	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity (%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (RADS)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Conax test report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for type Qualification of Electrical Penetration Sub-Assemblies."
3. PSAR, Fig. 14-72G
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT ID No. MTBD-9C & 9D Component: Electrical Penetration Assembly Manufacture: Conax Model Number: Canister Type Function: Provide for Electrical Continuity through RB wall Accuracy: N/A Service: Instrumentation circuits Location: RB Wall, Quad 1, Elev. 129 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1, 2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1, 2	Sequential Test	None
	Relative Humidity(%)	100	100	3	1, 2	Sequential Test	None
	Chemical Spray	Boron Na OH	Boric Acid	5	1		None
	Radiation (RADS)	2.0×10^7	1.5×10^8	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
Submergence	Not Required	Not Required					None

Documentation References:

1. Conax test report TR-17, "Prototype Test Report of Penetration Assemblies."
2. Conax Specification IPS-16, "Specification for Type Qualification of Electrical Penetration Sub-Assemblies."
3. FSAR, Fig. 14-72C
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation dosage is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MP ID No. MPBD - 11A & 11B Component: Electrical Penetration Assembly Manufacturer: CONAX Model Number: Canister Function: Provide for Electrical Continuity Through RB Wall Accuracy: N/A Service: Instrumentation Circuits (coax & triax) Location: RB Wall, Quad 1 Elevation 140 Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	6 Months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	325	3	1,2	Sequential Test	None
	Pressure (PSIG)	See Fig. 4-5	82.5	3	1,2	Sequential Test	None
	Relative Humidity(%)	100	100	8	1,2	Sequential Test	None
	Chemical Spray	Boron NaOH	Boric Acid	5	1		None
	Radiation (RADS)	2.0 x 10 ⁷	1.5x10 ⁸	4	See Note 5		None
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. CONAX Test Report TR-17, "Prototype Test Report of Penetration Assemblies."
2. CONAX Specification IPS-16, "Specification for type Qualification of Electrical Penetration Sub-Assemblies."
3. PSAR, Fig. 14-72G
4. Dose Maps, Fig. 4-2.
5. Tech. Spec. Pg. 3/4 5-7; 3/4 6-12

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sh. 2-1.
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.
5. Radiation is per Certificate of Conformance; test documentation is being pursued.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Power and Control Cable Manufacture: Kerite Model Number: FR & HT Function: Electrical Power Distribution and Control Accuracy: N/A Service: Power and Control of System Electric Equipment Location: Plant Wide	Operating Time	6 Months	7 Days	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	325	2	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	82	2	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	2	1	Simultaneous Test	None
	Chemical Spray	Baron Na OH	Boric Acid Solution	3	1	Simultaneous Test	None
	Radiation (RADS)	1.2×10^8	1.2×10^8	4	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Submergence	Not Required	Not Required				None

Documentation References:

1. Kerite Co. "Report on the Effects of Gamma Radiation and Autoclaving on Kerite Power and Control Cables" dated 4/30/70.
2. FSAR Fig. 14-72G.
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
4. FSAR Table 8-2.

Notes:

1. Operation/Engineering evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Control and Thermocouple Extension Manufacture: Cable Rockbestos Model Number: Silicone Rubber Function: Instrumentation and Control Accuracy: N/A Service: System Instrumentation and Control Equipment Location: Plant Wide	Operating Time	6 months	30 Days	See Note 1	1	Simultaneous Test	None See Note 2
	Temperature (°F)	See Fig. 4-5	See Fig. 4-16	2	1	Simultaneous Test	None
	Pressure (PSIG)	See Fig. 4-5	See Fig. 4-16	2	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	2	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	3	1	Simultaneous Test	None
	Radiation (RADS)	1.2×10^8	2×10^8	4	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
Flood Level Elev: 99.85 Above Flood Level: Yes ☒ No ☐	Submergence	Not Required	Not Required				None

Documentation References:

1. Rockbestos report "Qualification of Firewall SR Class 1E Electric Cables" dated 3/2/78.
2. FSAR, Fig. 14-72G.
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
4. FSAR Table 8-2.

Notes:

1. Operation/Engineering evaluation.
2. Qualification time is adequate relative to to duration of the accident environmental conditions.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Instrument Cable & Thermocouple Extension Cable Manufacture: Continental Wire & Cable Company Model Number: Silicone Rubber Ins. #CC-2193 Function: Instrumentation and Control Accuracy: N/A Service: System Instrumentation and Control Equipment Location: Plant Wide	Operating Time	6 months	16 Days	See Note 2	1	Simultaneous Test	None See Note 3
	Temperature (°F)	See Fig. 4-5	See Fig. 4-17	2	1	Simultaneous Test	None
	Pressure (PSIG)	See Fig. 4-5	See Fig. 4-17	2	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	2	1	Simultaneous Test	None
	Chemical Spray	See Note 1	Boric Acid Solution		1	Simultaneous Test	None
	Radiation (RADS)	1×10^8	1.2×10^8	3	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Submergence	Not Required	Not Required				None

Documentation References:

1. Anaconda Report No. 79118 dated April 1979.
2. FSAR Fig. 14-72G
3. Dose Maps, Section 4.

Notes:

1. All circuits either in conduit or totally enclosed cable tray inside containment.
2. Operation/Engineering evaluation.
3. Qualification time is adequate relative to the duration of the accident environmental conditions.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution	Operating Time	1 min.	22 Hrs.	See Note 3	1	Sequential Test	None
	Temperature (°F)	See Note 1	340	2	1	Sequential Test	None
Component: NI Detector Cable	Pressure (PSIG)	See Note 1	100	2	1	Sequential Test	None
	Relative Humidity (%)	100	100	2	1	Sequential Test	None
Manufacture: Continental Wire & Cable Co.	Chemical Spray	N/A	N/A				None See Note 2
	Radiation (RADS)	1 x 10 ⁸	1 x 10 ⁸	3	1	Sequential Test	None
Model Number: Tri - axial polyethylene Ins.	Aging	See Note 4,5	See Note 4,5				See Note 4,5
	Submergence	Not Required	Not Required				None See Note 2
Function: Instrumentation							
Accuracy: N/A							
Service: Neutron Monitoring							
Location: Inside and outside Containment							
Flood Level Elev:							
Above Flood Level:	Yes ☒ No ☐						

Documentation References:

- ~~FIRL Report F-C2935 "Test of Electrical Cables Under Simulated Post-Accident Reactor Containment Service" dated Oct. 1970 and Addendum dated Nov. 1970.~~
- ~~FSAR, Fig. 14-720.~~
- ~~Dose Maps, Section 4.~~

Qualification not required per Section A.12 of Supplement No. 2 to Bulletin 79-01B.

Notes:

- ~~Ref. accident profiles attached.~~
- ~~Detector & cable located below reactor cavity seal plate in a dry well - not exposed to spray or flooding.~~
- ~~Operation engineering evaluation~~
- ~~Reference Note 1, sheet 2-1~~
- ~~Anacanda-Continental/CAL letter of 6-23-30 sent to MWC requesting qualification info.~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Cable Connectors Manufacture: Amphenol Model Number: 69-1120-03, 69-OR28-215(137) 69-1105-03 Function: Instrumentation Cable Termination Accuracy: N/A Service: Electrical Penetration Assemblies for NI Detector Cables Location: MTBD-11A & 11B Flood Level Elev: 99.85 Above Flood Level: Yes ☒ No ☐	Operating Time	6 months		See Note 3			See Note 5
	Temperature (°F)	See Note 2		1			See Note 5
	Pressure (PSI) G	See Note 2		1			See Note 5
	Relative Humidity (%)	100		1			See Note 5
	Chemical Spray	N/A	N/A	2			None See Note 1
	Radiation (Rads)	2×10^7		3			See Note 5
	Aging	See Note 4,5	See Note 4,5				See Note 4,5
	Submergence	Not Required	Not Required				None

Documentation References:

- ~~1. FSAR, Fig. 14-720~~
- ~~2. Tech. Spec. pg 3/4 5-3 6-2~~
- ~~3. Dose Maps, Section 4~~

Qualification not required per Section A.12 of Supplement No. 2 to Bulletin 79-01B.

Notes:

- ~~1. Connectors are installed inside electrical penetration enclosures.~~
- ~~2. Ref. accident profiles attached.~~
- ~~3. Operation/Engineering evaluation.~~
- ~~4. Ref. Note 1, sheet 2-1~~
- ~~5. Conax/GAI letter of 6/23/88 sent to MFC requesting qualification info.~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Terminal Blocks Manufacture: T&B Model Number: FI Function: Cable Termination Accuracy: N/A Service: Low Voltage Power Electrical Penetration Assemblies Location: MTBD-2A, 2B & 2C	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSIA) G	See Fig. 4-5		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	2×10^7		3			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Flood Level Elev: 99.85 Above Flood Level: Yes ^X No	Submergence	Not Required	Not Required			None

Documentation References:

1. FSAR, Fig. 14-72G
2. Tech. Spec. pg 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, sheet 2-1
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electrical Distribution Component: Terminal Blocks Manufacture: Kulka Model Number: 7TB & 5TB Function: Cable Termination Accuracy: N/A Service: Used on Instr. & Control Penetration Assemblies Location: MTBD-8A,B,C&D MTBD-9A,B,C&D Flood Level Elev: 99.85 Above Flood Level: Yes X No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5	300	2	1	Sequential Testing	None
	Pressure (PSIA) G	See Fig. 4-5	75	2	1	Sequential Testing	None
	Relative Humidity (%)	100	100	2	1	Sequential Testing	None
	Chemical Spray	Boron NaOH	Boric Acid Solution	3	1	Sequential Testing	None
	Radiation (Rads)	2 x 10 ⁷		4			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. FIRC Report F-C4927, "Steam and Chemical Spray Exposure Test of Electrical Terminal Blocks" dated February, 1978.
2. FSAR, Fig. 14-72G
3. Tech. Spec. Pa. 3/4 5-7; 3/4 6-12
4. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, Sheet 2-1
3. Conax/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Electric Distribution Component: Terminal Lugs Manufacture: Burndy Model Number: Crimp Type Function: Electrical Cable Termination Accuracy: N/A Service: Power, control & Instrument Cables Location: Plant Wide	Operating Time	6 Months		See Note 3			See Note 1
	Temperature (°F)	See Note 2		2			See Note 1
	Pressure (PSIG)	See Note 2		2			See Note 1
	Relative Humidity(%)	100%		2			See Note 1
	Chemical Spray	Boron NaOH		1			See Note 1
	Radiation (RADS)	1×10^8		3			See Note 1
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: Above Flood Level: ^{Yes} No	Submergence						

Documentation References:

1. Tech. Spec. Pg. 3/4 5-7; 3/4 6-12
2. FSAR, Fig. 14-72G
3. Dose Mans, Section 4.

Notes:

1. Ref. Note 1, Sh. 2-1.
2. Reference Figures 4-4 & 4-5.
3. Operation/Engineering evaluation.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Termination Procedure Manufacture: Kerite Model Number: T-INS-HT Function: Cable Termination and Insulation Accuracy: N/A Service: 480V cables Location: Outside Containment	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-4		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁸		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. Kerite/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION RESHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Termination Procedure Manufacture: Kerite Model Number: T-5NS-HT Function: Cable Termination and Insulation Accuracy: N/A Service: 4.16KV cable Location: Outside containment	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-4		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73
2. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1.
3. Kerite/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Termination Procedure Manufacture: Kerite Model Number: 39-69 Function: Cable Termination and Insulation Accuracy: N/A Service: 480V cables Location: Containment	Operating Time	6 months	7 Days	See Note 1	4	Simultaneous Test	None See Note 2
	Temperature (°F)	See Fig. 4-5	325	1	4	Simultaneous Test	None
	Pressure (PSIA)	See fig. 4-5	82	1	4	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Boron NaOH	Boric Acid Solution	2	4	Simultaneous Test	None
	Radiation (Rads)	2.0×10^7	1.2×10^8	3	4	Sequential Test	None
	Aging	None	40 Years		4	Sequential Test	None
Flood Level Elev: 99.85 Above Flood Level: YesX No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig 14-72G.
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
3. Dose Maps, Section 4.
4. Kerite Co. "Report on the Effects of Gamma Radiation and Autoclaving on Kerite Power and Control Cables" dated 4/30/70.

Notes:

1. Operation/Engineering evaluation
2. Qualification time is adequate relative to the duration of the accident environmental conditions.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Filler Tape Manufacturer: Bishop Model Number: Biseal 3 Function: Cable Termination and Insulation. Accuracy: N/A Service: Termination Procedures T-INS-HT, T-5NS-HT & Location: 33-74 (Special) Outside Containment (See Note 2)	Operating Time	6 months		See Note 1			See Note 3
	Temperature (°F)	See Fig. 4-4		1			See Note 3
	Pressure (PSIA)	19.15		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		2			See Note 3
	Aging	See Note 5	See Note 5				See Note 5
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Termination Procedure 33-74 (special) pertains only to the Reactor Coolant pump motors; and since these motors are cold shutdown equipment, qualification will be in accordance with outside containment environmental parameters.
3. Ref. Note 1, Sh. 2-1.
4. Bishop/GAI letter of 6/23/80 sent to MFC requesting qualification info.
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Insulating Tape Manufacture: Kerite Model Number: Friction Tape Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedures T-INS-HT, T-5NS-HT & Location: 33-74 (Special) Outside Containment (See Note 2, Sh. 2-133) Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-4		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Section 4.

Qualification is not required. The only function of the friction tape is to hold the first layer of insulating tape in place until the second layer of insulating tape is applied.

Notes:

1. Operation/Engineering evaluation.
2. Ref. Note 1, sh. 2-1.
3. Kerite/CAI letter of 6/23/80 sent to MNG requesting qualification info.
4. Ref. Note 7, sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Insulating Tape Manufacturer: 3M Model Number: Scotch 130C Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedure 33-74 (Special) Location: Containment	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSIA)	See Fig. 4-5		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	7.7×10^8		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Flood Level Elev: 99.85 Above Flood Level: Yes X No	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72G
2. Tech. Spec. pg. 3/4 5-7; 3.4 6-12
3. Dose Maps, Section 4

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Insulating and Filler Tape Manufacture: Bishop Model Number: W962 Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedure 33-74 (Special Location: Containment	Operating Time	24 Hours		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSIA)	See Fig. 4-5		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	7.7 X 10 ⁸		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: 99.85 Above Flood Level: Yes X No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72G
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Section 4

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Glass Electrical Tape Manufacture: 3M Model Number: Scotch 27 Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedure 39-69 Location: Containment	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSIA)	See Fig. 4-5		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			None
	Radiation (Rads)	2.0×10^7		3			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: 99.85 Above Flood Level: YesX No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72G
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1.
3. 3M/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION (RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Vinyl Electrical Tape Manufacture: 3M Model Number: Scotch 33+ Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedures T-INS-HT & T-5NS-HT Location: Outside Containment	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-4		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		2			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. GAI Report No. 1811 dated 10/1/73.
2. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1.
3. 3M/GAI letter of 6/23/80 sent to MFG requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Silicone Rubber Tape Manufacture: 3M Model Number: Scotch 70 Function: Cable Termination and Insulation Accuracy: N/A Service: Termination Procedures 39-69 & 33-74 (special) Location: Containment	Operating Time	6 months		See Note 1			See Note 3
	Temperature (°F)	See Fig. 4-5		1			See Note 3
	Pressure (PSIA)	See Fig. 4-5		1			See Note 3
	Relative Humidity (%)	100		1			See Note 3
	Chemical Spray	Boron NaOH		2			See Note 3
	Radiation (Rads)	2.0 x 10 ⁷ See Note 2		3			See Note 3
	Aging	See Note 5	See Note 5				See Note 5
Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72G
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation.
2. Radiation dose applies only to termination Procedure 39-69. 33-74 (special) not accounted for since it pertains only to cold shutdown equipment.
3. Ref. Note 1, Sh. 2-1.
4. 3M/GAI letter of 6/23/80 sent to MFG requesting qualification info.
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITLMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Splice Terminal Manufacture: Burndy Model Number: Insulink Function: Cable Termination and Insulation Accuracy: N/A Service: Instrument cables Location: Plant Wide	Operating Time	6 months		See Note 1			See Note 3
	Temperature (°F)	See Note 2		1			See Note 3
	Pressure (PSIA)	See Note 2		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	Boron NaOH		2			See Note 3
	Radiation (Rads)	1.0×10^8		3			See Note 3
	Aging	See Note 5	See Note 5				See Note 5
Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Fig. 14-72g
2. Tech. spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Section 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Figures 4-4 & 4-5.
3. Ref. Note 1, Sh. 2-1
4. Burndy/GAI letter of 6/23/80 sent to MFG requesting qualification info.
5. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electric Distribution Component: Heat Shrink Tubing Manufacture: AMP Special Industries Model Number: Function: Cable Termination and Insulation Accuracy: N/A Service: Amphenol Cable Connectors Location: Electrical Penetration Assemblies Flood Level Elev: Above Flood Level: ☒ Yes ☐ No	Operating Time	6 months		See Note 1			See Note
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSIA)	See Fig. 4-5		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	2.0 x 10 ⁷		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. FAR Fig. 14-72G
2. Tech. Spec. pg. 3/4 5-1, 3/4 6-12
3. Dose Maps, Fig. 4-2.

Above component used only with NI detector cable terminations, and consequently does not require qualification per section A.12 of Supplement No. 2 to Bulletin 79-01B.

Notes:

1. ~~Operative Engineering evaluation~~
2. ~~Ref. Note 1, Sh. 2-1.~~
3. ~~Ref. Note 7, Sh. 2-1.~~

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MT Electrical Distribution Component: Heat Shrink Tubing Manufacture: Raychem Model Number: Function: Cable Termination and Insulation Accuracy: N/A Service: Amphenol Cable connectors Location: Electrical Penetration Assemblies Flood Level Elev: Above Flood Level: ☒ Yes ☐ No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	See Fig. 4-5		1			See Note 2
	Pressure (PSI)	See Fig. 4-5		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	2.0 x 10 ⁷		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References

1. ESAR Fig 14-72G
2. Tech. Spec. pg. 3/4 5-X; 3/4 6-12
3. Data Maps, Fig. 4-2

Above component used only with NI detector cable terminations, and consequently does not require qualification per section A.12 of supplement No. 2 to Bulletin 79-01B.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUP-1A, 1B, 1C Component: PUMP MOTOR Manufacture: WESTINGHOUSE Model Number: 688.5"S"- "CSP" Function: Pump Drive Accuracy: N/A Service: Makeup and Purification Pump 3A, 3B, 3C Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Operating Time	5 days		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 x 10 ⁶		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. B&W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-18 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00 Function: Isolation Accuracy: N/A Service: Seal Injection Isolation Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 Hours	See Fig. 4-15	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Note 4	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-15	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	Boric Acid Solution		2	Simultaneous Test	None
	Radiation (Rads)	1.8 x 10 ⁵		1			See Note 2
	Aging	See Note 5	See Note 5				See Note 5
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Philadelphia Gear Test Report No. 600198 dated Jan. 2, 1969 and Addendum 1 dated April 29, 1969.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1.
3. B&W/GAI letter of 6/23/80 sent to NSSS Supplier requesting qualification info.
4. Temperature ranged from 329°F to 256°F for the first 24 hours of the test.
5. Ref. Note 6, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-23 & 24 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-00-25 Function: HPI Accuracy: N/A Service: H.P. Injection Control Valve to Reactor Inlet Location: Lines loop A Auxiliary Bldg. Elev. 95	Operating Time	24 hrs.	See Fig. 4-10	See Note 1	1	Simultaneous test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2, Sh. 2-1	1	Simultaneous test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2, Sh. 2-1	1	Simultaneous test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2, Sh. 2-1	1	Simultaneous test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5×10^5	2.0×10^7	2	1	Sequential test	None
	Aging	None	40 years		1	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Limitorque test Report #BG003 dated 5/28/76.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-25 & 26 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00-25 Function: HPI Accuracy: N/A Service: H.P. Injection Control Valve to Reactor Inlet Location: Lines Loop B Auxiliary Bldg. Elev. 95	Operating Time	24 hours	See Fig. 4-10	See Note 1	1	Simultaneous test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	1	Simultaneous test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	1	Simultaneous test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5x 10 ⁵	2.0x10 ⁷	2	1	Sequential test	None
	Aging	None	40 years		1	Sequential test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Limitorque Test Report #B0003 dated 5/28/76
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-27 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00-10 Function: Isolation Accuracy: N/A Service: Makeup Isolation Valve to Reactor Inlet Lines Loop A Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Operating Time	24 hours	See Fig. 4-10	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.0×10^5	2.0×10^7	1	2	Sequential Test	None
	Aging	None	40 years		2	Sequential Test	None
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Limitorque Test Report #B0003 dated 5/28/76

Notes:

1. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-38 and 39 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000 Function: Isolation Accuracy: N/A Service: Letdown Isolation Location: Containment Elev. 95	Operating Time	1 min.	See Fig. 4-15	1	5	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Note 3	2	5	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-15	2	5	Simultaneous Test	None
	Relative Humidity (%)	100	100	2	5	Simultaneous Test	None
	Chemical Spray	Baron NaOH	Boric Acid Solution	3	5	Simultaneous Test	None
	Radiation (Rads)	2.5 X 10 ⁷		4			See Note 1
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: 99.85 Above Flood Level: Yes X No	Submergence	Not Required	Not Required				None

Documentation References:

1. Tech. Spec. Table 3.6-1
2. PSAR Fig. 14-72G
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
4. Dose Maps, Fig. 4-1.
5. Philadelphia Gear Test Report No. 600198 dated Jan. 2, 1969 and Addendum 1 dated April 29, 1969.

