

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8201260255 DOC DATE: 82/01/14 NOTARIZED: NO DOCKET #. 05000397
 FACIL: 50-397 NPPSS Nuclear Project, Unit 2, Washington Public Powe
 AUTH. NAME: BOUCHEY, E.D. AUTHOR AFFILIATION: Washington Public Power Supply System
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2
see bpt *3 vols*

SUBJECT: Forwards facility response to NUREG-0588, Environ. Equipment Qualification Rept. Rept. will be incorporated into amend to FSAR.

DISTRIBUTION CODE: A0489 COPIES RECEIVED: LTR 1 ENCL 10 SIZE: 14425
 TITLE: Equipment Qualification (OR & PRE-OLD)

NOTES: 2 copies all in mail: P.M. *on Shelf* 05000397

ACTION:	RECIPIENT			COPIES		RECIPIENT	COPIES		
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				5	6	AULUCK, R.	01.	1	1
INTERNAL:	ELD		20	1.	1	GC	21.	1	1
	IEI		18	3.	3	NRR. WILLIAMS	06.	1	1
	NRR/DEVEQ3		07.	5.	5	NRR/DI. DIR.	22.	1	1
	NRR/OSI/AEB			1.	1	<u>REGI FILE</u>	04	1	1
EXTERNAL:	ACRS		23.	16	16	LPOR	03.	1	1
	NRCI POR		02	1.	1	NSIC	05.	1	1
	NTIS			1.	1				

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Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397
January 14, 1982
G02-82-38

Mr. A. Schwencer, Director
Licensing Branch WNP-2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington D. C. 20555

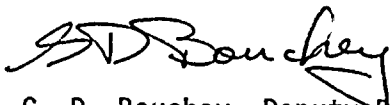
Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT

Reference: Letter, D. F. Ross (NRC) to Operating License
Applicants, "Qualification of Safety-Related Electrical
Equipment", February 21, 1980

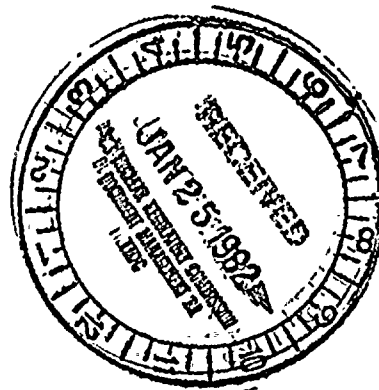
Enclosed are ten (10) copies of the WNP-2 NUREG-0588, Environmental
Equipment Qualification Report. This report will be incorporated into
an amendment to the WNP-2 FSAR.

Very truly yours,



G. D. Bouchey, Deputy Director
Safety and Security

cc: R Auluck NRC
WS Chin BPA
R Feil NRC



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WNP-2 NUREG 0588 ENVIRONMENTAL EQUIPMENT QUALIFICATION REPORT

Volume 2

January 1982

Washington Public Power Supply System
Richland, Washington 99352





WASHINGTON PUBLIC UTILITY POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

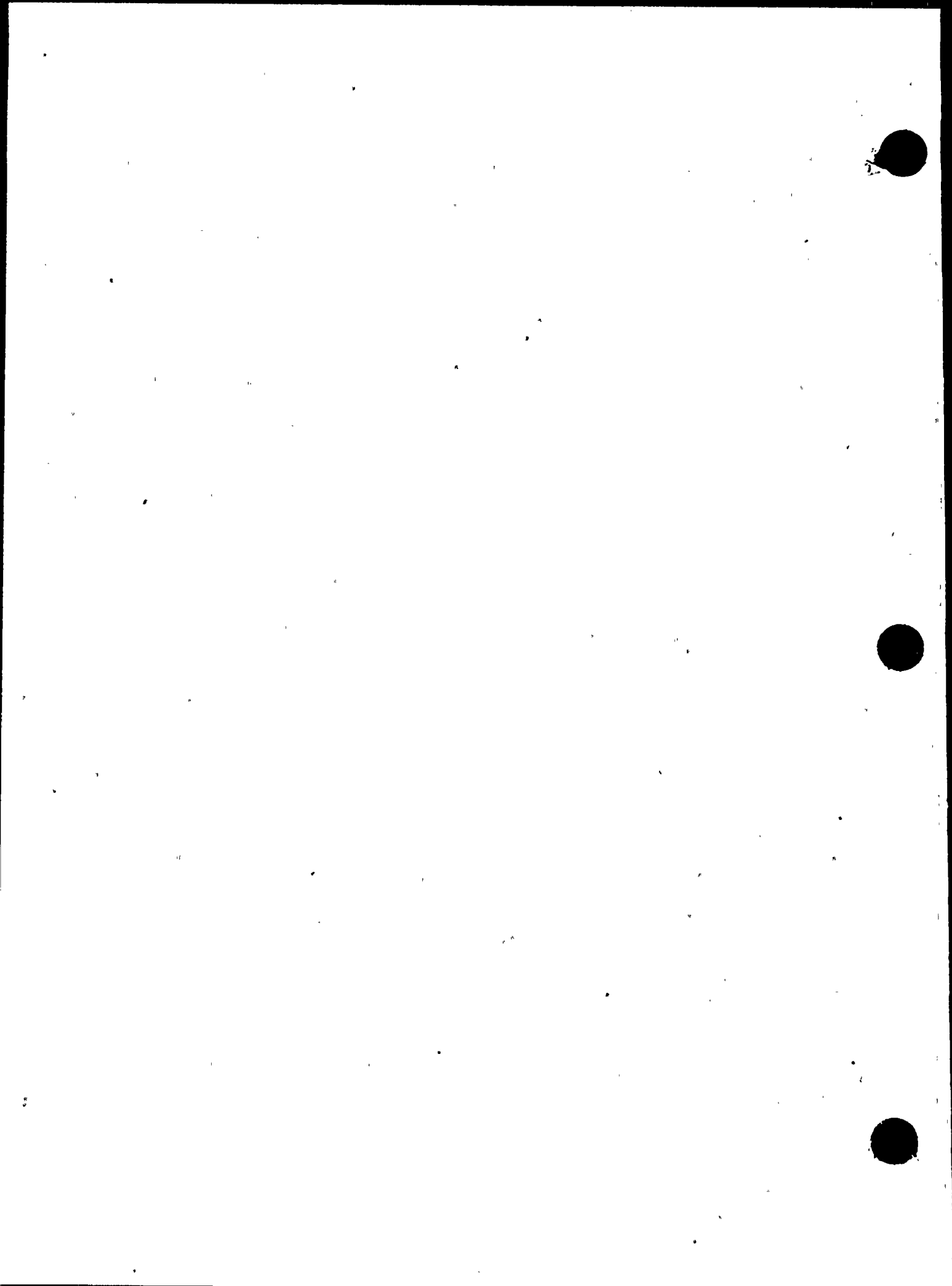


OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-71

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER (Note 2) MANUFACTURER Bailey MODEL NUMBER (Note 2) COMPONENT Electronic Power Supply FUNCTION/SERVICE Power Supply LOCATION: BLDG R ELEVATION 572 COLUMN (Note 2)	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	6.6 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572F				1. The vendor is currently testing 6 and 10 amp power supplies to the standards of IEEE 323-1974, with test completion scheduled for June 1982. When testing is completed, applicability of the test results to the installed components will be evaluated. Requalification will be initiated if the test results cannot be shown to apply to the installed components.			





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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)																				
	<table><tr><td>2.</td><td><u>Tag Number</u></td><td><u>Model Number</u></td><td><u>Column</u></td></tr><tr><td></td><td>CAC-E/S-1A24</td><td>9T66Y987</td><td>H6/6.5</td></tr><tr><td></td><td>CAC-E/S-1A43</td><td>298</td><td>H6/6.5</td></tr><tr><td></td><td>CAC-E/S-1B24</td><td>9T66Y987</td><td>H6/8.0</td></tr><tr><td></td><td>CAC-E/S-1B43</td><td></td><td>H6/7.2</td></tr></table>	2.	<u>Tag Number</u>	<u>Model Number</u>	<u>Column</u>		CAC-E/S-1A24	9T66Y987	H6/6.5		CAC-E/S-1A43	298	H6/6.5		CAC-E/S-1B24	9T66Y987	H6/8.0		CAC-E/S-1B43		H6/7.2
2.	<u>Tag Number</u>	<u>Model Number</u>	<u>Column</u>																		
	CAC-E/S-1A24	9T66Y987	H6/6.5																		
	CAC-E/S-1A43	298	H6/6.5																		
	CAC-E/S-1B24	9T66Y987	H6/8.0																		
	CAC-E/S-1B43		H6/7.2																		

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-EHC-1A, B MANUFACTURER Chromalox MODEL NUMBER SA213-T347 S.S. COMPONENT Heater FUNCTION/SERVICE Preheater for HR-1A LOCATION: BLDG R ELEVATION 572 COLUMN M7/6.6, M7/7.4	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	4,5	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 80 max abnormal 100 max accident	100%	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	6.6×10^6	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	5	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>John Baker</u> Reviewed by: <u>Mr. P. J. Griffin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572F 4. Westinghouse Test Report WCAP 7709-L, Supplements 1-7 5. EDS Problem File #0740-004-AAD4				Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-EHO-Note 1 MANUFACTURER ITT-General Controls MODEL NUMBER NH91 & NH95 COMPONENT Electro-Hydraulic Operator FUNCTION/SERVICE Operate FCV (3 phase) LOCATION: BLDG R ELEVATION 572 COLUMN M5/6.6 M5/7.4	OPERATING TIME	4320 hours	2400 hours	5	3	Simultaneous Test	Note 2
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	150	1	3	Simultaneous Test	Note 2
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100	1	3	Simultaneous Test	Note 2
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.68×10^6	3.9×10^7	2	3	Sequential Test	Note 2
	AGING	40 years	10.6 years	1	3, 4	Sequential Test Engineering Analysis	Note 3
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared By: <u>Ann Seiler</u> Reviewed By: <u>J. L. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 311 2. EDS Study 0740-004-572F 3. MCC Powers #377-80.010 with Appendices A-D. 4. Calculation QID 110001 5. WNP-2 Class 1E Equipment List, dated 12/16/81				1. CAC-EHO-1A -1A/FCV -1B -1B/FCV -2A -2A/FCV -2B -2B/FCV -3A CAC-EHO-3A/FCV -3B -3B/FCV -4A -4A/FCV -4B -4B/FCV -5A/FCV -5B/FCV CAC-EHO-6A/FCV -6B/FCV			



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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<ol style="list-style-type: none">2. Applicability of the test data and discrepancies in the testing procedures are being resolved with the vendor (letter G02-81-0531).3. The component will be requalified on a schedule based on the calculated life and manufacturer's recommendation.

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SYSTEM Containment Atmospheric Control TAG NUMBER CAC-PIC-67A,B MANUFACTURER Bailey MODEL NUMBER 50-701003AAAA1 COMPONENT Flow Indicating Controller FUNCTION/SERVICE PIC for CAC-FCV-6A,B LOCATION: BLDG R ELEVATION 572 COLUMN H5/6.6 H5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 105 Max Abnormal 150 Max Accident.		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572D				1. The vendor is currently testing Model Number 701 and 740 controllers to the standards of IEEE 323-1974, with test completion scheduled for June 1982. When testing is completed, applicability of the test results to the installed components will be evaluated. Requalification will be initiated if the test results cannot be shown to apply to the installed components.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-FS-6A,B MANUFACTURER Moore MODEL NUMBER DCA/4-20MA/D-X2-X3 COMPONENT Flow Switch FUNCTION/SERVICE Flow Switch for CAC-FCA-6A,B LOCATION: BLDG R ELEVATION 572 COLUMN M2/5.7 M5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90° Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D				1. Qualification documentation is being obtained for these components.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-FT-1A, -3A -1B, -3B -2A, -4A -2B, -4B MANUFACTURER Rosemount MODEL NUMBER 1151 COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 501, 548 COLUMN H.8/5.8, H.7/8.2, H.8/5.5, L.4/9.3, H.6/5.1	OPERATING TIME	6 months	6 months	5	3,4	Engineering Analysis Separate Effects	Note 1
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 accident	300 max	1	3	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	1		Separate Effects	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	1.04×10^5	2×10^6	2	4	Separate Effects	None
	AGING	40 years	Note 2	1	N/A	Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chir</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548P 3. Rosemount Report 97215A dated 2/9/72 4. Rosemount Report 127227 dated 12/27/72 5. WNP-2 Class 1E Equipment List dated 12/16/81 6. Rosemount Product Data Sheet 2256 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment specification data ensure the component will operate 6 months at the required temperatures. 2. A preventive maintenance/surveillance program is being developed to address aging of Class 1E equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-FT-5A CAC-FT-5B MANUFACTURER Barton MODEL NUMBER 386 COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 578 COLUMN M.5/6.6 M.5/7.4	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY			2			None
	RADIATION (RAD)	6.6 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. P. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-FT-6A, B -7A, B MANUFACTURER ITT Barton MODEL NUMBER 386 COMPONENT Differential Pressure Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572' COLUMN M.5/6.6 M.5/7.4	OPERATING TIME	6 months	6 months	5	3, 4	Simultaneous Test Operating Experience	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	288	1	3	Simultaneous Test Operating Experience	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.6 x 10 ⁶	2 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	6.5 years	1	4	Operating Experience	Note 1
	ACCURACY		±12%		3		
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Ann Seiken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report No. 0740-004-572H 3. Westinghouse Test Report NCAP 7410-L, dated 12/70, Volume I of II 4. EDS Problem File 0740-004-AAD7 5. WNP-2 Class 1E Equipment List, 12/16/81				1. A preventive maintenance/surveillance program is being implemented to extend the qualified life.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-LS-1A,B MANUFACTURER Moore MODEL NUMBER DCA/4-20MA/D-X1-X4 COMPONENT Level Switch FUNCTION/SERVICE Level Indicating Switch for CAC-MS-1A,B LOCATION: BLDG R ELEVATION 572 COLUMN M2/5.7 M5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D				1. Qualification documentation is being obtained for these components.			

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SYSTEM Containment Atmosphere Control TAG NUMBER CAC-LT-1A, B MANUFACTURER ITT Barton MODEL NUMBER 386 COMPONENT Differential Pressure Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572' COLUMN H.5/6.6 H.5/7.4	OPERATING TIME	6 months	6 months	5	3, 4	Simultaneous Test Operating Experience	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	288	1	3	Simultaneous Test Operating Experience	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.6×10^6	2×10^7	2	3	Sequential Test	None
	AGING	40 years	6.5 years	1	4	Operating Experience	Note 1
	ACCURACY		±12%		3		
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Alan Seiden</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report No. 0740-004-572H 3. Westinghouse Test Report WCAP 7410-L, dated 12/70, Volume I of II 4. EDS Problem File 0740-004-AAD7 5. WNP-2 Class 1E Equipment List, 12/16/81				1. A preventive maintenance/surveillance program is being implemented to extend the qualified life.			

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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
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SYSTEM Containment Atmospheric Control TAG NUMBER CAC-M-1A, B MANUFACTURER Westinghouse MODEL NUMBER Style No. 75D42473 COMPONENT Fan Motor FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572 COLUMN M.5/7.0	OPERATING TIME	6 months	6 months	1	5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	4	Simultaneous Test Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	6.6×10^6	9.4×10^6	3	5	Engineering Analysis	None
	AGING	40 years	40 years	2	5	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Shelley B. [Signature]</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Para. 3.11 3. EDS Report 0740-004-572F 4. Letter from J. Courtin (Westinghouse) dated April 3, 1981, with attachments 5. EDS Problem File #0740-004-AAD10				Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-MO-11, -2 -13, -4 -15, -6 -17, -8 MANUFACTURER Limatorque MODEL NUMBER SMB-000 COMPONENT Motor Operator FUNCTION/SERVICE Operate CAC Valves LOCATION: BLDG R ELEVATION 471, 548, 572 COLUMN M/6, J/7.4, M.2/7.8, M.8/4.3, M5/6.5, J8/6.8, M2/7.1, L9/5	OPERATING TIME	4320 hours	Equivalent of 52284 hours at 150°F	5	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.7x10 ⁶	1x10 ⁷	2	3	Sequential Test	None
	AGING	40 years	40 years+	1	3,4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond E. Smith</u> Reviewed by: <u>M. J. Arvin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471E (worst case) 3. Limatorque Report B0009, 4/30/76 4. Applicability calculations in QID221011 5. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			



FIGURE 1
TEMPERATURE PROFILE OF ENVIRONMENTAL TEST

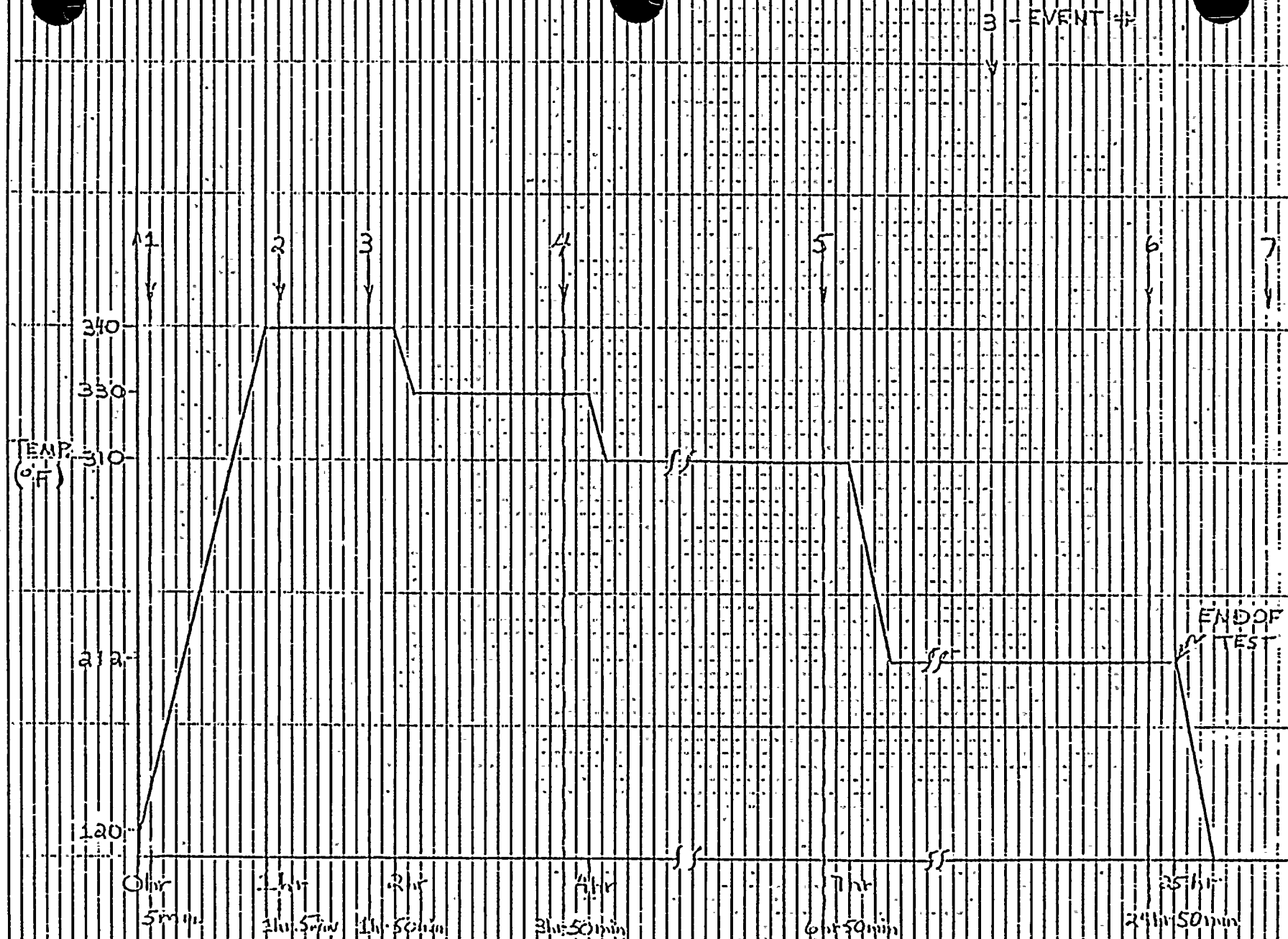


FIGURE 1



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-PS-68A,B MANUFACTURER Moore MODEL NUMBER DCA/4-20MA/D-X2-X3 COMPONENT Pressure Switch FUNCTION/SERVICE Pressure Switch to moisture separator 1A,B LOCATION: BLDG R ELEVATION 572 COLUMN H2/5.7 H5/8,0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class-1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D				1. Qualification documentation is being obtained for these components.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-PT-1A CAC-PT-1B MANUFACTURER Barton MODEL NUMBER 386 COMPONENT Pressure Transmitter FUNCTION/SERVICE Pressure Transmitter for CAC Fans LOCATION: BLDG R ELEVATION 572, 575 COLUMN M.5/6.6 M.5/7.4	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	6.6 x 10 ⁶		3			None
	AGING	40 years		1			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81. 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-PT-68A, B MANUFACTURER ITT Barton MODEL NUMBER 386 COMPONENT Differential Pressure Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572' COLUMN H.5/7.4 H.5/6.6	OPERATING TIME	6 months	6 months	5	3, 4	Simultaneous Test Operating Experience	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	288	1	3	Simultaneous Test Operating Experience	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.6 x 10 ⁶	2 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	6.5 years	1	4	Operating Experience	Note 1
	ACCURACY		±12%		3		
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Lyman Chi</u> Reviewed by: <u>W. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report No. 0740-004-572H 3. Westinghouse Test Report WCAP 7410-L, dated 12/70, Volume I of II 4. EDS Problem File 0740-004-AAD7 5. WNP-2 Class 1E Equipment List, 12/16/81				1. A preventive maintenance/surveillance program is being implemented to extend the qualified life.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-R/I-4A,B MANUFACTURER Bailey MODEL NUMBER 50-740320CAAA1 COMPONENT Resistance/Current Convertor FUNCTION/SERVICE Current Reset on CAC-IIR-1A and Hydrogen Recombiner Outlet Temperature LOCATION: BLDG R ELEVATION 572 COLUMN H2/5.7 H5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4 x 10 ⁴		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JON 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572D				1. The vendor is currently testing Model Number 701 and 740 controllers to the standards of IEEE 323-1974, with test completion scheduled for June 1982. When testing is completed, applicability of the test results to the installed components will be evaluated. Requalification will be initiated if the test results cannot be shown to apply to the installed components.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-RLY-CR5A, B -CR6A, B MANUFACTURER Agastat MODEL NUMBER 7012AD, AH COMPONENT Relay FUNCTION/SERVICE Relays for CAC Recombiner LOCATION: BLDG R ELEVATION 572 COLUMN M.6/6.5 M.4/8.0	OPERATING TIME	4320 hours	Equivalent to 4320 hours at 150°F	4	2,5	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 107 max accident	150	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 90 max accident	95	1	2	Sequential Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4	1×10^7	3	2		None
	AGING	40 years	Note.1	1	N/A	Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Ch</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. MCC Powers Report 734-79.002, 9/3/79 3. EDS Study 0740-004-572D, H 4. WNP-2 Class 1E Equipment List dated 12/16/81 5. QID No. 338002				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-RLY-1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B MANUFACTURER ASEA MODEL NUMBER RA225-052-CP COMPONENT Relay FUNCTION/SERVICE Control relays for CAC-FCV's LOCATION: BLDG R ELEVATION 475 COLUMN N/8.3, N.1/9.3	OPERATING TIME	4,320 hours	Note 1	3			
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	6×10^4		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Baker</u> Reviewed by: <u>Ann Sieben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471D 3. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-RLY-4/1234, 4A/1234, 4B/1234 MANUFACTURER ASEA MODEL NUMBER RK225-052CP COMPONENT Relay FUNCTION/SERVICE Control interlock for CAC-V's and FCV's LOCATION: BLDG R ELEVATION 475 COLUMN H.1/9.3, H.1/8.3	OPERATING TIME	4,320 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	6.0 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seiden</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-475D 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-TDS-1A -1B MANUFACTURER Agastat MODEL NUMBER 7012AH COMPONENT Timer Delay Relay FUNCTION/SERVICE Timer Delay for Instrument Warm-Up LOCATION: BLDG R ELEVATION 572 COLUMN M2/5.7, M5/8	OPERATING TIME	4320 hours	Equivalent to 4320 hours at 107°F	5	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 107 max accident	150	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 90 max accident	95	1	3	Sequential Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4	1×10^7	2	3	Sequential Test	None
	AGING	40 years	Note 1	1	3,4	Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Eli</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5270 3. MCC Powers 734-79:002, 9/3/79 4. Calculations in QID 338002 5. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-1E-1A, B -2A, B -3A, B -4A, B -5A, B -6A, B MANUFACTURER Thermoelectric MODEL NUMBER 30500 COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572 COLUMN M5/6.6 M5/7.4	OPERATING TIME	4320 hours	4320 hours	2	4	Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	1	4	Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Note 1	1	4	Engineering Analysis	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.6×10^6	6.6×10^6	3	4	Engineering Analysis	None
	AGING	40 years	40 years	1	4	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u><i>Paul B. [Signature]</i></u> Reviewed by: <u><i>M. J. [Signature]</i></u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, dated 12/16/81 3. EDS Report #0740-004-572F 4. EDS Problem File #0740-004-AAD9				1. Analysis has determined that the ceramic cement may degrade when exposed to 100% R.H. Investigation of requalification methods is continuing.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-TE-1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7 MANUFACTURER Thermo Electric, Inc. MODEL NUMBER COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 576 COLUMN M.3 6.4	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	6.6 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Che</u> Reviewed by: <u>41 P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmosphere Control TAG NUMBER CAC-TE-1B1 CAC-TE-1B6 CAC-TE-1B2 CAC-TE-1B7 CAC-TE-1B3 CAC-TE-1B4 CAC-TE-1B5 MANUFACTURER Thermo Electric, Inc. MODEL NUMBER COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 576 COLUMN M.3/7.2	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	6.6 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. J. Anderson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-TIC-4A,B MANUFACTURER Bailey MODEL NUMBER 50-701003AAAA1 COMPONENT Temperature Indicating Controller FUNCTION/SERVICE Temperature Control Discharge for moisture separators CAC-MS-1A,B LOCATION: BLDG R ELEVATION 572 COLUMN H5/5.7 H5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: JDM 1/7/82 Reviewed by: AJ 1/7/82						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572D				1. The vendor is currently testing Model Number 701 and 740 controllers to the standards of IEEE 323-1974, with test completion scheduled for June 1982. When testing is completed, applicability of the test results to the installed components will be evaluated. Requalification will be initiated if the test results cannot be shown to apply to the installed components.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-TS-1A,B MANUFACTURER Moore MODEL NUMBER RBA/3W-100/D-X1-X4 COMPONENT Temperature Switch FUNCTION/SERVICE Temperature Switch for CAC-PN-1A,B discharge LOCATION: BLDG R ELEVATION 572 COLUMN M2/5.7 M5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4 x 10 ⁴		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AM 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D				1. Qualification documentation is being obtained for these components.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-TS-6A,B MANUFACTURER Moore MODEL NUMBER RBA/3W-100/D-X1-X4 COMPONENT Temperature Switch FUNCTION/SERVICE Discharge Temperature for CAC-HS-1A,B LOCATION: BLDG R ELEVATION 572 COLUMN H2/5.7 H5/8.0	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D				1. Qualification documentation is being obtained for these components.			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Atmospheric Control TAG NUMBER CAC-TT-4A,B MANUFACTURER Bailey MODEL NUMBER Type 740 COMPONENT Temperature Transmitter FUNCTION/SERVICE Temperature Trans. for CAC-HS-1A,B moisture separator discharge LOCATION: BLDG R ELEVATION 572 COLUMN H6/6.8 H6/7.6	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	6.6×10^6		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572P				1. The vendor is currently testing Model Number 701 and 740 controllers to the standards of IEEE 323-1974, with test completion scheduled for June 1982. When testing is completed, applicability of the test results to the installed components will be evaluated. Requalification will be initiated if the test results cannot be shown to apply to the installed components.			





OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Exhaust Purge System TAG NUMBER CEP-LMS-1A, 1B, 2A, 2B MANUFACTURER NAMCO MODEL NUMBER 1703100 COMPONENT Limit Switches FUNCTION/SERVICE Limit Switches for CEP-V-1A, 1B, 2A, 2B LOCATION: BLDG R ELEVATION . 548 COLUMN J.4/6.5	OPERATING TIME	6 months	6 months	2	4,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	200	1	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.7×10^5	2.5×10^6	3	5	Engineering Analysis	None
	AGING	40 years	Note 1	1		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seiler</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81 3. EDS Report 0740-004-548Q 4. ACME-Cleveland Report, "Qualification of Namco Control Limit Switch Model EA-170", dated 3/17/78 5. QID No. 200005 6. NAMCO Controls, Limit Switches General Catalog, copyright 1979				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Exhaust Purge System TAG NUMBER CEP-LMS-3A, B -4A, B MANUFACTURER Namco MODEL NUMBER 74080100 COMPONENT Limit Switches FUNCTION/SERVICE Limit Switch for CEP-LMS-3A, 3B -4A, 4B LOCATION: BLDG R ELEVATION 495 COLUMN H.5/5.4	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	340	2	4,5	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/A	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiber</u> Reviewed by: <u>W. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471J 4. Qualification of NAMCO Controls Limit Switch Model EA-740 to IEEE Stds. 344 (1975), 323 (1974) and 382 (1972), Rev. 1, dtd. 2/22/79, Rev. 0, dtd. 2/20/78 5. EDS Problem File #0740-004-AAD20, NAMCO LS				Qualified.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Instrument Air TAG NUMBER CIA-MO-20 -30A -30B MANUFACTURER Limatorque MODEL NUMBER SMB-000 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate CIA Valves LOCATION: BLDG R ELEVATION 522 COLUMN J3/7, J8/4.7, H5/6.8	OPERATING TIME	24 hours	16 days	1	3	Simultaneous Testing	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Testing	None
	PRESSURE (PSIA)	14.5	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	Steam for 24 hours 100% for 15 days	1	3	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.3×10^5	2×10^7	2	3	Sequential Testing	None
	AGING	40 years	40 years+	1	3,4	Sequential Testing Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Ami S. Arora</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522H (worst case) 3. Limatorque Report B0003 with addendum A, 5/8/76 in BWR 054-C-04 4. Calculations in QID221011 (1)				Qualified.			

TEMPERATURE PROFILE

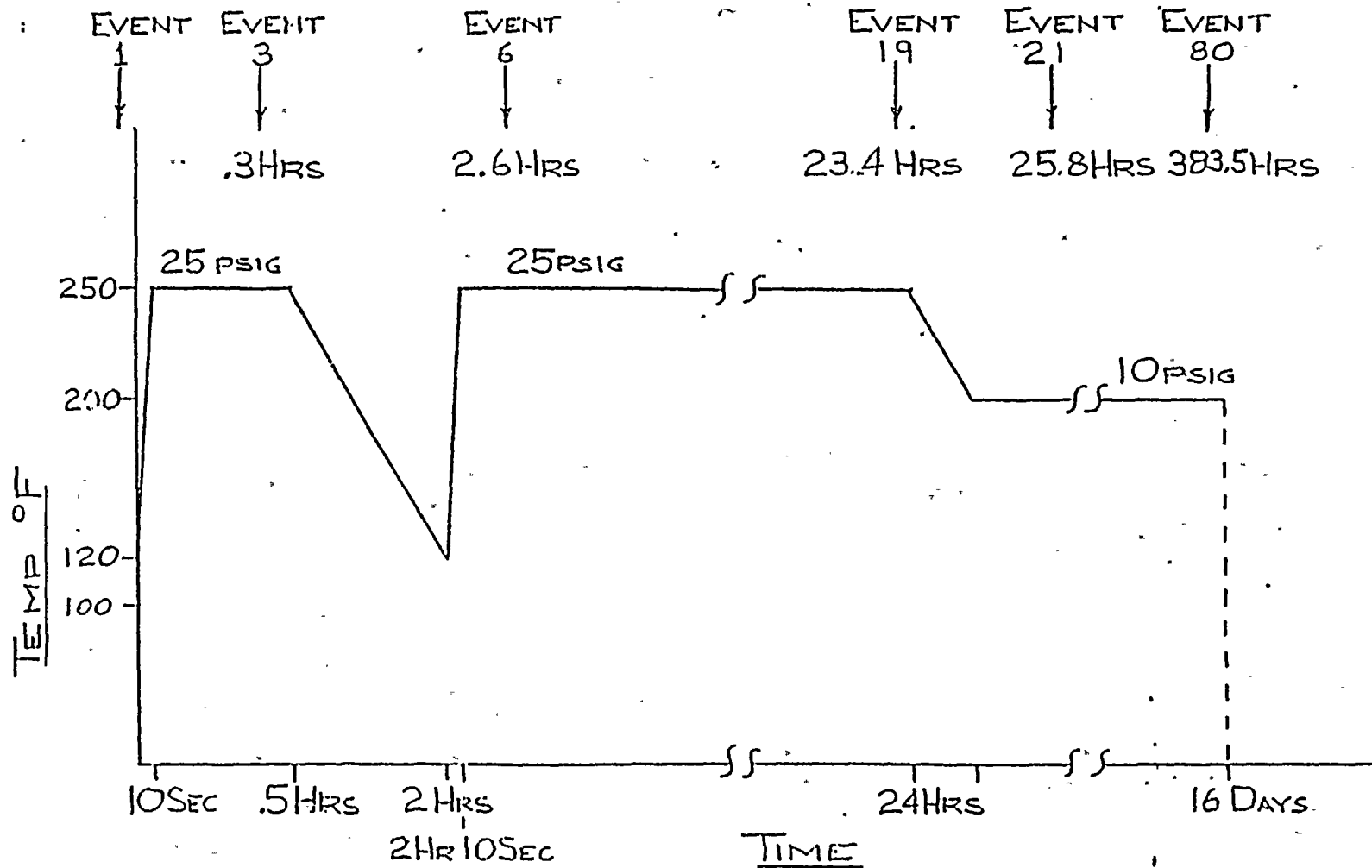


FIGURE 1

LIMITORQUE REPORT B0003

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PS-21A CIA-PS-21B MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Pressure Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 557 548 COLUMN M8/5.8 H.7/8.1	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	8.5 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Rhin</u> Reviewed by: <u>A. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-548G, P				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PS-22A MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)			3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>W. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PS-29 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)			3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Aron Seiden</u> Reviewed by: <u>M. J. Johnson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PS-39A CIA-PS-39B MANUFACTURER Mercoid MODEL NUMBER DAH-7023-804 COMPONENT Pressure Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 525 COLUMN H8/7.0 H4/7.1	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	2.4 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch</u> Reviewed by: <u>W. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522K				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PT-20 MANUFACTURER G.E. MODEL NUMBER 712203 COMPONENT Pressure Transmitter FUNCTION/SERVICE P.T. Downstream of CIA-AR-1 LOCATION: BLDG R ELEVATION 522 COLUMN J/G.7	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	1.7×10^6		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>J. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-5220				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Instrument Air TAG NUMBER CIA-PT-21A CIA-PT-21B MANUFACTURER Rosemount MODEL NUMBER GP7A22T0003PB COMPONENT Pressure Transmitter FUNCTION/SERVICE CIA Header Pressure LOCATION: BLDG R ELEVATION: 548 550 COLUMN: H.8/5.7 H.7/8.2	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY						
		H/A		2			None
	RADIATION (RAD)						
		8.5 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>W. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-548 G, P				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



WASHINGTON PUBLIC WATER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Instrument Air TAG NUMBER See Note 2- MANUFACTURER Marotta MODEL NUMBER MV229MQ-52 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE .5" Solenoid Valve LOCATION: BLDG R ELEVATION 441 COLUMN N/4.3	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 105 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.2 x 10 ³		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ehr</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-441D				1. Environmental qualification testing for these components are currently being performed at Hyle Labs.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<p>2. <u>TAG NUMBERS</u></p> <p>CIA-SPV-1A</p> <ul style="list-style-type: none">-1B-10A-10B-11A-11B-12A-12B-13A-13B-14A-14B-15A-15B-16B-17B-18B-19B-2A-3A-3B-4A-4B-5A-5B-6A-6B-7A-7B-8A-8B-9A-9B





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Isolation Air TAG NUMBER CIA-SV-39A, B MANUFACTURER Marotta MODEL NUMBER COMPONENT Solenoid Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 540 COLUMN K.0/4.3 H.8/7.7	OPERATING TIME	6 months		1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2	1		
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.3×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chen</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522K, H				1. Environmental Qualification testing for these components are currently being performed at Hyle Labs.			