Notes:

1. Ref. Note 1, Sh. 2-1
2. B & W/GAI letter of 6/23/80 sent to NSSS Supplier requesting qualification info.
3. Temperature ranged from 329°F to 256°F for the first 24 hours of the test.
4. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-40 and 41 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-00-5 Function: Containment Isolation Accuracy: N/A Service: Isolation Valve From Letdown Cooler Location: Containment Elev. 95	Operating Time	1 min.	See Fig. 4-15	3	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Note 3	2	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-15	2	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	2	1	Simultaneous Test	None
	Chemical Spray	Baron NaOH	Boric Acid Solution	4	1	Simultaneous Test	None
	Radiation (Rads)	2.5 X 10 ⁷		5			See Note 1
	Aging	See Note 4	See Note 4				See Note 4
Flood Level Elev: 99.85 Above Flood Level: Yes X No	Submergence	Not Required	Not Required				None

Documentation References:

1. Philadelphia Gear Test Report #600198 dated Jan. 2 1969 and Addendum No. 1 dated April 29, 1969
2. FSAR Fig. 14-72G
3. Tech. Spec. Table 3.6-1
4. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
5. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 1, Sh. 2-1
2. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
3. Temperature ranged from 329°F to 256°F for the first 24 hours of the test.
4. Ref Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-53 and 257 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-0015 Function: System Line-Up Accuracy: N/A Service: Makeup Pump Recirc. Valve 3A and 3B Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Operating Time	24 hours	See Fig. 4-15	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	Ambient	See Note 4	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-15	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	1	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	8.0 X 10 ⁴		2			See Note 2
	Aging	See Note 5	See Note 5				See Note 5
Submergence							

Documentation References:

1. Philadelphia Gear Test Report #600198 dated Jan. 2, 1969, and Addendum No. 1 dated April 29, 1969.
2. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Temperature ranged from 329°F to 256°F for the first 24 hours of the test.
5. Ref. Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-58 Component: Valve Motor Operator Manufacturer: Limatorque Model Number: SMB-000-10 Function: System Line-Up Accuracy: N/A Service: H.P. Pump Suction from Borated Water Storage Location: Tank Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	See Fig. 4-13	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-13	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient $\leq$ < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.5 X 10 ⁴		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Limatorque Report No. F-C3271 dated Feb. 1972.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Ref. Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-73 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-10 Function: System Line-Up Accuracy: N/A Service: Borated Water Storage Tank to Makeup Pump Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	See Fig. 4-13	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-13	See Note Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-13	See Note Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	4.5 X 10 ⁴		1			See Note 2
	Aging	See Note 4	See Note 4				See Note 4
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Limitorque Report No. F-C3271 dated Feb. 1972.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 1, Sh. 2-1
3. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
4. Ref. Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-112 Component: Valve Motor Operator Manufacture: Limatorque Model Number: SMB-000 Function: System Line-Up Accuracy: N/A Service: Feed and Bleed Location: Aux. Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	See Fig. 4-1C	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation	1.0 X 10 ⁴	2.0 x 10 ⁷	1	2	Sequential Test	None
	Aging	See Note 2,3	40 years		2	Sequential Test	None
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Limatorque Test Report #B0003 dated 5/28/76.

Notes:

1. Operation/Engineer evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-258 & 259 MUV-260 & 261 Component: Valve Motor Operator Manufacturer: Limatorque Model Number: SMB-000 Function: Isolation Accuracy: N/A Service: Controlled Bleedoff Iso. from RC Pump Location: Containment Elev. 119 Flood Level Elev: 99.85 Above Flood Level: Yes X No	Operating Time	1 min.	See Fig. 4-15	3	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-	See Note 3	2	1	Simultaneous Test	None
	Pressure (PSIG)	See Fig. 4-5	See Fig. 4-15	2	1	Simultaneous Test	None
	Relative Humidity (%)	100	100	2	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	4	1	Simultaneous Test	None
	Radiation (Rads)	1.0 X 10 ⁴		5			See Note 1
	Aging	See Note 4	See Note 4				See Note 4
	Submergence	Not Required	Not Required				None

Documentation References:

1. Philadelphia Gear Test Report #600198 dated Jan. 2, 1969 and Addendum No. dated April 29, 1969.
2. FSAR Fig. 14-72G
3. Tech. Spec. Table 3.6-1
4. Tech. Spec. pg. 3/4 5-7; 3/4 6-
5. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note 1, Sh. 2-1
2. B & W/GAI letter of 6/23/80 sent to NSSS supplier requesting qualification info.
3. Temperature ranges from 329°F to 256°F for the first 24 hours of the test.
4. Ref. Note 6, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU MUV-49-SV Component: Solenoid Valve Manufacture: ASCO Model Number: 831657 Function: Letdown ISO Valve Accuracy: N/A Service: Letdown cooler Iso. Valve Location: Aux. Bldg. EL = 95'	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. FSAR Ch. 7 Par. 7.1.1.7
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION (KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-64 Component: Solenoid Valve Manufacture: ASCO. Model Number: HT 8316C15 Function: Isolation Accuracy: N/A Service: Isolation of MU Tank from Pumps Location: Aux. Bldg. EL. 95	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity (%)	Ambient ± < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	8.0×10^4		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note #1 Sheet 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-253-SV1/SV2 Component: Solenoid Valve Manufacture: ASCO. Model Number: HT831655 for SV1 8320A38 for SV2 Function: Isolation Accuracy: N/A Service: Isolation of Bleed off Location: Aux. Bldg EL. 119	Operating Time	1 min.		2,3			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 X 10 ⁶		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. FSAR Chapter 7 paragraph 7.1.1.7.
3. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU MU-25-SV Component: Solenoid Valve Manufacturer: Model Number: 8320 A 92 Function: Pressurizer Level Control Accuracy: N/A Service: Control air to valve MUV-31 Location: Aux. Bldg. EL=95'	Operating Time	24 hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient $\leq$ < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.7×10^6		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation.

SYSTEM COMPONENT EVALUATION KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MUV-23/24 ID No. MUV-25/26 Component: Motor Starter Manufacture: Gould I-T-E Model Number: Series 5600 Function: Energize Valve Motor Operator Accuracy: N/A Service: MUV-23,24,25 and 26 Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	6 hours	See Note 1			None See Note 2
	Temperature (°F)	Ambient	122	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	14.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.0×10^5	2×10^6	1	2	Sequential Test	None
	Aging	None	40 years See Note 3		2	Sequential Test & Analysis	None
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Gould Qualification Summary Report for Class IE Equipment CC-323.74-49 Rev. 1 dated 1/17/80

Notes:

1. Operation/Engineering Evaluation.
2. The 6 hour qualification is based on 100% humidity. Starter is considered qualified for the specified ambient conditions.
3. Includes maintenance and replacement schedule.

SYSTEM COMPONENT EVALUATION (SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICA- TION METHOD	OUTSTANDING ITEMS
	Parameter	Specifi- cation	Qualifi- cation	Specifi- cation	Qualifi- cation		
System: MU ID No. MU-4 MU-5 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UE202 Switches GE Type UC212 Lights Function: Valve Control Accuracy: N/A Service: Local Control for Solenoid Valve MUV-64 Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	8.0 X 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh.2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-7 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Valve Control Accuracy: N/A Service: Local Control for Solenoid Valve MUV-49 Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 Min.					See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-16 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Valve Control Accuracy: N/A Service: Local Control for Solenoid Valve MUV-253 Location: Aux. Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.8 X 10 ⁵		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-4 MU-5 Component: TERMINAL BOX Manufacture: Field Fabricated Model Number: States Type NT Terminal Function: Blocks Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring of MUV-64 Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	8 days	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	8.0×10^4	1.0×10^6	1	See Note 3		None
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. GE Letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-11 Component: TERMINAL BOX Manufacture: Field Fabricated Model Number: States Type NT Terminal Function: Blocks Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring of MUV-49 Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴	1.0 x 10 ⁶	3	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1
2. GE letter of 10/10/78; Electrical Terminal Block Testing.
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-21 Component: TERMINAL BOX Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for MUV-253 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 Hours	8 days	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.8 X 10 ⁵	1.0 x 10 ⁶	1	See Note 3		None
	Aging	See Note 2,	See Note 2,				See Note 2,
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.
2. GE letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 8, Sh 2-1
3. Radiation dosage per Appendix C of IOR Guidelines.

SYSTEM COMPONENT EVALUATION (KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU ID No. MU-22 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Termination of Power and Control Cables Accuracy: N/A Service: Control Wiring for MU-25-SV Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 Hours	8 days	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.6 X 10 ⁶	1.0 x 10 ⁶	1	See Note 3		See Note 2
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.
2. GE letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 8, Sh. 2-1
3. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION 1 SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU MU-14-LT 1,2 Component: Level Transmitter Manufacture: Bailey Model Number: BY8230-A Function: MU Tank Level Monitor Accuracy: Service: Make-up Tank Level Location: Aux.Bldg. EL=119' Flood Level Elev: N/A Above Flood Level: ^{Yes} _{No}	Operating Time	24 hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU MU-23-dPT-1, 2, 3, 4 Component: Pressure Transmitter Manufacture: BMC Co. Model Number: BY3140-A Function: HPI Flow Accuracy: ± 12% Service: HP Inj Flow Loop B-1, A-2, B-2, A-1 Location: Aux. Bldg. EL=95' Flood Level Elev: N/A Above Flood Level: ^{Yes} No	Operating Time	24 hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.9 X 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation

SYSTEM COMPONENT EVALUATION () SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: MU MU-24-dPT Component: Differential Pressure Transmitter Manufacture: BMcO. Model Number: BY3230A Function: MU Flow Monitor Accuracy: Service: To Transmit to MU-24-FT NNI CAB #2 Location: Aux. Bldg. EL=98'4"	Operating Time	24 hours		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	6.8 X 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1
4. Operation/Engineering Evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC RCV-10-SV Component: Solenoid Valve Manufacture: GE Model Number: CR-9503-213CAF-254 Function: PORV Valve Accuracy: N/A Service: Pressurizer RC-1 Tank Power Actuated relief valve to R.C. Drain Location: Tank Containment EL = 160' Flood Level Elev: 99.85 Above Flood Level: Yes X No	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	Fig. 4-5		1			See Note 2
	Pressure (PSIA)	Fig. 4-5		1			See Note 2
	Relative Humidity(%)	100		1			See Note 2
	Chemical Spray	Boron NaOH		2			See Note 2
	Radiation (Rads)	7.9×10^8		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence	Not Required	Not Required					None

Documentation References:

1. FSAR Fig 14-72 G
2. Tech. Spec pg 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1.
3. Ref. Note 6, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC ID No. RCV-11 Component: Valve Motor Operator Manufacture: Limitorque Model Number: Function: Isolation Accuracy: N/A Service: PORV Block Valve Location: Containment Elev. 160' Flood Level Elev: 99.85 Above Flood Level: Yes X No	Operating Time	24 hours	See Fig. 4-11	See Note 1	4	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	1	4	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-11	1	4	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Boron NaOH	Boric Acid Solution	2	4	Simultaneous Test	None
	Radiation (Rads)	7.9×10^8	2.04×10^8	3	4	Sequential Test	See Note 2
	Aging	None	40 years		4	Sequential Test	See Note 3
Submergence Not required Not Required							None

Documentation References:

1. FSAR Fig. 14-72G.
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-2.
4. Philadelphia Gear Test Report #600456 dated 9/76.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 1, Sh. 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC ID No. RC-8 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Termination of Power and Control Cables Accuracy: N/A Service: Control Wiring for RCV-11 Location: Aux. Bldg. Elev. 143' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	24 hours	8 day	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁴		1			See Note 2
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Dose Maps; Fig. 4-3.
2. GE letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Operation/Engineering Evaluation
2. Ref. Note 8 , Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
RC System: RC-3A-PT2 RC-3A-PT1 RC-3B-PT1 RC-3B-PT2 Component: Press Transmitter Manufacture: Rosemount Model Number: 1152 GP Function: HI/Lo RC Press Trip Accuracy: $\pm 10\%$ Service: RC Press Measurement Location: Containment 100' Flood Level Elev: 99.85' Above Flood Level: No ^{Yes}	Operating Time	1 min.	24 Hrs.	7		Simultaneous Test	None
	Temperature ($^{\circ}\text{F}$)	281	286	1, 6	3	Simultaneous Test	None
	Pressure (PSIG)	55	58	1, 6	3	Simultaneous Test	None
	Relative Humidity(%)	100	100	1, 6	3	Simultaneous Test	None
	Chemical Spray	See Note 2	See Fig. 4-6	4, 5		Simultaneous Test	None
	Radiation (Rads)	8.7×10^4	5×10^6	8	3	Sequential Test	None
	Aging	See Note 1	See Note 1				See Note 1
Submergence	Not Required	Not Required	2				None

Documentation References:

1. FSAR Chapter 5, paragraph 5.2.1
2. FSAR Chapter 5, Section 6.2.2
3. B&W Report 58-0261-00 (Feb. 1977) and 58-0220-00 (Sept. 1975)
4. Gilbert Assoc., Inc. "BWST Drawdown Transient Analysis Report"
5. FSAR, Tech. Spec. page 3/4 6-12
6. FSAR Chapter 7, paragraph 7.1.1.7
7. Tech. Spec. Table 3.6-1
8. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 7, Sh. 2-1.
2. Borated water and NaOH .

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC RC-3A-PT3 RC-3A-PT4, RC-3B PT3 Component: Press Transmitter Manufacture: Foxboro Model Number: ELLGHINM2 Function: Low RC Press Trip Accuracy: ± 5% Service: RC Press Measurement Location: Containment 100'	Operating Time	1 Hour	24 Hours	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	281	285	1, 6, 7	3, 6	Simultaneous Test	None
	Pressure (PSI)	55	58	1, 6, 7	3, 6	Simultaneous Test	None
	Relative Humidity(%)	100	100	1, 6, 7	3, 6	Simultaneous Test	None
	Chemical Spray	Boron N ₂ OH	See Fig. 4-8	4, 5		Simultaneous Test	See Note 2
	Radiation Rads	3.6 x 10 ⁵	4.6x10 ⁴ R	8	3, 6	Sequential Test	See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: 99.85' Above Flood Level: No ^{Yes}	Submergence	Not Required	Not Required	2			None

Documentation References:

1. FSAR Chapter 5, paragraph 5.2.1
2. FSAR Chapter 6, Section 6.2.2
3. B&W Report 58-0079-00 (Dec. 1971)
4. Gilbert Assoc., Inc. "BWST Drawdown Transient Analysis Report
5. FSAR Tech. Spec. page 3/4 6-12
6. B&W Report BAW10003 + Rev. 1, 2, 3, 4
7. FSAR Chapter 7, paragraph 7.1.1.7
8. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note #1 Sheet 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC RC-PT-132 Component: Press Transmitter Manufacture: Rosemount Model Number: 1152 GP Function: DH Letdown Valve Interlock Accuracy: $\pm 10\%$ Service: RC Press Measurement Location: Containment 100' Flood Level Elev: 99.85' Above Flood Level: No ^{Yes}	Operating Time	24 Hours	24 hours	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	281	286	1, 6	3	Simultaneous Test	None
	Pressure (PSIG)	55	58	1, 6	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1, 6	3	Simultaneous Test	None
	Chemical Spray	See Note 2	See Fig. 4-6	4, 5	3	Simultaneous Test	None
	Radiation (Rads)	1.1×10^6	5×10^6 R	7	3	Sequential Test	None
	Aging	See Note 3	See Note 3				See Note 3
Submergence	Not Required	Not Required	2				None

Documentation References:

1. FSAR Chapter 5, paragraph 5.2.1
2. FSAR Chapter 6, Section 6.2.2
3. B&W Report 58-0261-00 (Feb. 1977) and 58-0220-00 (Sept. 1975)
4. Gilbert Assoc., Inc. "BWST Drawdown Transient Analysis Report"
5. FSAR Tech. Spec. page 3/4 6-12
6. FSAR Chapter 7, paragraph 7.1.1.7
7. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation.
2. Borated water and N OH.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
RC System: RC-14A-DPT-1 RC-14A-DPT-2 RC-14B-DPT-1 RC-14B-DPT-2 Component: Flow Transmitter Manufacture: BM Co. Model Number: BY 3241-A Function: RC - Flow Trip Accuracy: $\pm 12\%$ Service: RC flow measurement Location: Containment 100' Flood Level Elev: 99.85 Above Flood Level: Yes	Operating Time	1 min.	1000 Sec	8	3	Simultaneous Test	None
	Temperature (°F)	281	285	1, 2, 7	2, 3	Simultaneous Test	None
	Pressure (PSIG)	55	58	1, 2, 7	2, 3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1, 2, 7	2, 3	Simultaneous Test	None
	Chemical Spray	See Note 1		4, 6			See Note 2
	Radiation (Rads)	8.7×10^4	4×10^7	9	2, 3	Sequential Test	None
	Aging	See Note 3	See Note 3				See Note 3
Submergence	Not Required	Not Required		5			None

Documentation References:

- FSAR Chapter 5, paragraph 5.2.1
- BAW-10003 Report and Rev. 1, 2, 3, 4
- B&W Report 58-0081-00 (March 1973)
- Gilbert Assoc. Inc. "BWST Drawdown Transient Analysis Report"
- FSAR Chapter 6, Section 6.2.2
- FSAR Tech. Spec. page 3/4 6-12
- FSAR Chapter 7, paragraph 7.1.1.7
- Tech. Spec. Table 3.6-1
- Dose Maps, Fig. 4-1.