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Monitoring System TAG NUMBER CMS-AY-1 MANUFACTURER Beckman Instruments, Inc. MODEL NUMBER 7C(H ₂) and 755(2) COMPONENT H ₂ , O ₂ Analyzer FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN HG/4.5	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7					
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	8.9 x 10 ³		2			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Behn</u> Reviewed by: <u>M. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548E 3. WNP-2 IE Equipment List, 12/16/81				1. The H ₂ , O ₂ analyzer is currently being qualified by Beckman Instruments, Inc. The qualification data will be reviewed when it is received.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CMS-AY-2 MANUFACTURER Beckman Instruments, Inc. MODEL NUMBER 7C(H ₂) and 755(O ₂) COMPONENT H ₂ , O ₂ Analyzer FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN M6/4.5	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	-90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.7 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES x NO	Prepared by: <u>Raymond Chu</u> Reviewed by: <u>W. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 311 2. EDS Study 0740-004-548F 3. WNP-2 1E Equipment List, 12/16/81				1. The H ₂ , O ₂ analyzer is currently being qualified by Beckman Instruments, Inc. The qualification data will be reviewed when it is received.			

WPPSS

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CMS-LT-1 MANUFACTURER Magnetrol MODEL NUMBER TSI-1X-MFG-M14HY COMPONENT Level Transmitter FUNCTION/SERVICE Suppression Chamber Water Level Monitoring LOCATION: BLDG R ELEVATION 465 COLUMN J 5/4.3	OPERATING TIME	24 hours		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.1 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81. 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-441J				1. Qualification documentation is being obtained from the vendor.			

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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CHS-LT-2 MANUFACTURER Rosemount MODEL NUMBER 1151-DP4022T003PB COMPONENT Level Transmitter FUNCTION/SERVICE Suppression Chamber Water Level Monitor LOCATION: BLDG R ELEVATION 465 COLUMN H.2/7.7	OPERATING TIME	6 months	6 months	1	3,5	Separate Effects Engineering Analysis	None Note 1
	TEMPERATURE (F)	90 normal 104 Abnormal 150 accident	300 max	2	5	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	N/A	None
	RADIATION (RAD)	1.7×10^6	2×10^6	4	6	Separate Effects	None
	AGING	40 years	Note 2	2	N/A	Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Eke</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. Rosemount Product Data Sheet 2256 4. EDS Study 0740-004-441F 5. Rosemount Report 97215A1 dated 2/9/72 6. Rosemount Report 127227, Rev. b 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test date and equipment production specifications indicate the component will operate 6 months at the required temperatures. 2. A preventive maintenance/surveillance program is being developed to address aging of Class 1E equipment.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Monitoring System TAG NUMBER CMS-NE-1, -2, -3, -4, -5 MANUFACTURER Panametrics MODEL NUMBER M2R COMPONENT Moisture Sensor FUNCTION/SERVICE Drywell Moisture LOCATION: BLDG C ELEVATION COLUMN	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	135 max normal 150 max abnormal Accident - profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident - profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	Demineralized water		2			
	RADIATION (RAD)	4.4×10^7		2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E List, dated 12/16/81 2. FSAR Par. 3.11				1. These components are currently being ordered. Qualification documentation will be reviewed when it is received.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Monitoring System TAG NUMBER CMS-HT-1, -2, -3, -4, -5 MANUFACTURER Panametrics MODEL NUMBER 600 COMPONENT Moisture Transmitter FUNCTION/SERVICE Drywell Moisture LOCATION: BLDG R ELEVATION 522 COLUMN	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.3×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch.</u> Reviewed by: <u>A. J. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H				1. These components are currently being ordered. Qualification documentation will be reviewed when it is received.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CMS-PT-1, 2, 2R, 3, 4, 5, 6, 6R MANUFACTURER Rosemount MODEL NUMBER 1151GP4A22MBGE3 COMPONENT Pressure Transmitter FUNCTION/SERVICE Containment Pressure Transmitter LOCATION: BLDG R ELEVATION 555 COLUMN H.7/8.2 H.8/5.8	OPERATING TIME	6 months	6 months	1	3,5	Separate Effects Engineering Analysis	None Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	300 max	2	5	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	N/A	None
	RADIATION (RAD)	8.5×10^4	2×10^6	4	6	Separate Effects	None
	AGING	40 years	Note 2	2	.	Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mal Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. Rosemount Product Data Sheet 2256 4. EDS Study 0740-004-548P 5. Rosemount Report 97215A dated 2/9/72 6. Rosemount Report 127227 dated 12/27/72 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment specification data ensure the component will operate 6 months at the required temperatures. 2. A preventive maintenance surveillance program is being developed to address aging of Class 1E equipment.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CHS-RE-12A, B MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE RE for drywell LOCATION: BLDG R ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)						
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11				1. These components are on order. The qualification documentation will be reviewed when it is received.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Monitoring System TAG NUMBER CMS-RE-27B, D MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE RE for Drywell LOCATION: BLDG ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY			2			
	RADIATION (RAD)						
	AGING						
	ACCURACY	40 years		2			
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chir</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11				1. These components are on order. The qualification documentation will be received when it is received.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Monitoring TAG NUMBER CMS-TE-17A, 17B, 17C, 17D, 21, 22, 23 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 564, 548, 532, COLUMN 516	OPERATING TIME	6 months	Note 1	2			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water		1			
	RADIATION (RAD)	4.4×10^7		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Alfred Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, 12/16/81				1. These components are on order. The qualification documentation will be reviewed when it is received.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Monitoring TAG NUMBER CMS-TE-41, 42, 43, 44 MANUFACTURER Hy-Cal Engineering MODEL NUMBER TC-113X-T-A-24-3 COMPONENT Thermal Element FUNCTION/SERVICE TE for suppression pool air LOCATION: BLDG C ELEVATION 451, 492 COLUMN 2⁰, 225⁰	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	135 normal 150 abnormal Accident - profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident - profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	2.6 x 10 ⁷		2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Alan Baker</u> Reviewed by: <u>Ann Seiben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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WASHINGTON PUBLIC UTILITY POWER SUPPLY SYSTEM

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-DPI-5, 9 MANUFACTURER General Electric MODEL NUMBER 13722, 13733 COMPONENT Differential Pressure FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN N.4/3.6	OPERATING TIME	1 hour	Note 1	1			
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.8×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Aem Seiber</u> Reviewed by: <u>Raymond Ch</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522C				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-DPIS-15 MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 426 COLUMN H.8/3.7	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	9.4×10^3	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-422E 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-DPIS-2 MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN N.4/3.6	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.8×10^5	$3. \times 10^6$	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventative Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ronald Chis</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522C 4. EDS Calculation File 0740-006-002- 5. Qualification Test Report for Barton 288 Switch, #QSR-027-01, 10/2/80				Qualified. 1. A preventative maintenance/surveillance program is being developed to address aging Class 1 equipment.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-DPT-11,8 MANUFACTURER Barton MODEL NUMBER 368 COMPONENT Differential Pressure Transmitter FUNCTION/SERVICE CRD Differential Pressure Transmitter LOCATION: BLDG R ELEVATION 522 COLUMN N4/3.6	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	286	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	73.7	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.8 x 10 ⁵		3			Note 1
	AGING	40 years		2			Note 1
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522C 4. PIRL Report P-C2667, Nov. 1969. Performance Test for three Differential Pressure Transmitters.				1. Materials of Construction are being obtained from the vendor to complete the evaluations.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-E/P-001 MANUFACTURER General Electric MODEL NUMBER 158B7013P7 COMPONENT Electroneumatic Converter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 524 COLUMN H.8/3.8	OPERATING TIME	1 hour	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 100 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.2 x 10 ⁴		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	<div>Prepared by: <u>M. L. Baker</u></div> <div>Reviewed by: <u>Alan Leiben</u></div>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522P				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-FT-7 -FT-9 MANUFACTURER Rosemount MODEL NUMBER 1151DP3022T0001PB COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 524 COLUMN H.4/3.6	OPERATING TIME	6 months	6 months	1	3,5	Separate Effects Engineering Analysis	None Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	30 max	2	5	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	N/A	None
	RADIATION (RAD)	5.8×10^5	2×10^6	4	6	Separate	None Effects
	AGING	40 years	Note 2	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Required by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. Rosemount Product Data Sheet 2256 4. EDS Study 0740-004-522C 5. Rosemount Report 97215A dated 2/9/72 6. Rosemount Report 127227 dated 12/17/72 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment product specification ensure the component will operate the required time at the required temperatures. 2. A preventive maintenance surveillance program is being developed to address aging of Class 1E equipment.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL																										
SYSTEM Control Rod Drive TAG NUMBER See Notes Column Below MANUFACTURER General Electric MODEL NUMBER COMPONENT Instrument Rack FUNCTION/SERVICE Support CRD Components LOCATION: BLDG See Notes ELEVATION Column COLUMN Below	OPERATING TIME	6 months	N/R		N/A	Note 1	None																								
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	1	N/A	Note 1	None																								
	PRESSURE (PSIA)	14.7	N/R	1	N/A	Note 1	None																								
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	1	N/A	Note 1	None																								
	CHEMICAL SPRAY	N/A	N/R	1	N/A	Note 1	None																								
	RADIATION (RAD)	8.7×10^4	N/R	2	N/A	Note 1	None																								
	AGING	40 years	N/R	1	N/A	Note 1	None																								
	ACCURACY	N/A	N/R	N/A	N/A	N/A	None																								
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES : NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>																														
DOCUMENTATION REFERENCES				NOTES																											
1. FSAR Par. 3.11 2. EDS Study 0740-004-471E, 52D				Qualified 1. The instrument racks are metallic and are not subject to environmental degradation. <table border="1"><thead><tr><th>Tag Number</th><th>Elevation</th><th>Column</th><th>Tag Number</th><th>Elevation</th><th>Column</th></tr></thead><tbody><tr><td>CRD-IR-1</td><td>R522</td><td>N.4/3.6</td><td>CRD-IR-1C</td><td>R426</td><td>N.8/4.8</td></tr><tr><td>-1A</td><td>R426</td><td>N.8/3.7</td><td>-2</td><td>R522</td><td>N.7/3.5</td></tr><tr><td>-1B</td><td>R426</td><td>N.8/3.8</td><td>-3</td><td>R522</td><td>N.8/3.8</td></tr></tbody></table>				Tag Number	Elevation	Column	Tag Number	Elevation	Column	CRD-IR-1	R522	N.4/3.6	CRD-IR-1C	R426	N.8/4.8	-1A	R426	N.8/3.7	-2	R522	N.7/3.5	-1B	R426	N.8/3.8	-3	R522	N.8/3.8
Tag Number	Elevation	Column	Tag Number	Elevation	Column																										
CRD-IR-1	R522	N.4/3.6	CRD-IR-1C	R426	N.8/4.8																										
-1A	R426	N.8/3.7	-2	R522	N.7/3.5																										
-1B	R426	N.8/3.8	-3	R522	N.8/3.8																										



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive	OPERATING TIME	1 minute	1 minute	1	4,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER CRD-LS-13A-F	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	300	2	5	Simultaneous Test	None
MANUFACTURER Magnetrol	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
MODEL NUMBER See Note 2	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
COMPONENT Level Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE CRD Level Switch	RADIATION (RAD)	5.2×10^4		3			Note 1
	AGING	40		2			Note 1
LOCATION: BLDG R ELEVATION 522 COLUMN See Note 2	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81. 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522P 4. EDS Calculation file 0740-006-004 5. BWR Equipment Qualification Summary Report QSR-030-H-1				1. Materials of construction are being obtained from the vendor to complete the evaluations. 2. Tag Number Model # Column CRD-LS-A,B 5.0-751-1X-MPG-S13HY J2/6.9 CRD-LS-C,D 5.0-751-1X-MPG-M13HY J.4/4.9 CRD-LS-E,F 5.0-751-2X-MPG-M14HY J.4/4.9			



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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive	OPERATING TIME	1 hour	Note 1	1			
TAG NUMBER CRD-M/A-9A, B	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
MANUFACTURER	PRESSURE (PSIA)	14.7 psia		2			
MODEL NUMBER	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
COMPONENT Manual/Auto Station	CHEMICAL SPRAY	N/A		2			
FUNCTION/SERVICE Manual/Auto Station	RADIATION (RAD)	5.8×10^5		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 524 COLUMN M.8/3.8	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	*Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522C				1. These components are on order. The qualification documentation will be reviewed when it is received.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-WO-3 MANUFACTURER H. K. Porter Company MODEL NUMBER COMPONENT Motor Operator FUNCTION/SERVICE .133 HP Motor Operator for CRD-V-3 LOCATION: BLDG R ELEVATION 524 COLUMN H.0/3.5	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY			2			
	RADIATION (RAD)						
		5.8 x 10 ⁵		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 522C				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-PS-1A,B MANUFACTURER Static-O-Ring MODEL NUMBER 6N-AA21-X3VTT COMPONENT Pressure Switch FUNCTION/SERVICE Inlet to CRD-ST LOCATION: BLDG R ELEVATION 422 COLUMN N.8/3.8	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	9.39×10^3	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81. 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-422E 4. EDS Calculation file 0740-006-006 5. Viking Lab Inc. Test letter Report #30203-2 dated 11/20/73. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER See Note 2 MANUFACTURER Barksdale MODEL NUMBER B1T-GH32SS COMPONENT Pressure Switch FUNCTION/SERVICE Accumulated Pressure 970-940 psig Decrease LOCATION: BLDG R ELEVATION 522 COLUMN See Note 2	OPERATING TIME	1 hour	1 hour	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	6.4×10^5	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY		±1%		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN</u> 1/6/82 Reviewed by: <u>JDM</u> 1/6/82						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR paragraph 3.11 3. EDS Report No. 0740-004-522B 4. EDS Calculation File No. 0740-006-001 5. Barksdale Environmental Test Delaval Turbine Inc. Test Procedure 9993 Report Dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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	CRD-PS-130/0219	L5/8.4	CRD-PS-130/2623	L5/8.4
	0223		2627	
	0227		2631	
	0231		3003	
	0615		3007	
	0619		3011	
	0623		3015	
	0627		3019	
	0631		3023	
	1011		3027	
	1015		3403	L5/3.7
	1019		3407	
	1023		3411	
	1027		3415	
	1031		3419	
	1407		3423	
	1411		3427	
	1415		3803	
	1419		3807	
	1423		3811	
	1427		3815	
	1431		3819	
	1803		3823	
	1807		3827	
	1811		4203	
	1815		4207	
	1819		4211	
	1823		4215	
	1827		4219	
	1831		4223	
	2203		4227	
	2207		4607	
	2211		4611	
	2215		4615	
	2219		4619	
	2223		4623	
	2227		4627	
	2631		5011	
	2603		5015	
	2607		5019	
	2611		5023	
	2615		5027	
	2619			

WP-1083

Prepared by: AN 1/6/82Reviewed by: JDM 1/6/82



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	CRD-PS-130/5415	LS/3.7	CRD-PS-130/4647	K2/3.7
	5419	↓ K2/3.7	4651	↓ K2/8.4
	5423		4655	
	5427		5031	
	5819		5035	
	5823		5039	
	5827		5043	
	3031		5047	
	3035		5051	
	3039		5431	
	3043		5435	
	3047		5439	
	3051		5443	
	3055		5447	
	3059		5831	
	3431		5835	
	3435		5839	
	3439		5843	
	3443		0235	
	3447		0239	
	3451		0243	
	3455		0635	
	3459		0639	
	3831		0643	
	3835		0647	
	3839		1035	
	3843		1039	
	3847		1043	
	3851		1047	
	3855		1051	
	3859		1435	
	4231		1439	
	4235		1443	
	4239		1447	
	4243		1451	
	4247		1455	
	4251		1835	
	4255		1839	
	4259		1843	
	4631		1847	
	4635		1851	
	4639		1855	
	4643		1859	

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Prepared by: AN 1/6/82Reviewed by: JDM 1/6/82





EQUIPMENT QUALIFICATION REPORT



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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)																														
	<p>2. Cont'd.</p> <table><thead><tr><th>Tag Nos.</th><th>Column</th></tr></thead><tbody><tr><td>CRD-PS-130/2235</td><td>K2/8.4</td></tr><tr><td>2239</td><td></td></tr><tr><td>2243</td><td></td></tr><tr><td>2247</td><td></td></tr><tr><td>2251</td><td></td></tr><tr><td>2255</td><td></td></tr><tr><td>2259</td><td></td></tr><tr><td>2635</td><td></td></tr><tr><td>2639</td><td></td></tr><tr><td>2643</td><td></td></tr><tr><td>2647</td><td></td></tr><tr><td>2651</td><td></td></tr><tr><td>2655</td><td></td></tr><tr><td>2659</td><td></td></tr></tbody></table>	Tag Nos.	Column	CRD-PS-130/2235	K2/8.4	2239		2243		2247		2251		2255		2259		2635		2639		2643		2647		2651		2655		2659	
Tag Nos.	Column																														
CRD-PS-130/2235	K2/8.4																														
2239																															
2243																															
2247																															
2251																															
2255																															
2259																															
2635																															
2639																															
2643																															
2647																															
2651																															
2655																															
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Prepared by: AN 1/6/82Reviewed by: JDM 1/6/82



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-PT-5 MANUFACTURER Bailey MODEL NUMBER K6556110EAAA1 COMPONENT Pressure Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN H.7/3.5	OPERATING TIME	4320 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.8×10^5		3			
	AGING	40		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch</u> Reviewed by: <u>Mary Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522C				1. The component is being replaced by a Rosemount 1153 qualified to IEEE 323-74 and IEEE 344-75.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-PT-52 MANUFACTURER Bailey Control Company MODEL NUMBER KG556110EAAA1 COMPONENT Pressure Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 526 COLUMN H.8/3.8	OPERATING TIME	6 months	Note 1	1	.		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2	.		
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.8 x 10 ⁵		3			
	AGING	40 years		2			
	ACCURACY			.			
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark L. Baker</u> Reviewed by: <u>Alan J. Iken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1 E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522C				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-SPV-110A 110B MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA-103-632 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE 1.5" Sol. CAS-F-6 Discharge LOCATION: BLDG R ELEVATION 529/528 COLUMN M6/3.8 M8/3.8	OPERATING TIME	1 hour		3			Note 1
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.8 x 10 ⁵		2			
	AGING	40 years		1			
	ACCURACY	N/A		N/A			
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>11. P. Johnson</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522C 3. WNP-2 Class 1E Equipment List, 12/16/81				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-SPV-117 -118/Note 2 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA 904052-J COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE SCRAM Solenoid Pilot LOCATION: BLDG R ELEVATION 522 COLUMN L5/8.4 K2/8.4	OPERATING TIME	✓ 1 hour	6 hours	1	3	Simultaneous Test	None
	TEMPERATURE (F)	✓ 90 max. normal 104 max. abnormal 150 max. accident	212	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	✓ 14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal	N/R	6	N/A	N/A	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	6.4 x 10 ⁵	4.7 x 10 ⁶	2	4	Engineering Analysis	None
	AGING	40 years	7 years	1	5	Operating Experience, Maintenance	Note 1.
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared By: <u>Al J. Robinson</u> Reviewed By: <u>W.E. Farame 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522J 3. G. E. Spec. 38 31A820 4. QID 315004 Calculations 5. E/I-01-81-04-0 (IE Bulletin 78-14) 6. Calculation SCH-79-556				1. The solenoid valves will be rebuilt on a schedule based on the 7 year qualified life. Qualified			



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0223	1807	2647	3827	5023
0227	1811	2651	3831	5027
0231	1815	2655	3835	5031
0235	1819	2659	3839	5035
0239	1823	3003	3843	5039
0243	1827	3007	3847	5043
0615	1831	3011	3851	5047
0619	1835	3015	3855	5051
0623	1839	3019	3859	5415
0627	1843	3023	4203	5419
0631	1847	3027	4207	5423
0635	1851	3031	4211	5427
0639	1855	3035	4215	5431
0643	1859	3039	4219	5435
0647	2203	3043	4223	5439
1011	2207	3047	4227	5443
1015	2211	3051	4231	5447
1019	2215	3055	4235	5819
1023	2219	3059	4239	5823
1027	2223	3403	4243	5827
1031	2227	3407	4247	5831
1035	2231	3411	4251	5835
1039	2235	3415	4255	5839
1043	2239	3419	4259	5843
1047	2243	3423	4607	
1051	2247	3427	4611	
1407	2251	3431	4615	
1411	2255	3435	4619	
1415	2259	3439	4623	
1419	2603	3443	4627	
1423	2607	3447	4631	
1427	2611	3451	4635	
1431	2615	3455	4639	
1435	2619	3459	4643	
1439	2623	3803	4647	
1443	2627	3807	4651	
1447	2631	3811	4655	
1451	2635	3815	5011	
1455	2639	3819	5015	



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-SPV-9 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HT832322 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE 1.5" Solenoid CAS to CRD-V-10 LOCATION: BLDG R ELEVATION 528 COLUMN N.0/3.5	OPERATING TIME	1 hour	Equivalent to >10,000 hours at 150°F	5	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal	N/R	6	N/A	N/A	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.8 x 10 ⁵	4.4 x 10 ⁶	2	3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 1
	ACCURACY	N/A	N/A	1	4	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>A. P. Robinson</u> Reviewed by: <u>W.E. Farnham 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522C 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. WNP-2 Class 1E Equipment List, 12/16/81 6. SCN-79-556 Calculation				Qualified 1. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-SV-120/Note MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA1709662A COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE .5" Solenoid Withdraw Exhaust Valve LOCATION: BLDG R ELEVATION 522 COLUMN K2/8.4 L5/8.4	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.0×10^5		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch...</u> Reviewed by: <u>M. S. ...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522J 3. WNP-2 CIE Equipment List dated 12/16/81				1. These components are designed to use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental degradation will cause the component to not perform its safety function. Qualified.			



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	0219	1803	2643	3823	5019
	0223	1807	2647	3827	5023
	0227	1811	2651	3831	5027
	0231	1815	2655	3835	5031
	0235	1819	2659	3839	5035
	0239	1823	3003	3843	5039
	0243	1827	3007	3847	5043
	0615	1831	3011	3851	5047
	0619	1835	3015	3855	5051
	0623	1839	3019	3859	5415
	0627	1843	3023	4203	5419
	0631	1847	3027	4207	5423
	0635	1851	3031	4211	5427
	0639	1855	3035	4215	5431
	0643	1859	3039	4219	5435
	0647	2203	3043	4223	5439
	1011	2207	3047	4227	5443
	1015	2211	3051	4231	5447
	1019	2215	3055	4235	5819
	1023	2219	3059	4239	5823
	1027	2223	3403	4243	5827
	1031	2227	3407	4247	5831
	1035	2231	3411	4251	5835
	1039	2235	3415	4255	5839
	1043	2239	3419	4259	5843
	1047	2243	3423	4607	
	1051	2247	3427	4611	
	1407	2251	3431	4615	
	1411	2255	3435	4619	
	1415	2259	3439	4623	
	1419	2603	3443	4627	
	1423	2607	3447	4631	
	1427	2611	3451	4635	
	1431	2615	3455	4639	
	1435	2619	3459	4643	
	1439	2623	3803	4647	
	1443	2627	3807	4651	
	1447	2631	3811	4655	
	1451	2635	3815	5011	
	1455	2639	3819	5015	



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Control Rod Drive TAG NUMBER CRD-SV-121/Note MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA1709662A COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE .5" Solenoid Insert Exhaust Valve LOCATION: BLDG R ELEVATION 522 COLUMN L5/8.4 K2/8.4	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.0×10^5		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522J 3. WNP-2 CIE Equipment List dated 12/16/81				1. These components are designed to use code 2, equipment classification G. Therefore, they have no active safety function...They are only required to maintain a pressure boundary under seismic conditions. No environmental degradation will cause the component to not perform its safety function. Qualified.			



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		0219	1803	2643	3823
		0223	1807	2647	3827
		0227	1811	2651	3831
		0231	1815	2655	3835
		0235	1819	2659	3839
		0239	1823	3003	3843
		0243	1827	3007	3847
		0615	1831	3011	3851
		0619	1835	3015	3855
		0623	1839	3019	3859
		0627	1843	3023	4203
		0631	1847	3027	4207
		0635	1851	3031	4211
		0639	1855	3035	4215
		0643	1859	3039	4219
		0647	2203	3043	4223
		1011	2207	3047	4227
		1015	2211	3051	4231
		1019	2215	3055	4235
		1023	2219	3059	4239
		1027	2223	3403	4243
		1031	2227	3407	4247
		1035	2231	3411	4251
		1039	2235	3415	4255
		1043	2239	3419	4259
		1047	2243	3423	4607
		1051	2247	3427	4611
		1407	2251	3431	4615
		1411	2255	3435	4619
		1415	2259	3439	4623
		1419	2603	3443	4627
		1423	2607	3447	4631
		1427	2611	3451	4635
		1431	2615	3455	4639
		1435	2619	3459	4643
		1439	2623	3803	4647
		1443	2627	3807	4651
		1447	2631	3811	4655
		1451	2635	3815	5011
		1455	2639	3819	5015



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-SV-122/Note MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA1709662A COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE .5" Solenoid Withdraw Drive Valve LOCATION: BLDG R ELEVATION 522 COLUMN K2/8.4 L5/8.4	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.0×10^5		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>H. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522J 3. WNP-2 CIE Equipment List dated 12/16/81				1. These components are designed to use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental degradation will cause the component to not perform its safety function. Qualified.			



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	0219	1803	2643	3823	5019
	0223	1807	2647	3827	5023
	0227	1811	2651	3831	5027
	0231	1815	2655	3835	5031
	0235	1819	2659	3839	5035
	0239	1823	3003	3843	5039
	0243	1827	3007	3847	5043
	0615	1831	3011	3851	5047
	0619	1835	3015	3855	5051
	0623	1839	3019	3859	5415
	0627	1843	3023	4203	5419
	0631	1847	3027	4207	5423
	0635	1851	3031	4211	5427
	0639	1855	3035	4215	5431
	0643	1859	3039	4219	5435
	0647	2203	3043	4223	5439
	1011	2207	3047	4227	5443
	1015	2211	3051	4231	5447
	1019	2215	3055	4235	5819
	1023	2219	3059	4239	5823
	1027	2223	3403	4243	5827
	1031	2227	3407	4247	5831
	1035	2231	3411	4251	5835
	1039	2235	3415	4255	5839
	1043	2239	3419	4259	5843
	1047	2243	3423	4607	
	1051	2247	3427	4611	
	1407	2251	3431	4615	
	1411	2255	3435	4619	
	1415	2259	3439	4623	
	1419	2603	3443	4627	
	1423	2607	3447	4631	
	1427	2611	3451	4635	
	1431	2615	3455	4639	
	1435	2619	3459	4643	
	1439	2623	3803	4647	
	1443	2627	3807	4651	
	1447	2631	3811	4655	
	1451	2635	3815	5011	
	1455	2639	3819	5015	

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Control Rod Drive TAG NUMBER CRD-SV-123/note MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HVA 1709662A COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE .5" Solenoid Insert Drive Valve LOCATION: BLDG R ELEVATION 522 COLUMN K2/8.4, L5/8.4	OPERATING TIME	6 months	Note 1	3			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.0×10^5		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522J 3. WNP-2 CIE Equipment List dated 12/16/81				1. These components are designed to use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental degradation will cause the component to not perform its safety function. Qualified.			



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	0219	1803	2643	3823	5019
	0223	1807	2647	3827	5023
	0227	1811	2651	3831	5027
	0231	1815	2655	3835	5031
	0235	1819	2659	3839	5035
	0239	1823	3003	3843	5039
	0243	1827	3007	3847	5043
	0615	1831	3011	3851	5047
	0619	1835	3015	3855	5051
	0623	1839	3019	3859	5415
	0627	1843	3023	4203	5419
	0631	1847	3027	4207	5423
	0635	1851	3031	4211	5427
	0639	1855	3035	4215	5431
	0643	1859	3039	4219	5435
	0647	2203	3043	4223	5439
	1011	2207	3047	4227	5443
	1015	2211	3051	4231	5447
	1019	2215	3055	4235	5819
	1023	2219	3059	4239	5823
	1027	2223	3403	4243	5827
	1031	2227	3407	4247	5831
	1035	2231	3411	4251	5835
	1039	2235	3415	4255	5839
	1043	2239	3419	4259	5843
	1047	2243	3423	4607	
	1051	2247	3427	4611	
	1407	2251	3431	4615	
	1411	2255	3435	4619	
	1415	2259	3439	4623	
	1419	2603	3443	4627	
	1423	2607	3447	4631	
	1427	2611	3451	4635	
	1431	2615	3455	4639	
	1435	2619	3459	4643	
	1439	2623	3803	4647	
	1443	2627	3807	4651	
	1447	2631	3811	4655	
	1451	2635	3815	5011	
	1455	2639	3819	5015	



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Supply Purge TAG NUMBER CSP-DPIS-4 CSP-DPIS-5 CSP-DPIS-6 MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Differential Pressure Indicating Switch. FUNCTION/SERVICE Primary and Secondary Containment LOCATION: BLDG R ELEVATION 501 COLUMN L.4/9.3 N.0/5.1 N.8/5.5	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	7.78 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Hin</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Supply Purge System TAG NUMBER CSP-LMS-1, 2 MANUFACTURER HAMCO MODEL NUMBER D2400X COMPONENT Limit Switches FUNCTION/SERVICE Limit Switches for CSP-V-1, 2 LOCATION: BLDG R ELEVATION 501 COLUMN M.5/7.6, M.5/7.4	OPERATING TIME	6 months	6 months	2	4,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	200	1	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.3×10^6	2.5×10^6	3	5	Engineering Analysis	None
	AGING	40 years	Note 1	1		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Moh. Baker</u> Reviewed by: <u>Ann Seibert</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-5011 4. ACME-Cleveland Report, "Qualification of Hamco Control Limit Switch Model EA-170", dated 3/17/78 5. QID No. 200005 6. HAMCO Controls, Limit Switches General Catalog, copyright 1979				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Supply Purge System TAG NUMBER CSP-LMS-3, 4, 5, 6, 9 MANUFACTURER NAMCO MODEL NUMBER D2400X COMPONENT Limit Switches FUNCTION/SERVICE Limit Switches for CSP-V-1, 2, 3, 4, 5, 6, 9 LOCATION: BLDG R ELEVATION 471 COLUMN M.6/7.6, M.7/8.3, M.9/5.1, M.5/7.7	OPERATING TIME	6 months	6 months	2	4,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	200	1	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.0×10^5	2.5×10^6	3	5	Engineering Analysis	None
	AGING	40 years	Note 1	1		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>M. Baker</u> Reviewed by: <u>Alan Sikes</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81 3. EDS Report 0740-004-471B, D 4. ACME-Cleveland Report, "Qualification of Namco Controls Limit Switch Model EA-170", dated 3/17/78 5. QID No. 200005 6. NAMCO Controls, Limit Switches General Catalog, copyright 1979				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Supply Purge TAG NUMBER CSP-RLY-10CR, 7CR, 8CR MANUFACTURER Struthers Dunn, Inc. MODEL NUMBER 219BBXP COMPONENT Relay FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 471 COLUMN H3/8	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.2 x 10 ³	N/R	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiken</u> Reviewed by: <u>1. P. L. L. L.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471H 4. EDI-4.8, Paragraph 5.1, I				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10 ⁴ rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Containment Supply Purge TAG NUMBER See Note Below MANUFACTURER R. B. Denison MODEL NUMBER WE-74/EX-2 COMPONENT Relay FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 471 COLUMN H.3/8	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.2×10^3	N/R	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiben</u> Reviewed by: <u>22.11.24</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471H 4. EDI-4.8, Paragraph 5.1, I				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10^4 rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified. Tag Numbers: CSP-RLY-10R1, 10R2, 10R5 CSP-RLY-7R1, 7R2, 7R5 CSP-RLY-8R1, 8R2, 8R5			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Containment Supply Purge TAG NUMBER CSP-SPV-9 MANUFACTURER Fisher and Porter MODEL NUMBER 67ER COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoid Pilot for SCP-CSP-V-9 LOCATION: BLDG R ELEVATION 501 COLUMN N.0/5.1	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY			2			
	RADIATION (RAD)	4.6 x 10 ⁴		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 501F				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-CB-MC7BA E-CB-MC7BB MANUFACTURER ITE Imperial MODEL NUMBER COMPONENT Circuit Breaker FUNCTION/SERVICE MCC 7 B LOCATION: BLDG R ELEVATION 522 COLUMN H.4/8.1	OPERATING TIME	6 months	N/A	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/A	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/A	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/A	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.5 x 10 ³	N/A	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiben</u> Reviewed by: <u>M. P. Robinson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H 4. EDI-4.8, Paragraph 5.1, I				1. The equipment is located in an isolated room serviced by Class 1 HVAC and the radiation is less than 10 ⁴ rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-CB-MC/8B/A E-CB-MC/8B/B MANUFACTURER ITE Imperial MODEL NUMBER Type M COMPONENT Circuit Breaker FUNCTION/SERVICE MCC-8B LOCATION: BLDG R ELEVATION 522 COLUMN N/3.8	OPERATING TIME	6 months	N/A	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/A	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/A	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/A	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	8.6 x 10 ⁴	Note 2	3	5	Note 2	Note 2
	AGING	40 years	40 years	2	4	Note 3	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiben</u> Reviewed by: <u>M. P. Hoffman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522D				1. The equipment is located in an isolated room serviced by Class 1 HVAC. Therefore, the area is a mild environment for these service conditions. 2. Shielded doors are being installed to make this area a mild environment (TID < 10 ⁴ rad). 3. Aging of equipment in mild environments is adequately addressed in current maintenance and surveillance procedures.			





WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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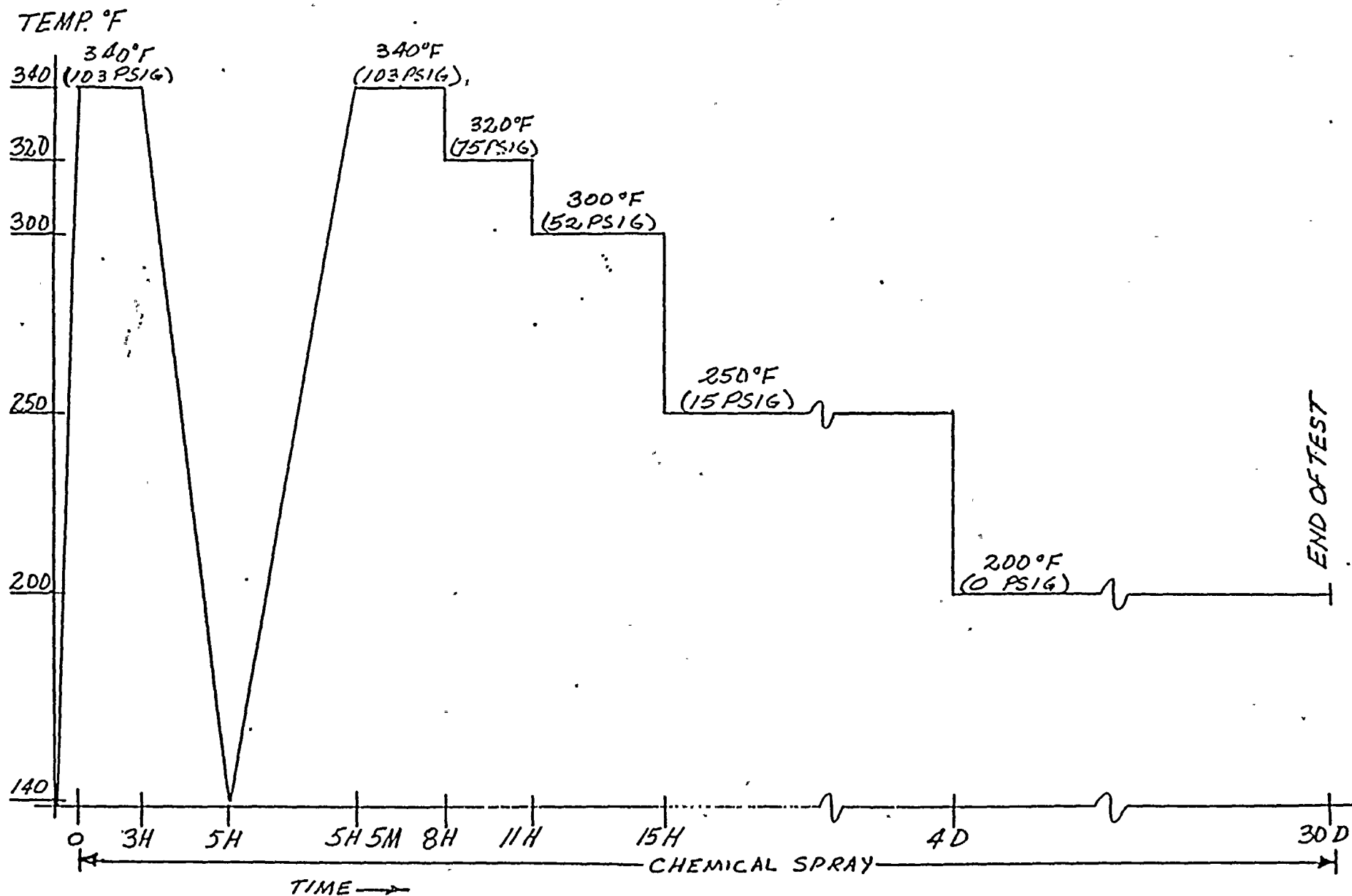
EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM .Electrical System	OPERATING TIME	6 months	6 months	1	3,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CONN-X100 A-D/01 E-CONN-X100 A-D/02	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	340	2	4	Simultaneous Test	None
MANUFACTURER Amphenol	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	119	2	4	Simultaneous Test	None
MODEL NUMBER 82-503 28650	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT -JACK -PLUG	CHEMICAL SPRAY	Demineralized Water	Note 1	2	7	Engineering Analysis	None
FUNCTION/SERVICE Electrical Connectors	RADIATION (RAD)	4.4×10^7	4.4×10^7	2	6	Engineering Analysis	None
	AGING	40 years	40 years	2	7	Engineering Analysis	None
LOCATION: BLDG C ELEVATION 507 COLUMN Radius 40 AZ: 98 ,102,315,322	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 11/7/82</u> Reviewed by: <u>JPM 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. W Test Report, PEN-ACD-5-72-03 4. W letter by R.L. Kerner, RE: Addendum to Report #PEN-ACD-4-72-03, dated 5/4/76 5. W letter to Supply System dated 1/9/81, RE: Hanford II Nuclear Plant - Electric Penetration. 6. EPRI Report #RP 1707-3 7. QID No. 049001				Qualified 1. The electrical connectors are located inside the inboard penetration enclosure and are, therefore, not exposed to demineralized water spray.			





EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CONN-102A/02 -102B/02 MANUFACTURER Raychem MODEL NUMBER WCSF-N COMPONENT Shrink Tube FUNCTION/SERVICE Insulate and Protect Solistrand Splice Connectors LOCATION: BLDG C ELEVATION 534 COLUMN 185 & 219 Az	OPERATING TIME	4320 hours	720 hours	1	2	Simultaneous Test	None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal accident--profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	17 max. normal accident--profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 max. normal 90 max. abnormal 100 max. accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	50 ppm hydrazene to pH 10.5 with trisodium phosphate	1	2	Simultaneous Test	None
	RADIATION (RAD)	2.74×10^7	2×10^8	1	2	Sequential Test	None
	AGING	40 years	40 years	1	2,3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>J. Lullinan</u> Reviewed by: <u>M. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Wyle 58442-1, 5/15/80 3. Raychem EPR2001, 8/10/78 } BHR 123-A-01				Qualified NOTE: Although accident time was only 720 hours, there was no deterioration in IR and samples were in same condition as at start. ∴ They would have survived 4320 hrs.			





ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR RAYCHEM SPLICES





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-COHN-X-102A/01 -X-102B/01 MANUFACTURER AMP MODEL NUMBER 34130 COMPONENT Parallel Splice Connector FUNCTION/SERVICE Splice Wires LOCATION: BLDG C ELEVATION 534 COLUMN 185 & 219 Az	OPERATING TIME	4320 hours	N/R (solid metal)	1	2	Engineering Analysis	None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal Accident--profile 1	N/R (solid metal)	1	2	Engineering Analysis	None
	PRESSURE (PSIA)	17 max. normal accident--profile 1	N/R (solid metal)	1	2	Engineering Analysis	None
	RELATIVE HUMIDITY (%)	55 max. normal 90 max. abnormal steam max. accident	100 (salt fog)	1	3	Separate Effect	None
	CHEMICAL SPRAY	Deionized water	Salt fog	1	3	Separate Effect	None
	RADIATION (RAD)	2.74×10^7	N/R (solid metal)	1	2	Engineering Analysis	None
	AGING	40 years	N/R (solid metal)	1	2	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seihen</u> Reviewed by: <u>M. J. Perkinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. AMP Catalog No. 2005-8, 2/81 3. AMP technical report ELR221-11, 5/24/70				Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CP-CAC/HR1A -CAC/HR1B MANUFACTURER Air Products MODEL NUMBER COMPONENT Control Panel FUNCTION/SERVICE House Components LOCATION: BLDG R ELEVATION 575 COLUMN M.4/5.8 M.7/8.5	OPERATING TIME	6 months	N/R	2	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	1	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	1	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	Note 1	None
	RADIATION (RAD)	5.4×10^5	N/R	3	N/A	Note 1	None
	AGING	40 years	N/R	1	N/A	Note 1	None
	ACCURACY	N/A	N/R		N/A	Note 1	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Choi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81 3. EDS Study 0740-004-572D, II				Qualified 1. The control panels are metallic and are not subject to environmental degradation.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-CP-VB/1A MANUFACTURER MODEL NUMBER COMPONENT Control Panel FUNCTION/SERVICE LOCATION: BLOC R ELEVATION 471 COLUMN H7/8.3	OPERATING TIME	6 months	N/R	1	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	2	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	2	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	Note 1	None
	RADIATION (RAD)	6×10^4	N/R	3	N/A	Note 1	None
	AGING	40 years	N/R	2	N/A	Note 1	None
	ACCURACY	N/A	N/R		N/A	Note 1	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Bick</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 2. FSAR Par. 3.11 3. EDS Study 0740-004-472D				Qualified 1. The control panels are metallic and are not subject to environmental degradation.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-EMSQ-CACFN1B E-EMSQ-SGTFN1A2 MANUFACTURER ITE Imperial MODEL NUMBER 5641-DBDAR 5641-DACAB COMPONENT Mean Square Voltage Device FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572 COLUMN M.7/8.2	OPERATING TIME	6 months	N/A	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 107 accident	N/A	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/A	2	4	Note 1	None
	CHEMICAL SPRAY						
	RADIATION (RAD)						
	AGING	3.9 x 10 ⁴	Note 2	3	5	Note 2	Note 2
		40 years	40 years	2	N/A	Note 3	None
	ACCURACY						
		N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiden</u> Reviewed by: <u>W. J. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572H 4. EDI-4.8, Paragraph 5.1, I 5. Letter WPBR-R0-81-105, dated 7/29/81				1. This area is serviced by a Class 1 HVAC system, therefore, it is a mild environment for these service conditions. 2. The doors to this room are being modified to make the area a mild environment (TID < 10 ⁴ rad.). 3. Aging of equipment in mild environments is adequately addressed in current maintenance and surveillance procedures.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER See Notes Below for a List of Applicable Tag Numbers MANUFACTURER GE MODEL NUMBER COMPONENT Instrument Rack FUNCTION/SERVICE Support Class 1E Instruments LOCATION: BLDG R ELEVATION COLUMN Various Locations	OPERATING TIME	6 months	N/R	1	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	2	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 max normal 90 abnormal 100 accident	N/R	2	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	Note 1	None
	RADIATION (RAD)	1.1 x 10 ⁷	N/R	3	N/A	Note 1	None
	AGING	N/A	N/A		N/A	N/A	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <i>Raymond Chi</i> Reviewed by: <i>M. J. Whitten</i>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-002-422L (worst case)				1. The instrument racks are metallic. Therefore, the instrument racks are not susceptible to the environmental conditions. Qualified. Tag Numbers: E-IR-P001 E-IR-P008 E-IR-P017 E-IR-P025 E-IR-P032 -P002 -P018 -P026 -P033 -P004 -P021 -P027 -P039 -P005 -P022 -P029 -P040 -P006 -P015 -P024 -P030			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER See Note Below MANUFACTURER General Electric MODEL NUMBER COMPONENT Instrument Rack FUNCTION/SERVICE Support Class IE Instruments LOCATION: BLDG R ELEVATION COLUMN Various Locations	OPERATING TIME	6 months	N/R	1	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	2	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 max accident	N/R	2	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	Note 1	None
	RADIATION (RAD)	1.1 x 10 ⁷	N/R	3	N/A	Note 1	None
	AGING	40 years	N/A	2	N/A	N/A	None
	ACCURACY	N/A	N/A	N/A		N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond C. Chis</u> Reviewed by: <u>M. P. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class IE Equipment List, dated 12/16/82 2. FSAR Paragraph 3.11 3. EDS Report 0740-002-472L (Worse Case Rad Levels)				1. The instrument racks are metallic. Therefore, the instrument racks are not susceptible to the environmental conditions. Qualified. Tag Numbers: E-IR-61 E-IR-66 E-IR-71 -62 -67 -72 -63 -68 -73 -64 -69 -74 -65 -70			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-MC-7B, 7BA -S2/1A MANUFACTURER ITE Imperial Corp. MODEL NUMBER 5G40VB-111C108-C1090 COMPONENT MCC FUNCTION/SERVICE Motor Starters LOCATION: BLDG R ELEVATION 522 COLUMN H.5/8.3, H.7/8.3	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.5×10^3	N/R	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiden</u> Reviewed by: <u>M. P. L. L. L.</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP-Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522N 4. EDI-4.8, Paragraph 5.1, I				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10^4 rad. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-MC-8B, 8BA, 8BB, 7BB MANUFACTURER ITE Imperial Corp. MODEL NUMBER 5640VC-111SPL-C1090 COMPONENT MCC FUNCTION/SERVICE Motor Starter LOCATION: BLDG R ELEVATION 522,572 COLUMN N/3.5, N/3.9, N.7/8.2	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	Note 1	None
	RADIATION (RAD)	8.6×10^4	Note 2	3	5	Note 2	Note 2
	AGING	40 years	40 years	2	4	Note 3	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Jenkins</u> Reviewed by: <u>W. H. Johnson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Reports 0740-004-522D, 572D, 572H 4. EDI-4.8, Paragraph 5.1, I 5. Letter WPBR-R0-81-105, dated 7/29/81				1. These components are located in isolated rooms serviced by Class 1 HVAC. Therefore, the room is a mild environment for these service conditions. 2. Shielded doors are being installed in these rooms to make these rooms mild environments (TID < 10^4 rad.) 3. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-PP-7AE E-PP-8AE MANUFACTURER Square D MODEL NUMBER QM-02653-28EE6 COMPONENT Power Panel FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 474 COLUMN N.2/9.3 N/8.5	OPERATING TIME	6 months	Note 1	1	N/A	N/A	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	Note 1	2	N/A	N/A	None
	PRESSURE (PSIA)	14.7	Note 1	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	Note 1	2	N/A	N/A	None
	CHEMICAL SPRAY	N/A	Note 1	2	N/A	N/A	None
	RADIATION (RAD)	6 x 10 ⁴	Note 1	3	N/A	N/A	None
	AGING	40 years	Note 1	1	N/A	N/A	None
	ACCURACY	N/A	Note 1		N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chis</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-474D				Qualified. 1. The components are metallic and are not subject to environmental degradation.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER See Following Page MANUFACTURER Struthers Dunn, Inc. MODEL NUMBER 219BBXP COMPONENT Relay FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522, 572 COLUMN N.0/3.5 M.4/5.8, H.7/8.2	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	8.6 x 10 ⁴	Note 2	3	5	Note 2	Note 2
	AGING	40 years	40 years	2	4	Note 3	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>A. Seiben</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Reports 0740-004-522D, 572D, 572H 4. EDI-4.8, Paragraph 5.1, I 5. Letter WPPSS-R0-81-105, dated 7/29/81				1. These components are located in isolated rooms serviced by Class 1 HVAC. Therefore, the room is a mild environment for these service conditions. 2. Shielded doors are being installed in these rooms to make them mild environments (TID < 10 ⁴ rad). 3. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<p><u>TAG NUMBERS</u></p> <p>E-RLY-CACFN1A CACFN1B MSLCV10 MSLCV12 MSLCV4 MSLCV5 MSLCV9 RCICV63 RHRV11B RHRV16A, B RHRV17A, B RHRV21 RHRV24B RHRV26B RHRV27B RHRV3A, B RHRV4B, C RHRV42B, C RHRV47A, B RHRV48A, B RHRV52A, B RHRV6B RHRV68A, B RHR87A, B RHRV9 SGT/5A2 SGTEHC1A2, 1B2 SGTEH1A1, 1B1 SGTFN1A1, 1A2 SGTFN1B1, 1B2 SGTTK2B1 SGTV1A SGTV3A1, A2, B1, B2 SGTV4A1, A2, B1, B2 SGTV5A1, A2, B1, B2 SLCP1B</p>

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

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REVISION:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER See Following Page MANUFACTURER Struthers Dunn, Inc. MODEL NUMBER 219BBXP COMPONENT Relay FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN H.7/8.3	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.5×10^3	N/R	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Leiben</u> Reviewed by: <u>M. J. G. ...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81. 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H 4. EDI-4.8, Par. 5.1, I				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10^4 rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)																																								
	<p><u>Tag Numbers:</u></p> <table><tr><td>E-RLY-LPCSFCV11</td><td>E-RLY-RHRV11A</td></tr><tr><td>-LPCSV1</td><td>-RHRV24A</td></tr><tr><td>-LPCSV12</td><td>-RHRV26A</td></tr><tr><td>-LPCSV5</td><td>-RHRV27A</td></tr><tr><td>-MSLCHTRA</td><td>-RHRV3A</td></tr><tr><td>-MSLCHTRB</td><td>-RHRV4A</td></tr><tr><td>-MSLCHTRC</td><td>-RHRV42A</td></tr><tr><td>-MSLCHTRD</td><td>-RHRV53A, B</td></tr><tr><td>-MSLCV1A</td><td>-RHRV6A</td></tr><tr><td>-MSLCV1B</td><td>-SLCP1A</td></tr><tr><td>-MSOCV1C</td><td>-SLCV1A</td></tr><tr><td>-MSLCV1D</td><td>-SHV44</td></tr><tr><td>-MSLCV2A</td><td></td></tr><tr><td>-MSLCV2B</td><td></td></tr><tr><td>-MSLCV2C</td><td></td></tr><tr><td>-MSLCV2D</td><td></td></tr><tr><td>-MSLCV3A</td><td></td></tr><tr><td>-MSLCV3B</td><td></td></tr><tr><td>-MSLCV3C</td><td></td></tr><tr><td>-MSLCV3D</td><td></td></tr></table>	E-RLY-LPCSFCV11	E-RLY-RHRV11A	-LPCSV1	-RHRV24A	-LPCSV12	-RHRV26A	-LPCSV5	-RHRV27A	-MSLCHTRA	-RHRV3A	-MSLCHTRB	-RHRV4A	-MSLCHTRC	-RHRV42A	-MSLCHTRD	-RHRV53A, B	-MSLCV1A	-RHRV6A	-MSLCV1B	-SLCP1A	-MSOCV1C	-SLCV1A	-MSLCV1D	-SHV44	-MSLCV2A		-MSLCV2B		-MSLCV2C		-MSLCV2D		-MSLCV3A		-MSLCV3B		-MSLCV3C		-MSLCV3D	
E-RLY-LPCSFCV11	E-RLY-RHRV11A																																								
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-MSLCHTRB	-RHRV4A																																								
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WPPSS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-47A

MPL:
PPD:

PAGE NO:
REVISION:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical	OPERATING TIME	6 months		1			Note 1
TAG NUMBER E-SH-10 ⁺ -11 ⁺ -12 ⁺ - 9 ⁺	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
MANUFACTURER Westinghouse	PRESSURE (PSIA)	14.7		2			
MODEL NUMBER 75-DHP-500	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT 6.4KV Switchgear	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE (Note 2)	RADIATION (RAD)	8.3 x 10 ⁵		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION (Note 2) COLUMN (Note 2)	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-522H				1. Failure modes are being evaluated for this component. Preliminary results of the evaluation indicate the component will not fail in a manner detrimental to plant safety. 2. Tag Number Function/Service Elev. Column E-SH-10 ⁺ Switchgear 10 ⁺ 471 I2/9.0 -11 ⁺ 11 ⁺ 522 H8/7.4 -12 ⁺ 12 ⁺ 522 H5/8.0 - 9 ⁺ 9 ⁺ 471 K3/9.0			

WPPSS



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-TR-7BA -7BB MANUFACTURER Sorgel MODEL NUMBER 3503/12B15 COMPONENT Transformer FUNCTION/SERVICE ELP-7B-A Transformer LOCATION: BLDG R ELEVATION 606, 478 COLUMN J.6/3.7, H.4/3.8	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A					
	RADIATION (RAD)	5.0 x 10 ⁵		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chis</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 471A				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



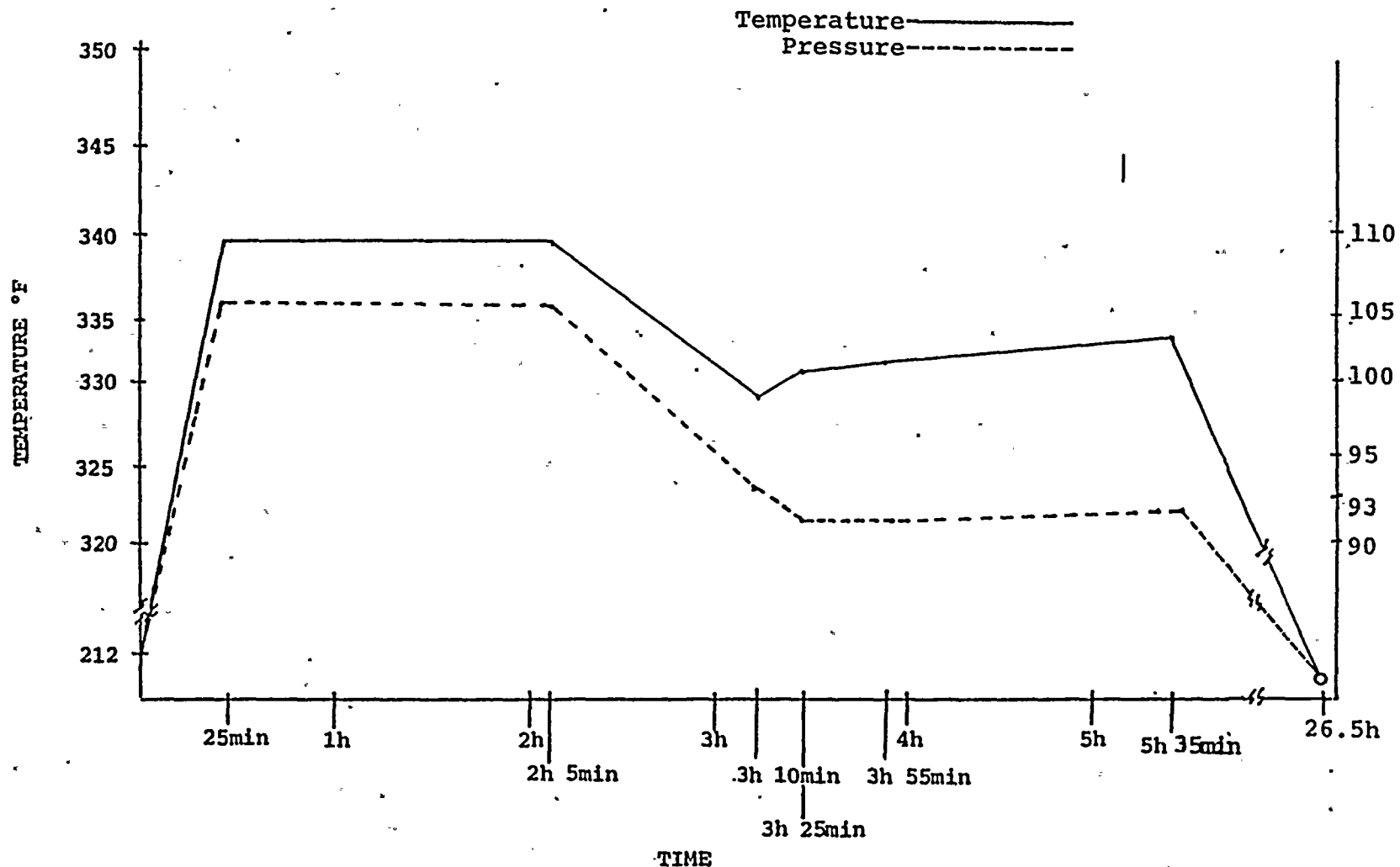
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS																		
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.																				
SYSTEM Electrical TAG NUMBER E-TRB-X104A/01 E-TRB-X104B/01 E-TRB-X104C/01 E-TRB-X104D/01 MANUFACTURER Curtis Industries MODEL NUMBER BT-17 COMPONENT Terminal Block FUNCTION/SERVICE Terminal Block for X-104A to D LOCATION: BLDG C ELEVATION (Note 2) COLUMN (Note 2)	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 3																		
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None																		
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None																		
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None																		
	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None																		
	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None																		
	AGING	40 years	40 years	2	6	Engineering Analysis	None																		
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None																		
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AL 1/6/82</u>																								
DOCUMENTATION REFERENCES				NOTES																					
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. H Test Report PEN-TR-77-83, dated 9/13/77 5. H Test Report PEN-TR-79-23, Rev. 1, dated 5/12/80 6. QID No. 049001, 352001				1. The Terimal Blocks are located inside the inboard penetration enclosures and are, therefore, not exposed to demineralized water spray. 2. <table border="1"> <thead> <tr> <th>Tag Number</th><th>Elev.</th><th>Azimuth</th><th>Tag Number</th><th>Elev.</th><th>Azimuth</th></tr> </thead> <tbody> <tr> <td>E-TRB-X104A/01</td><td>501</td><td>109D</td><td>E-TRB-X104C/01</td><td>522</td><td>188D</td></tr> <tr> <td>E-TRB-X104B/01</td><td>501</td><td>110D</td><td>E-TRB-X104D/01</td><td>522</td><td>223D</td></tr> </tbody> </table> 3. The long-term oporability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.				Tag Number	Elev.	Azimuth	Tag Number	Elev.	Azimuth	E-TRB-X104A/01	501	109D	E-TRB-X104C/01	522	188D	E-TRB-X104B/01	501	110D	E-TRB-X104D/01	522	223D
Tag Number	Elev.	Azimuth	Tag Number	Elev.	Azimuth																				
E-TRB-X104A/01	501	109D	E-TRB-X104C/01	522	188D																				
E-TRB-X104B/01	501	110D	E-TRB-X104D/01	522	223D																				



TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83

Prepared by DN 1/8/82

Reviewed by AN 1/8/82

Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



MPL:
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REVISION:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER (Note 2) MANUFACTURER TRW-Cinch MODEL NUMBER (Note 2) COMPONENT Terminal Block FUNCTION/SERVICE Terminal Block for X-105A to D LOCATION: BLDG C ELEVATION (Note 2) COLUMN (Note 2)	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 3
	TEMPERATURE (F)	135 Max. Normal 150 Max. Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None
	AGING	40 years	40 years	2	6	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. W Test Report PEN-TR-77-83, dated 9/13/77 5. W Test Report PEN-TR-79-23, Rev. 1, dated 5/12/80 6. QID No. 049001, 352002, 352003, 352005				1. The Terminal Block is located inside the inboard penetration enclosure and is, therefore, not exposed to demineralized water spray.			



EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

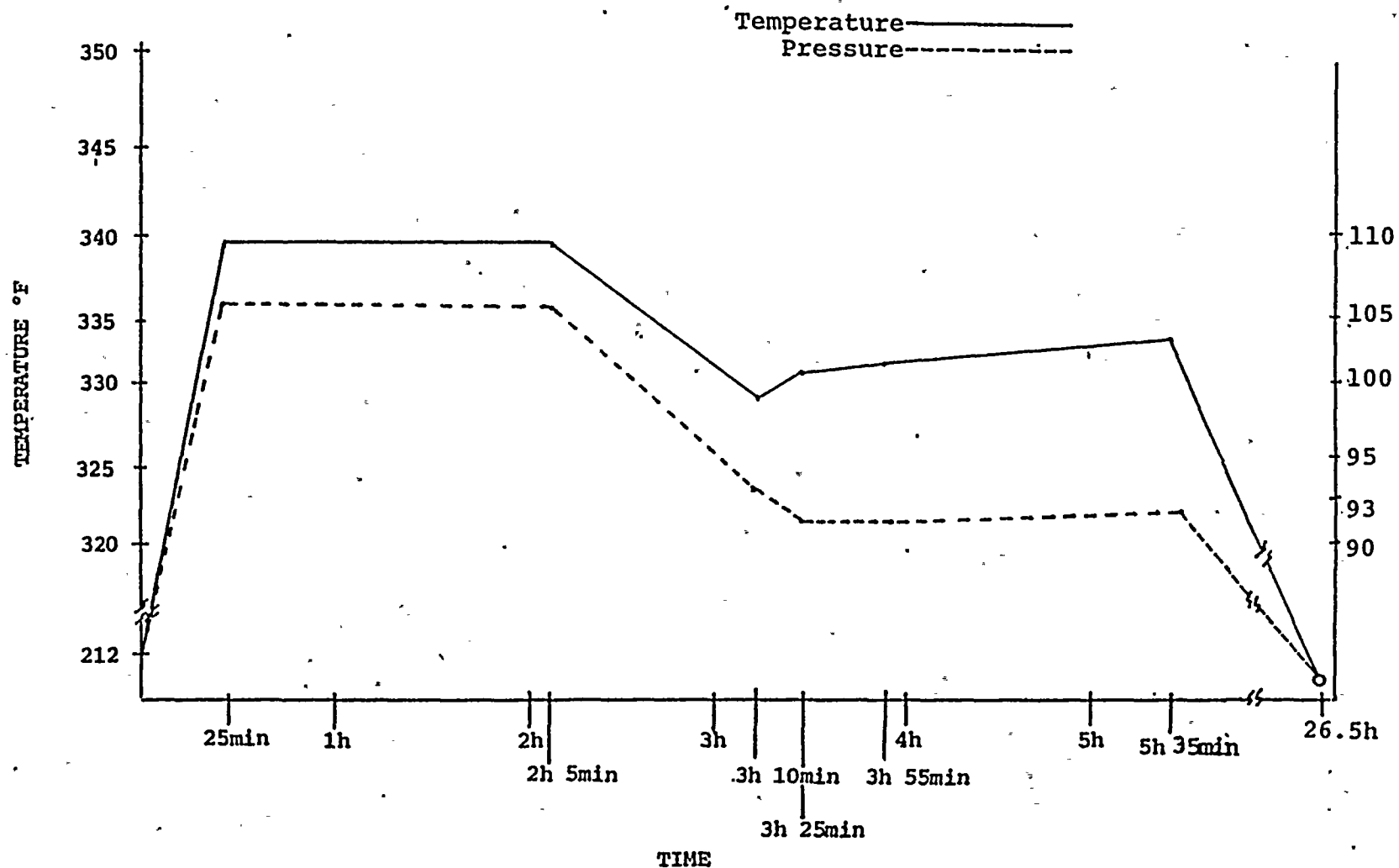
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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)																																				
	<p>2. <table border="1"><thead><tr><th>Taq Number</th><th>Model Number</th><th>Elev.</th><th>Azimuth</th></tr></thead><tbody><tr><td>E-TRB-X105A/01</td><td>27-541</td><td>501</td><td>100 D AZ</td></tr><tr><td>-X105A/02</td><td>13-541</td><td>501</td><td>100 D AZ</td></tr><tr><td>-X105B/01</td><td>27-541</td><td>501</td><td>135 D AZ</td></tr><tr><td>-X105B/02</td><td>13-541</td><td>501</td><td>135 D AZ</td></tr><tr><td>-X105C/01</td><td>27-541</td><td>523</td><td>195 D AZ</td></tr><tr><td>-X105C/02</td><td>13-541</td><td>523</td><td>195 D AZ</td></tr><tr><td>-X105D/01</td><td>27-541</td><td>501</td><td>225 D AZ</td></tr><tr><td>-X105D/02</td><td>13-541</td><td>501</td><td>225 D AZ</td></tr></tbody></table></p> <p>3. The long-term operability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.</p>	Taq Number	Model Number	Elev.	Azimuth	E-TRB-X105A/01	27-541	501	100 D AZ	-X105A/02	13-541	501	100 D AZ	-X105B/01	27-541	501	135 D AZ	-X105B/02	13-541	501	135 D AZ	-X105C/01	27-541	523	195 D AZ	-X105C/02	13-541	523	195 D AZ	-X105D/01	27-541	501	225 D AZ	-X105D/02	13-541	501	225 D AZ
Taq Number	Model Number	Elev.	Azimuth																																		
E-TRB-X105A/01	27-541	501	100 D AZ																																		
-X105A/02	13-541	501	100 D AZ																																		
-X105B/01	27-541	501	135 D AZ																																		
-X105B/02	13-541	501	135 D AZ																																		
-X105C/01	27-541	523	195 D AZ																																		
-X105C/02	13-541	523	195 D AZ																																		
-X105D/01	27-541	501	225 D AZ																																		
-X105D/02	13-541	501	225 D AZ																																		

WP-1083

Prepared by: JDM 1/6/82Reviewed by: AN 1/6/82



TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83

Prepared by DN 1/8/82

Reviewed by AN 1/8/82

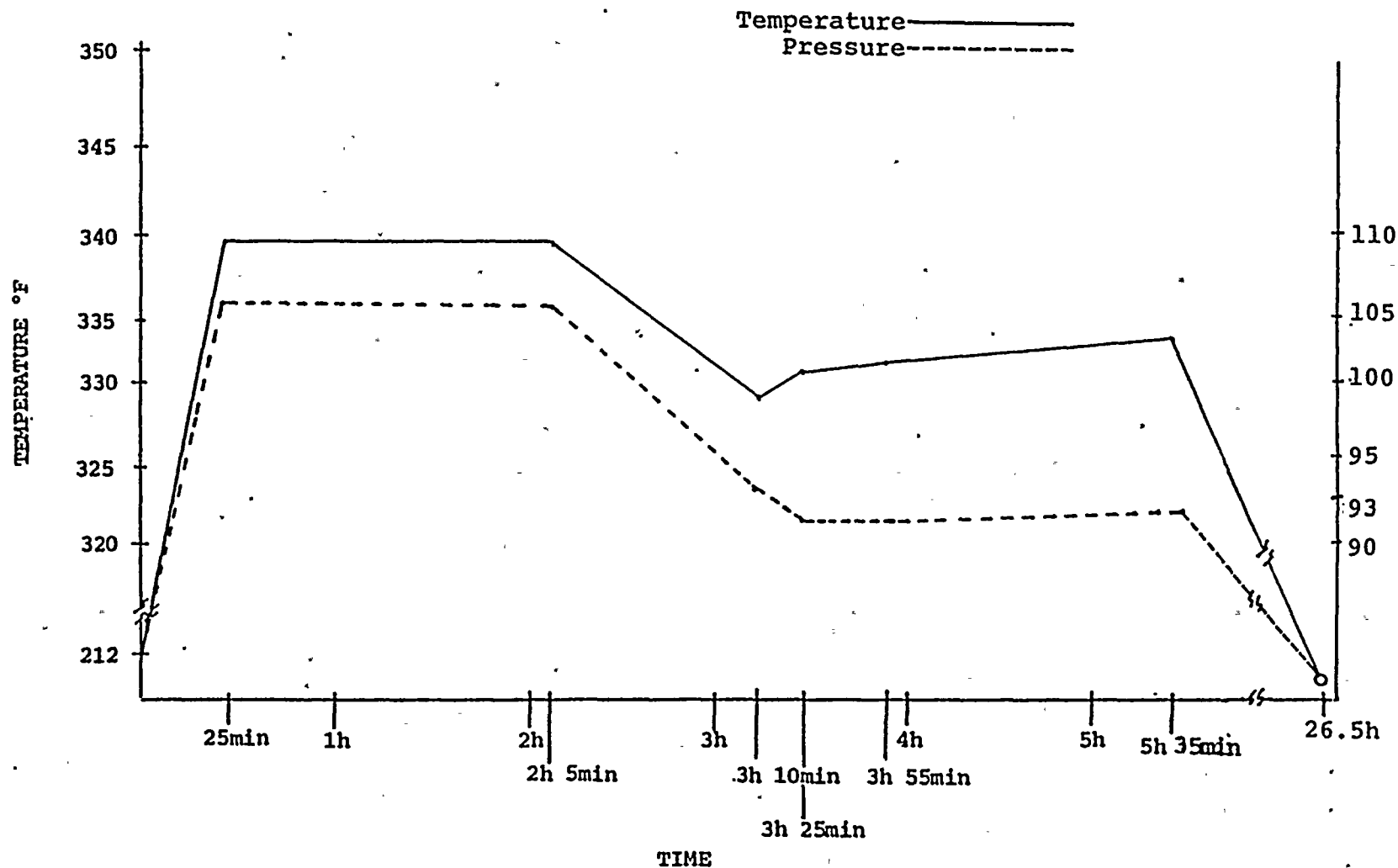
Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

MPL:
PPD:

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REVISION:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-TRB-X107A/01 MANUFACTURER Curtis Industries MODEL NUMBER BT-15 COMPONENT Terminal Block FUNCTION/SERVICE Terminal Block for X-107A LOCATION: BLDG C ELEVATION 501 COLUMN 52 D AZ	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 2
	TEMPERATURE (F)	135 Max. Normal 150 Max. Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None
	AGING	40 years	40 years	2	6	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. W Test Report PEN-TR-77-83, dated 9/13/77 5. W Test Report PEN-TR-79-23, Rev. 1 dated 5/12/80 6. QID No. 049001, 352001				1. The Terminal Block is located inside the inboard penetration enclosure and is, therefore, not exposed to demineralized water spray. 2. The long-term operability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.			



TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83

Prepared by DN 1/8/82

Reviewed by AN 1/8/82

Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min



WASHINGTON POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

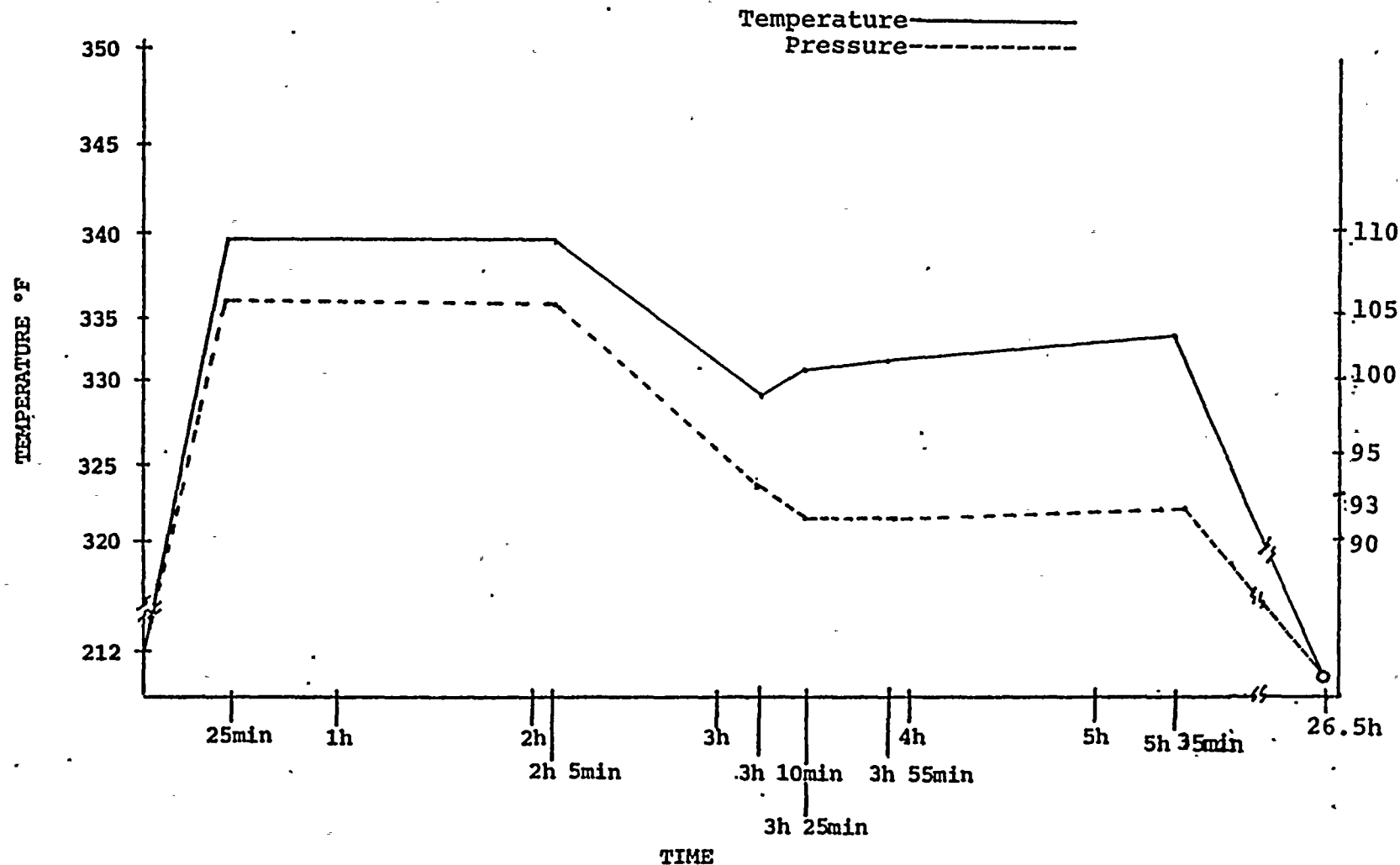


OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-TRB-X107A/02 MANUFACTURER TRW-Cinch MODEL NUMBER 25-541 COMPONENT Terminal Block FUNCTION/SERVICE Terminal Block for X-107A LOCATION: BLDG C ELEVATION 501 COLUMN 52 D AZ	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 2
	TEMPERATURE (F)	135 Max. Normal 150 Max. Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None
	AGING	40 years	40 years	2	6	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. W Test Report PEN-TR-77-83 dated 9/13/77 5. W Test Report PEN-TR-79-23, Rev. 1 dated 5/12/80 6. QID No. 049001, 352004				1. The Terminal Block is located inside the inboard penetration enclosure and is, therefore, not exposed to demineralized water spray. 2. The long-term operability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.			



TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83.

Prepared by DN

Reviewed by AN

Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min





WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



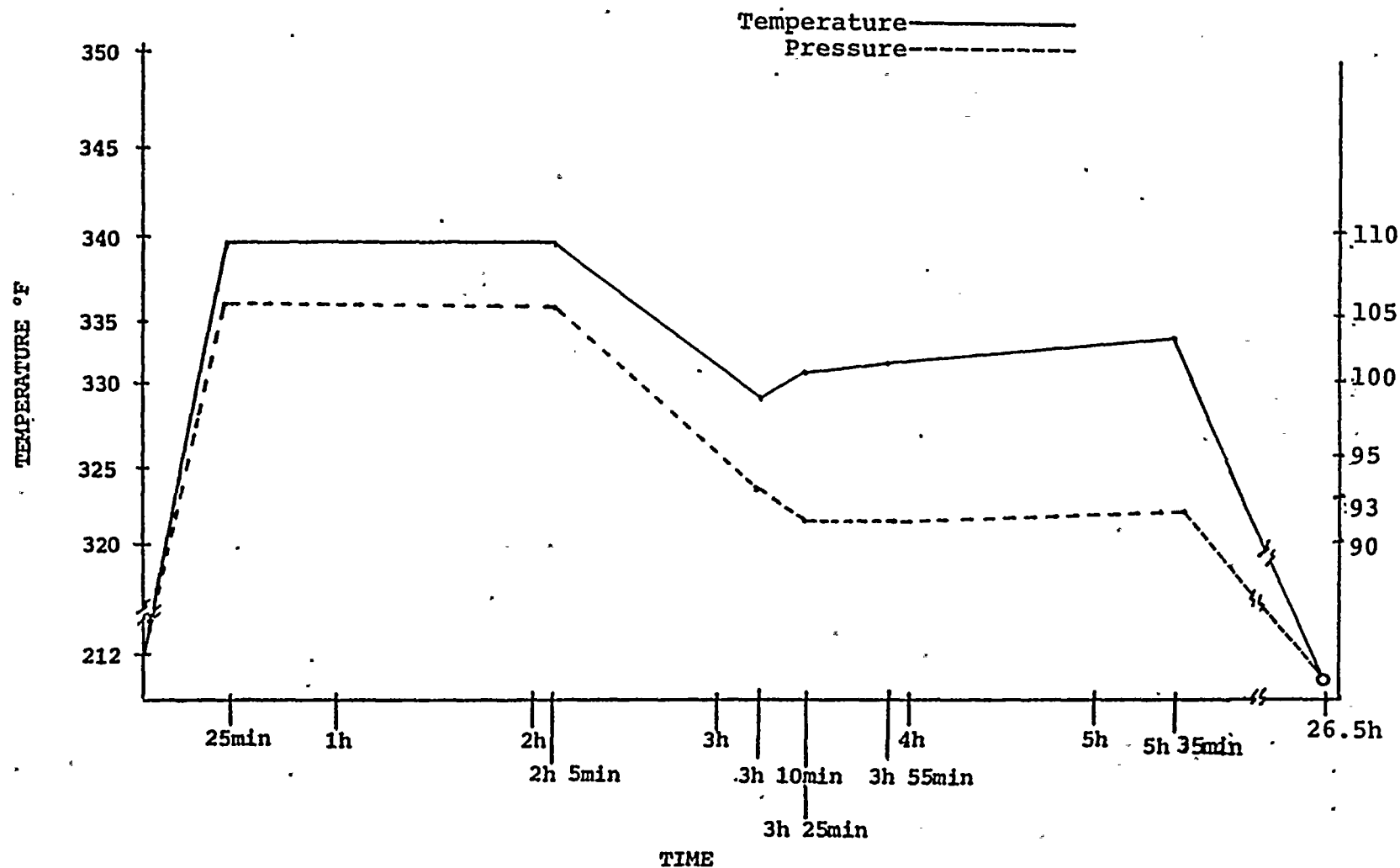
OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

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REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER E-TRB-X107B/01 MANUFACTURER Curtis Industries MODEL NUMBER BT-15 COMPONENT Terminal Block FUNCTION/SERVICE Terminal Block for X-107B LOCATION: BLDG C ELEVATION 441 COLUMN 150 D AZ	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 2
	TEMPERATURE (F)	135 Max. Normal 150 Max. Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None
	AGING	40 years	40 years	2	6	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. W Test Report PEN-TR-77-83 dated 9/13/77 5. W Test Report PEN-TR-79-23, Rev. 1 dated 5/12/80 6. QID No. 049Q01, 352001				1. The Terminal Block is located inside the inboard penetration enclosure and is, therefore, not exposed to demineralized water spray. 2. The long-term operability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.			





TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83

Prepared by DN

Reviewed by AN

Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

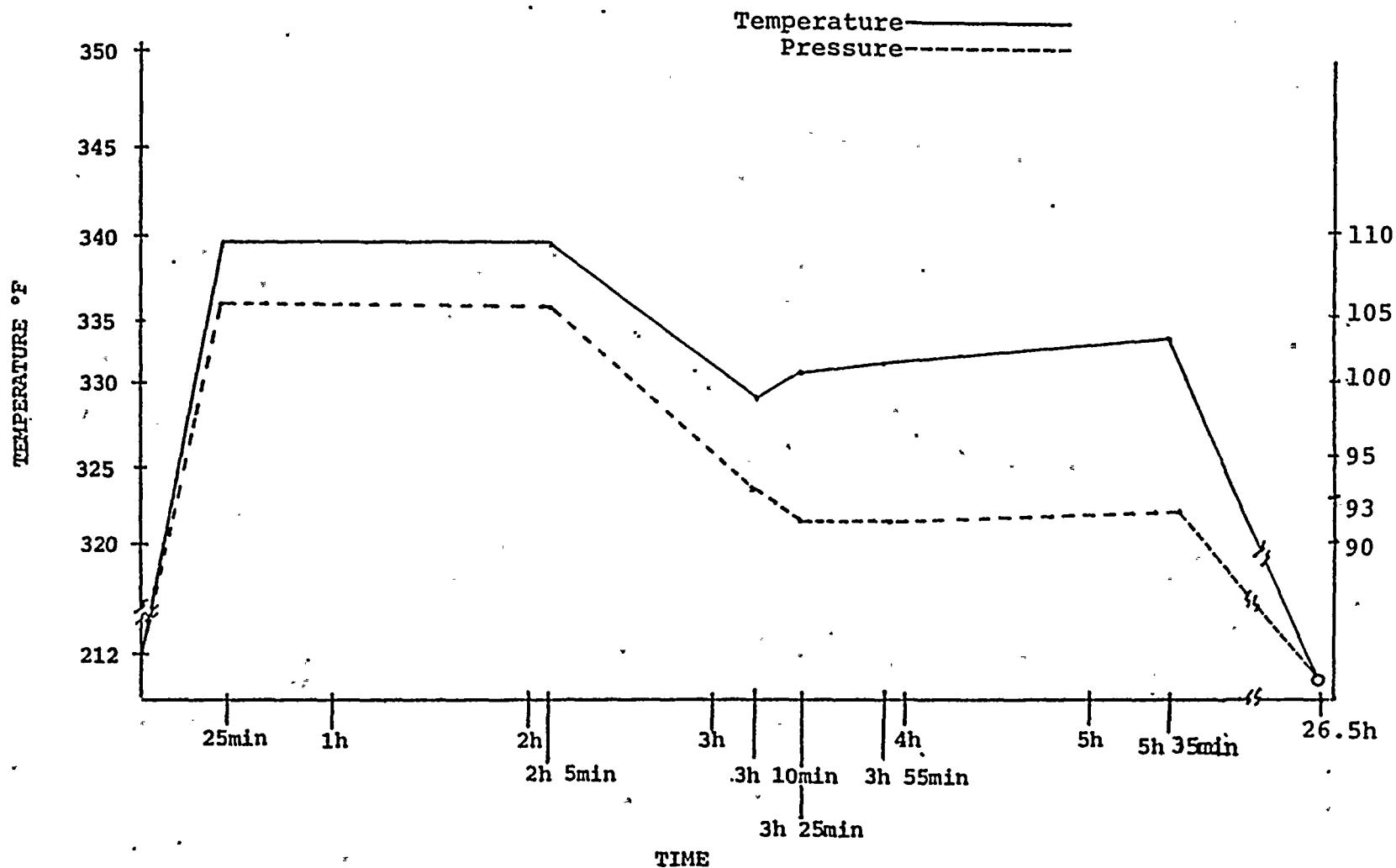
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PPD:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM EQUIPMENT QUALIFICATION REPORT

PAGE NO:
REVISION:
DATE:



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None Note 2
TAG NUMBER E-TRB-X107B/02	TEMPERATURE (F)	135 Max. Normal 150 Max. Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER TRW-Cinch	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 25-541	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Terminal Block	CHEMICAL SPRAY	Demineralized Water	Note 1	2	6	Engineering Analysis	None
FUNCTION/SERVICE Terminal Block for X-107B	RADIATION (RAD)	4.4×10^7	2.2×10^8	3	5	Sequential Test and Engineering Analysis	None
	AGING	40 years	40 years	2	6	Engineering Analysis	None
LOCATION: BLDG C ELEVATION 441 COLUMN 135 D AZ	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. W Test Report PEN-TR-77-83, dated 9/13/77 5. W Test Report PEN-TR-79-23, Rev. 1, dated 5/12/80 6. QID No. 049001, 352004				1. The Terminal Block is located inside the inboard penetration enclosure and is, therefore, not exposed to demineralized water spray. 2. The long-term operability of these terminal blocks for post-LOCA service is currently being investigated. Requalification/replacement will be implemented if required.			



TERMINAL BLOCK TEST PROFILE

W Report No. PEN-TR-77-83

Prepared by DN 1/8/82

Reviewed by AN 1/8/82

Borated H₂O introduced for 1 hour
3h 15 min to 4h 15 min



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER (Note 2)	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Westinghouse	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 55-00-0002	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Primary Containment Penetration	CHEMICAL SPRAY	Demineralized Water Spray	Note 3	2		Engineering Analysis	None
FUNCTION/SERVICE (Note 2)	RADIATION (RAD)	4.4×10^7	8×10^7	3	4	Sequential Test and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
LOCATION: BLDGC ELEVATION (Note 2) COLUMN (Note 2)	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/6/82</u> Reviewed by: <u>AN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1 Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. The Qualification of a Modular Type Electrical Penetration Following the Requirements of IEEE STDS 317-1972 and 323-1974, W Report No. PEN-TR-75-19, dated 9/11/75.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-55

MPL:
PPD:

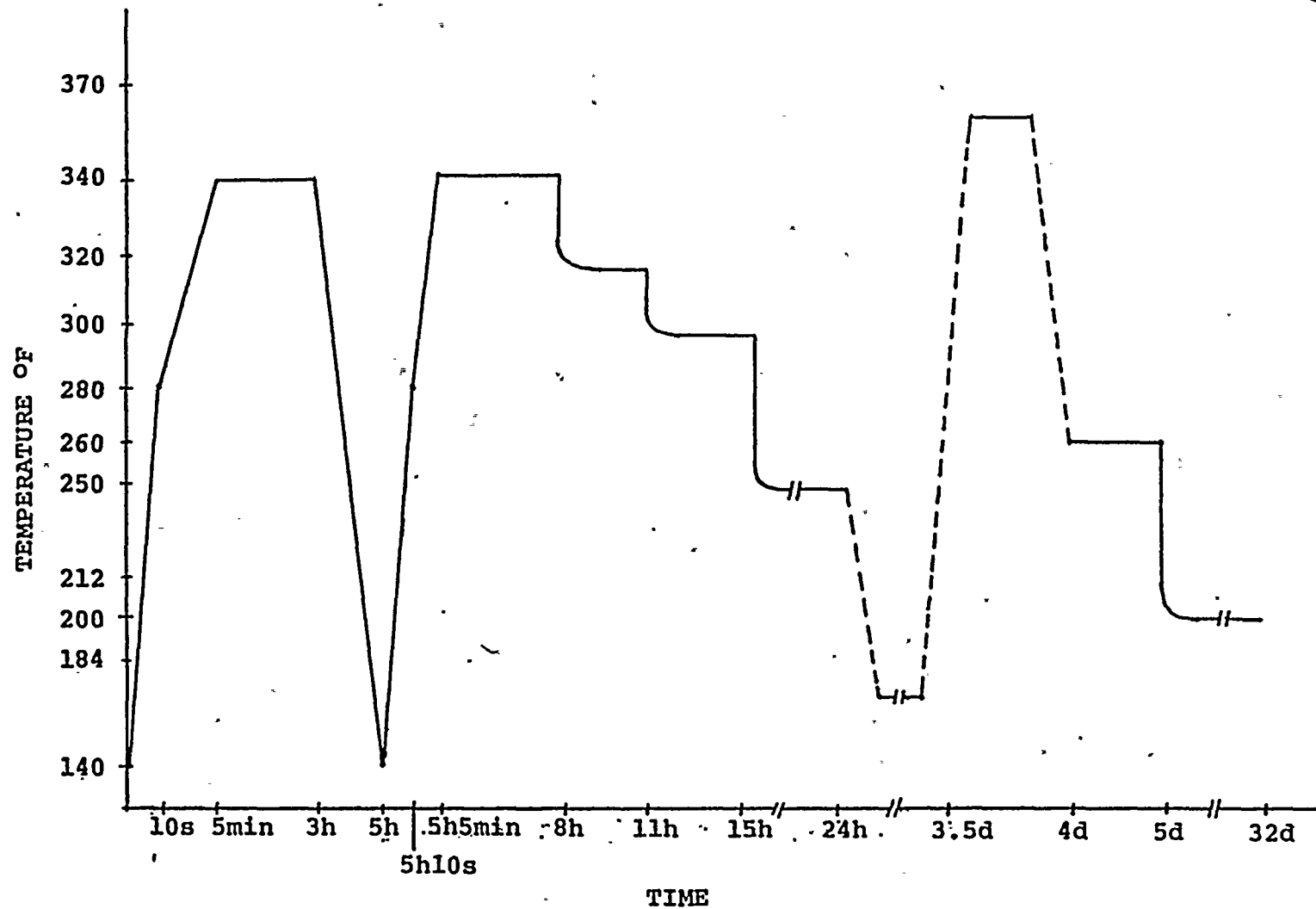
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DOCUMENTATION REFERENCES (Cont'd)

NOTES (Cont'd)

2.	Tag Number	Function/Service	Elev.	Azimuth
	E-X-100A	Neu. Mont. Sys. Penetration	501	98
	-100B	Neu. Mont. Sys. Penetration	501	105
	-100C	Neu. Mont. Sys. Penetration	501	315
	-100D	Neu. Mont. Sys. Penetration	501	330
	-101A	CRD Position Ind. Penetration	501	130
	-101B	CRD Position Ind. Penetration	501	140
	-101C	CRD Position Ind. Penetration	501	312
	-101D	CRD Position Ind. Penetration	501	320
	-102A	T/C and RTD Penetration	522	183
	-102B	T/C and RTD Penetration	522	220
	-103A	Med. Voltage Power Penetration	522	208
	-103B	Med. Voltage Power Penetration	522	213
	-103C	Med. Voltage Power Penetration	522	305
	-103D	Med. Voltage Power Penetration	522	325
	-104A	Low Voltage Power Penetration	501	109
	-104B	Low Voltage Power Penetration	501	110
	-104C	Low Voltage Power Penetration	522	188
	-104D	Low Voltage Power Penetration	522	223
	-105A	Control & Indication Penetration	501	100
	-105B	Control & Indication Penetration	501	135
	-105C	Control & Indication Penetration	523	195
	-105D	Control & Indication Penetration	501	225
	-107A	Low Volt. Pwr./Cntl./Ind. Pen.	501	52
	-107B	Low Volt. Pwr./Cntl./Ind. Pen.	441	250

3. The inboard end of the penetration is enclosed by the inboard penetration enclosure and, therefore, will not be exposed to demineralized water spray.



TEST PROFILE FOR W PENETRATION

Pressure Corresponds to
Saturated Steam Pressure

Prepared by: DN 1/7/82

Reviewed by: AN 1/7/82

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
PPD:

PAGE NO:
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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER See Next Page MANUFACTURER ITE Imperial MODEL NUMBER Various sizes COMPONENT Motor Starter FUNCTION/SERVICE Motor Starters LOCATION: BLDG R ELEVATION 522-H.0/3.8 COLUMN 572-H.5/6.0 522-H.7/8.3	OPERATING TIME	6 months	N/R	2	4	Note 1	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 108 max. accident	N/R	1	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	1	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal	N/R	1	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.6x10 ⁴	Note 2	3	5	Note 2	Note 2
	AGING	40 years	40 years	1	4	Note 3	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiler</u> Reviewed by: <u>W. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Para. 3.11 2. WNP-2 1E Equipment List 12/16/81 3. EDS Reports 0740-004-522D, -572D and -572H 4. EDI-4.8, Paragraph 5.1, I. 5. Letter WPBR-R0-81-105, dated 7/29/81				1. These components are located in an isolated room serviced by Class 1 HVAC. Therefore, the room is a mild environment for these service conditions. 2. Shielded doors are being installed in this room to make it a mild environment (TID <10 ⁴ rad). 3. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<u>Tag Numbers</u>
	E-42-CAC/EHC1A,1B
	CAC/FN1A,1B
	CAC/1AFDR
	CAC/1BFDR
	CACEHC1A
	CIA/V30B
	FPC/V153
	FPC/V173
	FPC/V175
	FPC/V181B
	FPC/V184
	MS/V16
	MSLC/FN2
	MSLC/V10
	MSLC/V4
	MSLC/V5
	MSLC/V9
	RHR/V24A,B
	RHR/V26A
	RHR/V27A
	RHR/V3A,B
	RHR/V4A,B,C
	RHR/V42A,B,C
	RHR/V47A,B
	RHR/V48A,B
	RHR/V49
	RHR/V52A,B
	RHR/V6B
	RHR/V68A,B
	RHR/73A,B
	RHR/74A,B
	RHR/V87A,B
	RHR/V9
	SLC/V1B
	SW/V187B
	SW/V24B,C
	RCC/V104
	RCC/V129
	RCIC/V63
	RCIC/V76
	RHR/FCV64B,C
	RHR/V11B
	RHR/V115
	RHR/V116
	RHR/V123A,B
	RHR/V124B
	RHR/V125A,B
	RHR/V134AB
	RHR/V16A,B
	RHR/V17A,B
	RHR/V21
	RRA/FN1,10,13,14,15,17,20,3,6
	RWCU/V1
	SGT/EHC1B1
	SGT/FN1A1,1A2,1B1,1B2
	SGT/V1A,B
	SGT/V3A1,2
	SGT/V3B1,2
	SGT/V4A1,2
	SGT/V4B1,2
	SGT/V5A1,2
	SGT/V5B1,2
	SGT/EHC1A2
	SGT/EHC1B1,2
	SLC/P1B

WPPSS
FACILITY: WNP-2
SPEC:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical TAG NUMBER See Next Page MANUFACTURER ITE Imperial MODEL NUMBER Various Sizes COMPONENT Motor Starters FUNCTION/SERVICE Motor Starters LOCATION: BLDG R ELEVATION 471-H.7/7.8 COLUMN 522-H.7/8.3	OPERATING TIME	6 months	N/R	2	4	Note 1	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 108 max accident	N/R	1	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	1	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 max normal 90 abnormal	N/R	1	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.5 x 10 ³	N/R	3	4	Note 1	None
	AGING	40 years	40 years	1	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Alan Seiber</u> Reviewed by: <u>W. J. Anderson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Paragraph 3.11 2. WNP-2 IE Equipment List, dated 12/16/81 3. EDS Reports 0740-004-471H and 522H 4. EDI-4.8, Paragraph 5.1, I				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10 ⁴ rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			





WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

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DATE:

DOCUMENTATION REFERENCES (Cont'd)

NOTES (Cont'd)

TAG NUMBERS

E-42-CIA/V20
CIA/V30A
FPC/V154
FPC/V156
FPC/V172
FPC/V181A
LPCS/FCV11
LPCS/P2
LPCS/V1
LPCS/V12
LPCS/V5
MS/V67A, B, C, D
MS/V67D
MSLC/FN1
MSLC/V1A, B, C, D
MSLC/V2A, B, C, D
MSLC/V3A, B, C, D
RCC/V21
RCC/V40
RCC/V5
RCIC/V13
RCIC/V64
RCIC/V69
RHR/FCV64A
RHR/P3
RHR/V8
RHR/V11A
RHR/V124A
RHR/V134A
RHR/V23
RHR/V53A, B
RHR/V6A
RRA/FN11, 12, 2, 5, 6
RRC/V16A, B
RNCU/V4
SLC/P1A
SLC/V1A
SW/V187A
SW/V-24A
SW/V44
SW/V75A, B



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-47A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

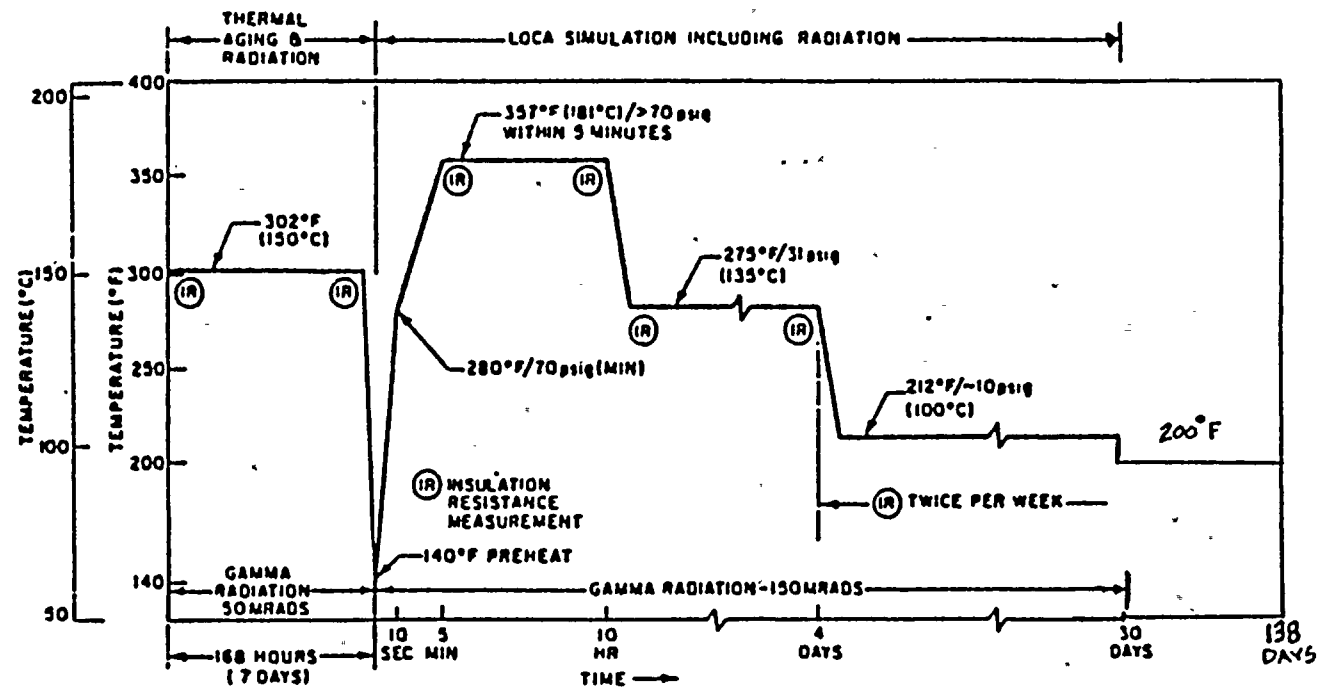
EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS																				
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL																						
SYSTEM Electrical TAG NUMBER E-CB-RPT3A -RPT3B -RPT4A -RPT4B MANUFACTURER Westinghouse MODEL NUMBER 24Y9836B11 COMPONENT Circuit Breaker FUNCTION/SERVICE (Note 2) LOCATION: BLDG R ELEVATION (Note 2) COLUMN (Note 2)	OPERATING TIME	6 months		1			Note 1																				
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2																							
	PRESSURE (PSIA)	14.7		2																							
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2																							
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None																				
	RADIATION (RAD)	8.3×10^5		3																							
	AGING	40 years		2																							
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None																				
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/81</u>																										
DOCUMENTATION REFERENCES				NOTES																							
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H				1. Failure modes are being evaluated for this component. Preliminary results of the evaluation indicate the component will not fail in a manner detrimental to plant safety. 2. <table border="1"><thead><tr><th>Tag Number</th><th>Function/Service</th><th>Elev.</th><th>Column</th></tr></thead><tbody><tr><td>E-CB-RPT3A</td><td>Dual Trip Brkr to</td><td>471</td><td>L/9.0</td></tr><tr><td>RPT4A</td><td>RRC-P-1A</td><td>522</td><td>M8/7.4</td></tr><tr><td>RPT3B</td><td>Dual Trip Brkr to</td><td>471</td><td>K3/9.0</td></tr><tr><td>RPT4B</td><td>RRC-P-1B</td><td>522</td><td>M7/8.2</td></tr></tbody></table>				Tag Number	Function/Service	Elev.	Column	E-CB-RPT3A	Dual Trip Brkr to	471	L/9.0	RPT4A	RRC-P-1A	522	M8/7.4	RPT3B	Dual Trip Brkr to	471	K3/9.0	RPT4B	RRC-P-1B	522	M7/8.2
Tag Number	Function/Service	Elev.	Column																								
E-CB-RPT3A	Dual Trip Brkr to	471	L/9.0																								
RPT4A	RRC-P-1A	522	M8/7.4																								
RPT3B	Dual Trip Brkr to	471	K3/9.0																								
RPT4B	RRC-P-1B	522	M7/8.2																								

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62 B

MPL:
PPD:

PAGE NO:
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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-G2/1 E-CBL-H1/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER WITC12B6 J2TC10B10	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRC Report C4033-3, dated 1/75. 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