Notes:

- Borated water and N₂ gas.
- Ref. Note #1 Sheet 2-1
- Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
RC System: RC-4A-TE4 (See Note 1) Component: Temp. Element Manufacture: Rosemount Model Number: RTD-177HW Function: HI RC Temp. Trip Accuracy: $\pm 10\%$ Service: RC Temp. Measurement Location: Containment	Operating Time	24 Hours		Note 3			See Note 4
	Temperature (°F)	281	325	1, 6, 7	3, 6	Simultaneous Test	None
	Pressure (PSIG)	55	60	1, 6, 7	3, 5	Simultaneous Test	None
	Relative Humidity(%)	100	100	1, 6, 7	3, 6	Simultaneous Test	None
	Chemical Spray	See Note 2		4, 5			See Note 4
	Radiation (Rads)	7.7×10^8	3.8×10^8	6, 7	3	Sequential Test	See Note 4, 6
	Aging	See Note 5	See Note 5				See Note 5
Flood Level Elev: 99.85' Above Flood Level: No ^{Yes}	Submergence	Not Required	Not Required	2			None

Documentation References:

- FSAR Chapter 5, paragraph 5.2.1
- FSAR Chapter 6, Section 6.2.2
- B&W Report 58-0372-00 (January 1978)
- Gilbert Assoc., Inc. "BWST Drawdown Transient Analysis Report"
- FSAR, Tech. Spec. page 3/4 6-12
- B&W Report BAW10003 + Rev. 1, 2, 3, 4
- FSAR Chapter 7, paragraph 7.1.1.7

Notes:

- Additional Tag Nos. RC-4A-TE1; RC-4B-TE1, 4
RC-5A-TE1, 2, 3, 4
RC-5B-TE1, 2, 3, 4
- Borated water and N_aOH .
- Operation/Engineering evaluation
- Ref. Note #1 Sheet 2-1
- Ref. Note 7, Sh. 2-1
- Electrical cable for this equipment is only qualified to 1.0×10^8 rads.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RC (No. 1) RC-T-1, 2, 3 Component: Level Transmitter Manufacture: Rosemount Model Number: 1152 DP Function: Control & Indication Accuracy: + 10% Service: Pres'r Level Measurement Location: Containment El. 100'	Post Acc'd Operating Time	24 hours	24 hours	See Note 4	4	Simultaneous Test	None
	Temperature (°F)	281	286	1	4	Simultaneous Test	None
	Pressure (PSIG)	55	58	1	4	Simultaneous Test	None
	Relative Humidity(%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Boron NaOH	Fig. 4-6	3, 5	4	Simultaneous Test	None
	Radiation (Rads)	1.1x10 ⁶	5x10 ⁶	6	4	Sequential Test	None
	Aging	See Note 1	See Note 1				See Notes 1
Flood Level Elev: 99.85 Above Flood Level: Yes No	Submergence	Not Required	Not Required	2			None

Documentation References:

1. FSAR Chapter 5, paragraph 5.2.1
2. FSAR Chapter 6, Section 6.2.2
3. Gilbert Assoc. Inc. "BWST Drawdown Transient Analysis Report"
4. B&W Report 58-0261-00
58-0220-00
5. FSAR Tech. Spec. page 3/4 6-12; 3/4 5-7
6. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note 7, Sh. 2-1.
2. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION 1 KSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
RC NI-005-A13 System: NI-006-A13 NI-007-A13 NI-008-A13 Component: Neutron Flux Detector Manufacture: Westinghouse Model Number: WI-23636 Function: Hi Flux Trip Accuracy: $\pm 4\%$ Service: Neutron Flux Measurement Location: Containment (Note 1) Flood Level Elev: 99.85 Above Flood Level: Yes No	Operating Time	6 months		4			See Note 6
	Temperature (°F)	281	212	1, 5, 7	3, 6	Test	See Note 6
	Pressure (PSIA)	55	150	1, 5, 7	3, 6	Test	None
	Relative Humidity(%)	100	100	1, 5, 7	3, 6	Test	None
	Chemical Spray	Note 3		2, 4	N/A	N/A	See Note 1
	Radiation	N/A	N/A	N/A	N/A	N/A	See Note 1
	Aging	See Note 5, 6	See Note 5, 6				See Note 5, 6
	Submergence	Not Required	Not Required				None

Documentation References:

1. FSAR Chapter 5, paragraph 5.2.1
2. Gilbert Assoc., Inc. "BWST Drawdown Transient Analysis Report"
3. B&W Report 58-0089-01
4. FSAR Tech. Spec. page 3/4 6-12
5. B&W Report BAW 10003 + Rev. 1, 2, 3, 4
6. B&W Report 58-0089-01 (June 1970)
7. FSAR Chapter 7, paragraph 7.1.1.1

Qualification not required per section A.12 of Supplement No. 2 to Bulletin 79-01B.

2-176

Notes:

1. Detector and cable located below reactor cavity seal plate in a dry well - not exposed to spray or flooding. The instrument measures flux radiation.
2. Equipment only required after MSLB; evaluation not complete.
3. Borated water and NaOH.
4. Operation/Engineering evaluation
5. Ref. Note #1 sheet 2-1
6. Westinghouse/GAI letter of 6/23/80 sent to MFG requesting qualification info.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RM RM-A1 Component: Radiation Monitor Manufacture: Trap Model Number: Function: P/T Vent Release Rad Monitor Accuracy: Service: React Bldg. Purge Duct Location: Aux. Bldg. Ele. 143' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 hour		See note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1x10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

~~Documentation Reference:~~

~~1. Dose Maps, Fig. 4-3~~

Qualification is not required. These components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in the emergency procedures, however, their function is for indication only.

~~Notes:~~

- ~~1. Ref. Note #2 Sheet 2-1~~
- ~~2. Ref. Note 4, Sl. 2-1~~
- ~~3. Ref. Note 7, Sl. 2-1.~~
- ~~4. Operation/Engineering evaluation~~

SYSTEM COMPONENT EVALUATION V SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RM RM-A6 Component: Radiation Monitor Manufacture: Trap Model Number: Function: Containment Rad Monitor Accuracy: Service: React Bldg. Air Supply Line Location: Aux. Bldg. El. 119' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 hour		See Note 4			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2x10 ⁶		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

~~Documentation References:~~

~~1. Dose Maps, Fig. 4-2.~~

Qualification is not required. These components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in the emergency procedures, however, their function is for indication only.

~~Notes:~~

- ~~1. Ref. Note #2 Sheet 2-~~
- ~~2. Ref. Note 4, Sh. 2-1~~
- ~~3. Ref. Note 1, Sh. 2-1~~
- ~~4. Operation/Engineering evaluation.~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RM RM-A12 Component: Radiation Monitor Manufacture: Trap Model Number: Function: Condenser Rad Monitor Accuracy: Service: Condenser Vacuum Pump Exhaust Location: Turbine Bldg. El. 95' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 hour		See Note 3			See Note 1
	Temperature (°F)	212		1			See Note 1
	Pressure (PSIA)	16.7		1			See Note 1
	Relative Humidity (%)	100		1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation	N/A	N/A				None
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

~~Documentation References:~~

- ~~GAI Report No. 1811 dated 10/1/73.~~

Qualification is not required. These components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in the emergency procedures, however, their function is for indication only.

~~Notes:~~

- ~~Ref. Note 6, Sh. 2-1~~
- ~~Ref. Note 7, Sh. 2-1~~
- ~~Operation/Engineering evaluation~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RM LR-7-TR Component: Temp. Recorder Manufacture: D or C Model Number: 210-40 Function: Containment Temp Monitor Accuracy: Service: Cont. Vessel Temp Recorder Location: Intermediate Bldg. EL=119' Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 mos.		See Note 4			See Note 2
	Temperature (°F)	See Note 1		1			See Note 2
	Pressure (PSIA)	19.15		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁶		2			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

~~Documentation References:~~

- ~~GAI Report No. 1811, 10/1/73~~
- ~~Rose Maps, Fig. 4-2.~~

Qualification is not required. These components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in the emergency procedures, however, their function is for indication only.

~~Notes:~~

- ~~Ref. Fig. 4-4 (From GAI Report 1811 dated 10/1/73)~~
- ~~Ref. Note #1 Sheet 2-1.~~
- ~~Ref. Note 7, Sp. 2-1.~~
- ~~Operation/Engineering evaluation~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RW ID No. RWP-2A, 2B Component: Pump Motor Manufacture: Electric Machinery Model Number: Frame Size 3317-V Function: Pump Drive Accuracy: N/A Service: Emerg. Nuclear Serv. Sea Water Pump 3A & 3B Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.6x10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 4, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: RW ID No. RWP-3A, 3B Component: Pump Motor Manufacture: Electric Machinery Model Number: Frame Size 2315-V Function: Pump Drive Accuracy: N/A Service: Decay Heat Serv. Sea Water Pump 3A and 3B Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	5.6×10^4		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 4, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SP SPIA-LT1 SPIB-LT1 Component: Level Transmitters Manufacture: BCo. Model Number: BY84B1X-A Function: Steam Gen Level Monitor Accuracy: ± 12% Service: Full Range Stm Gen Level Location: Containment EL=95' Flood Level Elev: 99.85' Above Flood Level: Yes ☐ No ☒	Operating Time	24 hours	1000 Sec	See Note 3	4	Simultaneous	See Note 1
	Temperature (°F)	285	286	1	4	Simultaneous	None
	Pressure (PSIG)	55	59	1	4	Simultaneous	None
	Relative Humidity (%)	100	100	1	4	Simultaneous	None
	Chemical Spray	Boron NaOH		2			
	Radiation (Rads)	1.1 X 10 ⁶	4 x 10 ⁷	3	4	Sequential Test	None
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. FSAK Fig 14-72G
2. Tech. Spec pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-1.
4. B & W Report 58-0081-00 dated 3/12/73.

Notes:

1. Reference note #1 Sheet 2-1
2. Reference note #7 Sheet 2-1
3. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SP SP1A-LT2,3 SP1B -LT2,3 Component: Level Transmitter Manufacture: BCo. Model Number: BY84B1X-A Function: Steam Gen Level Monitor Accuracy: $\pm 12\%$ Service: Operate STM Gen Level Location: Containment EL=95' Flood Level Elev: 99.85 Above Flood Level: ☐ Yes ☒ No	Operating Time	24 Hours	1000 sec	See Note 3	4	Simultaneous Test	See Note 1
	Temperature (°F)	281	286	1	4	Simultaneous Test	See Note 1
	Pressure (PSIG)	55	54	1	4	Simultaneous Test	See Note 1
	Relative Humidity (%)	100	100	1	4	Simultaneous Test	See Note 1
	Chemical Spray	Boron NaOH		2			None
	Radiation (Rads)	1.1×10^6	4×10^7	3	4	Sequential Test	See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. FSAR Fig. 14-72 G
2. Tech. Spec. pg 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-1.
4. B & W Report 58-0081-00 dated 3/12/73.

Notes:

1. Reference Note 1, Sh. 2-1
2. Reference Note 7, Sh. 2-1
3. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SP SPIA-LT 4, 5 SPIB-LT 4, 5 Component: Level Transmitter Manufacture: BM Co. Model Number: BY84B1X-A Function: Steam Gen. Level Monitor Accuracy: $\pm 12\%$ Service: Start-up Steam Gen Level Location: Containment El. 95' Flood Level Elev: 99.85 Above Flood Level: ☒ Yes ☐ No	Operating Time	24 Hrs.	1000 Sec.	See Note 3	4	Simultaneous Test	See Note 1
	Temperature (°F)	281	286	1	4	Simultaneous Test	None
	Pressure (PSIG)	55	59	1	4	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Boron NaOH		2			See Note 1
	Radiation	1.1×10^6	4×10^7	3	4	Sequential Test	None
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. FSAR Fig. 14-72 G
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. Dose Maps, Fig. 4-1.
4. B & W Report 58-0081-00 dated 3/12/73.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1
3. Operation/Engineering evaluation

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SP SF-6A-PT-1, 2 SF-6B-PT-1, 2 Component: Pressure Transmitter Manufacture: Foxboro Model Number: E11GM Function: Steam Gen Pressure Monitor Accuracy: Accident $\pm$ 5% Service: Sta Gen Press Measurement Location: Containment El. 119' Flood Level Elev: 99.85 Above Flood Level: No Yes	Operating Time	24 Hrs.	24 Hrs.	See Note 1	3	Simultaneous Test	None
	Temperature (°F)	281	285	1	3	Simultaneous Test	None
	Pressure (PSIG)	55	58	1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	3	Simultaneous Test	none
	Chemical Spray	Boron NaOH	See Fig. 4-8	2, 4			See Note 2
	Radiation (Rads)	1×10^4	4.6×10^4	5	3	Sequential Test	See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. FSAR Ch. 5 para. 5.2.1. also Fig. 14-72G
2. Gilbert Assoc. Inc., "BWST Drawdown Transient Analysis Report".
3. B&W Report 58-0079-00 dated 12/22/71
4. FSAR Tech. Spec. pg. 3/4 6-12; 3/4 5-7
5. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.
2. Reference Note #1 sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION 1 (SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SP SP-8A-DPT-1,2,3 SP-8B-DPT-1,2,3 Component: Differential Pressure Transmitter Manufacture: BM Model Number: BY 6241-A Function: FW Flow Monitor Accuracy: Service: To manual switch SP-8B-MS to computer to IC system Location: Turbine Bldg. El. 100' Flood Level Elev: N/A Above Flood Level: Yes/No	Operating Time	24 hours		See Note 1			See Note 2
	Temperature (°F)	212		1			See Note 2
	Pressure (PSIA)	16.7		1			See Note 2
	Relative Humidity (%)	100		1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation	N/A	N/A				None
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

~~Documentation References~~

~~1. GAL Report No. 1841 dated 10/1/73~~

~~Notes:~~

- ~~1. Operation/Engineering evaluation~~
- ~~2. Ref. Note 1, sh. 2-1~~
- ~~3. Ref. Note 1, sh. 2-1~~

Qualification not required because components are not relied upon to mitigate the consequences of a LOCA or HELB. They are included in Emergency Procedures, however their function is for indication only.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SWP-1A SWP-1B Component: Pump Motor Manufacture: Electric Machinery Model Number: Frame Size 2525-S Function: Pump Drive Accuracy: N/A Service: Emerg. Nucl. Serv. Clsd. Cycle Cooling Pump 3A & 3B Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	6 months		See Note 1			See Note 2
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 2
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rad)	5.6 x 10 ⁴		1			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.

Notes:

1. Operation/Engineering evaluation
2. Ref. Note 4, Sh. 2-1
3. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-12 Component: Solenoid Valve Manufacture: Webco Model Number: LB8321A8 Function: Isolation Accuracy: N/A Service: Aux. Service Isolation Location: Auxiliary Bldg El. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
	Submergence						

Documentation References:

1. Tech Spec table 3.6-1
2. FSAR Chapter 7 paragraph 7.1.1.7
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref Note #2 Sheet 2-1.
2. Ref Note #1 Sheet 2-1.
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-35, 37, 39, 41, 43, 45 Component: Solenoid Valve Manufacture: Webco Model Number: LB8321A5 Function: Isolation Accuracy: N/A Service: Reactor Bldg. Air Handling Fans Inlet & Disch. Valves Location: Auxil. Bldg. Elev. 95	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = <100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech Spec Table 3.6-1
2. FSAR Chapter 7, Paragraph 7.1.1.7
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref Note #2 Sheet 2-1
2. Ref Note #1 Sheet 2-1
3. Ref Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-47, 48, 49, & 50 Component: Solenoid Valve Manufacture: Webco Model Number: LB8321A8 Function: Isolation Accuracy: N/A Service: Letdown Cooler Supply & Return Valves Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

Notes:

1. FSAR Chapter 7, paragraph 7.1.1.7.
2. Tech Spec Table 3.6-1
3. Dose Maps, Fig. 4-1.

1. Ref Note #2 Sheet 2-1
2. Ref Note #1 Sheet 2-1
3. Ref Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-47, 48, 49, 50 Component: Limit Switches Manufacture: NAMCO Model Number: SL-4 Function: Indication of Valve Opening and Closings Accuracy: Service: Indication Location: Aux. Bldg. EL = 95'	Operating Time	1 Min.		1, 2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	11.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = $\angle 100$		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. FSAR Ch. 7, par. 7.1.1.7
3. Dose Maps, Fig. 3.1

Notes:

1. Ref. Note #2, Sheet 2-1
2. Ref. Note #1, Sheet 2-1
3. Ref. Note #7, Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-79,80,81,82,83,84, 85 & 86 Component: Solenoid Valve Manufacture: Webco Model Number: LB8321A8 Function: Isolation Accuracy: N/A Service: RC Pump Cooler Supply and Return Valves Location: Aux. Bldg. Elev. 119	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 x 10 ⁶		4			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

- FSAR Chapter 7, Paragraph 7.1.1.7
- Tech Spec. Table 3.6-1
- Dose Maps, Fig. 4-2.

Notes:

- Ref Note # 2 Sheet 2-1.
- Ref. Note #1 Sheet 2-1.
- Ref. Note #7 Sheet 2-1.

SYSTEM COMPONENT EVALUATION RKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-109 & 110 Component: Solenoid Valve Manufacture: Crane Model Number: 33 1/2 Function: Isolation Accuracy: N/A Service: Nuclear Serv. Inlet and Outlet Iso. to Reactor Location: Bldg. Aux. Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 x 10 ⁶		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. FSAR Chapter 7, Paragraph 7.1.1.7
2. Tech Spec Table 3.6-1
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref Note # 2 Sheet 2-1.
2. Ref. Note #1 Sheet 2-1.
3. Ref. Note #7 Sheet 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW SWV-151, 152, 353, 354, 355 Component: Solenoid Valve Manufacturer: Webco Model Number: LB8321A6 Function: Isolation Accuracy: N/A Service: Reactor Bldg. Feed Assembly Transfer Valves Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes / ☐ No	Operating Time	1 min.		1, 2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity (%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. FSAR Chapter 7, Paragraph 7.1.1.1
2. Tech. Spec. Table 3.6-1
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref Note #2 Sheet 2-1.
2. Ref Note #1 Sheet 2-1.
3. Ref Note #7 Sheet 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-3 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For SWV-12 Location: Auxiliary Bldg El. 119	Operating Time	<1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-4, 5, 16 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control for SWV-35, 37, 39, 41, 43, 45 Location: Aux. Bldg. Elev. 95	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁸		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-6 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control for SWV-47, 48, 49 & 50 Location: Auxiliary Bldg. El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 m/a.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁸		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1,
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-7 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control for SWV-79,81,83 & 85 Location: Aux. Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-8 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For SWV-80,82,84,86 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 x 10 ⁶		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-9 Component: Local Control Station Manufacturer: Field Fabricated Model Number: GE Type UA 202 Switches GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For SWV-109 & 110 Location: Aux. Bldg. Elev. 119	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A	Submergence						
Above Flood Level: Yes No							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-10 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For SWV-152 & 353 Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	< 1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient = < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Submergence							

Documentation References:

Notes:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-11, 13 & 14 Component: Local Control Station Manufacture: Field Fabricated Model Number: GE Type UA202 Switches; GE Type UC212 Lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For SWV-354, 151 & 355 Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	<1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSI&)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = <100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4		1			See Note 1
	Aging	See Note 2	See Note 2				None See Note 2
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-3 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-12 Location: Aux. Bldg. Elev. 119	Operating Time	< 1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°C)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh.2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	1	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

Notes:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1
3. GE Letter of 10/10/78, Electrical Terminal Block Testing

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-4, 5, 19 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-35, 37, 39, 41, 43, 45 Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 SH. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	1	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

Notes:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION AKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-6 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-47, 48, 49 & 50 Location: Auxiliary Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1
3. GE letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-7 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-78, 81, 83, 85 Location: Aux. Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2×10^6	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

Notes:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1
3. GE Letter of 10/10/78, Electrical Terminal Block Testing

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-8 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-80, 82, 84 & 86 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2×10^6	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 3, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. CJ-9 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring For SWV-109 & 110 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2×10^6	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Dose maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1.
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-10 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-152 & 353 Location: Aux. Bldg. Elev. 95	Operating Time	< 1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^4	1.0×10^6	1	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1.
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW -11, 12 & 13 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring For SWV-354, 151, 355 Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	< 1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 x 10 ⁴	1.0 x 10 ⁶	1	See Note 2		None
	Aging	See Note 1	See Note 1				See Note 1
	Submergence						

Documentation References:

1. Dose maps, Fig. 4-1.
2. Tech. Spec. Table 3.6 - 1.
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-14 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-47,48,49,50 Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Dose maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1.
3. GE letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-15 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-79,80,81,82,83,84 85,86,109, & 110 Location: Aux. Bldg. Elev. 119	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = <100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2×10^6	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1.
3. GE letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: SW ID No. SW-18 Component: Terminal Box Manufacture: Field Fabricated Model Number: Sates Type NT Terminal Blocks Function: Field Connection of Power and Control Cables Accuracy: N/A Service: Control Wiring for SWV-152, 353, 354 Location: Aux. Bldg. Elev. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	< 1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient = <100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (RADS)	1.0×10^4	1.0×10^6	1	See Note 2		None
	Aging	See Note 1,	See Note 1				See Note 1
	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1.
2. Tech. Spec. Table 3.6-1
3. GE Letter of 10/10/78; Electrical Terminal Block Testing

Notes:

1. Ref. Note 3, Sh. 2-1.
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No.: WDV-3 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-2 Function: Containment Isolation Accuracy: N/A Service: R.B. Sump Pps. Discharge Iso. Valve Location: Inside containment Elev. 95'-0" Flood Level Elev: 99.85' Above Flood Level: Yes x NO	Operating Time	1 min.	See Fig. 4-15	2	4	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Note 3	5	4	Simultaneous Test	None
	Pressure (PSIG)	See Fig. 4-5	See Fig. 4-15	5	4	Simultaneous Test	None
	Relative Humidity(%)	100	100	5	4	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	3	4	Simultaneous Test	None
	Radiation (Rads)	1.0×10^4		1			See Note 1
	Aging	See note 2	See Note 2				See Note 2
Submergence	Not Required	Not Required					None

Documentation References:

1. Dose Maps, Fig. 4-1
2. Tech. Spec. Table 3.6-1.
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
4. Philadelphia Gear Test Report No. 600198 dated Jan. 2, 1969 and Addendum 1 dated April 29, 1969.
5. FSAR Fig. 14-72G.