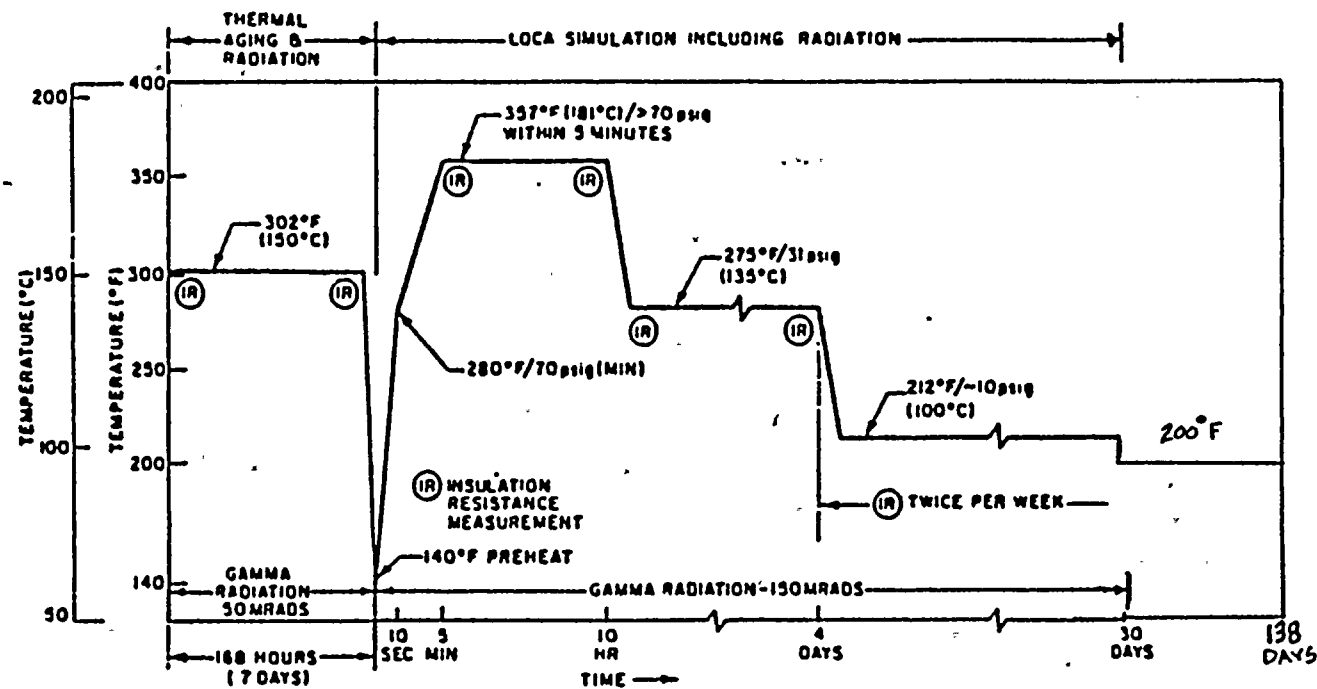
RAYCHEM CABLE

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62B

MPL:
PPD:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-K2/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 60/7174-20	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRC Report P-C4033-3, dated 1/75 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



RAYCHEM CABLE



WASHINGTON POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



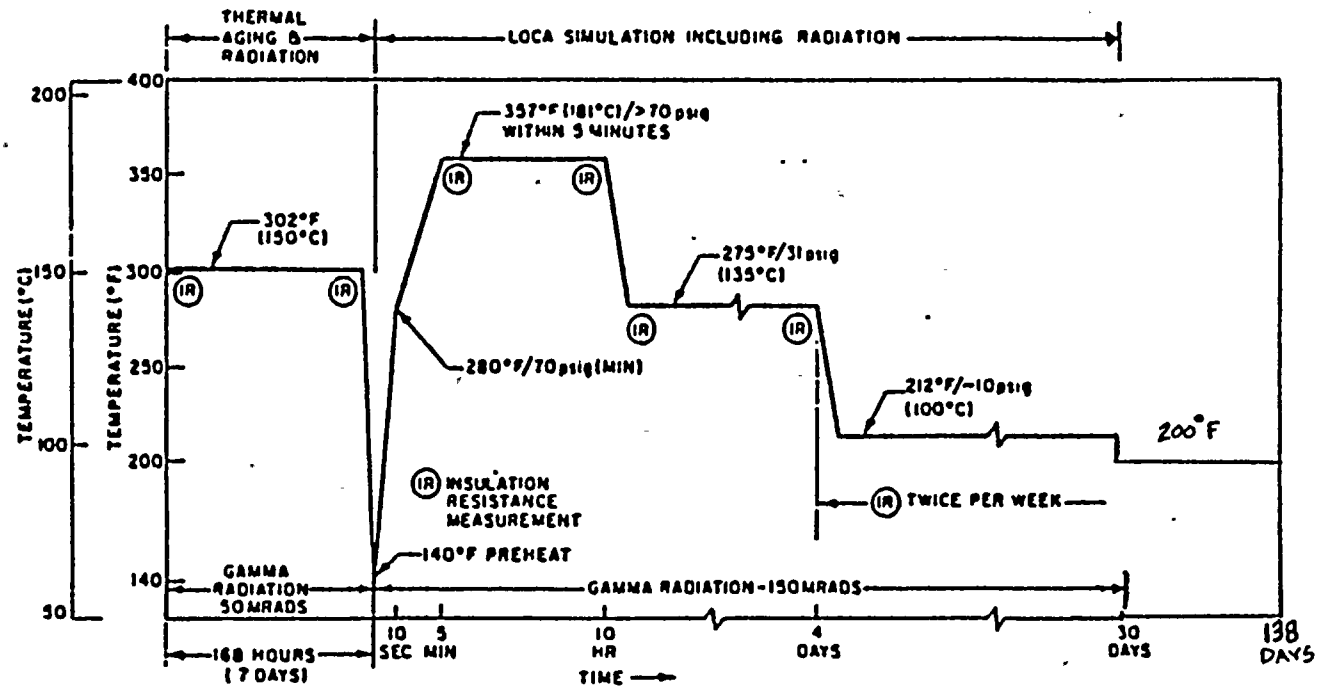
OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62 B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-J2/1 E-CBL-J3/1 E-CBL-J4/1 E-CBL-K1/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER See Note 2	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRC Report F-C4033-3, dated 1/75. 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables. 2. F6T2KX18A6 F2T2JX16A6 F2EX16A6 J2TC14B6C1			

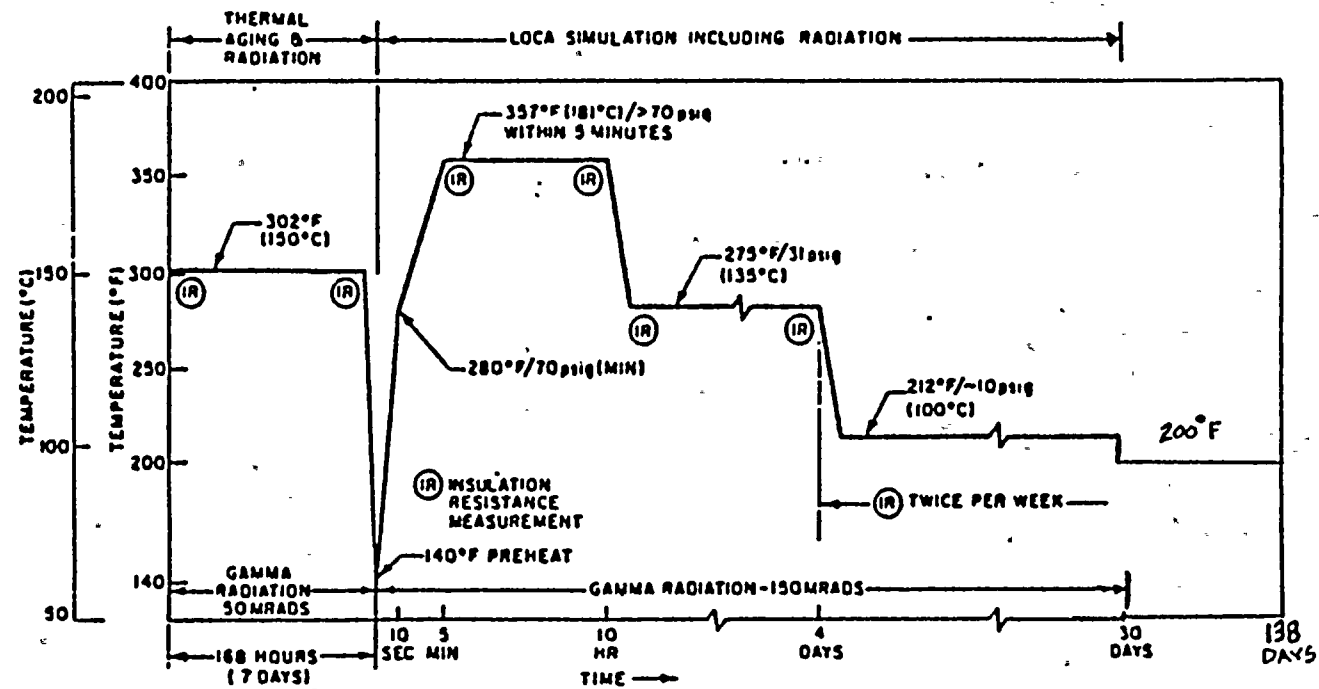




RAYCHEM CABLE

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62BMPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-H4/3 E-CBL-J1/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 60/7176-14 F2T2X16A6	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRC Report P-C4033-3, dated 1/75 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



RAYCHEM CABLE



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

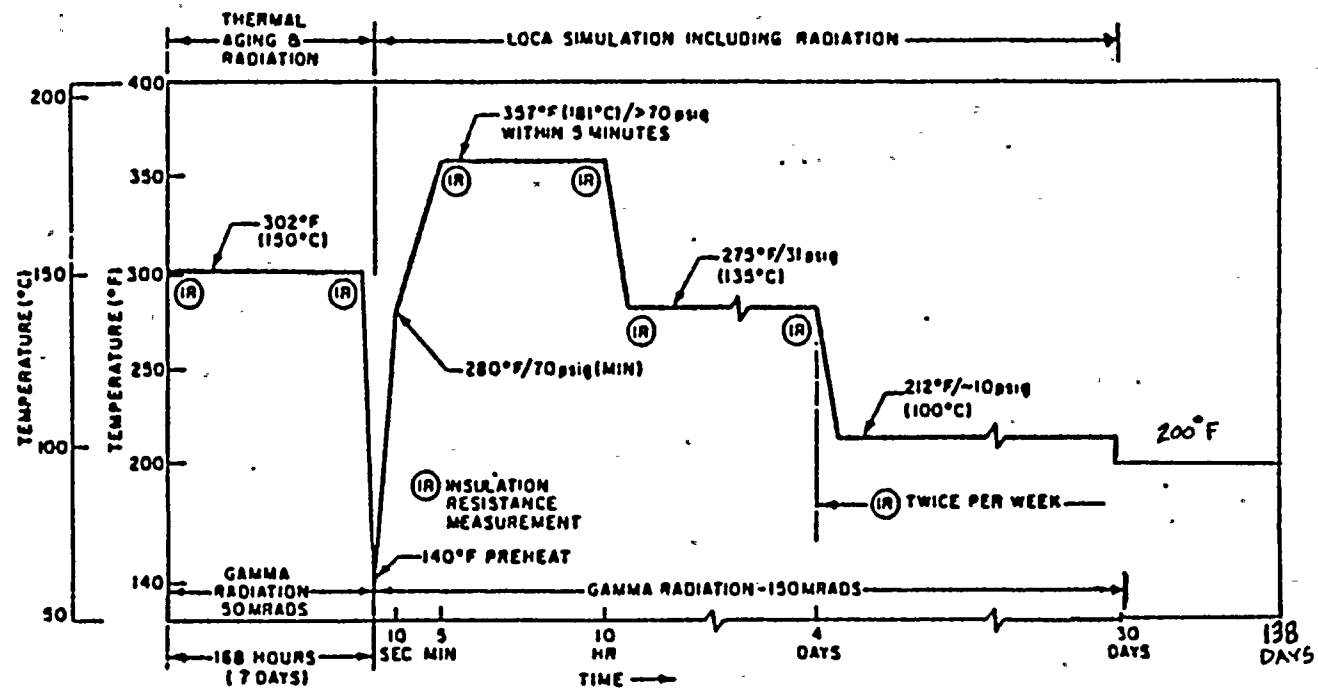
OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-H3/1 E-CBL-H4/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER FSTC10B10 FB/2TC16B10	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1.	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. PIRL Report P-C4033-3, dated 1/75 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



RAYCHEM CABLE

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM . Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER Note 2	TEMPERATURE (F)	135 Max Normal 150 Max Accident See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Raychem	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER Note 2	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Conduct Current	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG General Plant ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRC Report P-C4033-3, dated 1/75. 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62B

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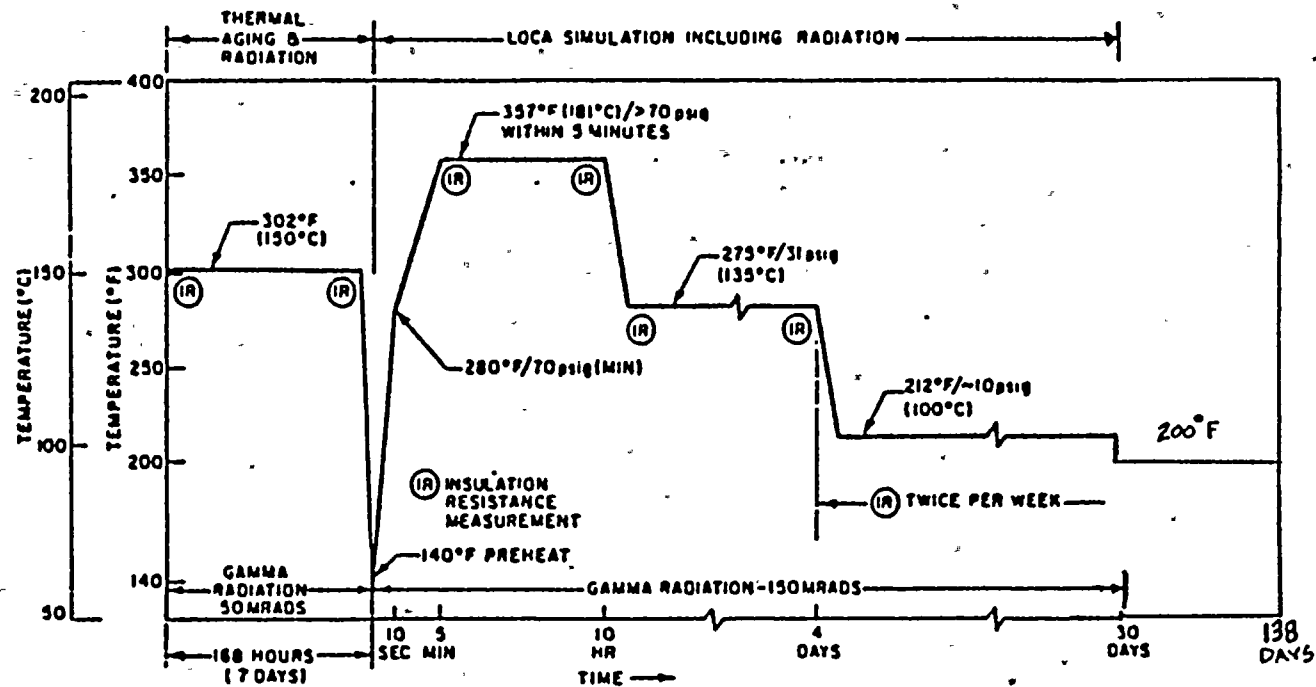
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DOCUMENTATION REFERENCES (Cont'd)

NOTES (Cont'd)

2. Tag No. Model No.

E-CBL-K3/3	W1TC20B20
E-CBL-K4/1	60/7237
E-CBL-L1/1	F1TC1686
E-CBL-L1/2	J3T1TC16B6
E-CBL-L1/3	J3T1TC12B10
E-CBL-L2/1	J12T2TC20B6
E-CBL-L4/1	B12C20B10
E-CBL-M1/21	7521D3330
E-CBL-M4/22	10483
E-CBL-M5/22	10481
E-CBL-M6/26	10567 R.F.
E-CBL-M7/18	10566 R.F.
E-CBL-X100A/01	10496-750HM
E-CBL-X100A/02	10495-1350HM



RAYCHEM CABLE



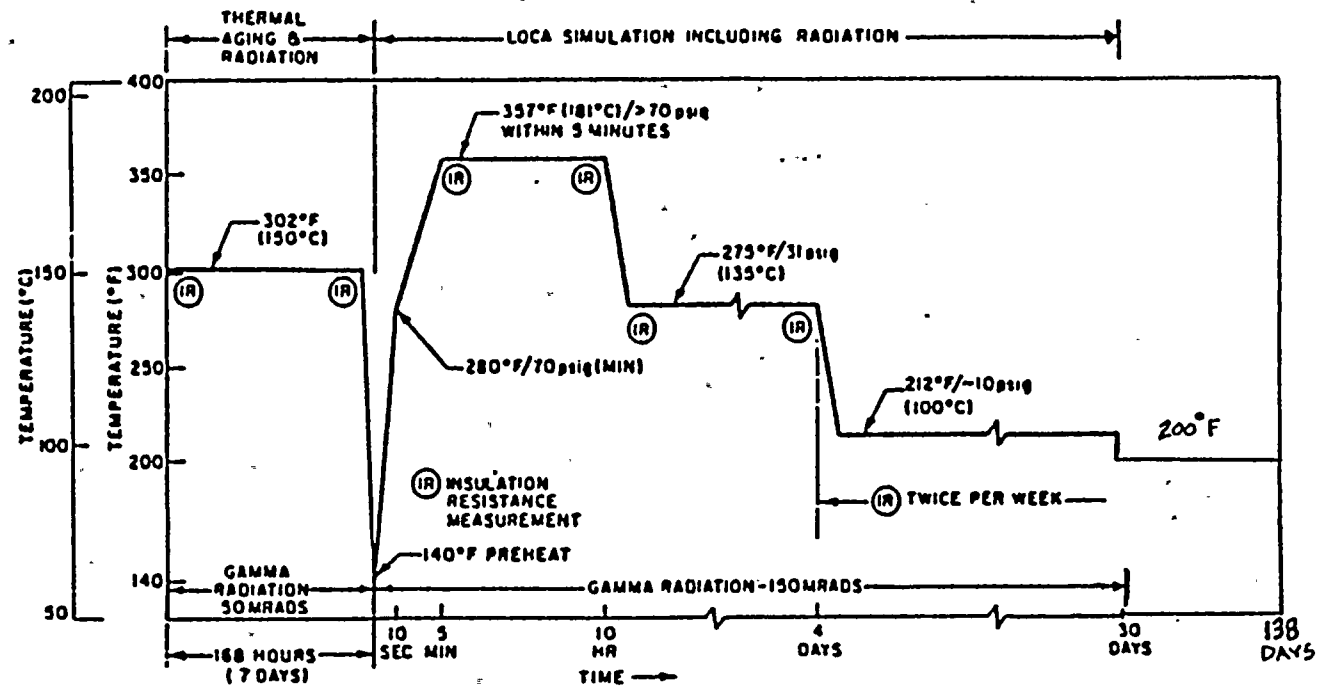
WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-G1/1 E-CBL-G1/14 MANUFACTURER Raychem MODEL NUMBER WITC750B10 60/7175 COMPONENT Electrical Cable FUNCTION/SERVICE Conduct Current LOCATION: BLDG General Plant ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Test	None
	RADIATION (RAD)	4.4×10^7	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Tests of Raychem Thermofit Insulation Systems Under Simultaneous Exposure of Heat, Gamma Radiation, Steam and Chemical Spray. FIRE Report F-C4033-3, dated 1/75. 5. Raychem Report RABR-62B-75-028 Trans. 187-36B				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



RAYCHEM CABLE

EQUIPMENT QUALIFICATION REPORT

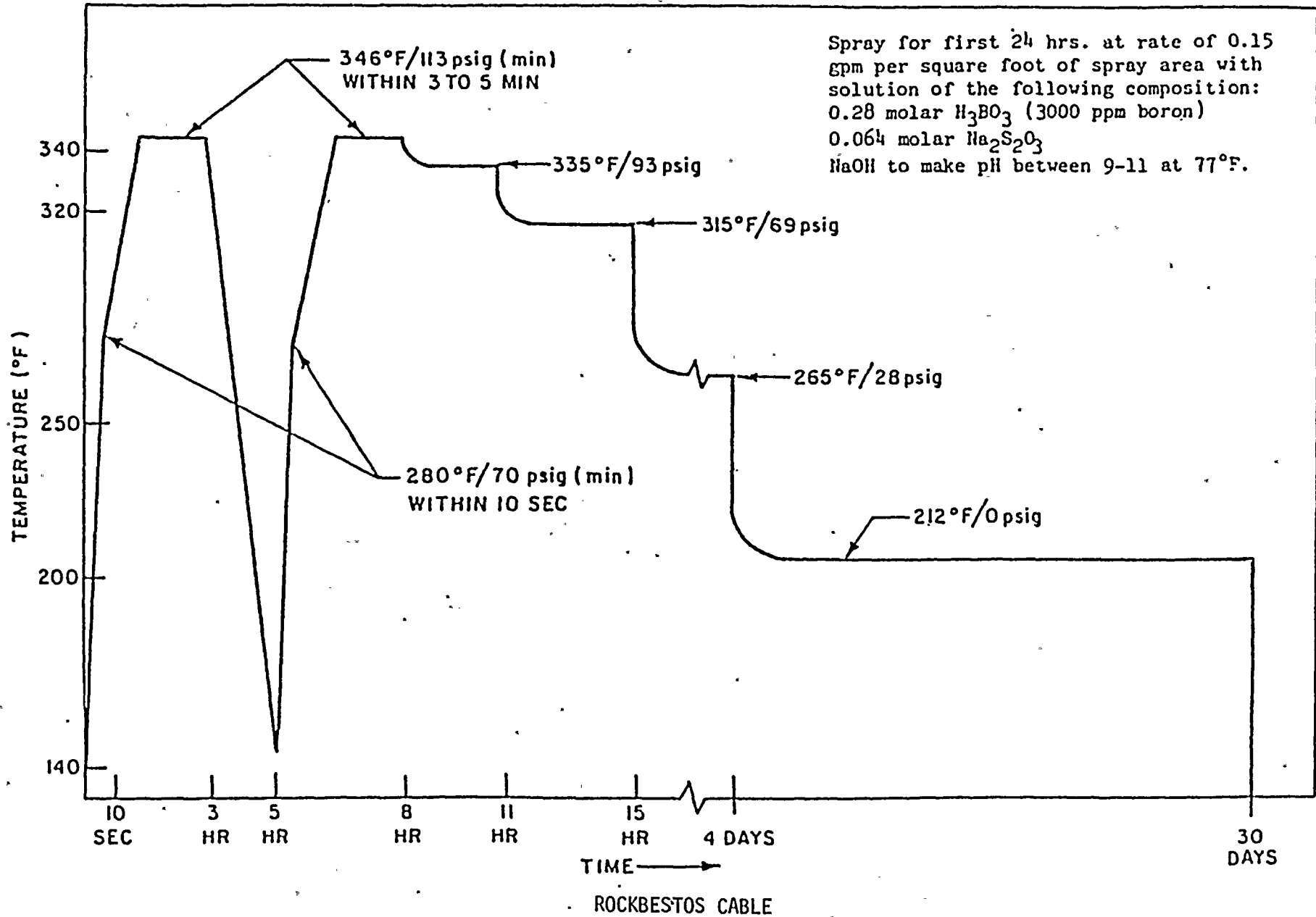
OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-J1/1/C MANUFACTURER Rockbestos MODEL NUMBER I67-3154 COMPONENT Electrical Cable FUNCTION/SERVICE Thermocouple Cable LOCATION: BLDG A11 ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Electric Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no affect on the cables.			

LOCA Profile



LOCA PROFILE

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62C

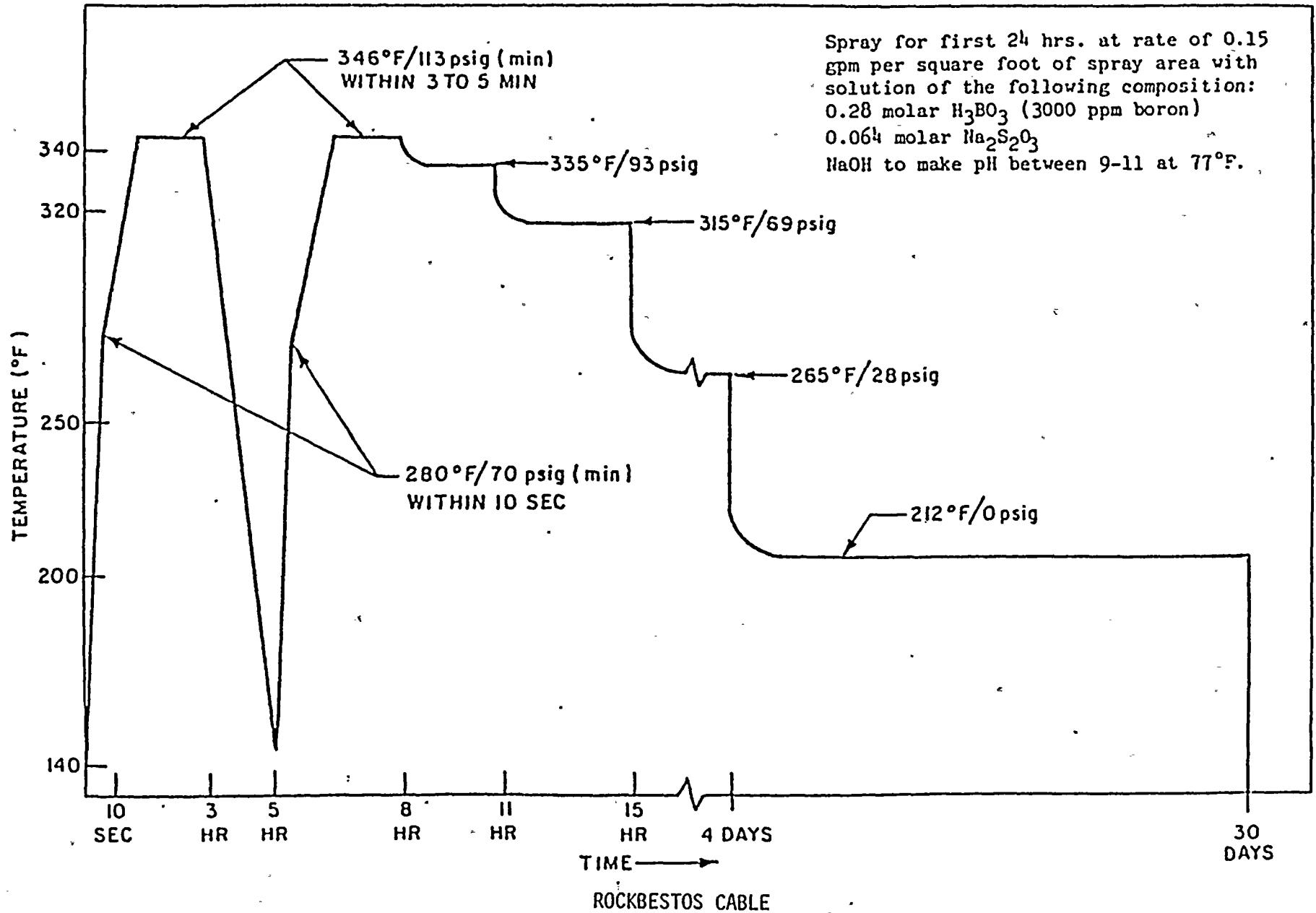
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
TAG NUMBER E-CBL-K2/1/C	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Rockbestos	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER I46-3633	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE Control Rod Indication and Thermocouple Instrumentation Cable	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test	None
LOCATION: BLDG All ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Electrical Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



LOCA Profile



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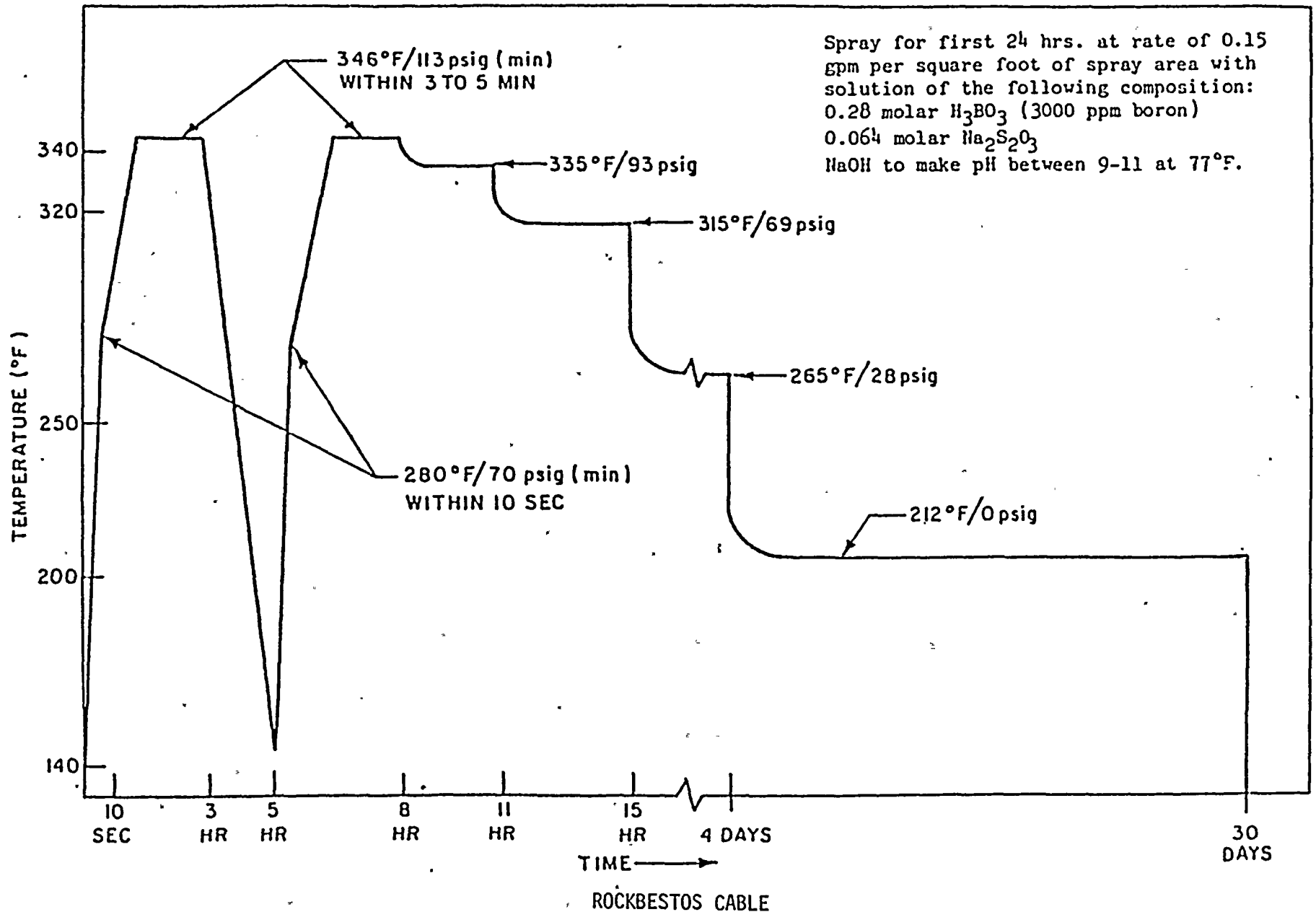


EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-H1/9 MANUFACTURER Rockbestos MODEL NUMBER C52-3220 COMPONENT Electrical Cable FUNCTION/SERVICE 120 Vac and 125 Vdc Control Cable LOCATION: BLDG All ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3.. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Equipment Electric Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

LOCA Profile



LOCA PROFILE



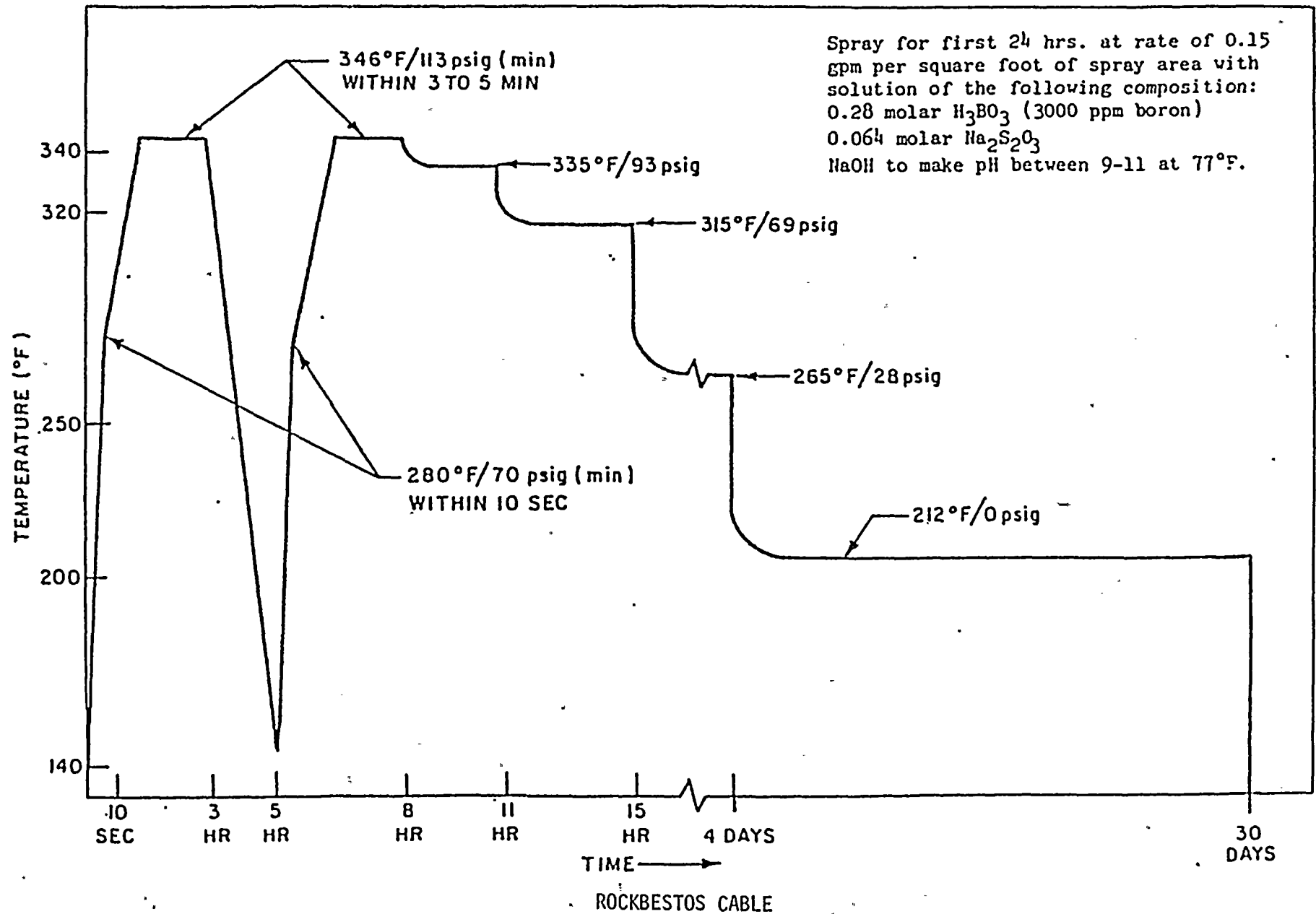
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62CMPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-H4/1/C MANUFACTURER Rockbestos MODEL NUMBER I46-3632 COMPONENT Electrical Cable FUNCTION/SERVICE Instrumentation Cable LOCATION: BLDG A11 ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/9/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Electric Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



LOCA Profile



EQUIPMENT QUALIFICATION REPORT

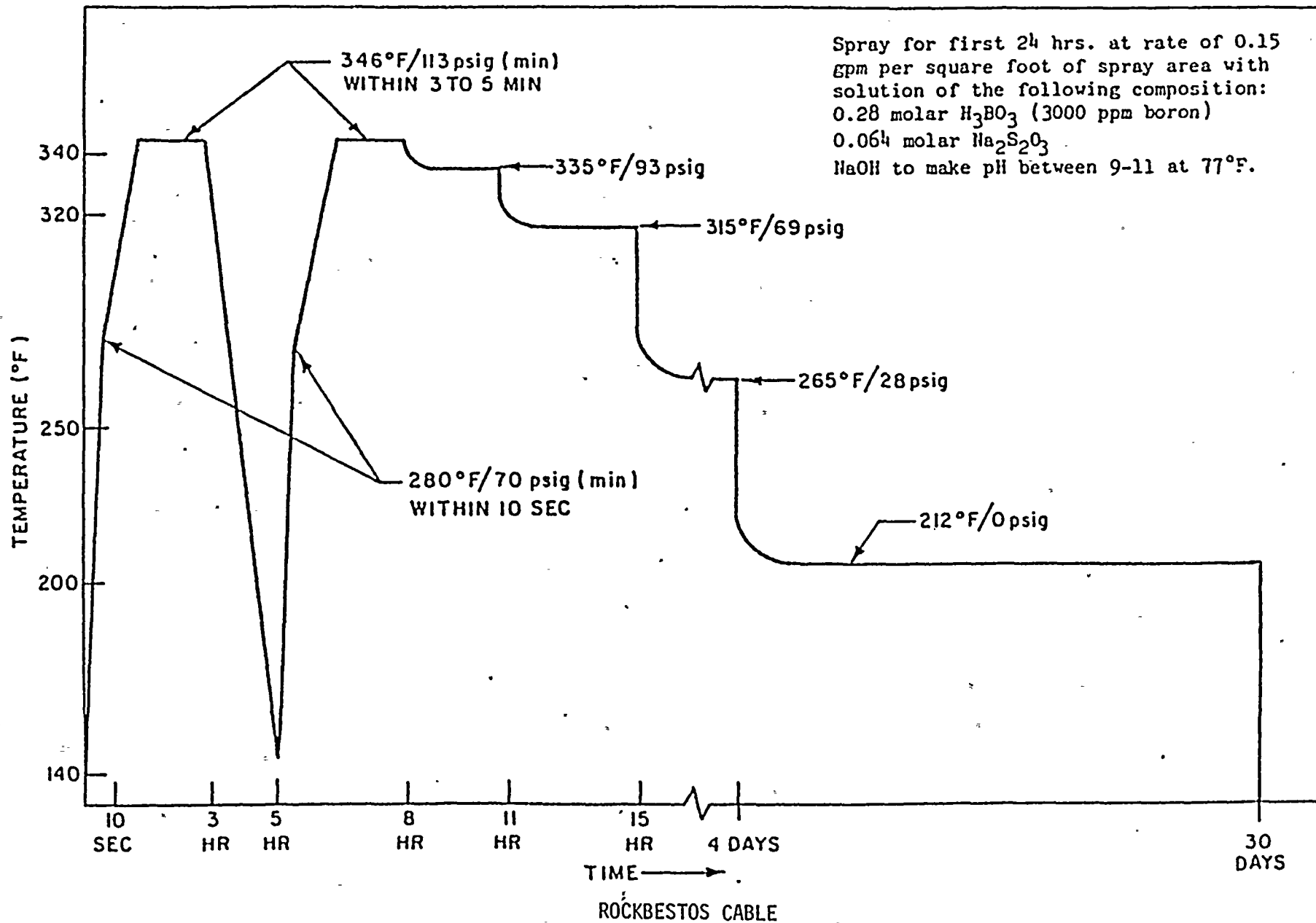
OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-G1/14/C -G1/5/C MANUFACTURER Rockbestos MODEL NUMBER P62-3296 -3289 COMPONENT Electrical Cable FUNCTION/SERVICE 480 Vac and 250 Vdc Power Cable LOCATION: BLDG All ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Electric Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

LOCA Profile



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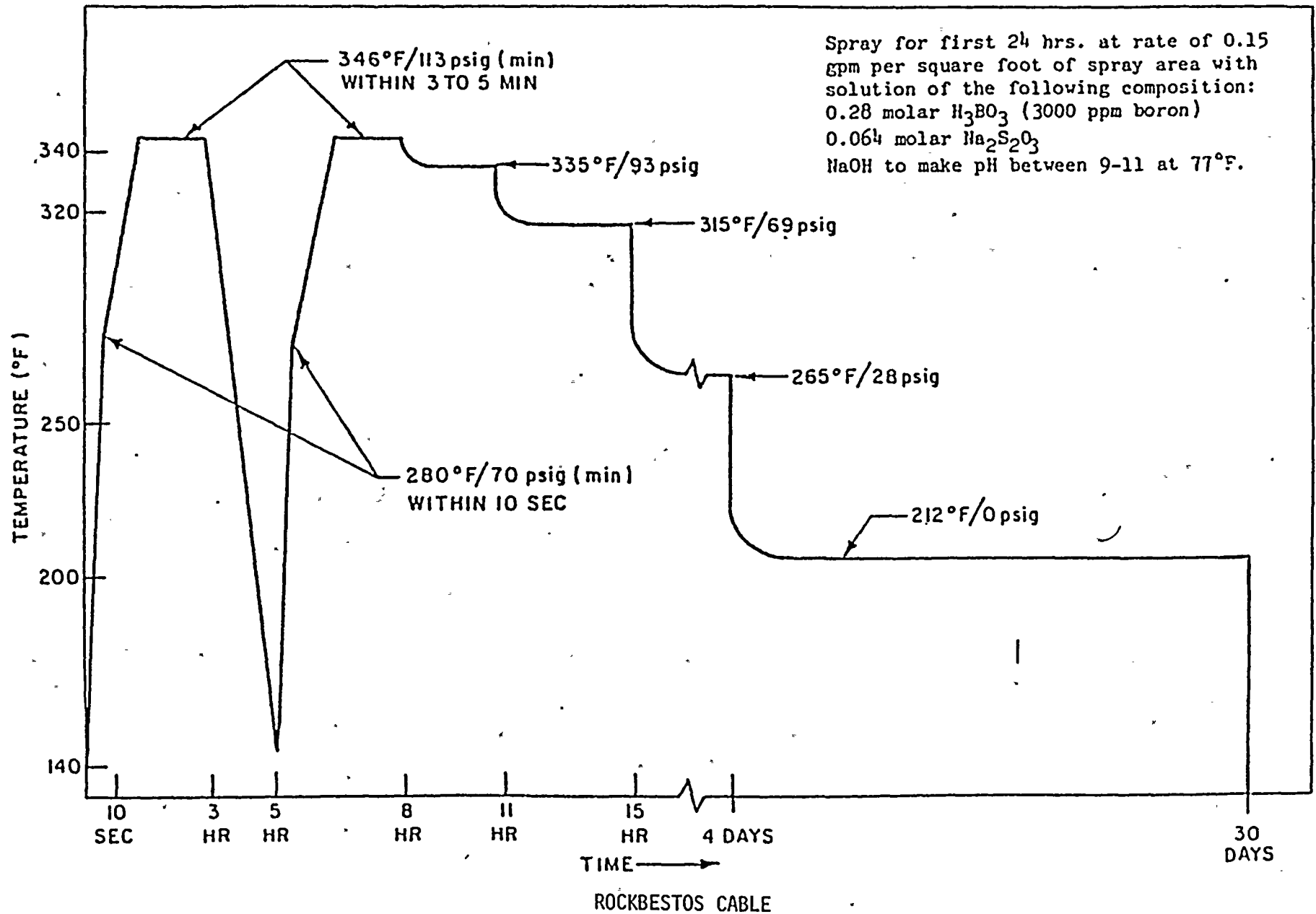


EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical TAG NUMBER E-CBL-K1/1/C MANUFACTURER Rockbestos MODEL NUMBER C53-3244 COMPONENT Electrical Cable FUNCTION/SERVICE Indication, Annunciation, SV and Logic Control Cable LOCATION: BLDG All ELEVATION COLUMN	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident.	See Enclosed Profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Rockbestos Report "Qualification of Firewall III Class 1E Electric Cable" and associated documents, revised 9/25/80 5. "A Review of Class 1E Electrical Cable Qualification Data" FIRC Report No. F-C4598-1, dated 5/77, Table 2-1				Qualified: 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

LOCA Profile



LOCA PROFILE



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62A

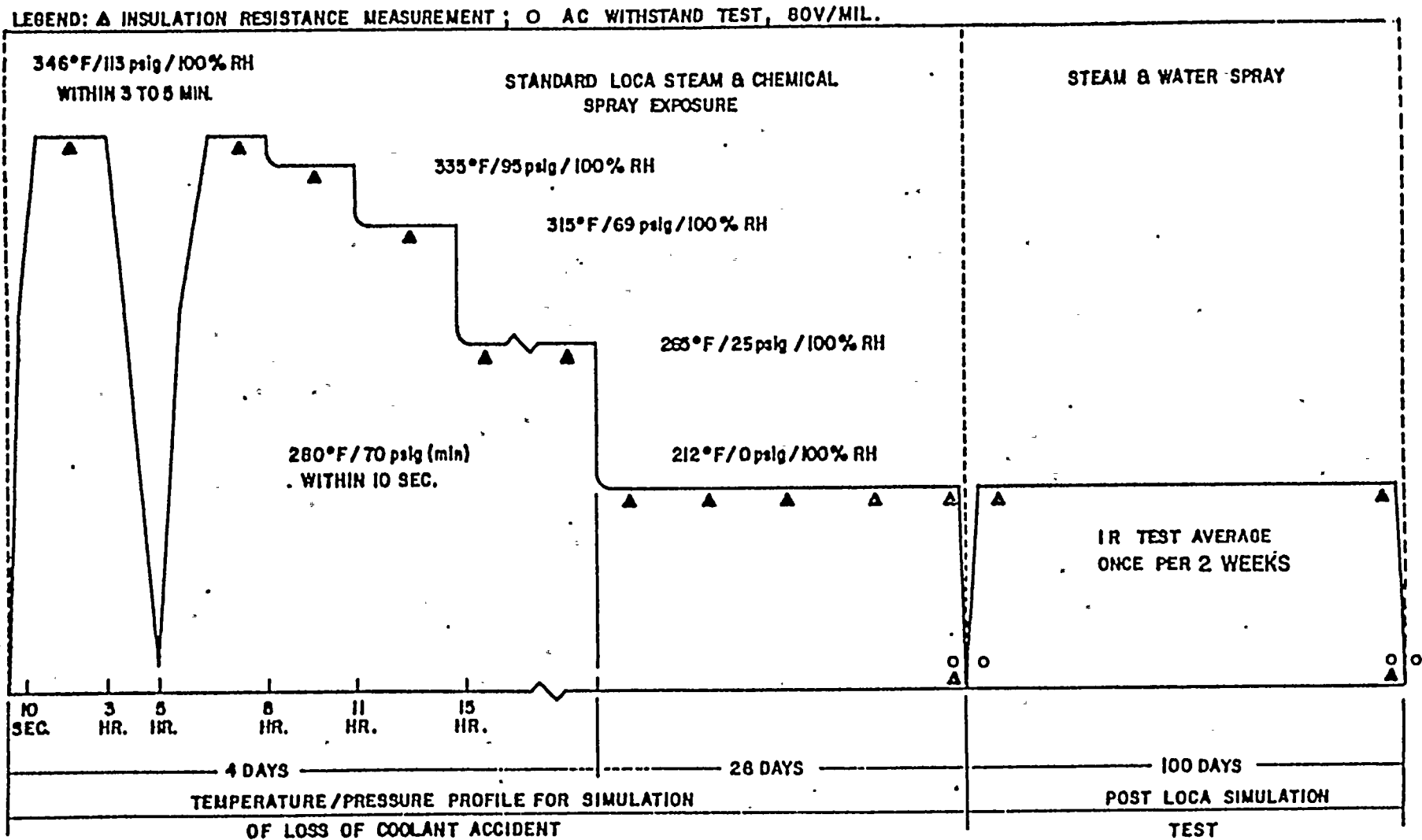
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-C/8	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Okonite	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 115-21-3180	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE 14.4kV Power Cable	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG All ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/81</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Okonite Engineering Report No. 266, dated 7/17/75				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

FIGURE II CABLE QUALIFICATION TEST PROFILE FOR LIFE & LOCA CONDITIONS



OKONNITE CABLE



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62A

WASHINGTON POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

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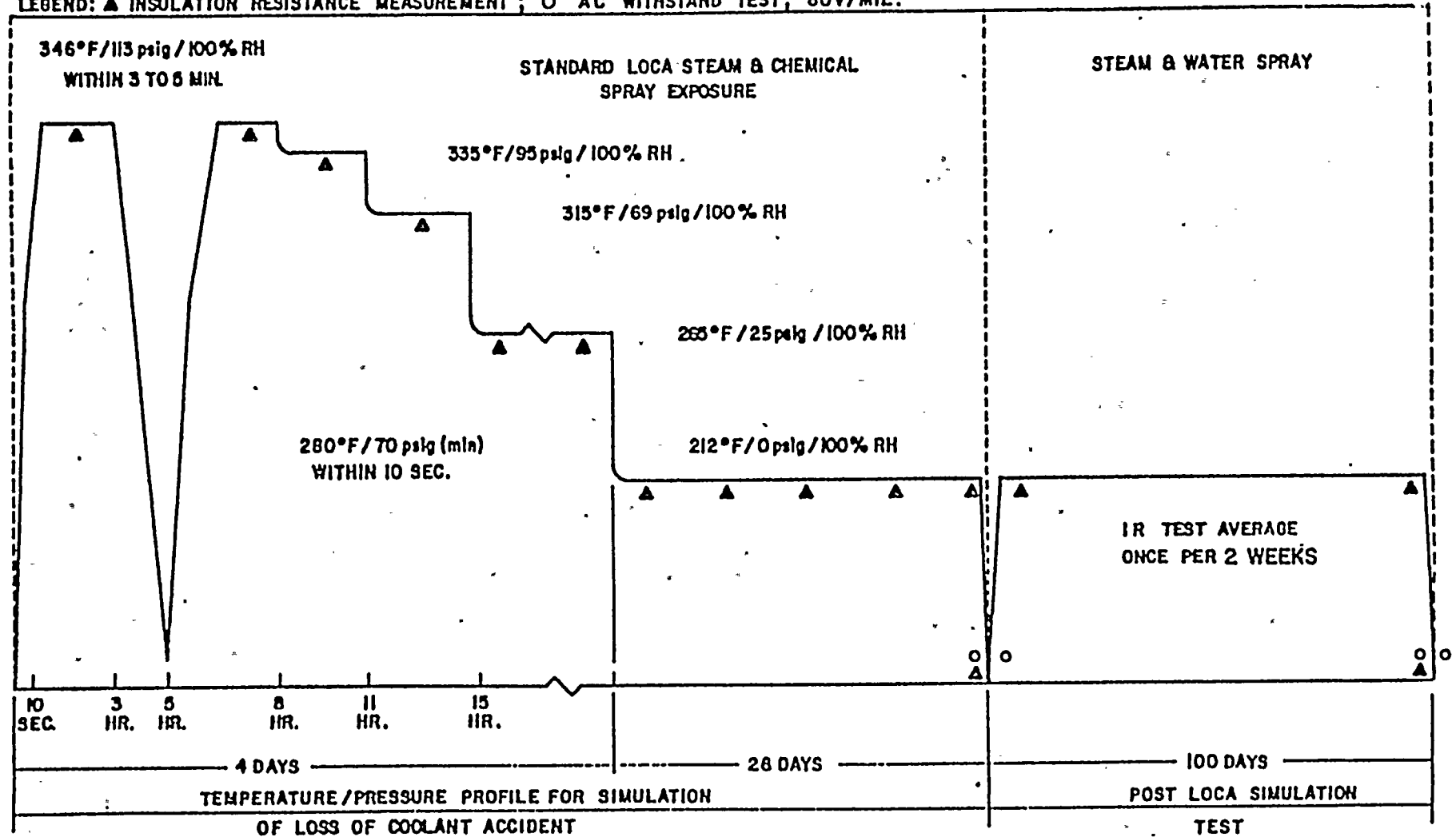
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-A/1	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Okonite	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 115-21-1029	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE 6.9kV Power Cable	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG All ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 4/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Okonite Engineering Report No. 266, dated 7/17/75				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			



FIGURE II CABLE QUALIFICATION TEST PROFILE FOR LIFE &
LOCA CONDITIONS

LEGEND: ▲ INSULATION RESISTANCE MEASUREMENT ; ○ AC WITHSTAND TEST, 80V/MIL.



OKONNITE CABLE



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62A

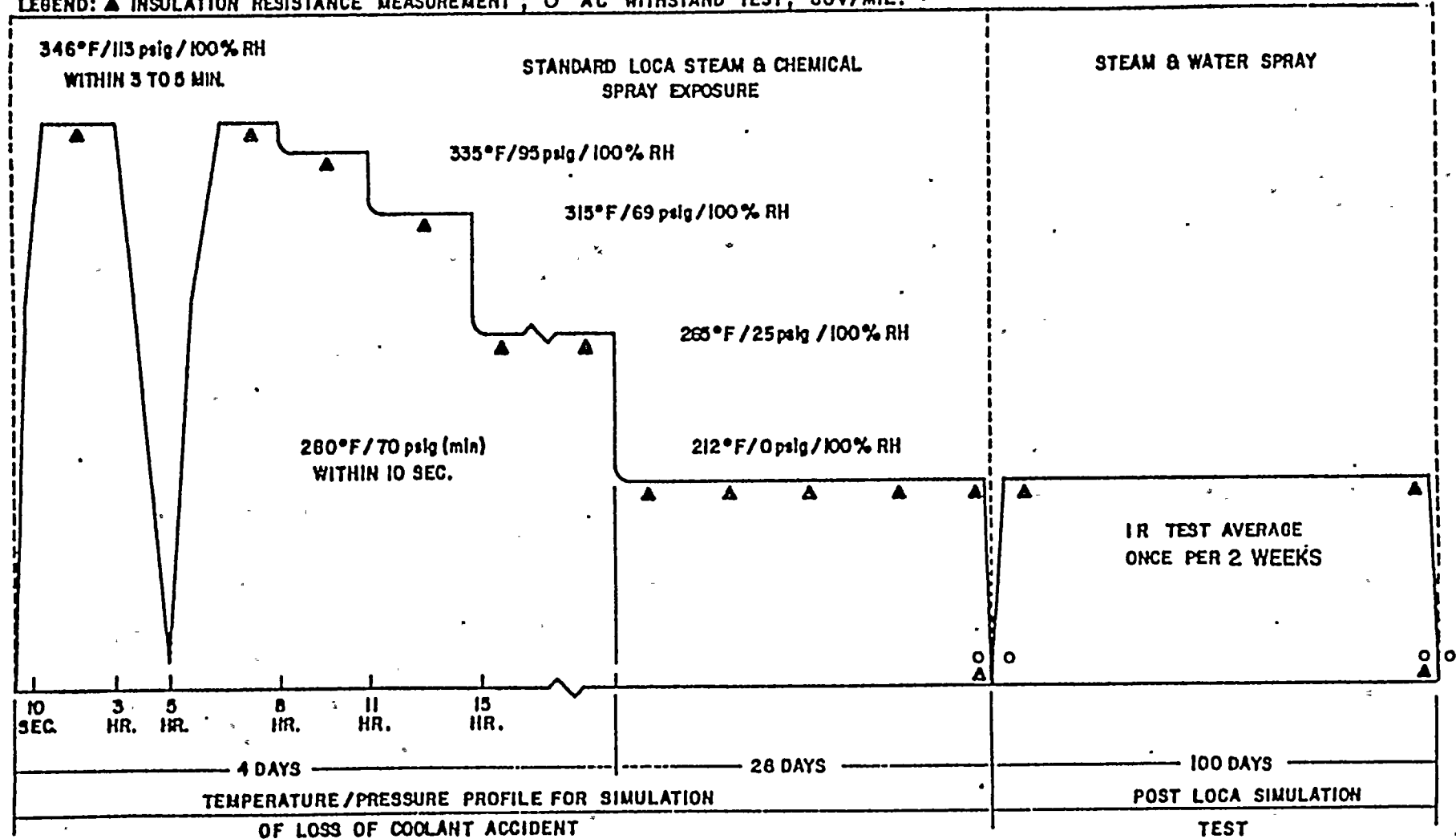
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-B/4	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Okonite	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 114-21-1013	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE 4.16kV Power Cable	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG All ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Okonite Engineering Report No. 266, dated 7/17/75				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

FIGURE II CABLE QUALIFICATION TEST PROFILE FOR LIFE 8
LOCA CONDITIONS

LEGEND: ▲ INSULATION RESISTANCE MEASUREMENT ; ○ AC WITHSTAND TEST, 80V/MIL.



OKONNITE CABLE



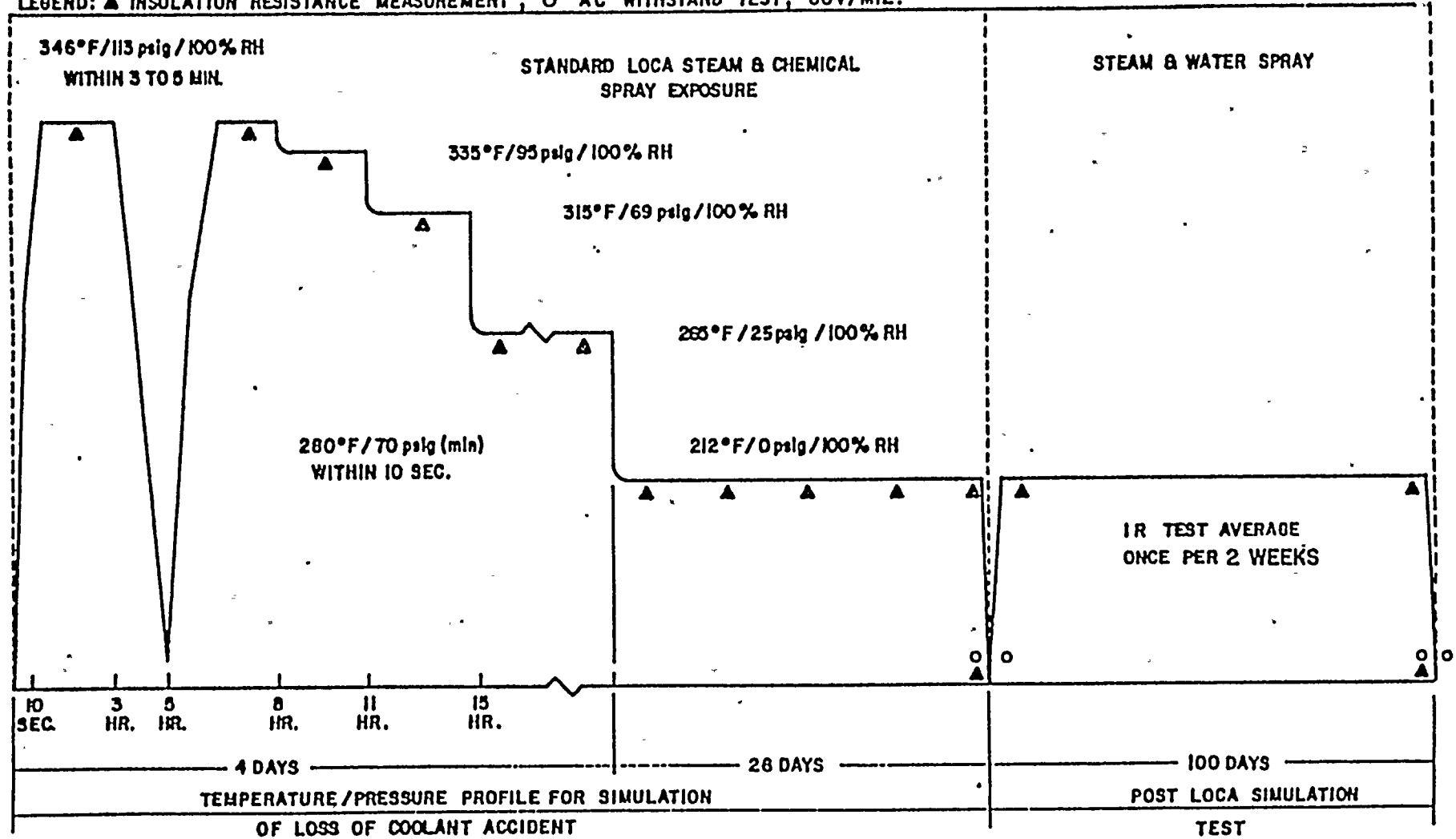
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-62AMPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Electrical	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test and Engineering Analysis	None
TAG NUMBER E-CBL-C/9	TEMPERATURE (F)	135 Max Normal 150 Max Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MANUFACTURER Okonite	PRESSURE (PSIA)	14.7 Normal 16.7 Abnormal See Profile 1 Accident	See Enclosed Profile	2	4	Simultaneous Test	None
MODEL NUMBER 115-21-3182	RELATIVE HUMIDITY (%)	55 Normal 90 Abnormal 100 Accident	100	2	4	Simultaneous Test	None
COMPONENT Electrical Cable	CHEMICAL SPRAY	Demineralized Water Spray	Note 1	2		Engineering Analysis	None
FUNCTION/SERVICE 14.4kV Power Cable	RADIATION (RAD)	4.4×10^7	2.0×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4	Sequential Test and Engineering Analysis	None
LOCATION: BLDG All ELEVATION COLUMN	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/8/82</u> Reviewed by: <u>AN 1/8/81</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FSAR Table 3.11-4 4. Okonite Engineering Report No. 266, dated 7/17/75				Qualified 1. Cables are protected by electrical conduits. The demineralized water spray impingement will have no effect on the cables.			

FIGURE II CABLE QUALIFICATION TEST PROFILE FOR LIFE & LOCA CONDITIONS

LEGEND: ▲ INSULATION RESISTANCE MEASUREMENT ; ○ AC WITHSTAND TEST, 80V/MIL.



OKONNITE CABLE

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Equipment Drain Radioactive TAG NUMBER EDR-LMS-V19, V20 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 468 COLUMN M.8/4.5	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A.		2			
	RADIATION (RAD)	1.4 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Bohin</u> Reviewed by: <u>Raymond Chin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-441C				1. These components are on order. The qualification documentation will be reviewed when it is received.			





OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

WASHINGTON PUMP AND TREATMENT WATER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Equipment Drains Radioactive TAG NUMBER EDR-SPV-19 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Containment Isolation Valve V-19 LOCATION: BLDG R ELEVATION 426 COLUMN N1/3.6	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.8	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.4×10^3	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>W. E. Farnon</u> Reviewed by: <u>W. E. Farnon</u> 1-11-82						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-422 E 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 73-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			





OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Equipment Drains Radioactive TAG NUMBER EDR-SPV-20 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Containment Isolation Valve V-20 LOCATION: BLDG R ELEVATION 471 COLUMN N/3.9	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.0×10^5	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>S. J. Johnson</u> Reviewed by: <u>W. E. Farone 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471B 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-LMS-3, 4 MANUFACTURER Namco MODEL NUMBER SAI-133 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for FDR valves 3 and 4 LOCATION: BLDG R ELEVATION 467 COLUMN M.0/4.1	OPERATING TIME	6 months	note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.4×10^6		3			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Boh</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-441C 4. WPPSS letter GE-02-81-021				1. These limit switches are being replaced by Namco Limit Switch EA 740 which is qualified to IEEE-323-74 and 344-75 (Ref. 4).			

WPPSS

WASHINGTON PLANT POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-RMS-601, 602 MANUFACTURER Miller Fluid Power Company MODEL NUMBER COMPONENT Remote Manual Switch FUNCTION/SERVICE RMS for FDR-V-601, 602 LOCATION: BLDG R ELEVATION 428 COLUMN H.7/9.4	OPERATING TIME	6 months	Note 1	2			None
	TEMPERATURE (F)	90 normal 104 abnormal	N/R	1			None
	PRESSURE (PSIA)	14.7	N/R	1			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	1			None
	CHEMICAL SPRAY	N/A	N/R	1			None
	RADIATION (RAD)	1.1 x 10 ⁵	N/R	3			None
	AGING	40 years	40 years	1	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-422J 4. EDI-4.8, Paragraph 5.1, I				1. This component is only required for operation under normal environmental conditions and is, therefore, considered a mild environment component. Specific qualification of components in mild environments is not required at this time.			





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-RMS-603, 604 MANUFACTURER MODEL NUMBER COMPONENT Remote Manual Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 441 COLUMN	OPERATING TIME	6 months	Note 1	2			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)						
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Alan Seiben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81				1. The qualification status of this component has not yet been determined. Requalification will be conducted if required.			

WPPSS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Floor Drain Radioactive - TAG NUMBER FDR-SPV-3 MANUFACTURER Automatic Switch MODEL NUMBER WJHT 8344A72 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Containment Isolation FDR Valve 1X Pilot Valve LOCATION: BLDG R ELEVATION 426 COLUMN N1/3.6	OPERATING TIME	4320 Hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.4×10^3	4.4×10^6	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared By: <u>W. J. Johnson</u> Reviewed By: <u>W.E. Farnham 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study #0740-004-422E 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/15/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-SPV-4 MANUFACTURER Automatic Switch MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Valve EDR-V-4 LOCATION: BLDG R ELEVATION 471 COLUMN N/3.9	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5 x 10 ⁵	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES X NO	Prepared By: <u>S. L. Whiteman</u> Reviewed By: <u>W. E. Fasano</u> 1-11-82						
DOCUMENTATION REFERENCES			NOTES				
1. FSAR Par. 3.11 2. EDS Study 0740-004-471B 3. Calculations in QID-315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class IE Equipment List, dated 12/16/81			1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.				



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

WASHINGTON POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-SPV-601 -602 -604 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Reactor Area Building Drains to Sump, Pilot Valve LOCATION: BLDG R ELEVATION 476 COLUMN H4/6.8	OPERATING TIME	4320 Hours	Equivalent to greater than 10,000 hours at 150°F.	6	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 accident	310	1	3,4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.7×10^5	4.4×10^6	2	3, 4	Engineering Analysis	None
	AGING	40 years	7 years	1	5	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared By: <u>H. J. Johnson</u> Reviewed By: <u>W. E. Faraone 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471J 3. Calculations in QID 315004 4. REIC Report No. 21 (Battelle) 5. E/1-02-81-04-0 (IE Bulletin 78-14) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7 year qualified life.			

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Floor Drain Radioactive TAG NUMBER FDR-SPV-603 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE V-603, Pilot Valve LOCATION: BLDG R ELEVATION 427 COLUMN N1/3.4	OPERATING TIME	4320 hours	Equivalent to >10,000 at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1.	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.39 x 10 ³	4.4 x 10 ⁶	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operation Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared By: <u>A. L. Johnson</u> Reviewed By: <u>W. S. Farano</u> 1-11-82						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-422E 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			





OWNER: WPPSS
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-DPIC-1 MANUFACTURER Fisher Controls MODEL NUMBER COMPONENT FUNCTION/SERVICE Bypass Flow Control LOCATION: BLDG R ELEVATION 476 COLUMN H4/6.8	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY			2			None
	RADIATION (RAD)	4.4 x 10 ⁷		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Lichten</u> Reviewed by: <u>W. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471J				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-FIC-21 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)			3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. S. Robinson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified:			

WPPSS

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-LIS-1A, 2A, 3A1, 3A2, 3B1 MANUFACTURER Barton MODEL NUMBER 289A COMPONENT Level Indication Switch FUNCTION/SERVICE FPC-TK Level Control LOCATION: BLDG R ELEVATION 572 COLUMN K.0/6.8	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 104 max accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.9×10^8	3×10^6	3	4	Engineering Analysis	Note 1
	AGING	40 years	Note 2	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 289 Switch, Report #027A-01, dated 10/9/80				1. Radiation levels in the SGT area are currently being reevaluated. 2. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-LIS-1B, 2B, 3B2 MANUFACTURER Barton MODEL NUMBER 289A COMPONENT Level Indication Switch FUNCTION/SERVICE FPC-TK Level Control LOCATION: BLDG R ELEVATION, 572 COLUMN H.0/6.8	OPERATING TIME	6 months	6 months	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	6.6×10^6	3×10^6	3	4	Engineering Analysis	Note 1
	AGING	40 years	Note 2	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572F 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 289 Switch, Report #027A-01, dated 10/9/80				1. The components will be requalified to the required radiation level. Requalification methods are currently under investigation. 2. A preventive maintenance/surveillance program is currently being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-M-1A FPC-M-1B MANUFACTURER Westinghouse MODEL NUMBER W120 COMPONENT Motor, 50 HP FUNCTION/SERVICE Motors for FPC-P1A, -P1B LOCATION: BLDG R ELEVATION 550 COLUMN L7/9	OPERATING TIME	4320 hours		1	1		Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7	N/R	2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.5×10^5		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>J. Sullivan</u> Reviewed by: <u>RL Mott</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-548L				1. Items qualified to NUREG 0588 Category I are being procured.			