Notes:

1. Ref. Note 1, Sh. 2-1.
2. Ref. Note 7, Sh. 2-1.
3. Temperature ranged from 329°F to 256°F for the first 24 hours of the test.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No.: WDV-60 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-000-5 Function: Containment Isolation Accuracy: N/A Service: R.C. Drain Tank Vent Line Iso. Valve Location: Inside containment Elev. 95'-0" Flood Level Elev: 99.85' Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	See Fig. 4-11	2	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	4	1	Simultaneous Test	None
	Pressure (FSIA)	See Fig. 4-5	See Fig. 4-11	4	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	4	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	3	1	Simultaneous Test	None
	Radiation (Rads)	1.0×10^4	2.04×10^8	5	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
	Submergence	Not Required	Not Required				None

Documentation References:

1. Philadelphia Gear Test Report #600456 dated 9/76.
2. Tech. Spec. Table 3.6-1
3. Tech. Spec. pg. 3/4 5-7; 3/4 6-12.
4. FSAR Fig. 14-72G.
5. Dose Maps, Fig. 4-1.

Notes:

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No.: WDV-94 Component: Valve Motor Operator Manufacture: Limitorque Model Number: SMB-000-2 Function: Containment Isolation Accuracy: N/A Service: R.C. Drain Tank Pump Iso. Valve Location: Inside con- tainment Elev. 95'-0" Flood Level Elev: 99.85' Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	See Fig. 4-11	2	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	4	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-12	4	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	4	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	3	1	Simultaneous Test	None
	Radiation (Rads)	1.0×10^4	2.04×10^8	5	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
Submergence	Not Required	Not Required					None

Documentation References:

1. Philadelphia Gear Test Report #600456 dated 9/76.
2. Tech. Spec. Table 3.6-1.
3. Tech. Spec. 3/4 5-7; 3/4 6-12.
4. FSAR Fig. 14-72G.
5. Dose Maps, Fig. 4-1.

Notes:

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No. WDV-405 Component: Valve Motor Operator Manufacturer: Limiterque Model Number: SMB- Function: Containment Isolation Accuracy: N/A Service: R. B. Vent Header Outside Iso. Valve Location: Auxiliary Bldg. Elev. 119'-0"	Operating Time	30 Days	See Fig. 4-10	See Note 1	2	Simultaneous Test	None
	Temperature (°F)	Ambient	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Pressure (PSIA)	14.7	See Fig. 4-10	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	2	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.8×10^6	2.0×10^7	1	2	Sequential Test	None
	Aging	None	40 Years		2	Sequential Test	None
Flood Level Elev: N/A Above Flood Level: Yes No	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Limitorque test report #B0003 dated 5/28/76.

Notes:

1. Operation/Engineering evaluation.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant No. WDV-406 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-000 Function: Containment Isolation Accuracy: N/A Service: R.B. Vent Hdr. Inside Iso. Valve Location: Inside Con- tainment Elev. 119'-0" outside shield wall Flood Level Elev: 99.85' Above Flood Level: Yes X No	Operating Time	30 Days	See Fig. 4-11	See Note 1	1	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	3	1	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-12	3	1	Simultaneous Test	None
	Relative Humidity(%)	100	100	3	1	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	2	1	Simultaneous Test	None
	Radiation (Rads)	4.0×10^6	2.04×10^8 Rads	4	1	Sequential Test	None
	Aging	None	40 Years		1	Sequential Test	None
	Submergence	Not Required	Not Required				None

Documentation References:

1. Philadelphia Gear Test Report #600456 dated 9/76.
2. Tech. Spec. pg. 3/4 5-7; 3/4 6-12
3. FSAR Fig. 14-72G.
4. Dose Maps, Fig. 4-2.

Notes:

1. Operation/Engineering evaluation.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD ID No. WDV-407 Component: Valve Motor Operator Manufacturer: Limitorque Model Number: SMB-000 Function: Accuracy: N/A Service: RC Drain Tank Vent Location: Containment Elev. 95 Flood Level Elev: 99.85 Above Flood Level: Yes ^X No	Operating Time	30 Days	See Fig. 4-11	See Note 1	4	Simultaneous Test	None
	Temperature (°F)	See Fig. 4-5	See Fig. 4-11	1	4	Simultaneous Test	None
	Pressure (PSIA)	See Fig. 4-5	See Fig. 4-12	1	4	Simultaneous Test	None
	Relative Humidity (%)	100	100	1	4	Simultaneous Test	None
	Chemical Spray	Boron Na OH	Boric Acid Solution	2	4	Simultaneous Test	None
	Radiation	4.0×10^6	2.04×10^8	3	4	Sequential Test	None
	Aging	None	40 years		4	Sequential Test	None
	Submergence	No Required	Not Required				None

Documentation References:

- FSAR Fig. 14-72G.
- Tech. Spec. pg. 3-4 3-7; 3/4 6-12.
- Doc Maps, Fig. A-1.
- Philadelphia Gear Test Report #600456 dated 9/76.

Qualification is not required. This component is included in the Emergency Procedures, however it is not required to maintain reactor integrity following a LOCA or HELB.

Notes:

~~1. Operation/Engineering evaluation.~~

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD WDV-4 Component: Solenoid Valve Manufacture: Grinnell Model Number: 2466-3250 LCR Function: Isolation Accuracy: N/A Service: Reactor Bldg. Sump Pump Disch. Iso. Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.		1, 2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = <100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

1. Tech. Spec. Table 3.6-1
2. FSAR Chapter 7 paragraph 7.1.1.7.
3. Dose Maps, Fig. 4-1.

Notes:

1. Ref. Note #2 Sheet 2-1.
2. Ref. Note #1 Sheet 2-1.
3. Ref. Note #7 Sheet 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD WDV-61 & 62 Component: Solenoid Valve Manufacture: Grinnell Model Number: 2466-3250LCR Function: Isolation Accuracy: N/A Service: RC Drain Tank Vent Iso. Location: Auxiliary Bldg El. 95 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min.		1, 2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Submergence							

Documentation References:

Notes:

1. Tech. Spec. Table 3.6-1.
2. FSAR Chapter 7, paragraph 7.1.1.7.
3. Dose Maps, Fig. 4-1.

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note #7 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No.: WD-1 Component: Local Control Station Manufacture: Field Fabricated Model Number: G.E. UA202 Switches G.E. DE212 Lights Function: Local Control of Valve Accuracy: N/A Service: Waste Disposal System Valves WDV-4, 61 & 62 Location: Auxiliary Bldg. Elev. 95'-0"	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity (%)	Ambient < 100		See Note 2 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸	N/A	1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Submergence						

Documentation References:

1. Dose Maps, Figure 4-1.
2. Tech. Spec. Table 3.6-1.

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD Plant ID No. WD-3 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Termination of Control Cables Accuracy: N/A Service: Waste Disposal Valves WDV-4, 61, & 62 Location: Auxiliary Bldg. Elev. 95'-0'	Operating Time	1 min	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0×10^8	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: N/A Above Flood Level: Yes NO	Submergence						

Documentation References:

1. Dose Maps, Fig. 4-1
2. Tech. Spec. Table 3.6-1
3. GE Co. letter of 10/10/78; Electrical Terminal Block Testing.

Notes:

1. Ref. Note 8, Sh 2-1.
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WD (Note 1) WD-LT-26 WD-LT-222 Component: Level Transmitter Manufacturer: Fisher Model Number: 2340-249CP Function: Control and Indication Accuracy: $\pm 12\%$ Service: Cont. Sump Level Measurement Location: Containment EL=95'	Operating Time	1 Hour		See Note 2			See Note 3
	Temperature (°F)	281		1			See Note 3
	Pressure (PSIG)	55		1			See Note 3
	Relative Humidity(%)	100		1			See Note 3
	Chemical Spray	Boron NaOH		3,4			See Note 3
	Radiation (Rads)	2.5×10^7		5			See Note 3
	Aging	See Note 1	See Note 1				See Note 1
Flood Level Elev: 99.85 Above Flood Level: Yes No	Submergence						

Documentation References:

- FSAR chapter 5, Paragraph 5.2.1-Also Fig 14-72G
- FSAR chapter 6, Section 6.2.2
- Gilbert Associates, Inc. "BWST Drawdown Transient Analysis Report"
- FSAR Tech. Spec. page 3/4 6-12; 3/4 5-7
- Dose Maps, Fig. 4-1

Notes:

- Ref. Note 7, Sh. 2-1
- Operation/Engineering Evaluation
- Ref. Note #1 Sheet 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WS WSV-3,4,5 & 6 Component: Solenoid Valve Manufacture: ASCO. Model Number: HT 8317A29 Function: Isolation Accuracy: N/A Service: Containment Monitoring Isolation Location: Auxiliary Bldg El. 119	Operating Time	1 min.		1,2			See Note 2
	Temperature (°F)	Ambient		See Note 1			See Note 2
	Pressure (PSIA)	14.7		See Note 1			See Note 2
	Relative Humidity(%)	Ambient = < 100		See Note 1			See Note 2
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.0 X 10 ⁸		3			See Note 2
	Aging	See Note 3	See Note 3				See Note 3
Flood Level Elev: N/A Above Flood Level: ^{Yes} ^{No}	Submergence						

Documentation References:

1. Tech. Spec. Table 3.6-1
2. FSAR Chapter 7, paragraph 7.1.1.7.
3. Dose Maps, Fig. 4-2.

Notes:

1. Ref. Note #2 Sheet 2-1
2. Ref. Note #1 Sheet 2-1
3. Ref. Note 7, Sh. 2-1.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WS ID No. WS-1, 2, 3 & 4 Component: Local Control Station Manufacture: Field Fabricated Model Number: G. E. UA202 Switches G. E. UC212 lights Function: Solenoid Valve Control Accuracy: N/A Service: Local Control For WSV-3, 4, 5 & 6 Location: Auxiliary Bldg. Elev. 119	Operating Time	1 min.		2			See Note 1
	Temperature (°F)	Ambient		See Note 2 Sh. 2-1			See Note 1
	Pressure (PSIA)	14.7		See Note 2 Sh. 2-1			See Note 1
	Relative Humidity(%)	Ambient = < 100		See Note 2 1 Sh. 2-1			See Note 1
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 X 10 ⁶		1			See Note 1
	Aging	See Note 2	See Note 2				See Note 2
Flood Level Elev: N/A	Submergence						
Above Flood Level: ^{Yes} No							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1

Notes:

1. Ref. Note 1, Sh. 2-1
2. Ref. Note 7, Sh. 2-1

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WS ID No. WS-2 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connections of Power and Control Cables Accuracy: N/A Service: Control Wiring for WSV-3 & 5 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: Yes No	Operating Time	1 min	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity (%)	Ambient = < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2×10^6	1.0×10^6	1	See Note 2		See Note 1
	Aging	See Note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1
3. G. E. Co. letter of 11/10/78; Electrical Terminal Block Testing.

Notes:

1. Ref. Note 3, Sh. 2-1
2. Radiation dosage per Appendix C of DOR Guidelines.

SYSTEM COMPONENT EVALUATION WORKSHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: WS ID No. WS-3 Component: Terminal Box Manufacture: Field Fabricated Model Number: States Type NT Terminal Blocks Function: Field Connections of Power and Control Cables Accuracy: N/A Service: Control Wiring for WSV- 4 & 6 Location: Auxiliary Bldg. Elev. 119 Flood Level Elev: N/A Above Flood Level: ☒ Yes ☐ No	Operating Time	1 min.	8 days	2	3	Simultaneous Test	None
	Temperature (°F)	Ambient	260	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Pressure (PSIA)	14.7	35.7	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Relative Humidity(%)	Ambient ± < 100	100	See Note 2 Sh. 2-1	3	Simultaneous Test	None
	Chemical Spray	N/A	N/A				None
	Radiation (Rads)	1.2 X 10 ⁶	1.0 x 10 ⁶	1	See Note 2		See Note 1
	Aging	See note 1	See Note 1				See Note 1
Submergence							

Documentation References:

1. Dose Maps, Fig. 4-2.
2. Tech. Spec. Table 3.6-1.
3. G. E. Co. letter of 10/10/78, Electrical Terminal Block Testing.

Notes:

1. Ref. Note 8, Sh. 2-1
2. Radiation dosage per Appendix C of EOR Guidelines.

SECTION 3

Deleted

(Ref. Section I.2 of the Introduction)

SECTION 4

Tables and Figures

CR-3 Dose Rate By Region

Layout Region	(mr/hr) Dose Rate T=0	Accident Dose (RADS)	40 Yr. Dose (RADS)	Total Dose (RADS)
I	3.4 + 6	1.5 + 5	1.2 + 6	1.4 + 6
IIA	8.5 + 7	3.2 + 6	1.2 + 6	4.4 + 6
IIB	1.0 + 7	3.9 + 5	1.0 + 4	4.0 + 5
IIC	1.4 + 7	5.5 + 5	1.0 + 4	5.6 + 5
III	1.3 + 6	5.1 + 4	1.0 + 4	6.1 + 4
IV	6.1 + 6	2.5 + 5	1.0 + 4	2.6 + 5
V	3.0 + 7	1.2 + 6	4.9 + 6	6.1 + 6
VI	2.0 + 7	7.8 + 5	1.0 + 4	7.9 + 5
VII	4.3 + 7	1.7 + 6	1.0 + 4	1.7 + 6
VIII	9.0 + 4	3.5 + 3	1.0 + 4	1.4 + 4
IXA	1.2 + 6	4.6 + 4	1.0 + 4	5.6 + 4
IXB	2.5 + 1	-*	1.0 + 4	1.0 + 4
X	1.1 + 1	-	1.0 + 4	1.0 + 4
XI	2.3 + 3	-	1.0 + 4	1.0 + 4
XII	1.2 + 7	4.6 + 5	1.0 + 4	4.7 + 5
XIIIA	6.1 + 3	2.5 + 2	1.0 + 4	1.0 + 4
XIIIB	1.0 + 1	-	1.0 + 4	1.0 + 4
XIV	1.2 + 6	4.6 + 4	1.0 + 4	5.6 + 4
XVA	6.6 + 4	2.6 + 3	1.0 + 4	1.3 + 4
XVB	3.8 + 3	3.9 + 2	1.0 + 4	1.0 + 4
XVI	2.3 + 3	-	1.0 + 4	1.0 + 4
XVII	3.0 + 7	1.2 + 6	1.2 + 6	2.4 + 6
XVIII	3.3 + 5	1.4 + 4	1.0 + 4	2.4 + 4
XIX	4.2 + 5	1.6 + 4	1.0 + 4	2.6 + 4
XX	3.8 + 3	1.5 + 2	1.0 + 4	1.0 + 4
XXI	1.0 + 4	3.9 + 2	1.0 + 4	1.0 + 4
XXII	0.5 + 0	-	1.0 + 4	1.0 + 4
XXIII	3.8 + 6	1.5 + 5	1.0 + 4	1.6 + 5
XXIV	NA	-	NA	NA
XXV	NA	-	3.5 + 8	3.5 + 8
XXVI	NA	-	1.0 + 4	1.0 + 4
XXVII	1.0 + 1	-	1.0 + 4	1.0 + 4
XXVIII	NA	-	1.0 + 4	1.0 + 4
XXIX	8.6 + 5	3.4 + 4	1.0 + 4	4.4 + 4
XXX	2.9 + 6	1.1 + 5	1.0 + 4	1.2 + 5
XXXI	4.5 + 6	1.7 + 5	1.0 + 8	1.0 + 8
XXXII	4.1 + 3	1.6 + 2	1.0 + 4	1.0 + 4
XXXIII	2.0 + 8	7.8 + 6	1.0 + 4	7.8 + 6
XXXIV	2.0 + 8	7.8 + 6	2.5 + 7	3.3 + 7
XXXVI	NA	2.0 + 7	1.0 + 4	2.0 + 7
XXXVII	5.0 + 8	2.0 + 7	1.0 + 4**	2.0 + 7
XXXVIII	2.0 + 8	7.8 + 6	1.0 + 4	7.8 + 6
XXXIX	1.1 + 8	4.3 + 6	7.7 + 8	7.7 + 8
XL	1.1 + 8	4.3 + 6	3.3 + 8	3.3 + 8

* <100 RADS

** Not considering areas underwater during refueling

Table 4-1

CR-3 6 Month Accident Dose (Rads)

Layout Region	Dose T=0 Rate (mr/hr)	Dose (Rads)					
		1 min.	1 hr.	1 day	5 days	30 days	6 months
I	3.4 + 6	1.1 + 3	5.6 + 3	2.0 + 4	3.7 + 4	7.4 + 4	1.5 + 5
IIA	8.5 + 7	3.4 + 4	1.5 + 5	4.9 + 5	8.8 + 5	1.7 + 6	3.2 + 6
IIB	1.0 + 7	4.0 + 3	1.8 + 4	5.8 + 4	1.0 + 5	2.0 + 5	3.9 + 5
IIC	1.4 + 7	5.5 + 3	2.5 + 4	8.0 + 4	1.5 + 5	2.8 + 5	5.5 + 5
III	1.3 + 6	5.1 + 2	2.3 + 3	7.5 + 3	1.4 + 4	2.6 + 4	5.1 + 4
IV	6.1 + 6	2.3 + 3	1.1 + 4	3.5 + 4	6.4 + 4	1.3 + 5	2.5 + 5
V	3.0 + 7	1.2 + 4	5.5 + 4	1.7 + 5	3.2 + 5	6.1 + 5	1.2 + 6
VI	2.0 + 7	7.7 + 3	3.5 + 4	1.1 + 5	2.0 + 5	4.0 + 5	7.8 + 5
VII	4.3 + 7	1.6 + 4	7.5 + 4	2.5 + 5	4.5 + 5	8.8 + 5	1.7 + 6
VIII	9.0 + 4	3.7 + 1	1.6 + 2	5.2 + 2	9.5 + 2	1.8 + 3	3.5 + 3
IXA	1.2 + 6	5.0 + 2	2.2 + 3	7.0 + 3	1.3 + 4	2.4 + 4	4.6 + 4
IXB	2.5 + 1	NEGLIGIBLE					
X	1.1 + 1	NEGLIGIBLE					
XI	2.3 + 3	8.9 + 1	4.0 + 0	1.3 + 1	2.4 + 1	4.7 + 1	9.0 + 1
XII	1.2 + 7	5.0 + 3	2.2 + 4	7.0 + 4	1.3 + 5	2.4 + 5	4.6 + 5
XIIIA	6.1 + 3	2.3 + 0	1.1 + 1	3.5 + 1	6.4 + 1	1.3 + 2	2.5 + 2
XIIIB	1.0 + 1	NEGLIGIBLE					
XIV	1.2 + 6	5.0 + 2	2.2 + 3	7.0 + 3	1.3 + 4	2.4 + 4	4.6 + 4
XVA	6.6 + 4	2.7 + 1	1.2 + 2	3.8 + 2	6.9 + 2	1.3 + 3	2.6 + 3
XVB	3.8 + 3	1.5 + 0	6.8 + 0	2.2 + 1	3.9 + 1	2.0 + 2	3.9 + 2
XVI	2.3 + 3	8.9 + 1	4.0 + 0	1.3 + 1	2.4 + 1	4.7 + 1	9.0 + 1
XVII	3.0 + 7	1.2 + 4	5.5 + 4	1.7 + 5	3.2 + 5	6.1 + 5	1.2 + 6
XVIII	3.3 + 5	1.1 + 2	5.5 + 2	1.9 + 3	3.4 + 3	6.8 + 3	1.4 + 4
XIX	4.2 + 5	1.8 + 2	7.8 + 2	2.4 + 3	4.3 + 3	8.3 + 3	1.6 + 4
XX	3.8 + 3	1.5 + 0	6.8 + 0	2.2 + 1	3.9 + 1	7.6 + 1	1.5 + 2
XXI	1.0 + 4	4.0 + 0	1.8 + 1	5.8 + 1	1.0 + 2	2.0 + 2	3.9 + 2
XXII	0.5 + 0	NEGLIGIBLE					
XXIII	3.8 + 6	1.5 + 3	6.8 + 3	2.2 + 4	3.9 + 4	7.6 + 4	1.5 + 5
XXVII	1.0 + 1	NEGLIGIBLE					
XXIX	8.6 + 5	3.4 + 2	1.5 + 3	5.0 + 3	9.0 + 3	1.8 + 4	3.4 + 4
XXX	2.9 + 6	1.1 + 3	5.1 + 3	1.7 + 4	3.0 + 4	5.9 + 4	1.1 + 5