NUMBER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-MO-153 FPC-MO-154 FPC-MO-156 MANUFACTURER Limitorque MODEL NUMBER SMB-000 COMPONENT Motor Operator FUNCTION/SERVICE Operate FPC Valves LOCATION: BLDG R ELEVATION 441 COLUMN K/7.9, J 9/8, K2/8.2	OPERATING TIME	4320 hours	Equivalent to 35,000 hours at 150°F	1	3,4	Simultaneous Test - Engineering Analysis	None
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 maximum accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 maximum abnormal 100 maximum accident	Steam 24 hours 100% 15 days	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.94×10^5	2×10^7	2	3-	Sequential Test	None
	AGING	40 years	40+ years	1	3,5	Sequential Test - Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>J. L. Sullivan</u>						
DOCUMENTATION REFERENCES			NOTES				
1. FSAR Par. 3.11 2. EDS Study 0740-004-441G 3. Limitorque report B0003 with addendum A 4. Calculation in QID 221011(2) 5. Calculation in QID 2210(1)			1. Qualified				

TEMPERATURE PROFILE

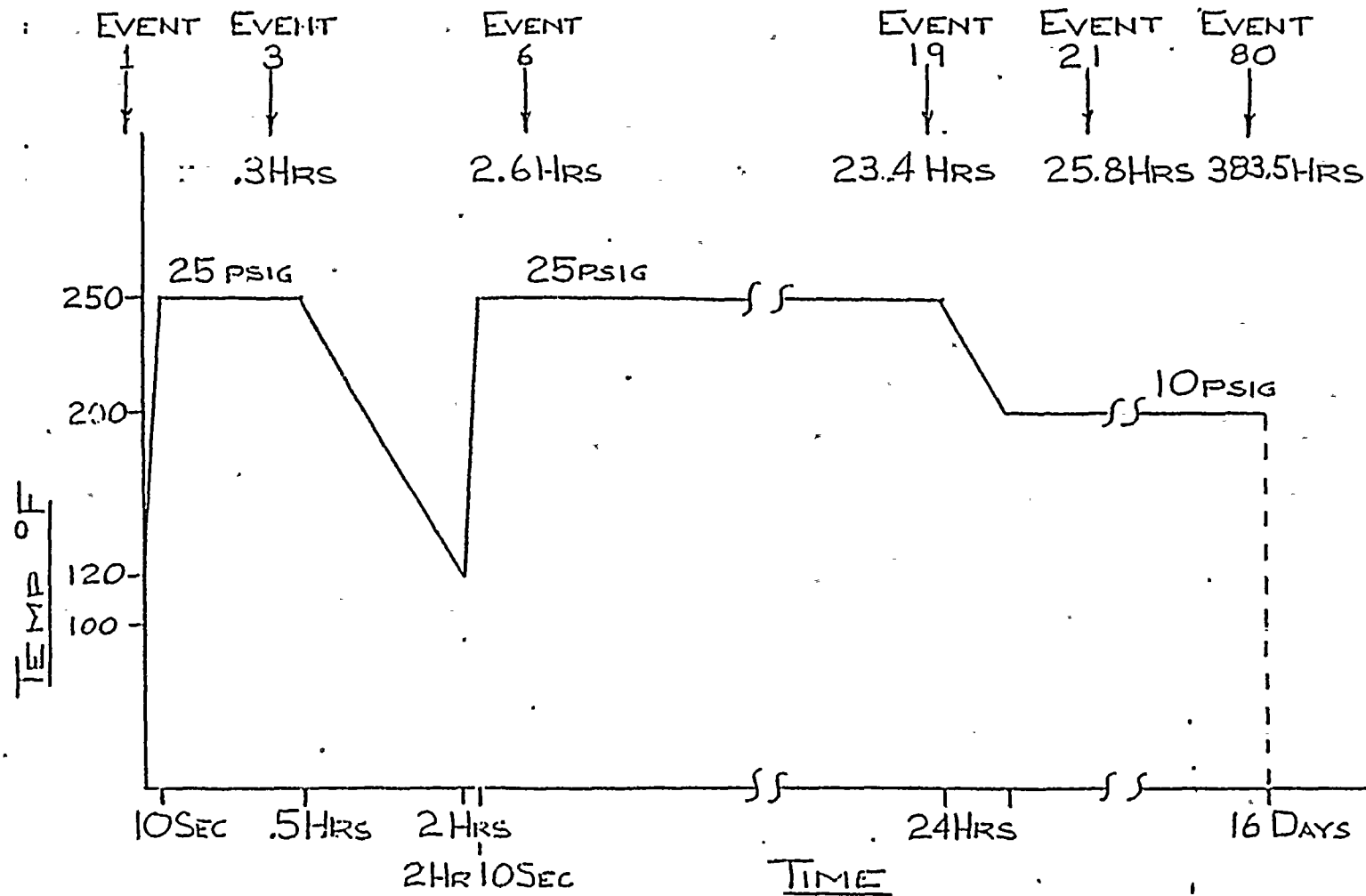


FIGURE 1



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-MO-172, 173, 175 -181A, 181B, 184 MANUFACTURER Limitorque MODEL NUMBER COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate FPC Valves LOCATION: BLDG R ELEVATION 548 COLUMN L7/9	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7	N/R	2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.5×10^5		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ramond Ori</u> Reviewed by: <u>M. S. [Signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-548L				1. Items qualified to NUREG 0588, Category I, are being procured. Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

WASHINGTON PLANT POWER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-PS-6A FPC-PS-6B FPC-PS-9A FPC-PS-9B MANUFACTURER Barksdale MODEL NUMBER D2T-M150SS B2T-M12SS COMPONENT Pressure FUNCTION/SERVICE Measures Suction and Discharge Pressure LOCATION: BLDG R ELEVATION 522 COLUMN J.0/6.9 N/8.2	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	8.3 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiden</u> Reviewed by: <u>H. S. Johnson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522K, H				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-RMS-PIA, P1B MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN J.0/6.9, N.0/8.1	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			Note 1
	PRESSURE (PSIA)	14.7		2			Note 1
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			Note 1
	CHEMICAL SPRAY	N/A		2			Note 1
	RADIATION (RAD)	2.8×10^7		3			Note 1
	AGING	40 years	Note 2	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Baker</u> Reviewed by: <u>Ann Seibert</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522J, 522K				1. These components are Use Code 2 and are, therefore, not required to perform an active safety function following an accident. However, failure modes will be evaluated to determine whether failure would be detrimental to plant safety. This evaluation is currently being performed. 2. A preventive maintenance/surveillance program is currently being developed to address aging of Class 1 equipment.			





OWNER: WPPSS
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WASHINGTON ELECTRIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-SPV-1 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 471 COLUMN H.4/6.8	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.4×10^7		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471J				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

WASHINGTON POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Fuel Pool Cooling TAG NUMBER FPC-SPV-113 MANUFACTURER ASCO Valves MODEL NUMBER WHT831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 525 COLUMN N.0/8.0	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	8.3 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Sichen</u> Reviewed by: <u>[Signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundry under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02E22

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-DPIS-9 MANUFACTURER Barton MODEL NUMBER 289 COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 471 COLUMN L2/3.9	OPERATING TIME	24 hours	24 hours	1	4, 5	Simulation Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 max accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.0×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Zuk</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-422B 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 289 Switch, Report #027A-01, dated 10/9/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

WPPSS

WASHINGTON PLANT POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
 FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-FIS-6 MANUFACTURER Barton MODEL NUMBER 289 COMPONENT Flow Indicating Switch FUNCTION/SERVICE HPCS-P-1 Discharge Flow Indication LOCATION: BLDG R ELEVATION 471 COLUMN L.2/3.9	OPERATING TIME	24 hours	24 hours	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 max accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471B 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 289 Switch, Report #027A-01, dated 10/9/80				Qualified. 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-FT-5 MANUFACTURER GE MODEL NUMBER 50-555-11CMA4HCF COMPONENT Flow Transmitter FUNCTION/SERVICE HPCS-P-1 Discharge Flow Transmitter LOCATION: BLDG R ELEVATION 471 COLUMN L.2/3.9	OPERATING TIME	24 hours	Note 1	2	4		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.0×10^5		3			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Ray S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 CIE Equipment List, dated 12/16/81 3. EDS Report 0740-004-471B 4. WPPSS Letter GE-02-JLS-81-022				1. This component will be replaced by a Rosemount 1153 qualified to IEEE 323-1974 and 344-1975.			



WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-LMS-5 MANUFACTURER Namco MODEL NUMBER COMPONENT Limit Switch FUNCTION/SERVICE LMS for V-5 Containment Isolation LOCATION: BLDG C ELEVATION 543 COLUMN 247 degrees, AZ	OPERATING TIME	24 hours	Note 1	1	3		
	TEMPERATURE (F)	135 normal 150 abnormal accidents - profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal accident - profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	4.4×10^7		2			
	AGING	40 years					
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark B...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/87 2. FSAR paragraph 3.11 3. WPPSS letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit switch model EA180 which is qualified to IEEE 323-74 and 344-75. (Ref. 3).			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02E22

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-LS-2A,B MANUFACTURER Magnetrol MODEL NUMBER 3.5-751-1X-MPG-M148Y COMPONENT Level Switch FUNCTION/SERVICE Pool Level HPCS Valve Control LOCATION: BLDG R ELEVATION 465, 441 COLUMN 3.5/4.1, M/8.0	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	300	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6		3			Note 1
	AGING	40		2			Note 1
	ACCURACY						
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Ad 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-441J 4. EDS Calculation file 0740-006-004 5. BWR Equipment Qualification Summary Report #QSR-030-H-1				1. Materials of construction are being obtained from the vendor to complete the evaluations.			





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-M-1 MANUFACTURER General Electric MODEL NUMBER 5K6357XC10A COMPONENT Motor FUNCTION/SERVICE Drive Pumps LOCATION: BLDG R ELEVATION 422 COLUMN N/4	OPERATING TIME	24 hours	Equivalent of 4320 hours at 150°F	5	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	1	3,4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100%	1	3,4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.6 x 10 ⁶		2			Note 1
	AGING	40 years	180 starts = 10 year + 10 33 years (worst fit)	1	3,4	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiken</u> Reviewed by: <u>M. F. Schuman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004- 3. GE #491HA911, 3/25/80 (BWR 111-A-04) 4. GE #NEDM-10627, 8/72 (BWR 111-A-05) 5. WNP-2 Class 1E Equipment List				1. Radiation test data on representative motorettes are being obtained from the manufacturer.			



EQUIPMENT QUALIFICATION REPORT

OWNER: - WPPSS
FACILITY: WNP-2
SPEC: 2808-67MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM High Pressure Core Spray TAG NUMBER HPSC-M-3 MANUFACTURER Westinghouse MODEL NUMBER 75D40786 COMPONENT Motor FUNCTION/SERVICE 15hp motor for HPSC-P-3 ⁺ LOCATION: BLDG R ELEVATION 430 COLUMN L 5/3.5	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.6×10^6	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-422D 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Electric Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-MO-1 MANUFACTURER Limitorque MODEL NUMBER SMB-00 COMPONENT Valve Motor Operator (Reliance Class B) FUNCTION/SERVICE Operate HPCS Valve 1 LOCATION: BLDG R ELEVATION 435 COLUMN N/4	OPERATING TIME	24 hours	16 days	4	2	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Steam for 24 hours 100% for 15 days	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.6×10^6	2×10^7	3	2	Sequential Test	None
	AGING	40 years	40 years	1	2,5	Sequential Test	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. D. Whitten</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Test Report B0003, with Addendum A, prepared 5/8/76. 3. EDS Study 0740-00-422D 4. WNP-2 1E Equipment List 5. Calculations in QID 221011(1)				Qualified.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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PPD: 21A1881

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-MO-10 MANUFACTURER Limatorque MODEL NUMBER SMB-3 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 10 LOCATION: BLDG R ELEVATION 452 COLUMN H/3.8	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	1.6×10^6
	AGING	40 years
	ACCURACY	N/A
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES: NO	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-MO-11 MANUFACTURER Limatorque MODEL NUMBER SMB-3 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 11 LOCATION: BLDG R ELEVATION 452 COLUMN H/3.8	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	1.6×10^6
	AGING	40 years
	ACCURACY	N/A
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES: NO	





WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-M0-12 MANUFACTURER Limatorque MODEL NUMBER SMB-2 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 12 LOCATION: BLDG R ELEVATION 430 COLUMN H/3.4	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	1.4×10^6
	AGING	40 years
	ACCURACY	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Reference: 3. EDS Report 0740-004-441C	

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-M0-15 MANUFACTURER Limatorque MODEL NUMBER SMB-2 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 15 LOCATION: BLDG R ELEVATION 455 COLUMN L4/3.6	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	1.4×10^6
	AGING	40 years
	ACCURACY	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Reference: 3. EDS Report 0740-004-441C	





WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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PPD: 21A1884

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EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-MO-23 MANUFACTURER Limitorque MODEL NUMBER SMB-4 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 23 LOCATION: BLDG R ELEVATION 451 COLUMN L6/3.9	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	1.4 x 10 ⁶
	AGING	40 years
	ACCURACY	N/A
	Reference: 3. EDS Report 0740-004-441C	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO		

EQUIPMENT DESCRIPTION	ENVIRONMENT	
	PARAMETER	FSAR
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-MO-4 MANUFACTURER Limitorque MODEL NUMBER SMB-4 COMPONENT Valve Motor Operator* FUNCTION/SERVICE Operate HPCS Valve 4 LOCATION: BLDG R ELEVATION 547 COLUMN M3/7.3	OPERATING TIME	24 hours
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident
	PRESSURE (PSIA)	14.7
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident
	CHEMICAL SPRAY	N/A
	RADIATION (RAD)	8.3 x 10 ⁵
	AGING	40 years
	ACCURACY	N/A
	Reference: 3. EDS Study 0740-004-522H	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO		

TEMPERATURE PROFILE

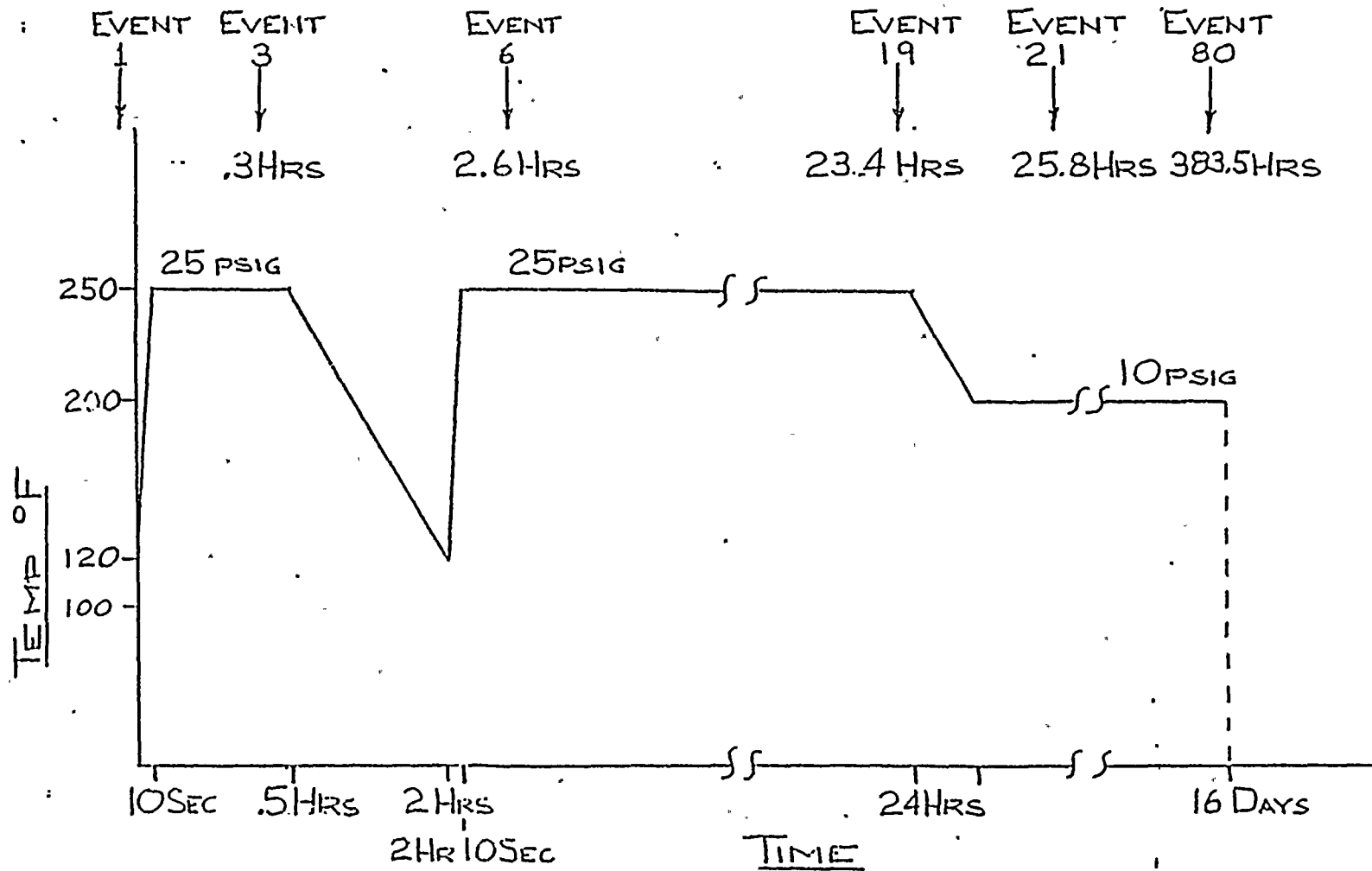


FIGURE 1

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-PIS-13 MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Pressure Indicating Switch FUNCTION/SERVICE Low Pressure Alarm LOCATION: BLDG R ELEVATION 471 COLUMN L.2/3.9	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	5	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Beh</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471B 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-PS-12 MANUFACTURER Static-O-Ring MODEL NUMBER SN-AA3-X105TT COMPONENT Pressure Switch FUNCTION/SERVICE HPCS Pump Discharge Pressure Switch LOCATION: BLDG R ELEVATION 471 COLUMN L.2/3.9	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.97×10^5	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
<ol style="list-style-type: none">WNP-2 Class 1E Equipment List, dated 12/16/81FSAR Paragraph 3.11EDS Report 0740-004-471BEDS Calculation file 0740-006-006Viking Lab, Inc. Test letter Report #30203-2 dated November 20, 1973. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified <ol style="list-style-type: none">A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-PS-3 MANUFACTURER Static-O-Ring MODEL NUMBER 5N-AA-X10STT COMPONENT Pressure Switch FUNCTION/SERVICE HPCS Pump 1 Suction Pressure Switch LOCATION: BLDG R ELEVATION 471 COLUMN 12/4	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.0×10^5	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>AN 1/7/82</u> Reviewed by: <u>JDM 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471B 4. EDS Calculation File 0740-006-006 5. Viking Lab. Inc. Test Report #30203-2 dated 11/20/73. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM High Pressure Core Spray TAG NUMBER HPCS-SP-20 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY			2			None
		N/A					None
	RADIATION (RAD)						None
	AGING	40 years		2			None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES : NO	ACCURACY	N/A					None
Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. S. Robinson</u>							
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Intermediate Range Monitor TAG NUMBER IRM-DET-2H MANUFACTURER General Electric MODEL NUMBER 112C-3144G8 COMPONENT Radiation Detector FUNCTION/SERVICE Intermediate range radiation detector LOCATION: BLDG C ELEVATION COLUMN	OPERATING TIME		Note 1				
	TEMPERATURE (F)	135°F normal 150°F abnormal Accident - profile 1		1			
	PRESSURE (PSIA)	16.7 normal Accident - profile 1		1			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY						
	RADIATION (RAD)	4.4 x 10 ⁷		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Leak Detection System TAG NUMBER LD-TE-18A, 18B, 18C, 18D. MANUFACTURER PYCO MODEL NUMBER 282-N1A72 COMPONENT Temperature Element FUNCTION/SERVICE Leak Detection in RHR Equipment Area LOCATION: BLDG R ELEVATION 467 COLUMN M.7/9.0, K.0/9.0	OPERATING TIME	6 months	3 months	2	4, 5 6, 7	Simultaneous Test- Engineering Analysis	Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	250	1	4, 5 6	Simultaneous Test	Note 1
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	1	4, 5	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.5 x 10 ⁶	2 x 10 ⁸	3	5, 6	Sequential Test	Note 1
	AGING	40 years		1			Note 1
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Alan Seiben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, date 12/16/81 3. EDS Report 0740-004- 4. G.E. Environmental Qualification Summary for NECI Temperature Element, NECI Model No. N145C3224, Document No. 248A9456. 5. PYCO Test Report, "Environmental Aging of PYCO Thermocouple #12-9039-08-6", Document No. 122375, Rev. "0", dated 12/23/75.				1. Functional accuracy of the components was not tested during the simulated environmental conditions. Further qualification documentation will be obtained to reevaluate qualification for functional accuracy, operating time and aging.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
<p>6. PYCO Qualification Test Report, "Air Temperature Thermocouple PYCO Model No. 02-9036", Document No. 122675, Rev. "0", dated 12/26/75.</p> <p>7. QID No. 339004</p>	

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Leak Detection System TAG NUMBER LD-TE-27A, 27B, 27C, 27D MANUFACTURER Nuclear Engineering and Components, Inc. MODEL NUMBER NI45C3224P1 COMPONENT Temperature Element FUNCTION/SERVICE Leak Detection in RHR Equipment Area LOCATION: BLDG R ELEVATION 432 COLUMN L.5/9.4 K.0/9.4	OPERATING TIME	6 months	3 months	2	4, 5 6, 7	Simultaneous Test Engineering Analysis	Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	250	1	4, 5 6	Simultaneous Test	Note 1
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	1	4, 5	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.5 x 10 ⁶	2 x 10 ⁸	3	5, 6	Sequential Test	Note 1
	AGING	40 years		1			Note 1
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Moh. Bahr</u> Reviewed by: <u>Ann Selen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, dated 12/17/81 3. EDS Report 0740-004-4221 4. G.E. Environmental Qualification Summary for NECI Temperature Element, NECI Model No. NI45C3224, Document No. 248A9456. 5. PYCO Test Report, "Document No. 122375, Rev. "0", dated 12/23/75.				1. Functional accuracy of the components was not tested during the simulated environmental conditions. Further qualification documentation will be obtained to reevaluate qualification for functional accuracy, operating time and aging.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
<p>6. PYCO Qualification Test Report, "Air Temperature Thermocouple PYCO Model.No. 02-9036", Document No. 122675, Rev. "0", dated 12/26/75.</p> <p>7. QID No. 339004</p>	



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-DPIS-6 MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE Inject valve differential pressure indication LOCATION: BLDG R ELEVATION 471 COLUMN K.0/K.2	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laymond Chi</u> Reviewed by: <u>Alan Sikes</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment list, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471A 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #*SR-027-01, 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

WPPSS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-FIS-4 MANUFACTURER Barton MODEL NUMBER 289 COMPONENT Flow Indication Switch FUNCTION/SERVICE LPCS-P-1 Discharge Flow Indication LOCATION: BLDG R ELEVATION 471 COLUMN K.0/4.2	OPERATING TIME	24 hours	24 hours	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 max accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.0×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Behl</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471A 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 289 Switch, Report #027A-01, dated 10/9/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-FT-3 MANUFACTURER GE MODEL NUMBER 555 COMPONENT Flow Transmitter FUNCTION/SERVICE LPCS Discharge Flow Indication LOCATION: BLDG R ELEVATION 471 COLUMN K.0/4.2	OPERATING TIME	24 hours	Note 1	2	4		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.0 x 10 ⁵		3			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond C. Hu</u> Reviewed by: <u>M. S. Arfman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 C1E Equipment List, dated 12/16/81 3. EDS Report #0740-004-471A 4. WPPSS Letter GE-02-JLS-81-022				1. This component will be replaced by Rosemount 1153 qualified to IEEE 323-1974 and 344-1975.			

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EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-M-1. MANUFACTURER General Electric MODEL NUMBER 5K437X665A COMPONENT Motor FUNCTION/SERVICE Drive Pumps LOCATION: BLDG R ELEVATION 422 COLUMN K4/3.8	OPERATING TIME	24 hours	Equivalent of 4320 hours at 150°F	5	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	1	3,4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100%	1	3,4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.7 x 10 ⁶		2			Note 1
	AGING	40 years	180 starts = 10 year + 10 33 years (worst fit)	1	3,4	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Asa Seiber</u> Reviewed by: <u>M. J. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004- 3. GE #491HA911, 3/25/80 (BWR 111-A-04) 4. GE #NEDM-10672, 8/72 (BWR 111-A-05) 5. WNP-2 Class 1E Equipment List				1. Radiation test data on representative motorettes are being obtained from the manufacturer.			

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-MO-1 MANUFACTURER Limitorque MODEL NUMBER SMB-0-40-/T56 COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE 1.62 HP Motor Operator LPCS-V-1 LOCATION: BLDG R ELEVATION 460 COLUMN K/4.1	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.4×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5.	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study #0740-004-441B 4. Limitorque Test Report B0003 5. QID 221011				Qualified			

TEMPERATURE PROFILE

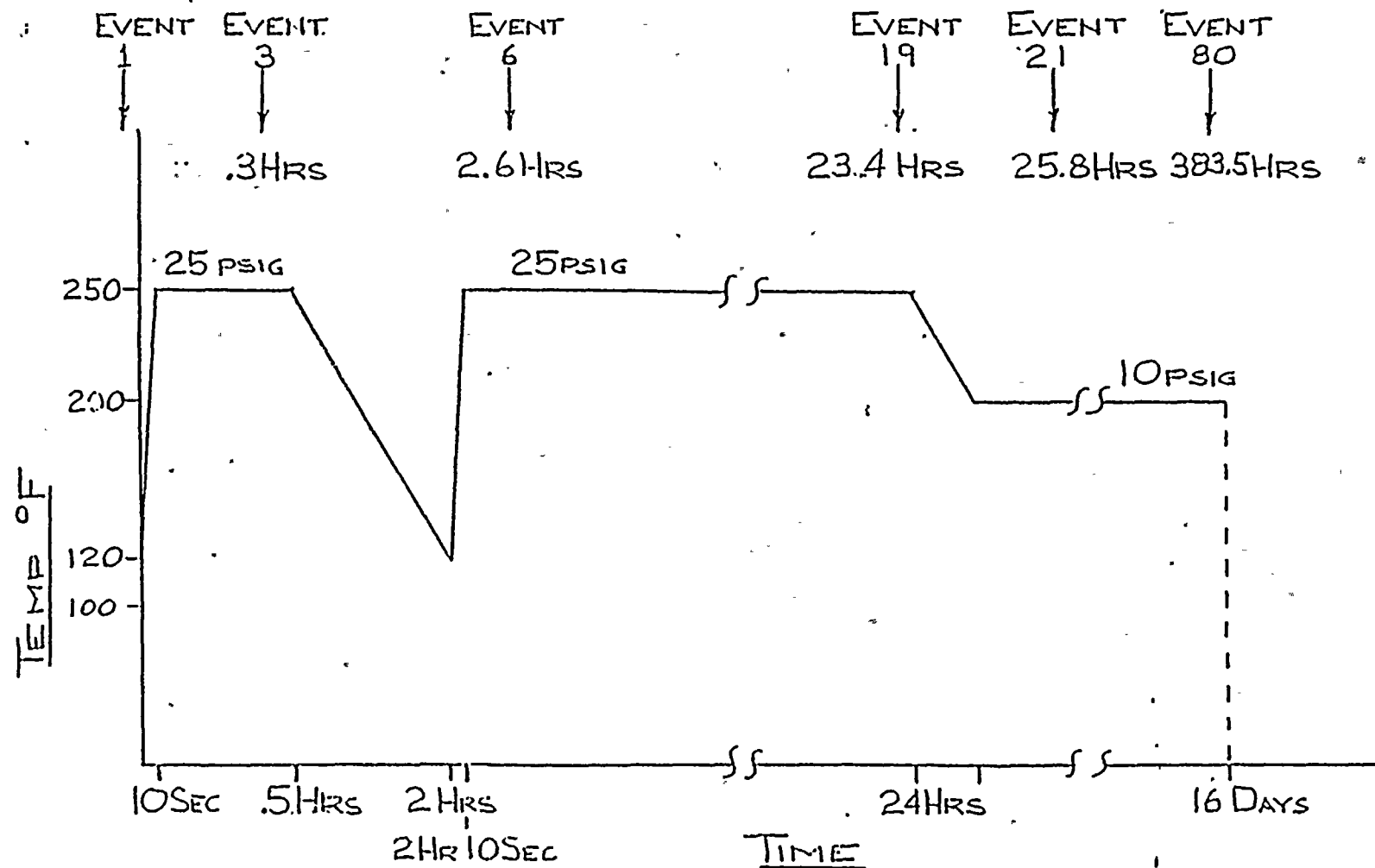


FIGURE 1

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-MO-11 MANUFACTURER Limitorque MODEL NUMBER SMB-000 COMPONENT Valve Motor Operator (Reliance Class B) FUNCTION/SERVICE Operate LPCS Valve LOCATION: BLDG R ELEVATION 424 COLUMN K1/3.5	OPERATING TIME	24 hours	16 days	4	2	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max normal 100 max accident	Steam for 24 hours 100% for 15 days	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.7×10^6	2×10^7	3	2	Sequential Test	None
	AGING	40 years	40 years	1	2,5	Sequential Test	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ronald Ch...</u> Reviewed by: <u>M. S. Robin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Test Report B0003, with Addendum A, prepared 5/8/76 3. EDS Study 0740-004-422C 4. WNP-2 Class 1E Equipment List, dated 12/16/81 5. Calculations in QID 221011(1)				Qualified.			