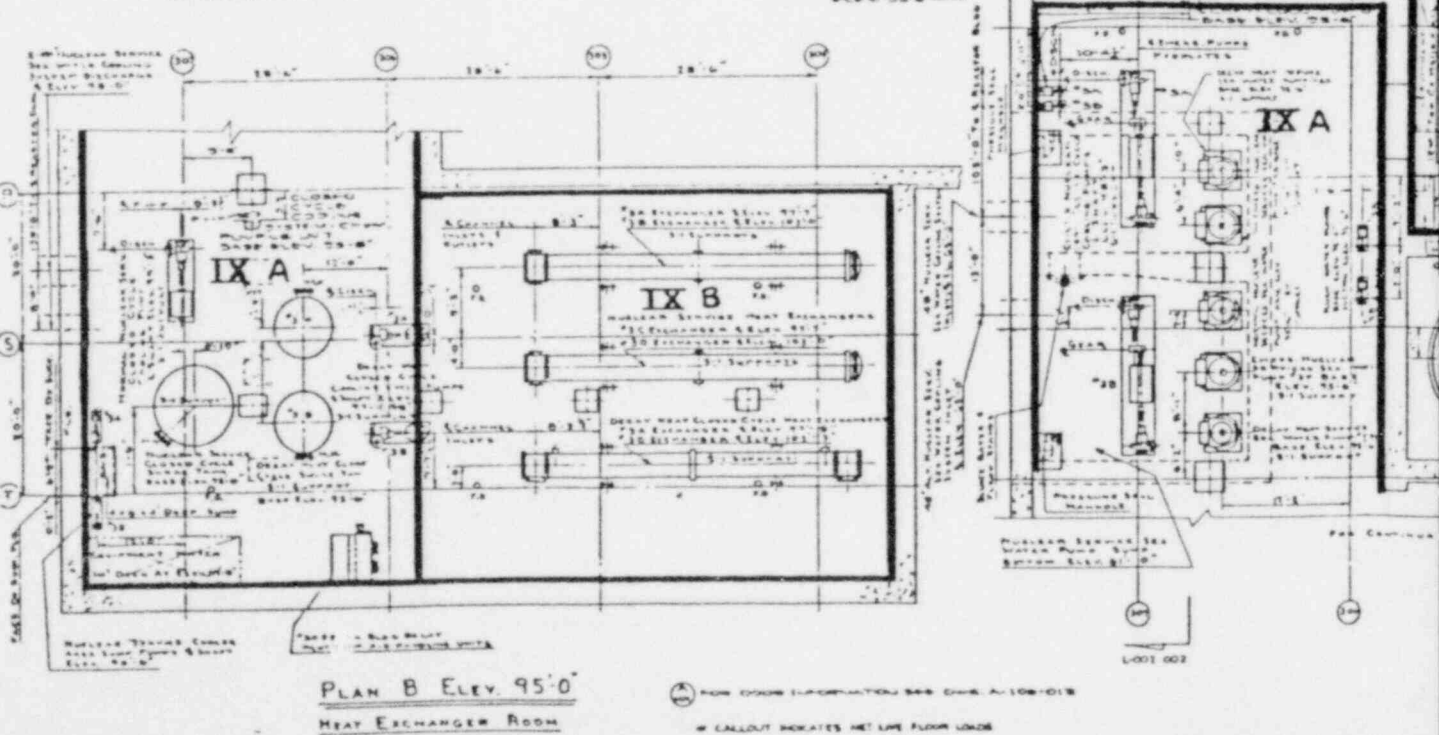
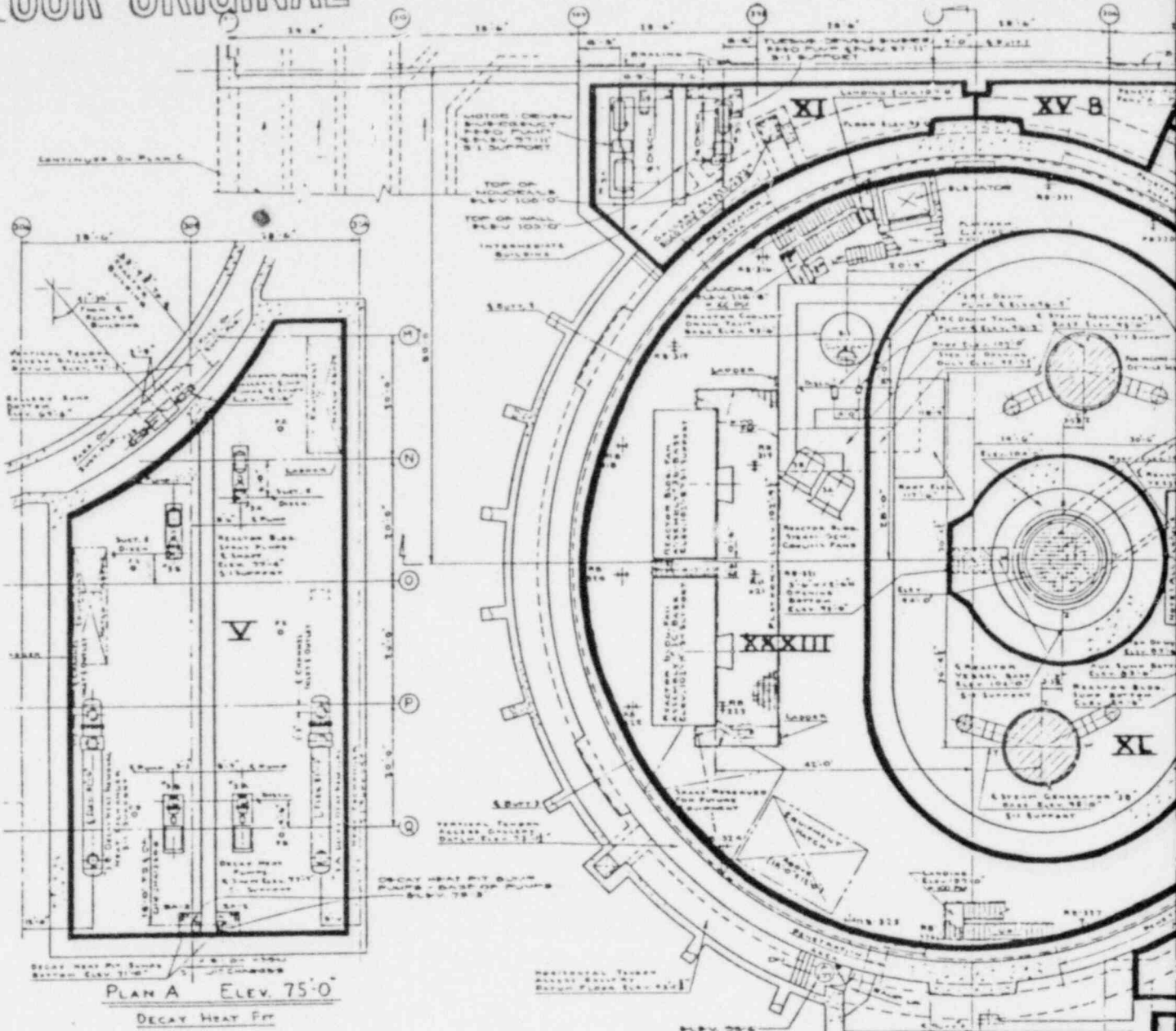
Table 4-2, Sheet 1 of 2

CR-3 6 Month Accident Dose (Rads) (Cont.)

Layout Region	Dose T=0 Rate (mr/hr)	Dose (Rads)					
		1 min.	1 hr.	1 day	5 days	30 days	6 months
XXXI	4.5 + 6	1.9 + 3	8.3 + 3	2.6 + 4	4.7 + 4	8.9 + 4	1.7 + 5
XXXII	4.1 + 3	1.7 + 0	7.4 + 0	2.4 + 1	4.3 + 1	8.2 + 1	1.6 + 2
XXXIII	2.0 + 8	7.7 + 4	3.5 + 5	1.1 + 6	2.1 + 6	4.0 + 6	7.8 + 6
XXXIV	2.0 + 8	7.7 + 4	3.5 + 5	1.1 + 6	2.1 + 6	4.0 + 6	7.8 + 6
XXXVI	NA	-	-	-	-	2.0 + 7	-
XXXVII	5.0 + 8	2.0 + 5	9.0 + 5	2.9 + 6	5.2 + 6	1.0 + 7	2.0 + 7
XXXVIII	2.0 + 8	7.7 + 4	3.5 + 5	1.1 + 6	2.1 + 6	4.0 + 6	7.8 + 6
XXXIX	1.1 + 8	4.5 + 4	2.0 + 5	6.4 + 5	1.1 + 6	2.2 + 6	4.3 + 6
XL	1.1 + 8	4.5 + 4	2.0 + 5	6.4 + 5	1.1 + 6	2.2 + 6	4.3 + 6

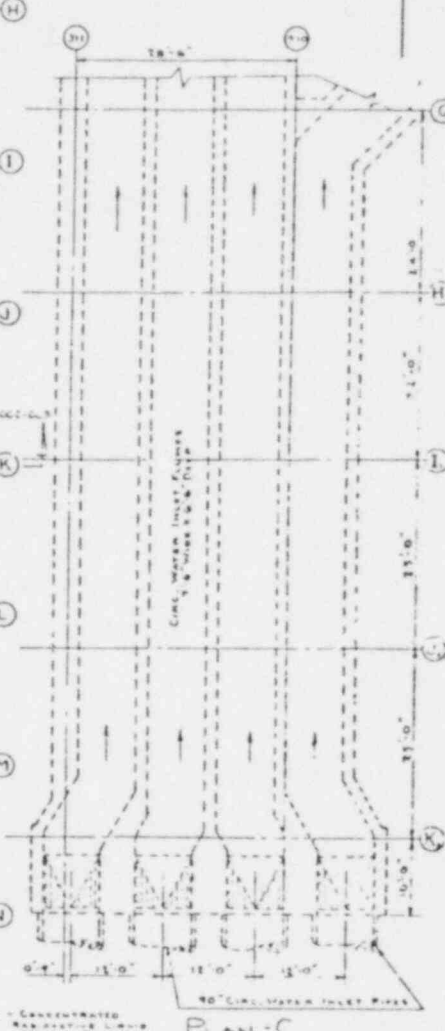
* < 100 Rads

POOR ORIGINAL



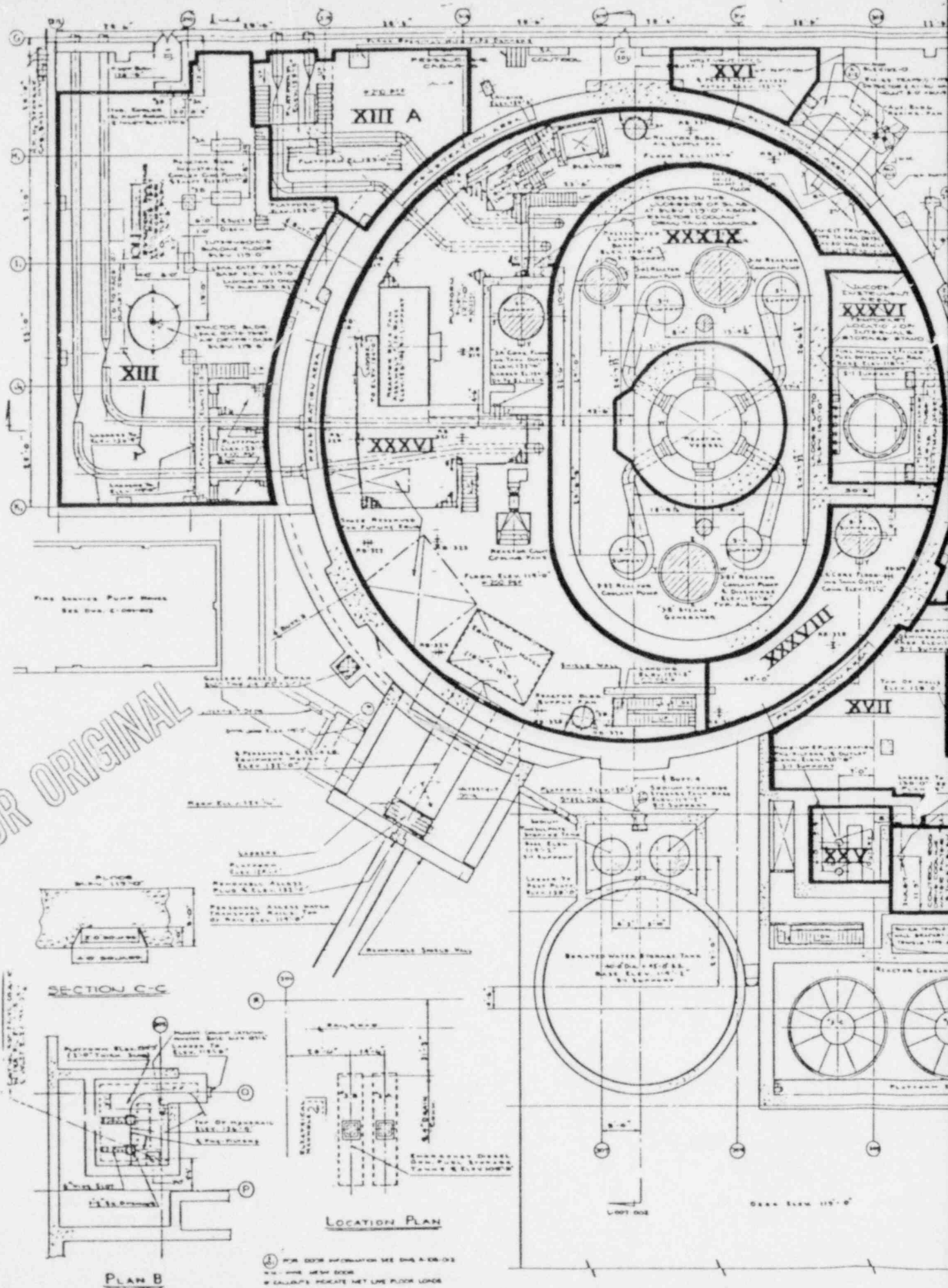
FOR OTHER INFORMATION SEE DRAWING A-100-0118
W/ CALLOUT INDICATES NET LIME FLOOR UNDER

A vertical number line with a tick mark labeled 'Z'.



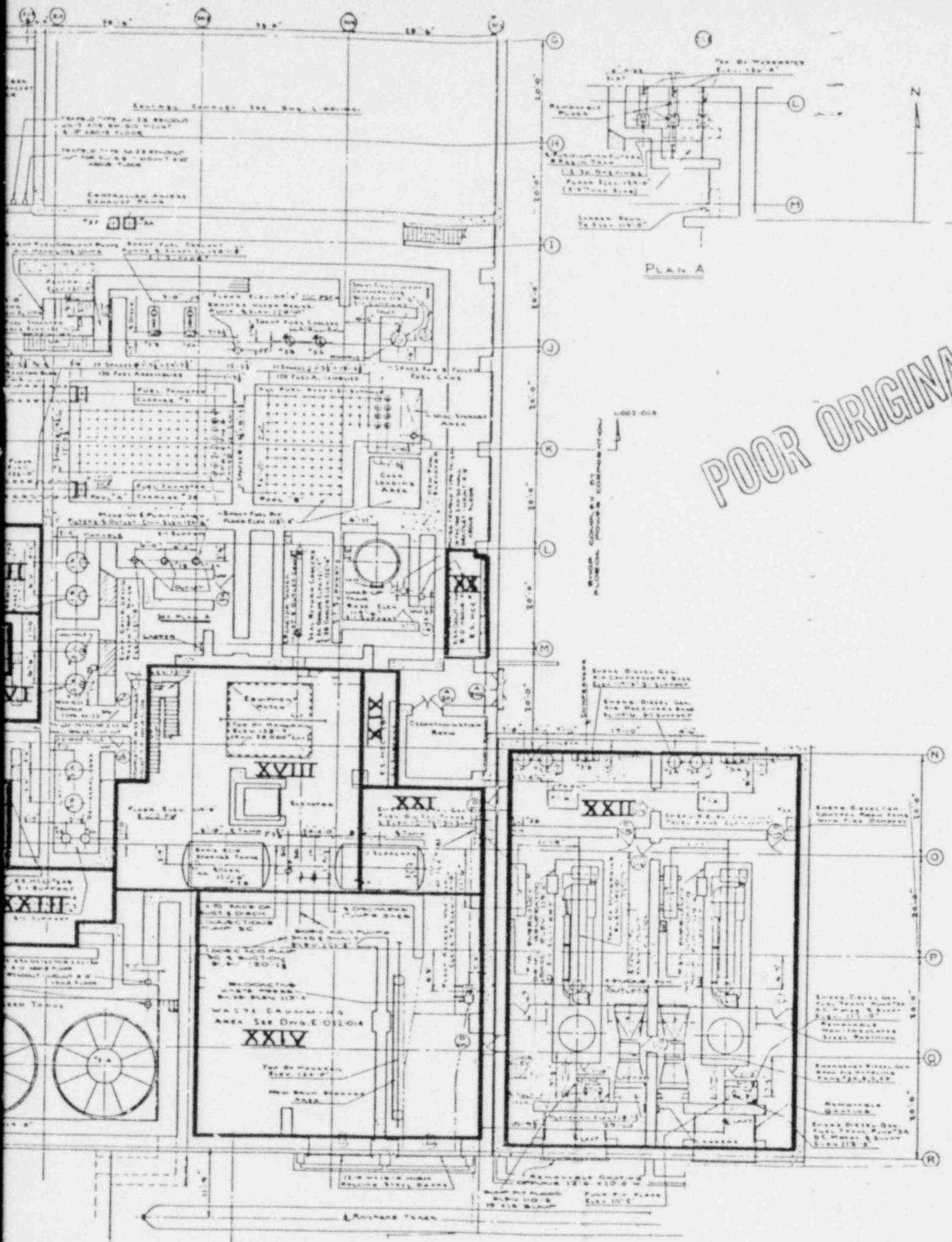
FLORIDA
POWER
CORPORATION

(DWG.NO. L-001-012)



PLAN B

FOR MORE INFORMATION SEE DWG. A-106-01
N.E. - 100% NET WT. 100%
W. CALLUPE. POKATE NET WGT. 100% 100%



MEZZANINE FLOOR ELEVATION 119'-0"
CRYSTAL RIVER UNIT 3

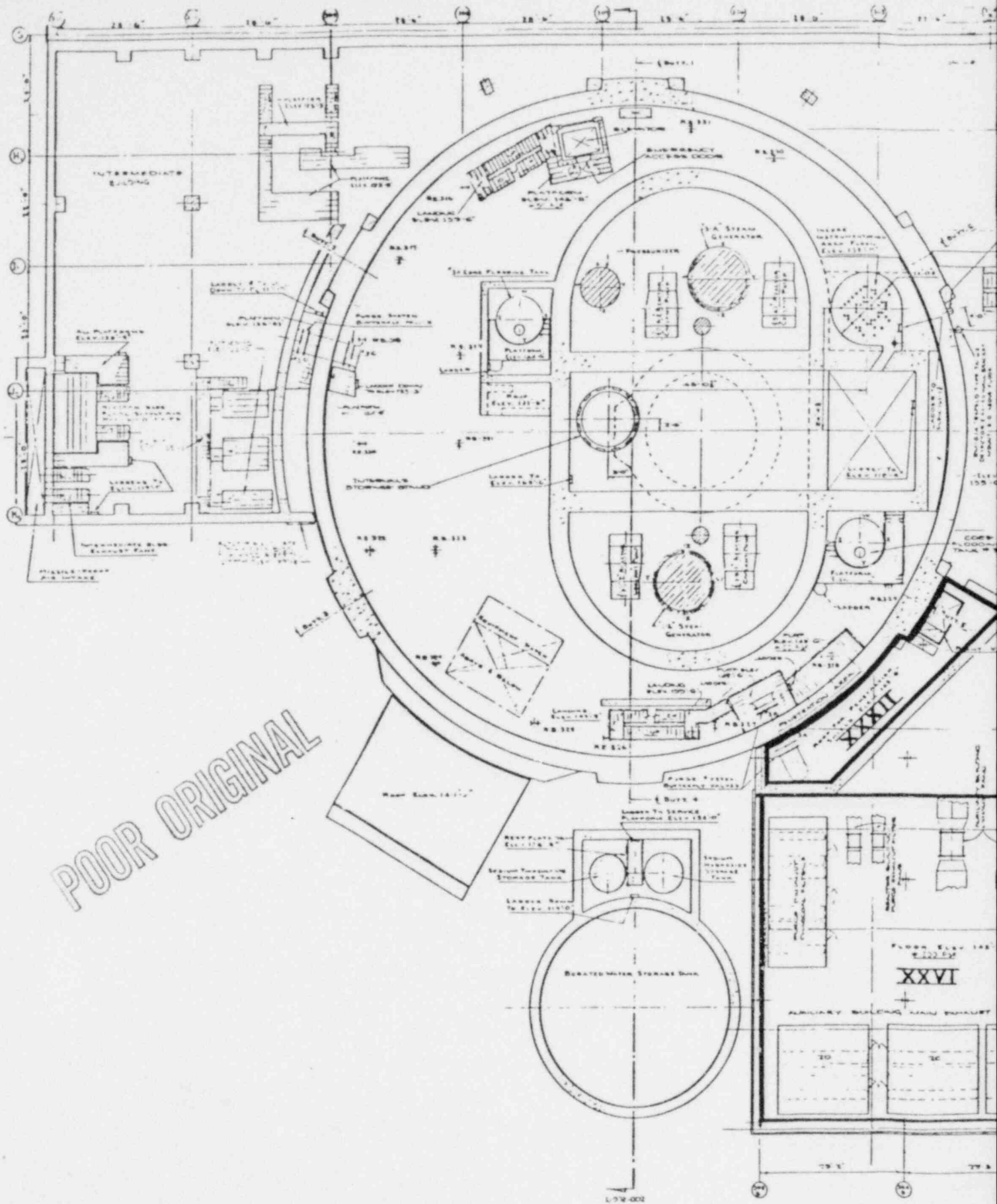


PULSED FIELD CORPORATION

FIGURE 4-2

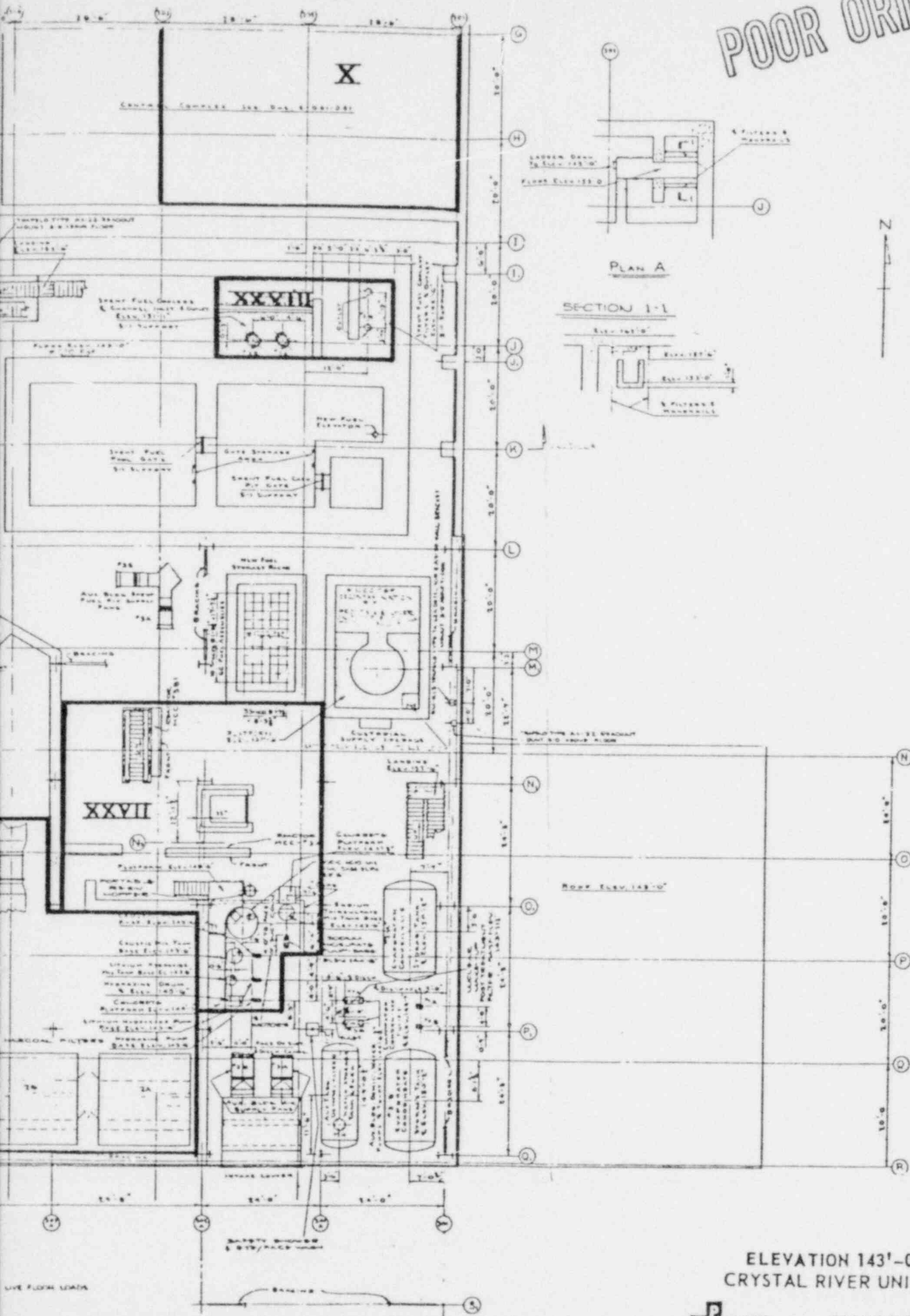
(AM. 48 1/76)

(DWG. NO. L-001-022)



POOR ORIGINAL

POOR ORIGINAL



ELEVATION 143'-0"
CRYSTAL RIVER UNIT 3

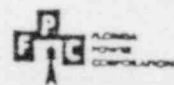
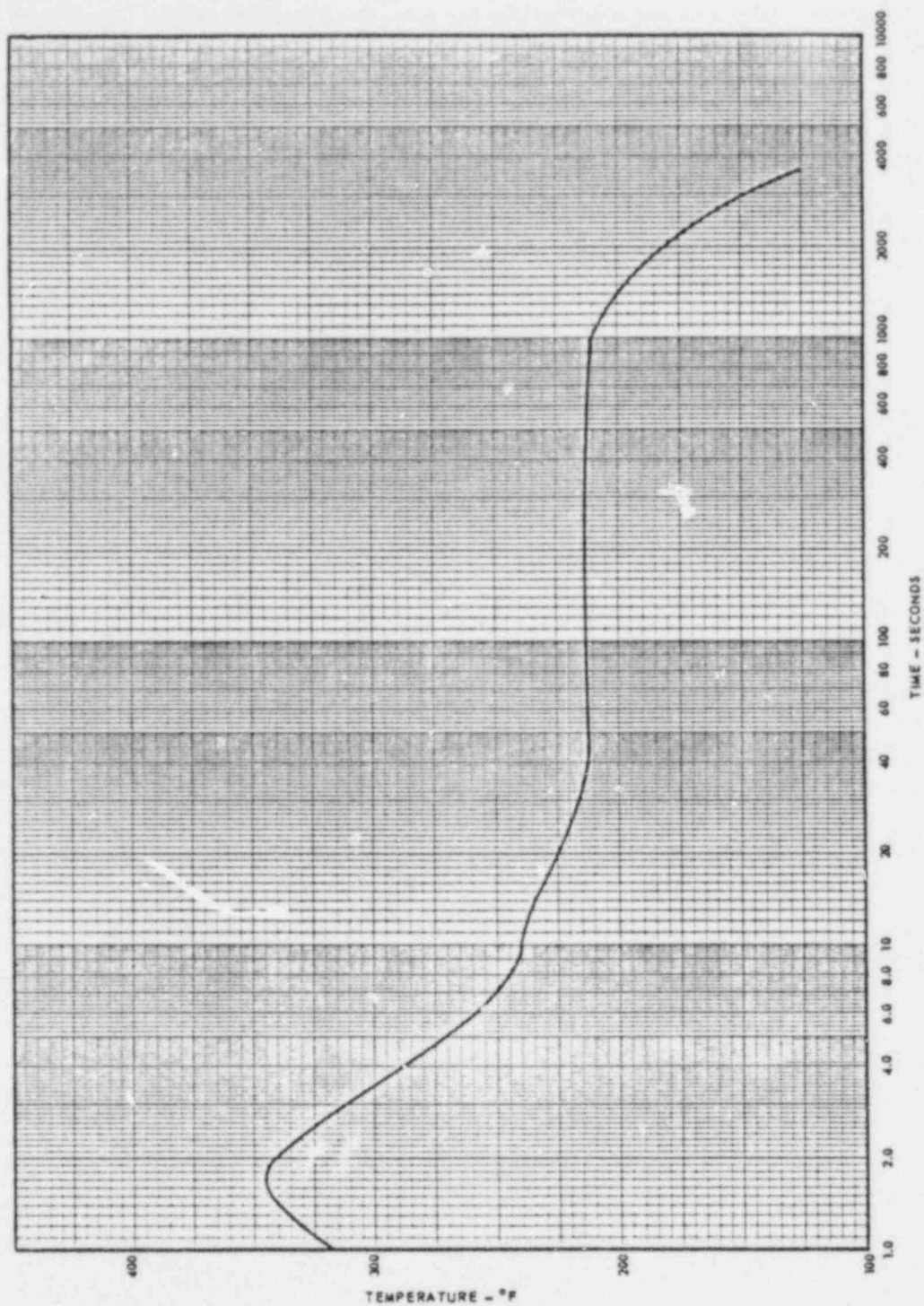


FIGURE 4-3
(AM. 48 1/76)

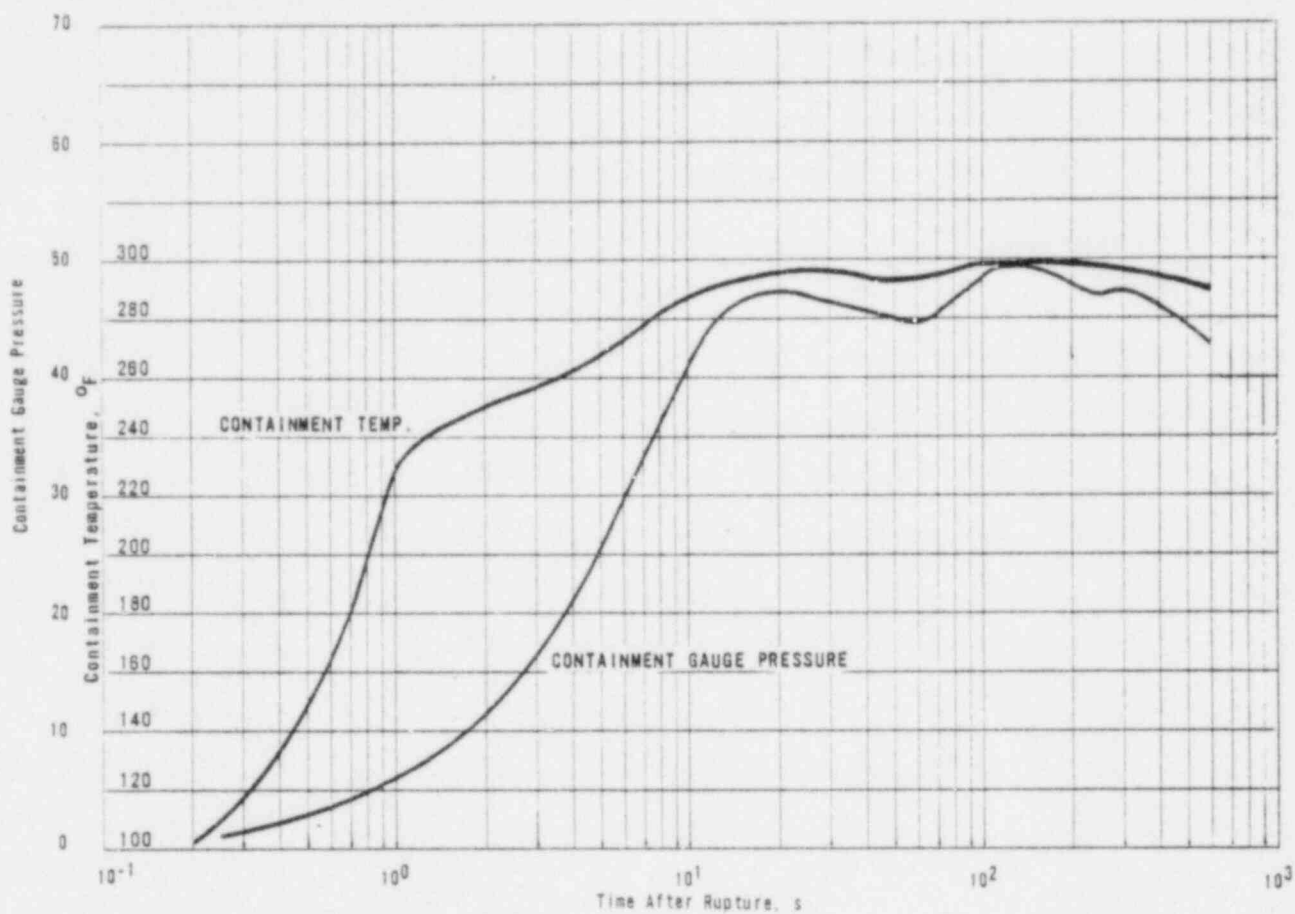
(DWG. NO. L-001-023)



INTERMEDIATE BLDG. TEMPERATURE
AFTER A MAIN STEAM RUPTURE
CRYSTAL RIVER UNIT 3



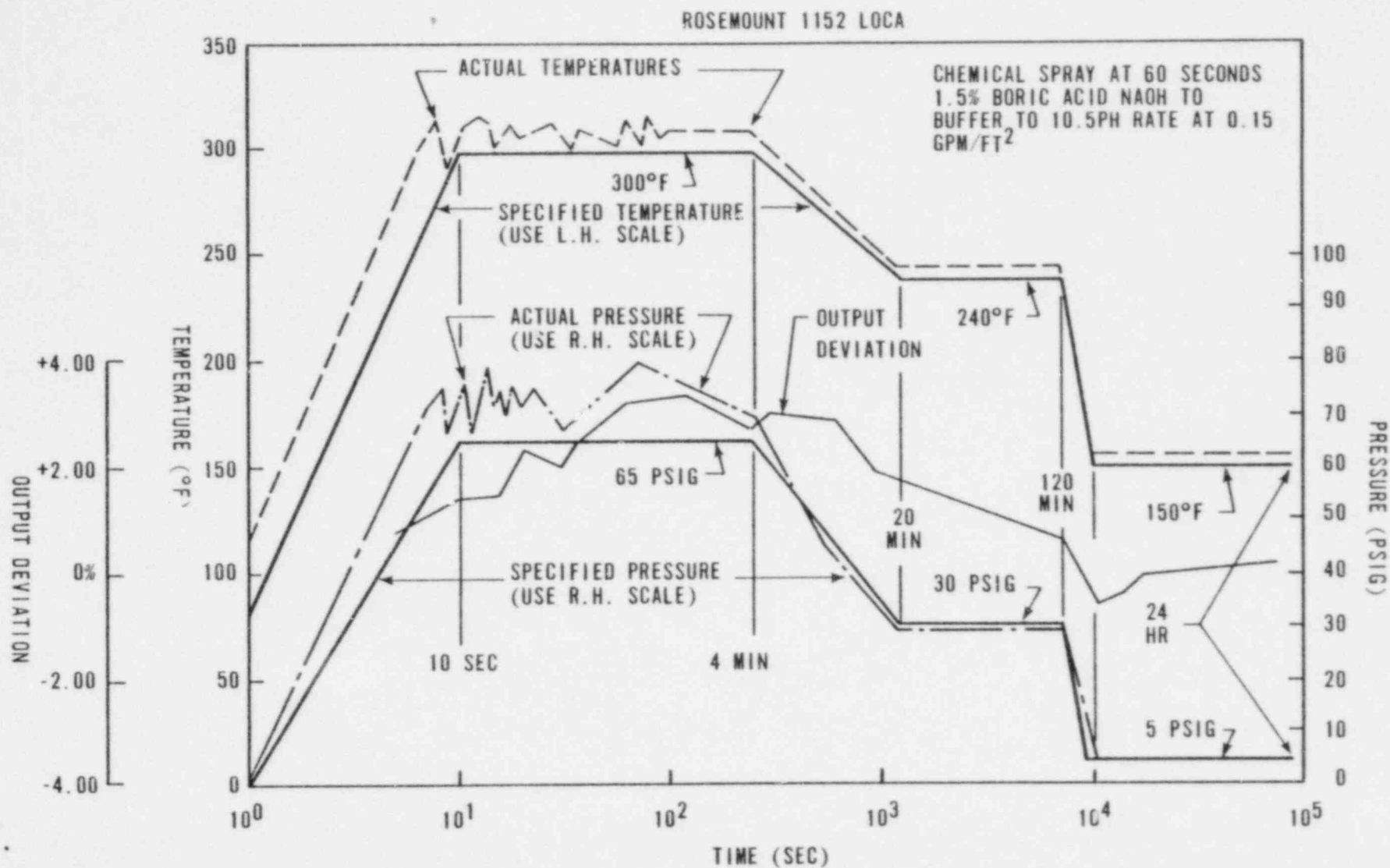
FIGURE 4 - 4



REACTOR BUILDING PRESSURE
VERSUS TIME FOR 7.0 FT²
COLD LEG BREAK (PUMP SUCTION)
CRYSTAL RIVER UNIT 3



FIGURE 4-5
(AM. 27 6-29-73)



TEMPERATURE AND PRESSURE PROFILES

FIGURE 4-6

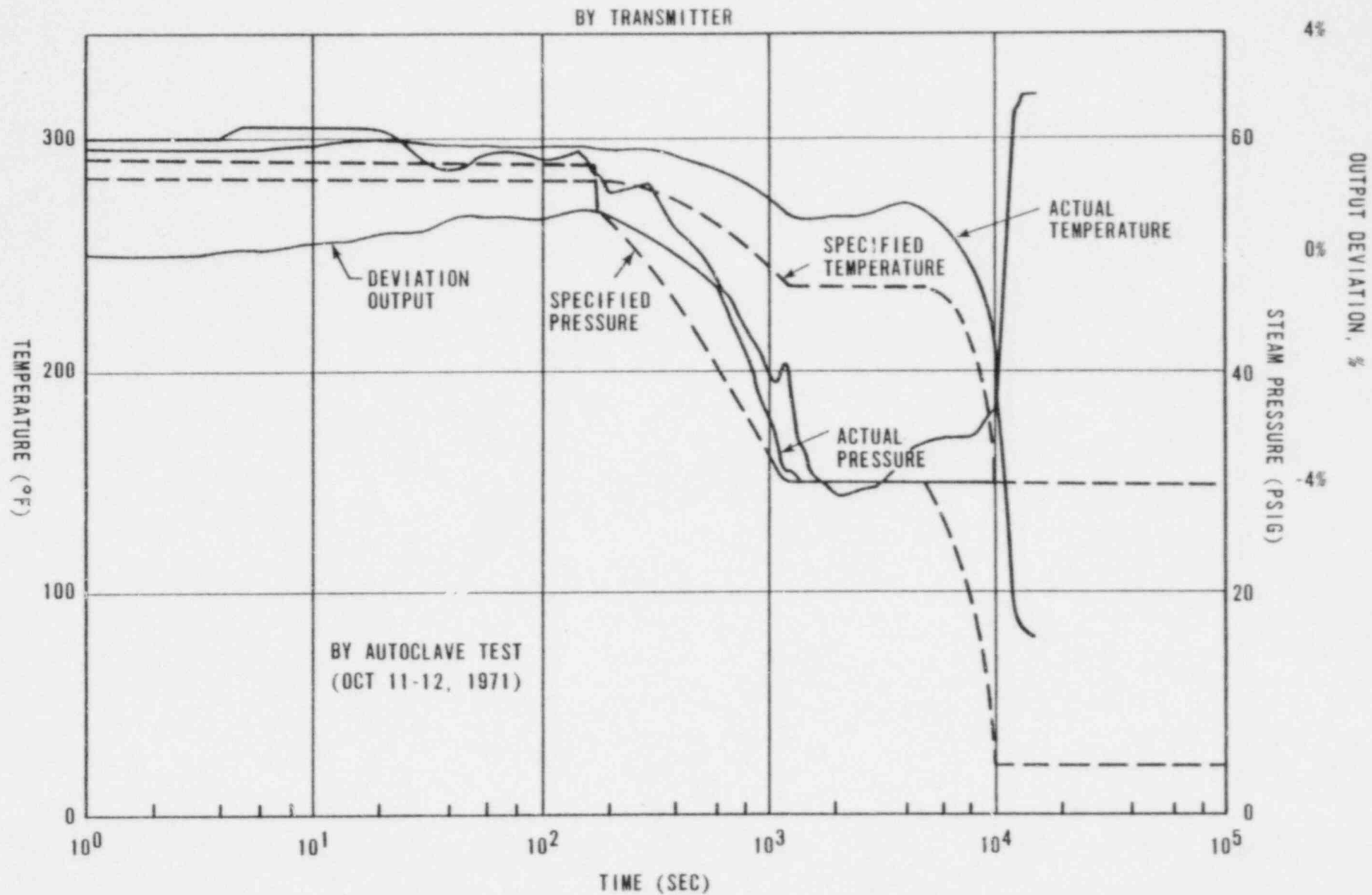
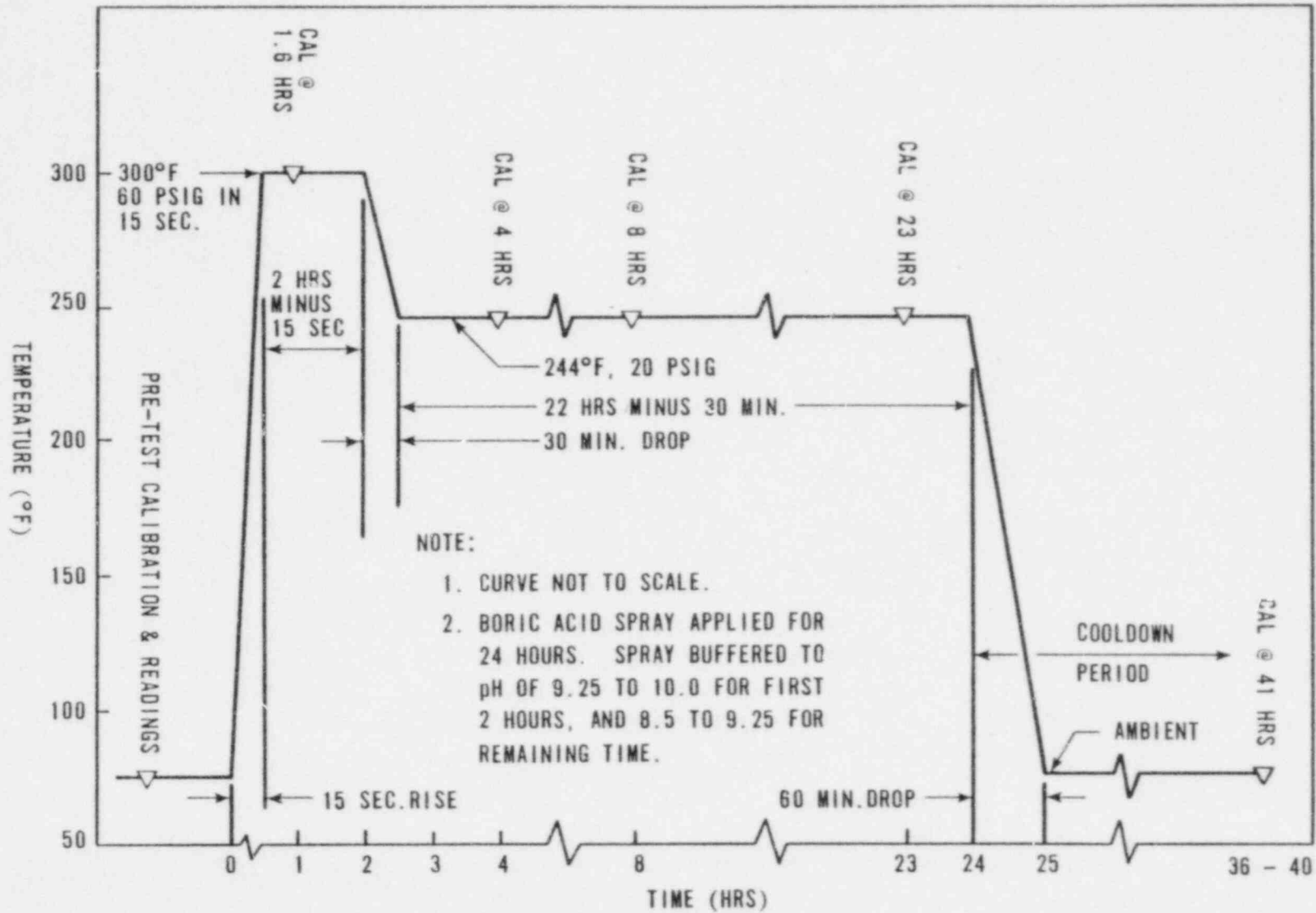


FIGURE 4-7

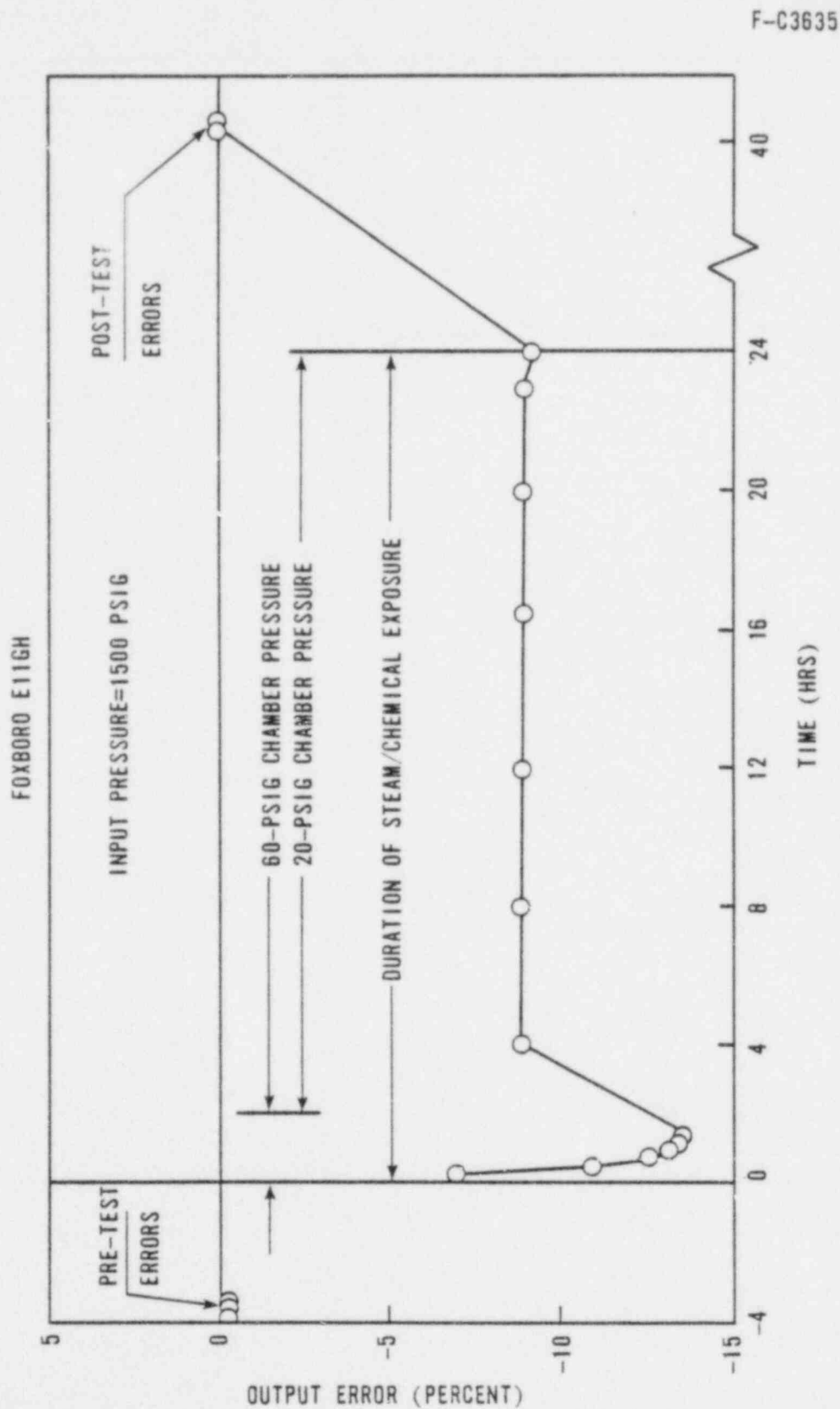
FOXBORO E11GH



F-C3635

SPECIFIED TEMPERATURE/PRESSURE PROFILE OF
STEAM/CHEMICAL-SPRAY EXPOSURE

FIGURE 4-8



TEST OUTPUT ERRORS FOR TRANSMITTER NO. 35
(MODEL E11GH)

LIMITORQUE TEST REPORT NO. B0003

TEMPERATURE PROFILE

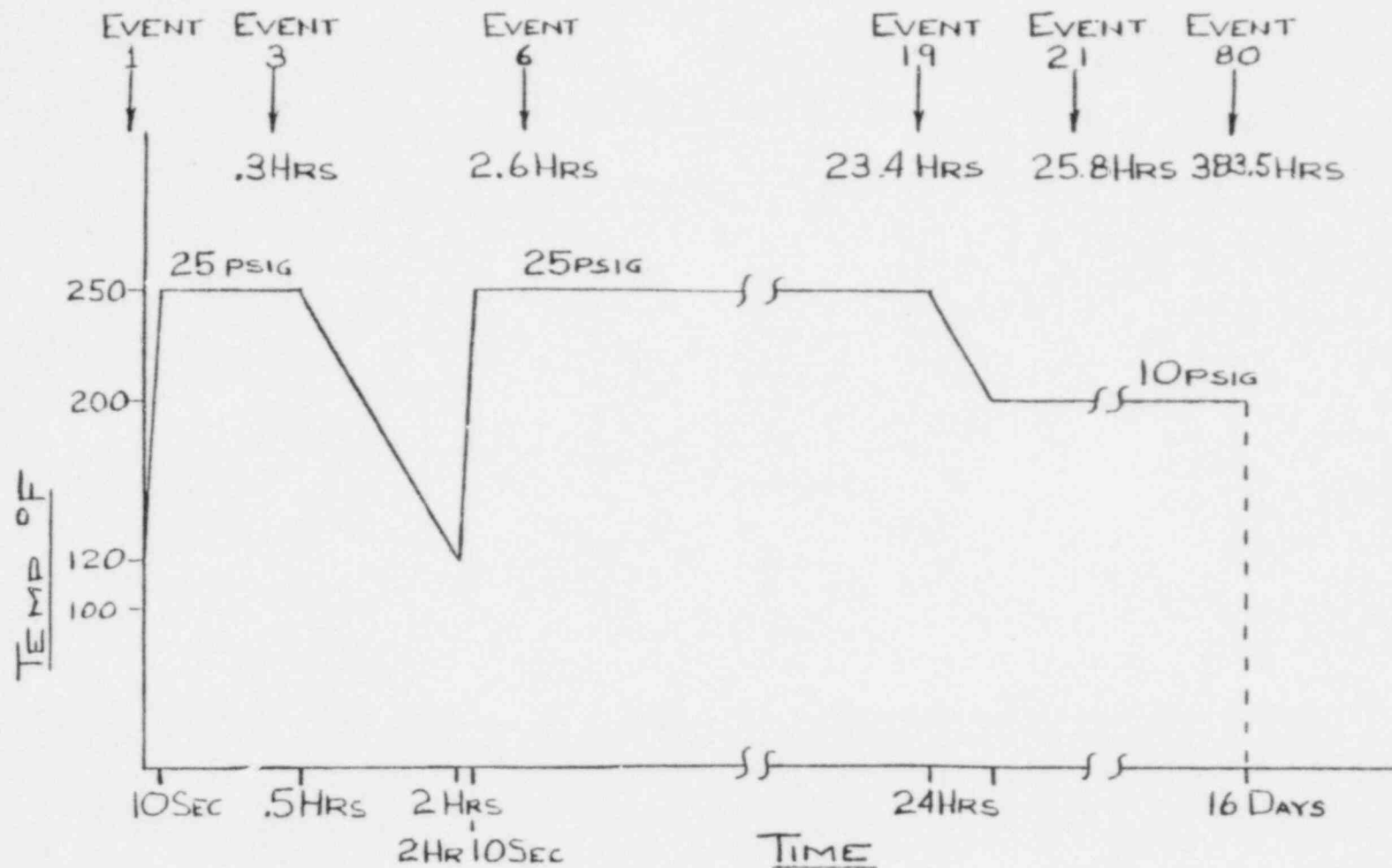


FIGURE 4-10

LIMITORQUE TEST REPORT NO. 600456

ACTUAL ACCIDENT PROFILE

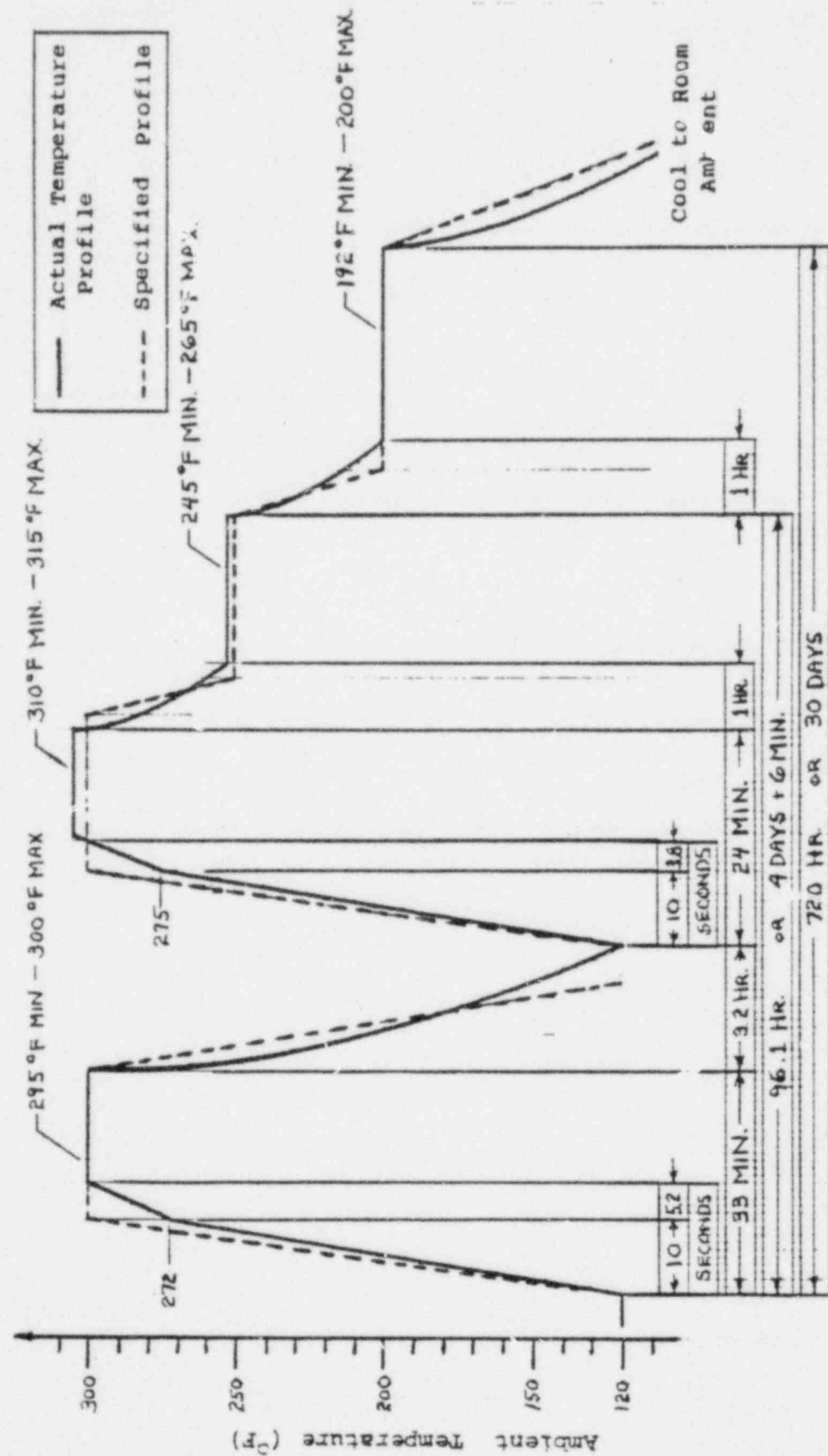


FIGURE 4-11

3/11/75 W.S.

LIMITORQUE TEST REPORT NO. 600456

Specified Accident Profile

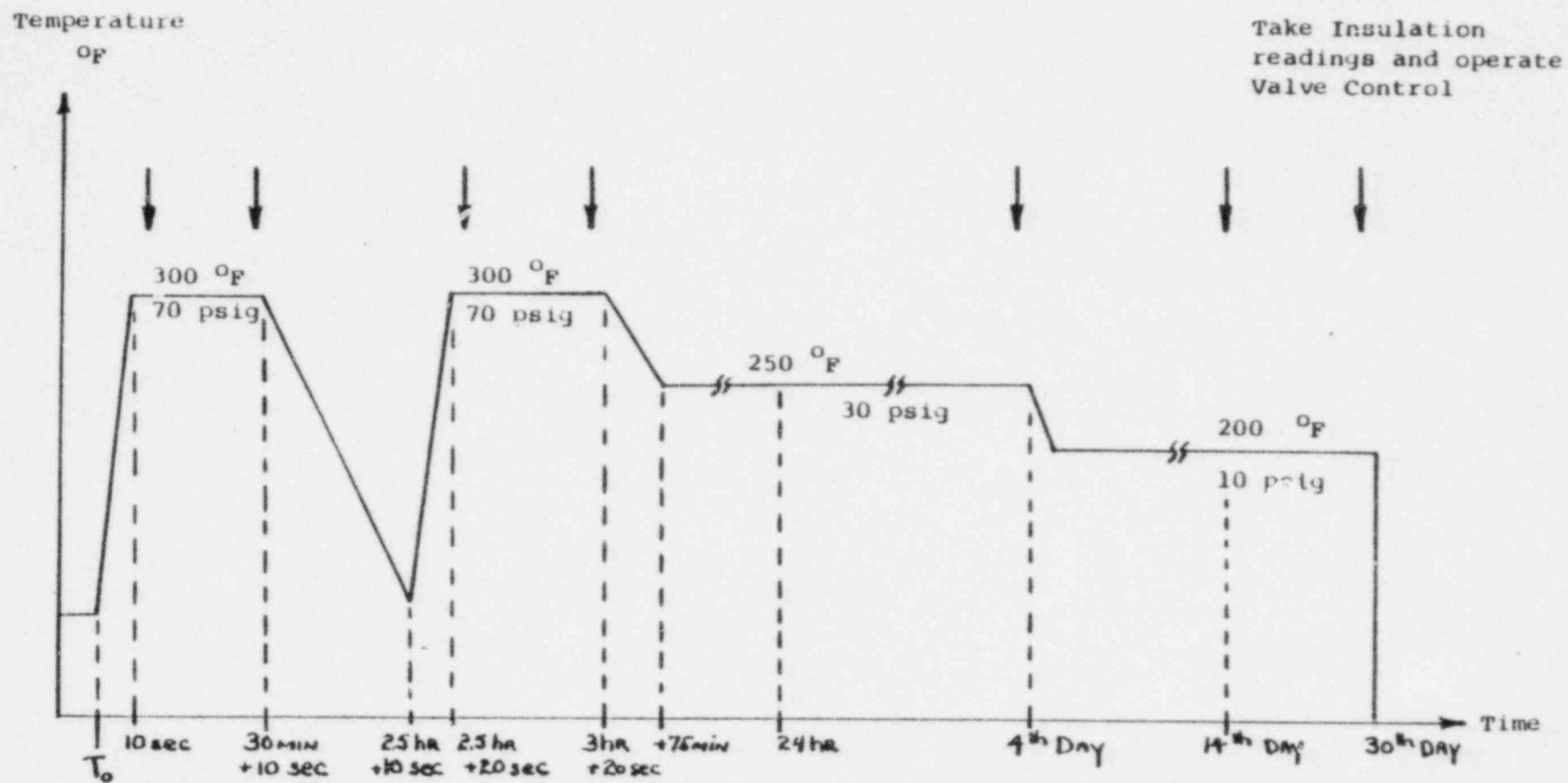
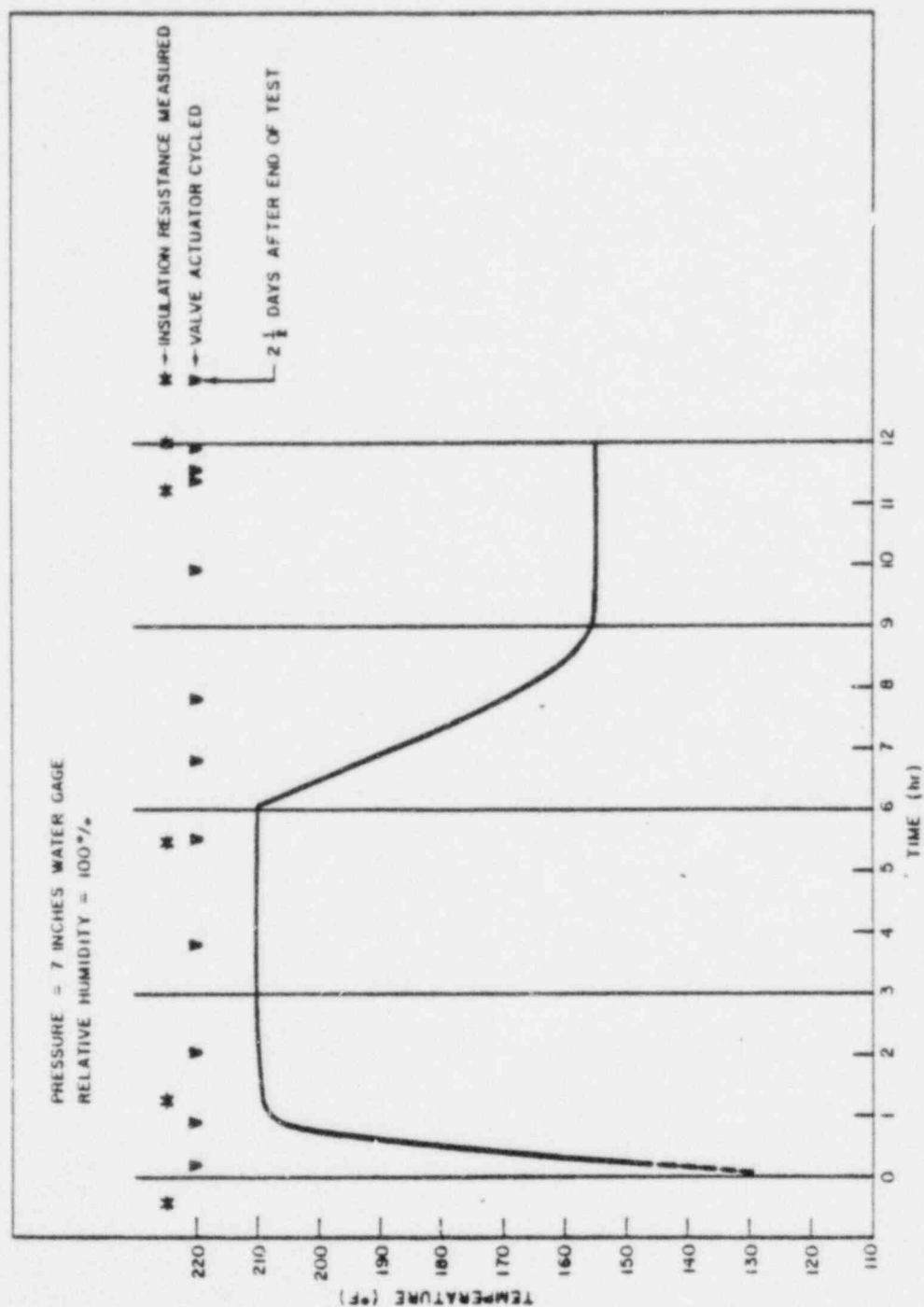
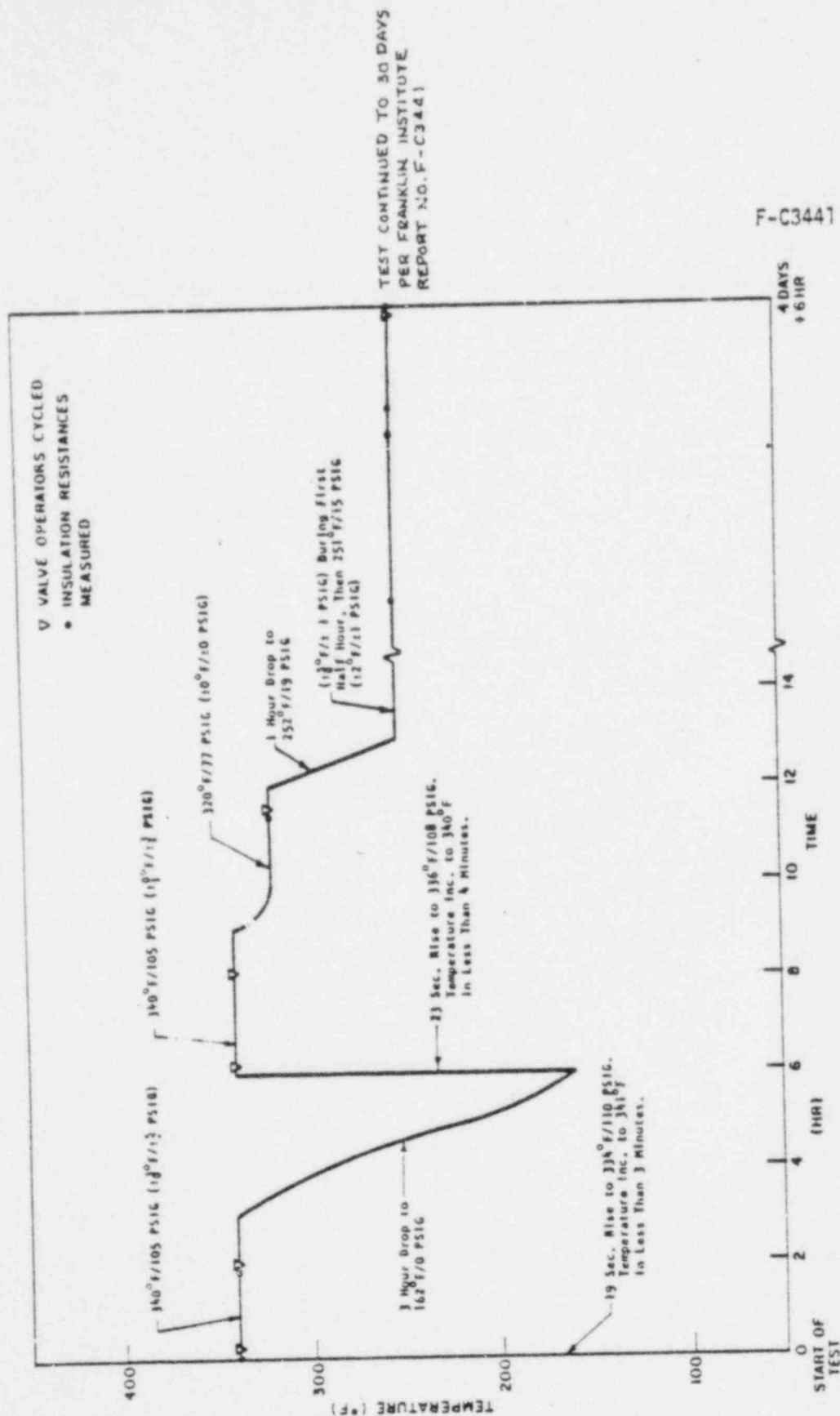


Figure 4-12

LIMITORQUE TEST REPORT NO. F-C3271



Test Profile FIGURE 4-13



Actual Steam Exposure Profile

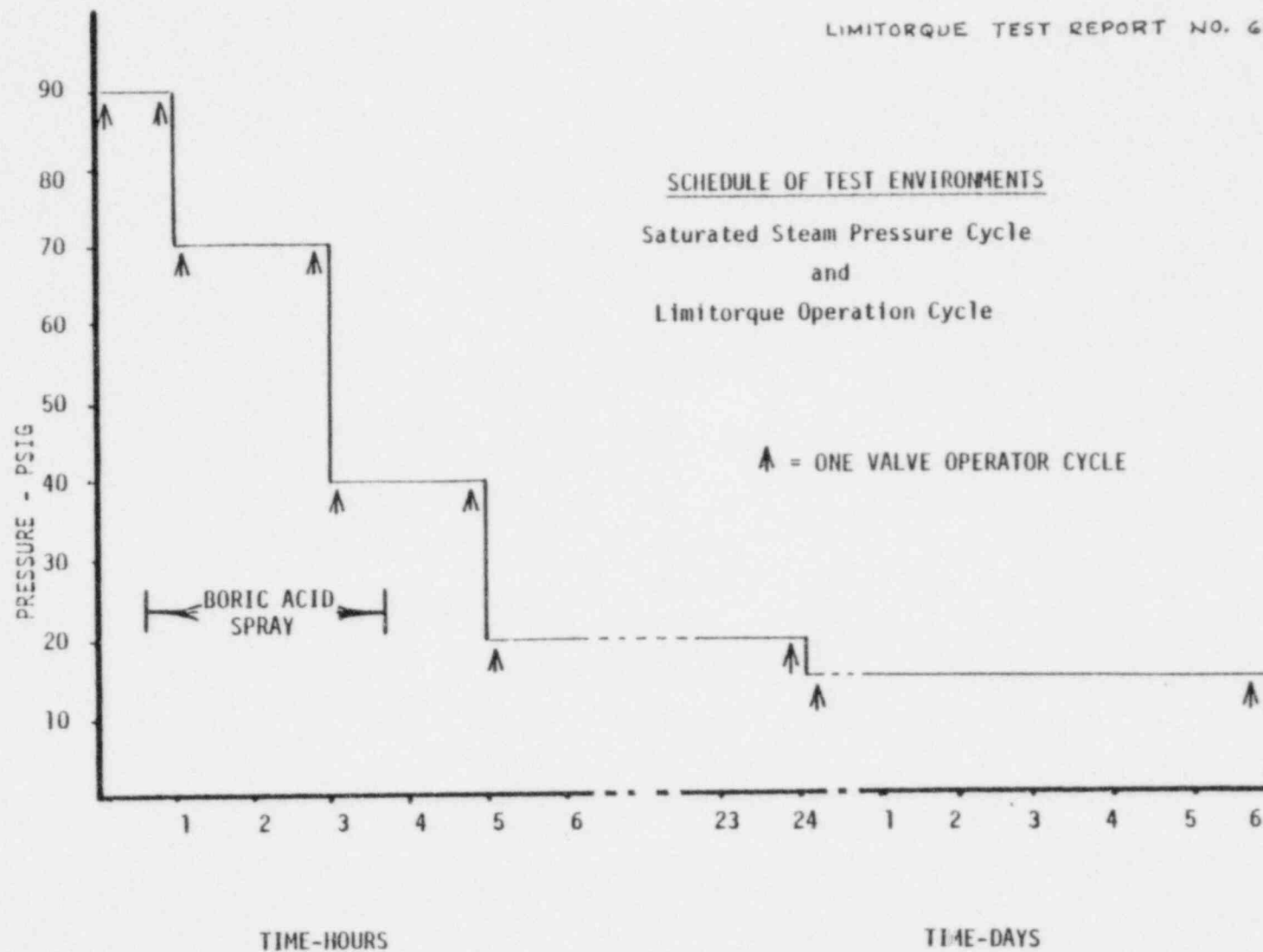
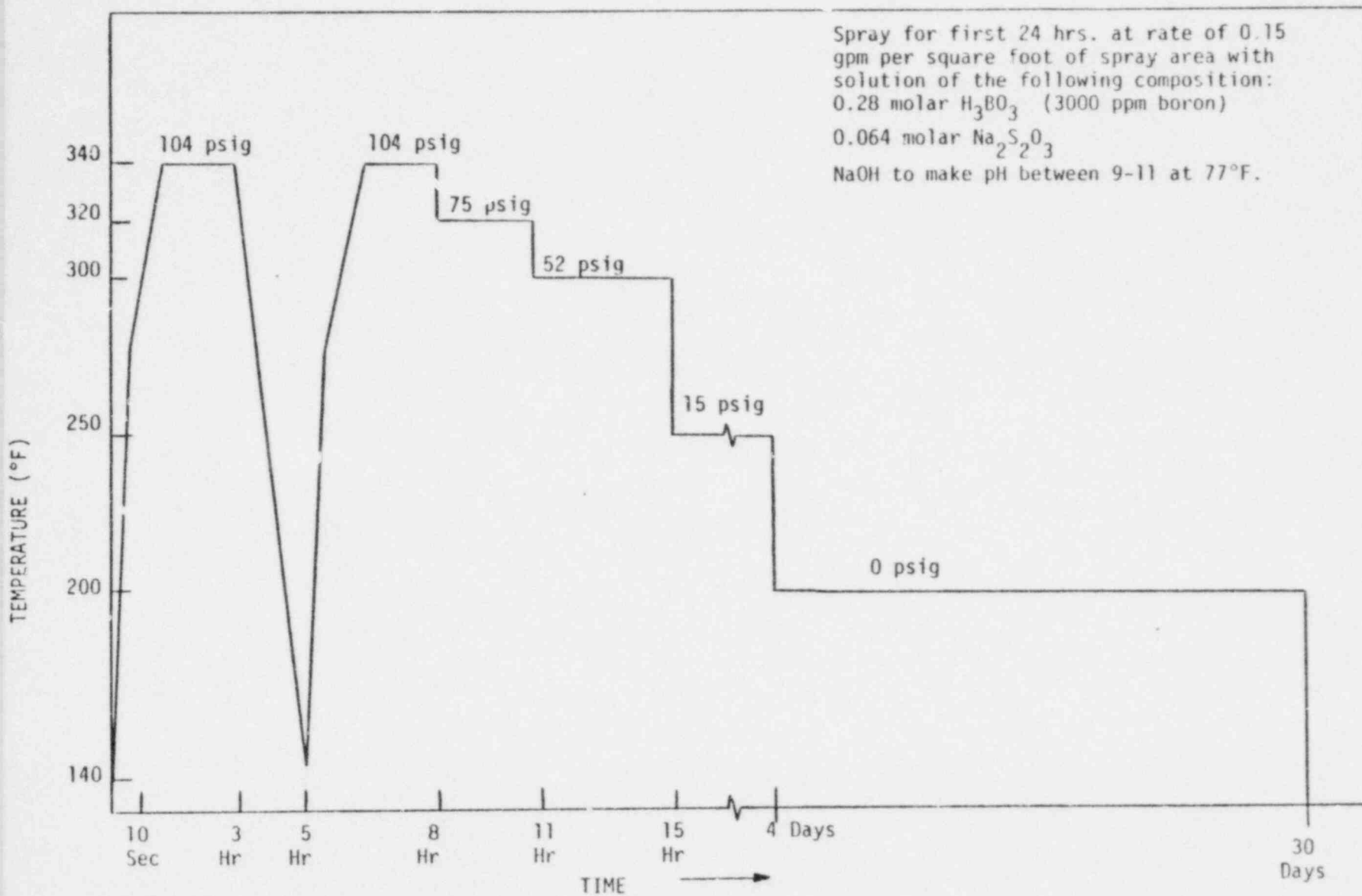


FIGURE 4-15

LOCA Profile

ROCKBESTOS CO. TEST REPORT DATED 3/2/78



LOCA PROFILE

7.

FIGURE 4-16

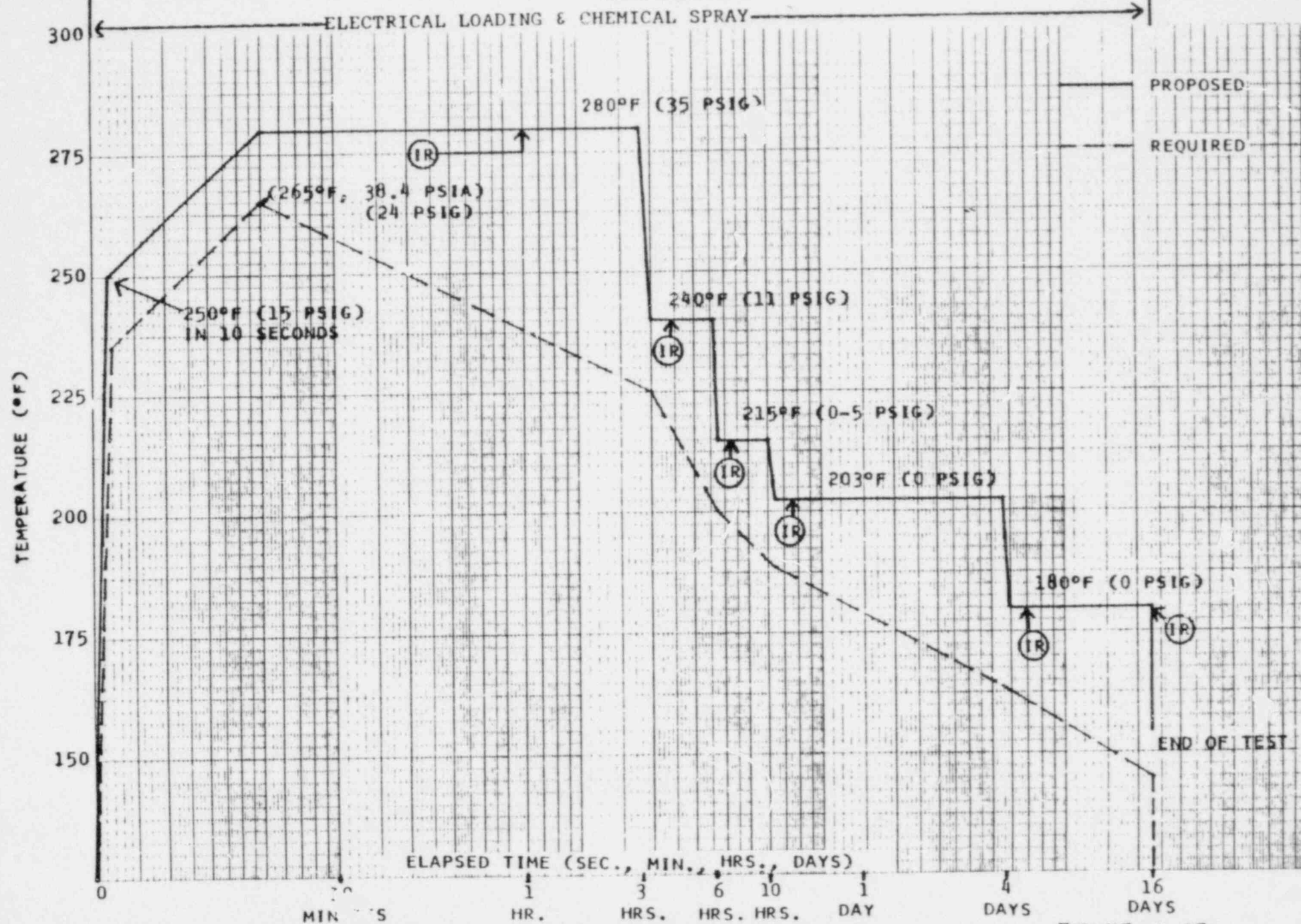


FIGURE 4-17