TEMPERATURE PROFILE

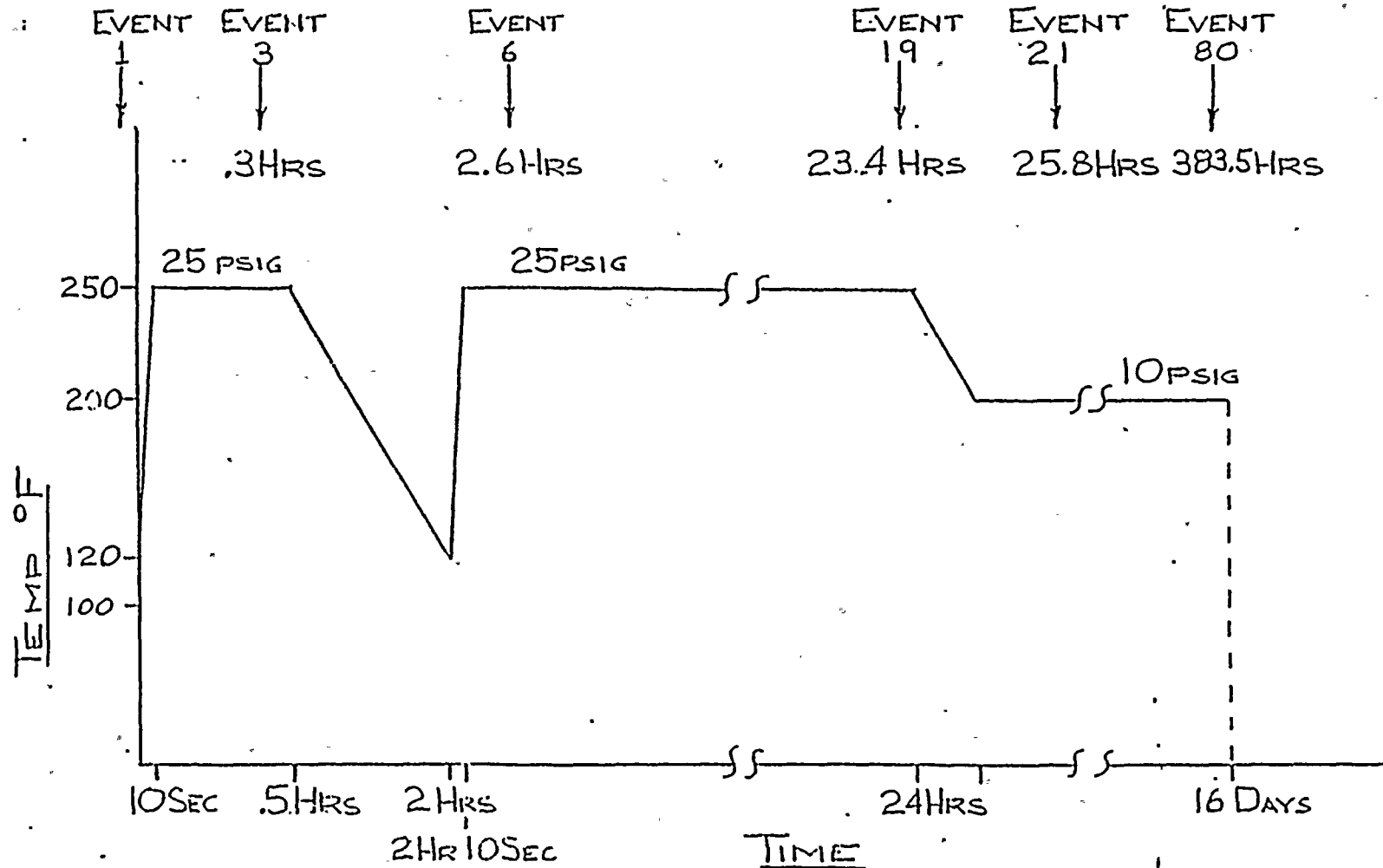


FIGURE 1



EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-MO-12 MANUFACTURER Limatorque MODEL NUMBER SMB-3-60/184R COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE 3.89 HP Motor Operator LPCS-V-12 LOCATION: BLDG R ELEVATION 460 COLUMN K/4.1	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.4 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-441C 4. Limatorque Test Report B0003 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

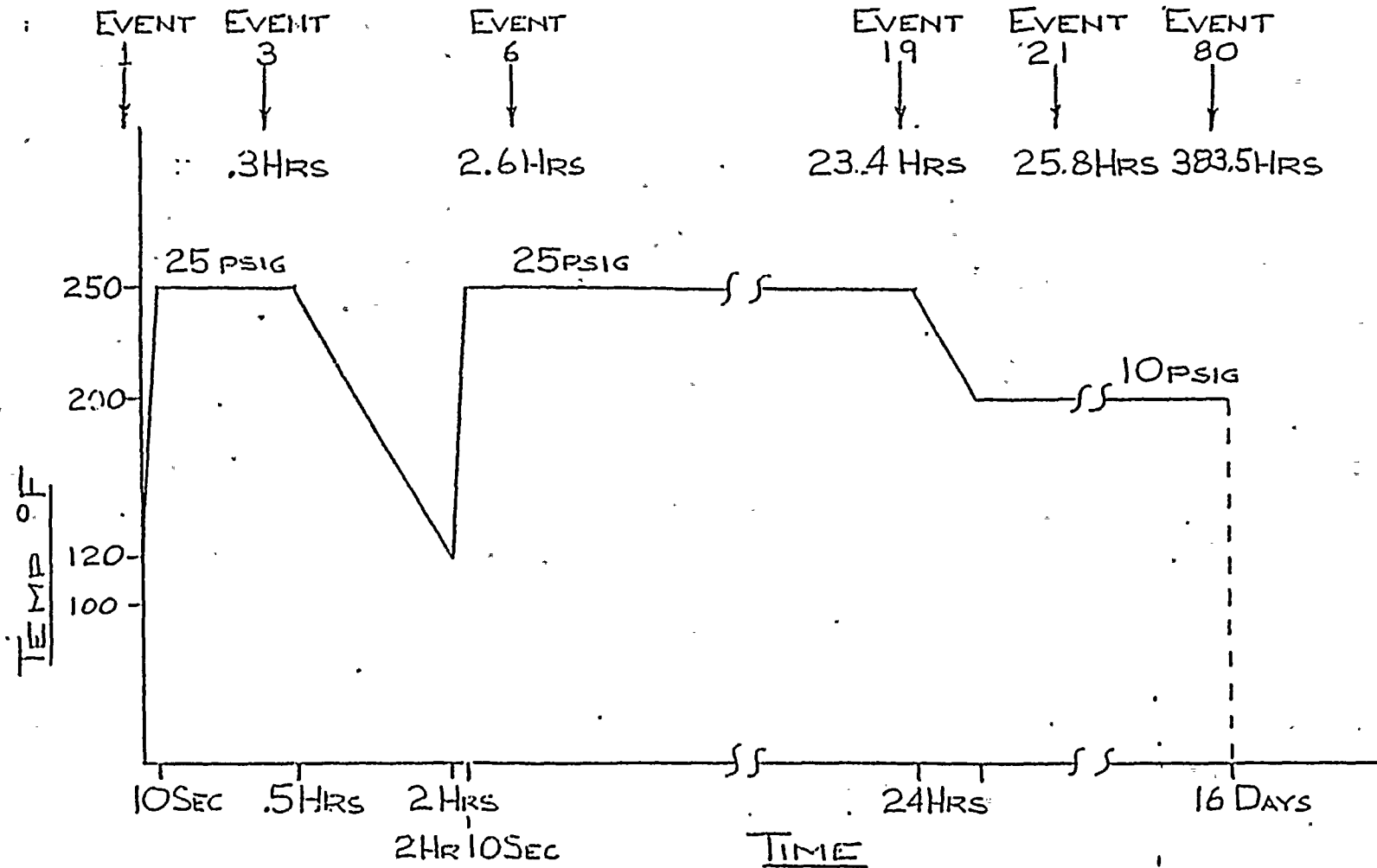


FIGURE 1



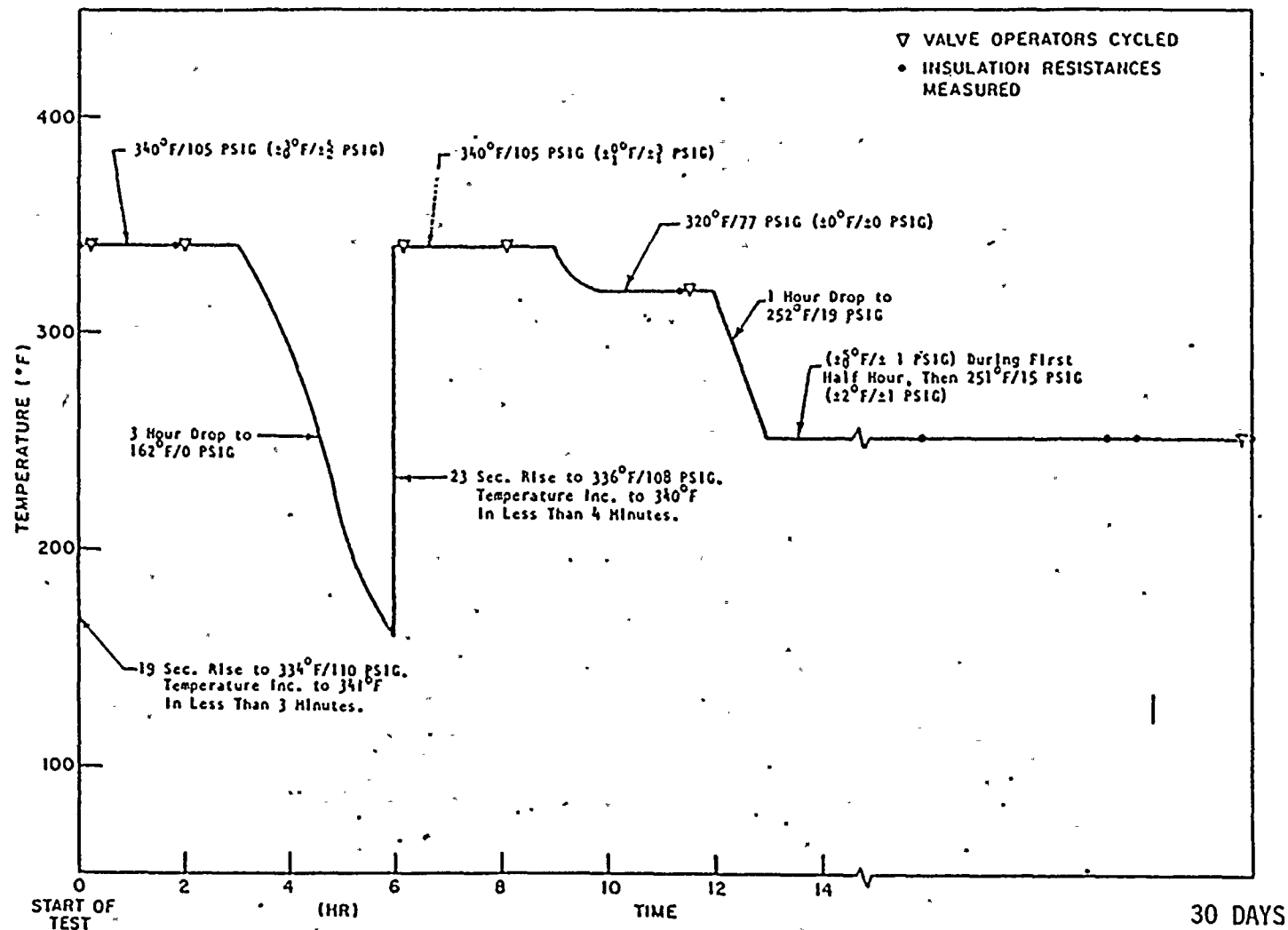
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-MO-5 MANUFACTURER Limatorque MODEL NUMBER SNB-3-100/254UR3 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates LPCS injection valve (isolation valve) LOCATION: BLDG R ELEVATION 530 COLUMN 18/4.3	OPERATING TIME	6 months	Equivalent to 6 months 15 150°F	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous	
	CHEMICAL SPRAY	N/A	N/R	N/A	N/A	N/A	None
	RADIATION (RAD)	6.4 x 10 ⁵	2.04 x 10 ⁸	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Allen</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limatorque Report 80058 3. Limatorque Report 8600376A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Report 0740-004-522B 6. E/IC-02-80-04-0				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Floor Drain Radioactive	OPERATING TIME	6 months	Note 1	2			
TAG NUMBER FDR-RMS-603, 604	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
MANUFACTURER	PRESSURE (PSIA)	14.7		1			
MODEL NUMBER	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
COMPONENT Remote Manual Switch	CHEMICAL SPRAY	N/A		1			
FUNCTION/SERVICE	RADIATION (RAD)						
	AGING	40 years		1			
LOCATION: BLDG R ELEVATION 441 COLUMN	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: _____ Reviewed by: _____						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81				1. The qualification status of this component has not yet been determined. Requalification will be conducted if required.			

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WASHINGTON POWER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-PIS-1 LPCS-PS-5 MANUFACTURER Robertshaw MODEL NUMBER SP-222-C COMPONENT Pressure Indicating Switch FUNCTION/SERVICE LPCS Pump 1 Pressure Indicating Switch LOCATION: BLDG R ELEVATION 471 COLUMN K/4.2	OPERATING TIME	24 hours		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/7/82</u> Reviewed by: <u>JDM 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-471A				1. Qualification documentation is being obtained from the vendor.			

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EQUIPMENT QUALIFICATION REPORT

OWN: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Low Pressure Core Spray TAG NUMBER LPCS-PS-9	OPERATING TIME	24 hours	24 hours	1	4,5	Engineering Analysis and Simultaneous Test	None
MANUFACTURER Barksdale MODEL NUMBER PLH-M600SS-V COMPONENT Pressure Switch FUNCTION/SERVICE LPCS Pump discharge to ADS LOCATION: BLDG R ELEVATION 471 COLUMN K/4.2	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY		±1%		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>AN 1/7/82</u> Reviewed by: <u>JDM 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2..FSAR Paragraph 3.11 3. EDS Report #0740-004-471A 4..EDS Calculation file 0740-006-001 5..Barksdale Environmental (Steam) Test Delaval Turbine Inc., Barksdale Controls Division Test Procedure 9993, dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

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REPORT

Volume 3

January 1982

Washington Public Power Supply System
Richland, Washington 99352



APPENDIX C (Continued)

EQUIPMENT QUALIFICATION REPORTS



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-DPIS-10D MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Differential Pressure Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 501 COLUMN L9/3.7	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.6×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-501B 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
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SPEC: 2808-02E31

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-DPIS-8A, B, C, D 9A, B, C, D MANUFACTURER ITT Barton MODEL NUMBER 288, 288A COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE PCIS Hi Steam Flow Line A LOCATION: BLDG R ELEVATION 501, 471 COLUMN H.6/7.3, L.9/3.6, H.6/8.1, H.5/4.5	OPERATING TIME	6 months	Equivalent to >6 months at 150°F	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident.	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.7 x 10 ⁶	3 x 10 ⁶	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment list, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471B, E, -571B, K 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report.QSR-027-01, 10/2/80				Qualified. 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-DPIS-11A, B, C, D MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE Isolation Valve Control LOCATION: BLDG R ELEVATION 506, 471 COLUMN H6/7.3 H6/8.1 L9/3.6 M5/4.5	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-471B 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-DPT-32 MANUFACTURER G.E. MODEL NUMBER C555011NAA4WCA COMPONENT Differential Pressure Transmitter FUNCTION/SERVICE Main Steam Differential Pressure LOCATION: BLDG R ELEVATION 472 COLUMN J.7/8.0	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	6.0 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Phi</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471D				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER See Next Page MANUFACTURER G. E. MODEL NUMBER 50555111BHAACA COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 471 COLUMN M.5/4.5, M.7/4.4 M5/4.5, J6/81, J7/80	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	5.0 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Pin</u> Reviewed by: <u>M. S. Robinson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471B and D				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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	<p>MS-FT-33A 33B 33C 33D 34A 34B 34C 34D 34E 34F 34G 34H 34J 34K 34M 34N 34P 34S 34U 34V 34W</p>



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-LIS-24A, B, C, D MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Level Indicating Switch FUNCTION/SERVICE Main Steam Level Indication LOCATION: BLDG R ELEVATION 525 COLUMN H4/7.1 M7/6.8 N8/5.8 J9/4.5	OPERATING TIME	24 hours	24 hours	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	8.3×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Boh</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. /			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-LIS-31A, B, C, D MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Level Indicating Switch FUNCTION/SERVICE Vessel Level for HPCS LOCATION: BLDG R ELEVATION 525 COLUMN J5/7.4 N8/5.8	OPERATING TIME	24 hours	24 hours	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.8×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Rapport Chi</u> Reviewed by: <u>Mark Boh</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522C 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER MS-LIS-36A-D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	250	2	5	Simultaneous Test	None
MANUFACTURER Yarway	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
MODEL NUMBER 4418C	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
COMPONENT Level Indicating Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE Main Steam Level Indicating Switch	RADIATION (RAD)	8.3×10^5		3			Note 1
	AGING	40 years		2			Note 1
LOCATION: BLDG R ELEVATION 522 COLUMN J6/4.5 M7/6.8 J6/4.5 M7/6.8	ACCURACY		1%		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/6/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H 4. EDS Calculation File 0740-006-007 5. Lockheed Electronics Test Report #5628-3509 dated 3/29/79.				1. The materials of construction are being obtained from the vendor to complete the evaluations.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-LIS-37A, B, C, D MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Level Indicating Switch FUNCTION/SERVICE Main Steam Level Indication LOCATION: BLDG R ELEVATION 525 COLUMN J9/4.5 M7/6.8	OPERATING TIME	24 hours	24 hours	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	8.3×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Behr</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-LIS-38A, B MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Level Indicating Switch FUNCTION/SERVICE Main Steam Level Indication LOCATION: BLDG R ELEVATION 525 COLUMN J9/4.5 M7/6.8	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	8.3×10^5	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark B.L.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522H 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours		1			Note 1
TAG NUMBER MS-LITS-26A,B	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
MANUFACTURER Barton	PRESSURE (PSIA)	14.7		2			
MODEL NUMBER 760	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT Level Indicating Transmitter Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE MS Level	RADIATION (RAD)	8.3×10^5		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 522 COLUMN J5/7.1 M7/6.8	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H				1. Qualification Documentation is being obtained for this component.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours		1			Note 1
TAG NUMBER MS-LITS-26C	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal See Profile 21 Accident		2			
MANUFACTURER Barton	PRESSURE (PSIA)	14.7 Normal See Profile 21 Accident		2			
MODEL NUMBER 760	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT Level Indicating Transmitter Switch	CHEMICAL SPRAY			2	N/A	N/A	None
FUNCTION/SERVICE MS Level	RADIATION (RAD)	5.8 x 10 ⁵		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 522 COLUMN N8/5.8	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522C				1. Qualification Documentation is being obtained for this component.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours		1			Note 1
TAG NUMBER MS-LITS-26D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
MANUFACTURER Barton	PRESSURE (PSIA)	14.7		2			
MODEL NUMBER 760	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT Level Indicating Transmitter Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE MS Level	RADIATION (RAD)	5.2×10^4		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 522 COLUMN J8/4.6	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDN 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522P				1. Qualification Documentation is being obtained for this component.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam	OPERATING TIME	24 hours		1			Note 1
TAG NUMBER MS-LITS-44A,B	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
MANUFACTURER Barton	PRESSURE (PSIA)	14.7		2			
MODEL NUMBER 760	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT Level Indicating Transmitter Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE MS Level	RADIATION (RAD)	5.0×10^5		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 471 COLUMN J5/8.2 MS/4.5	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471B				1. Qualification Documentation is being obtained for this component.			

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OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER See Note Below MANUFACTURER Namco MODEL NUMBER EA700-86010 COMPONENT Limit Switch FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 513 COLUMN 255 ⁰	OPERATING TIME	24 hours	Note 1	1	3		
	TEMPERATURE (F)	135 normal 150 abnormal accident--profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal accident--profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	3.48×10^7		2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 C1E Equipment List, 12/16/81 2. FSAR Paragraph 3.11 3. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch EA180, which is qualified to IEEE 323-74 and 344-75 (Ref. 3). MS-LMS-22A1 MS-LMS-22C1 -22A2 -22C2 -22A3 -22C3 -22B1 -22D1 -22B2 -22D2 -22B3 -22D3			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER See Note Below MANUFACTURER Namco MODEL NUMBER EA700-86010 COMPONENT Limit Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 543 COLUMN H.7/6.1	OPERATING TIME	24 hours	Note 1	1	4		
	TEMPERATURE (F)	125 normal 140 abnormal accident--profile 2		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	50 normal 98 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.7×10^6		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mr. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List, 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-5220 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch EA 740, which is qualified to IEEE 323-74 and IEEE 344-75 (Ref. 4) MS-LMS-28A1 MS-LMS-28C1 -28A2 -28C2 -28A3 -28C3 -28B1 -28D1 -28B2 -28D2 -28B3 -28D3			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-LT-27 MANUFACTURER G.E. MODEL NUMBER C-50-555 COMPONENT Level Transmitter FUNCTION/SERVICE Level Transmitter for Main Steam LOCATION: BLDG R ELEVATION 524 COLUMN M.8/6.6	OPERATING TIME	24 hours	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	8.3 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Phin</u> Reviewed by: <u>h1. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

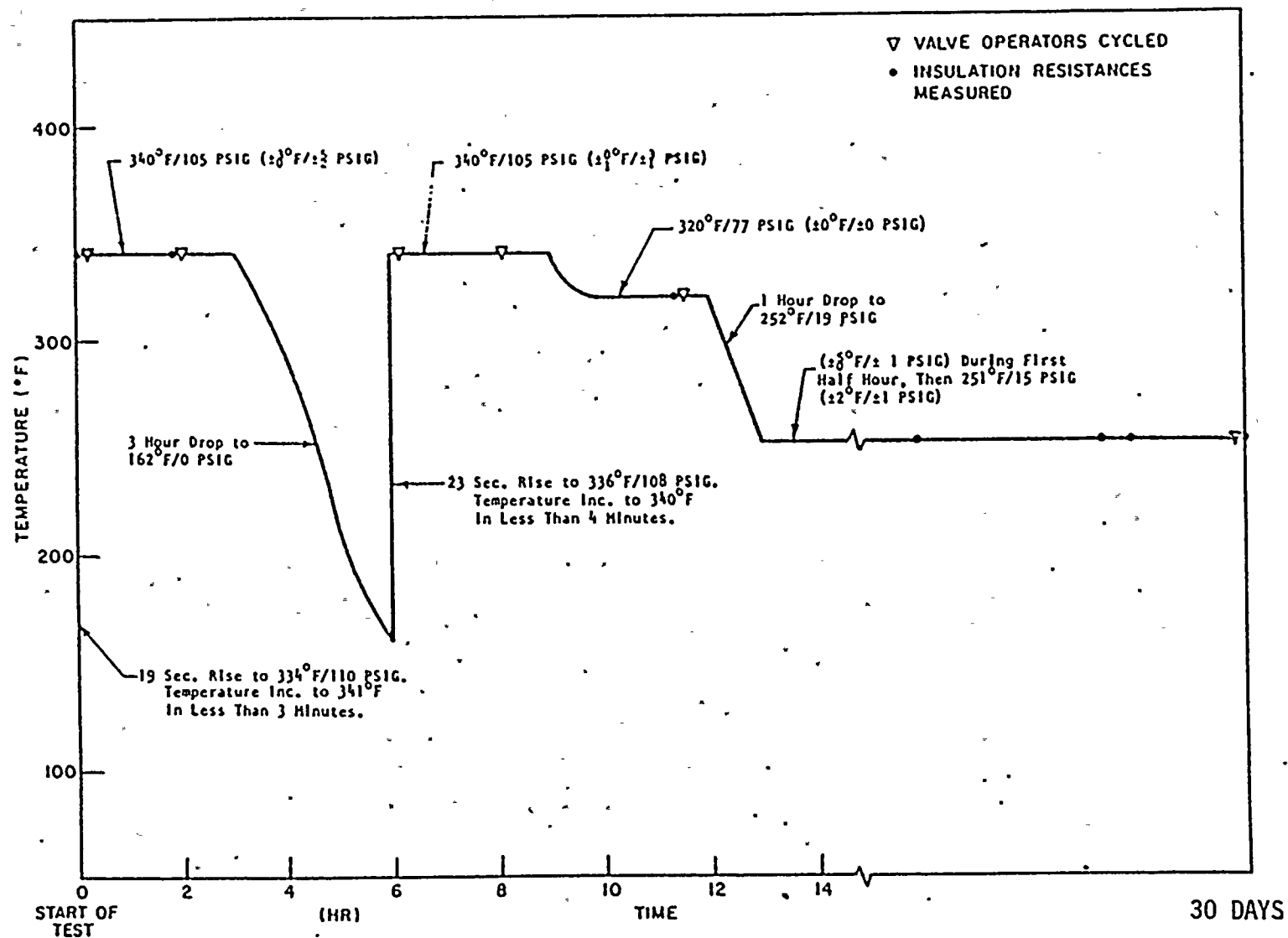
WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-M0-16 MANUFACTURER Limatorque MODEL NUMBER SMB-000-7.5/L56 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates drain isolation valve LOCATION: BLDG C ELEVATION 504⁰ COLUMN 0 Deg. Az	OPERATING TIME	24 hours	30 days	4	3	Simultaneous Test Engineering Analysis	
	TEMPERATURE (F)	135 max. normal 150 max. abnormal Accident: see profile 1	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident: see profile 1	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 max. normal 90 max. abnormal 100 max. accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	Chemical Spray pH 10	1	3	Simultaneous Test	None
	RADIATION (RAD)	2.74×10^7	2.04×10^8	1	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Jim</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limatorque Report B0058 3. Limatorque Report B600367A 4. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-MO-19 MANUFACTURER Limitorque MODEL NUMBER SMB-000 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate MS Valve 19 LOCATION: BLDG R ELEVATION 501 COLUMN H8/6.2	OPERATING TIME	24 hours	24 hours	1	3	Simultaneous Testing	None
	TEMPERATURE (F)	125 normal 140 max. abnormal accident--profile 2	See enclosed profile	1	3	Simultaneous Testing	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	50 normal 98 max. abnormal 100 accident	100%	1	3	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	4.2x10 ⁶	1x10 ⁷	2	3	Sequential Testing	None
	AGING	40 years	40 years+	1	3,4	Sequential Testing Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ronald Chin</u> Reviewed by: <u>M. P. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5010 3. Limitorque Report B0009, 4/30/76 4. Applicability calculations in QID221011 5. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			



FIGURE 1 TEMPERATURE PROFILE ENVIRONMENTAL TEST

3 - EVENT #

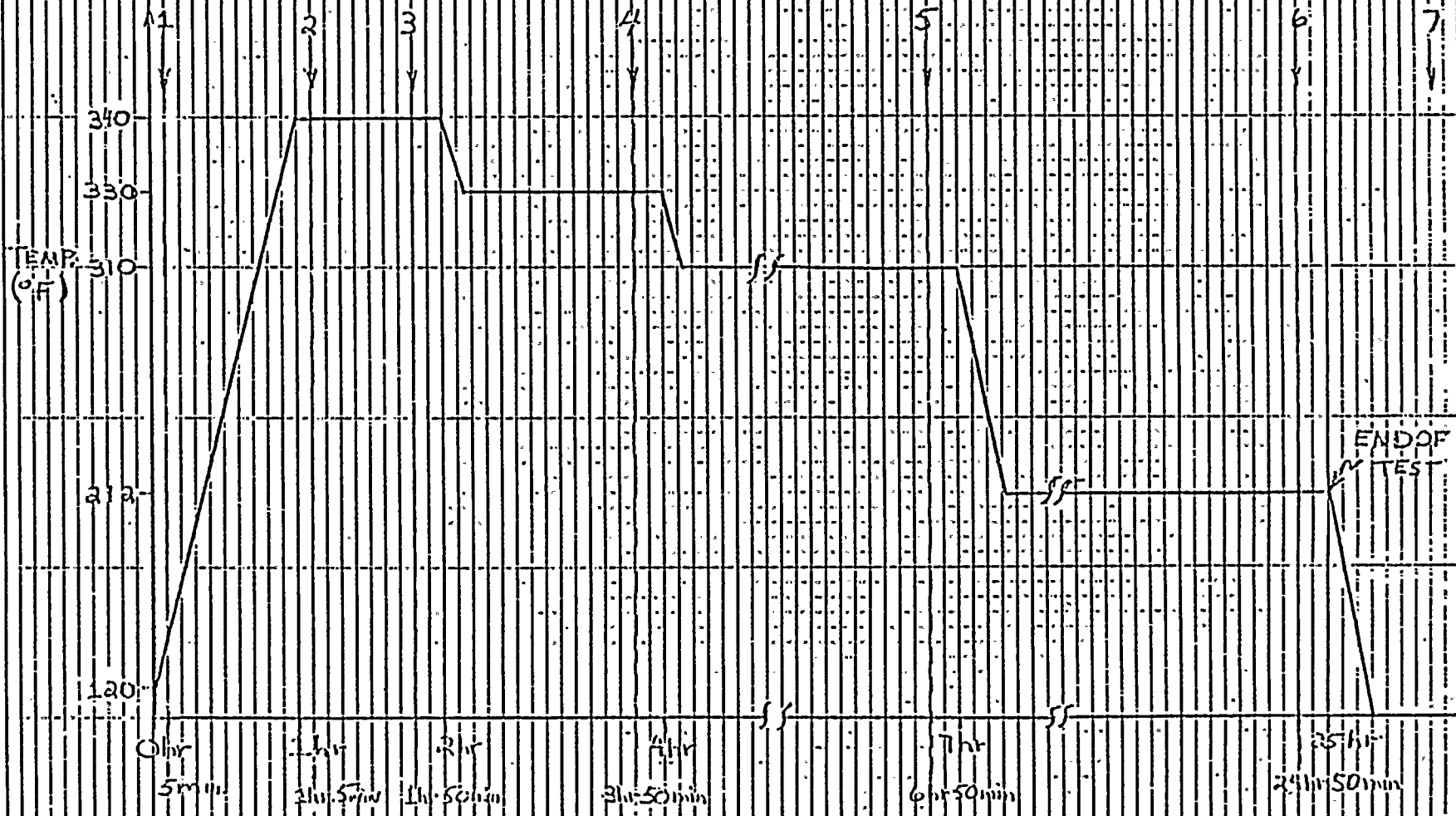


FIGURE 1

KEUFFEL & ESSER CO.
PAID IN U.S.A.

12 3705
10 X 10 TO THE INCH
H
2



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

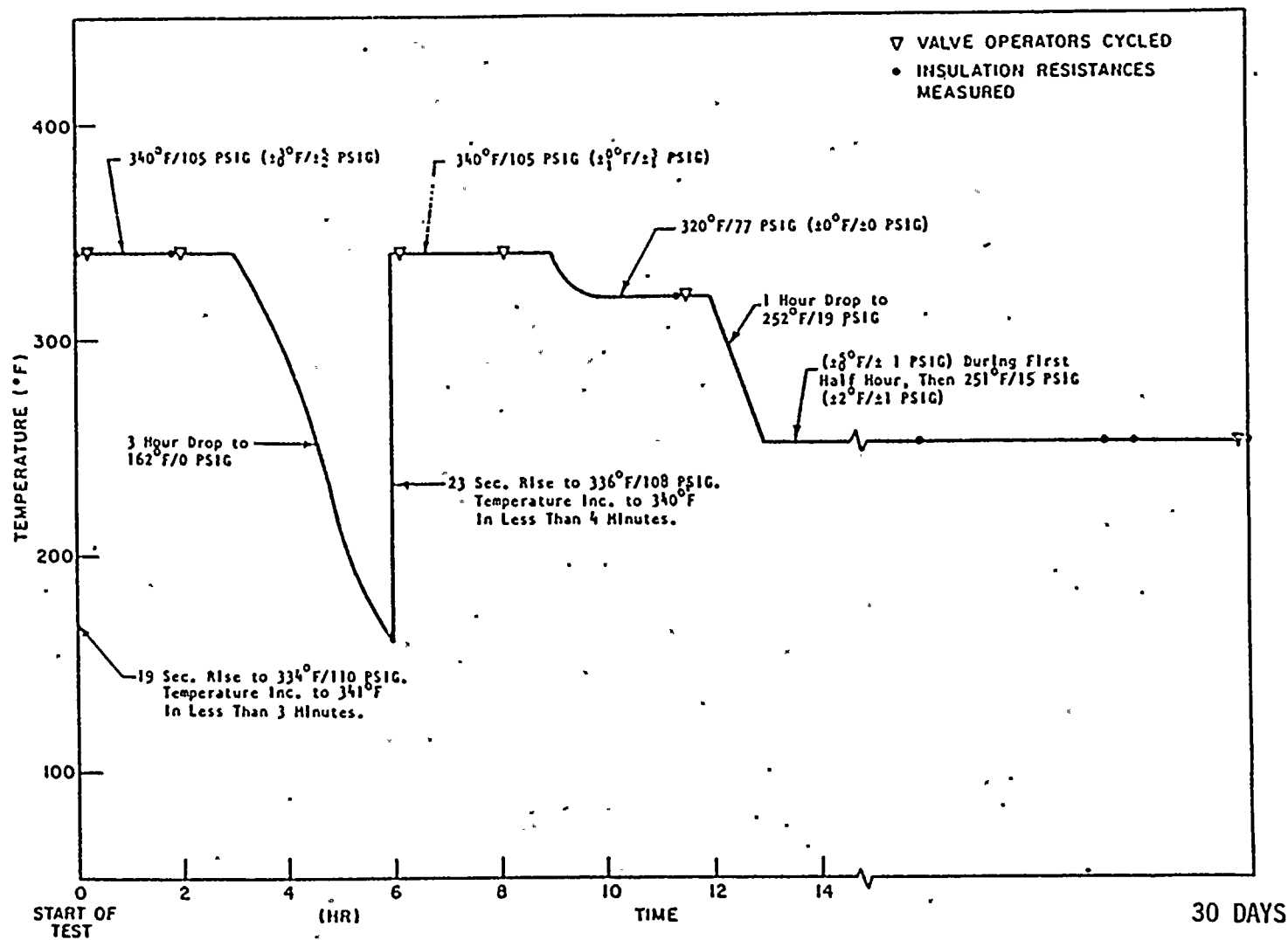
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-MO-20 MANUFACTURER Limatorque MODEL NUMBER Valve Motor Operator COMPONENT FUNCTION/SERVICE Operate MS Valve LOCATION: BLDG R ELEVATION 501 COLUMN H1/5.9	OPERATING TIME	24 hours	30 days	1	3	Simultaneous Test	None
	TEMPERATURE (F)	125 maximum normal 140 maximum abnormal accident--profile 2	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	N/A	None
	RELATIVE HUMIDITY (%)	50 normal 98 maximum abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	4.20×10^6	2.04×10^8	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3,4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Ramond Chi</u> Reviewed by: <u>M. L. Hoffman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-501 0 3. Limatorque Report 600376A, 5-13-76 4. E/IC 02-80-40-0				1. Qualified			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

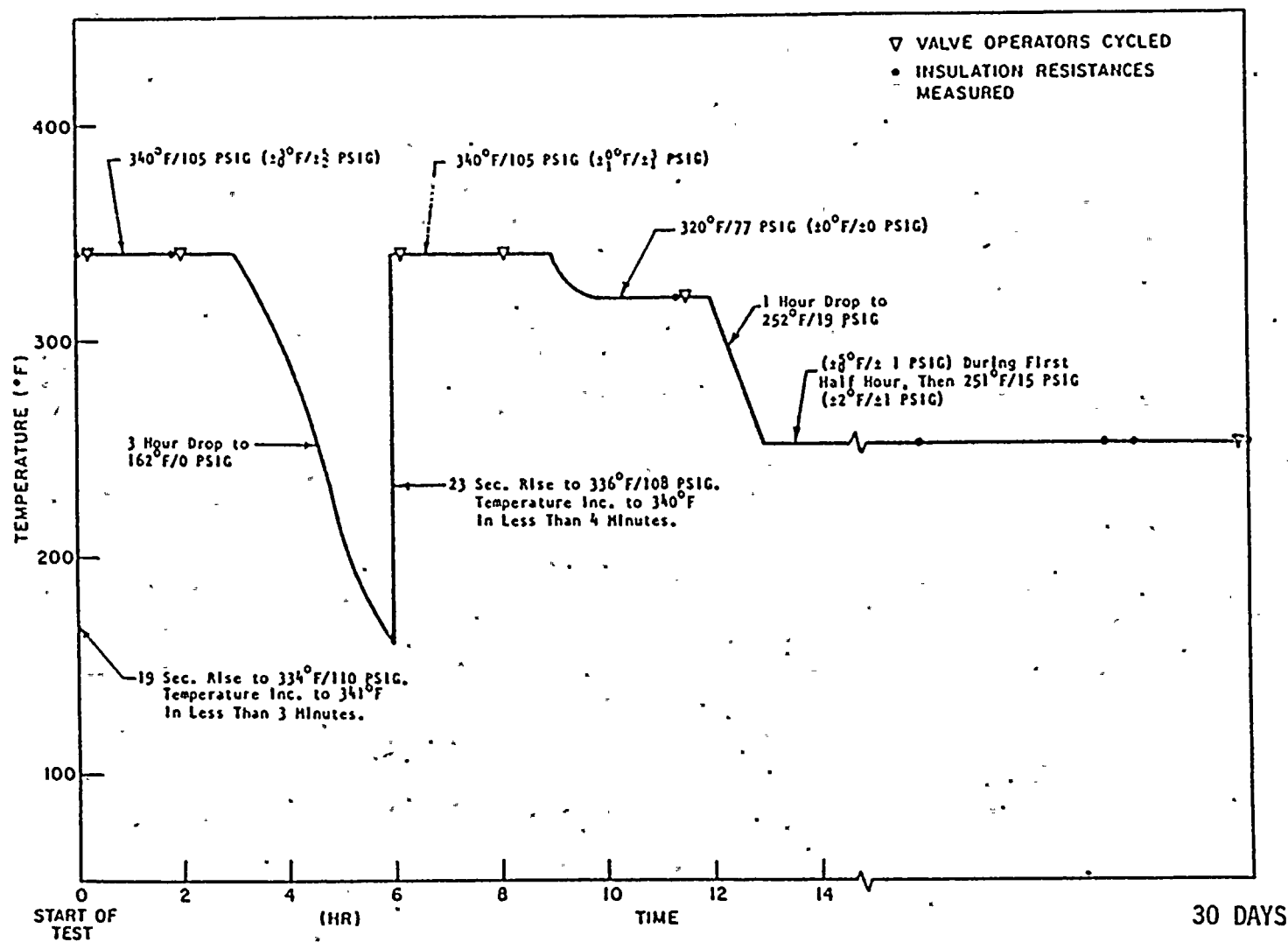
MPL:
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WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-HQ-67A -67B -67C -67D MANUFACTURER Limatorque MODEL NUMBER SMB-000 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate MS Valves 67A, 67B, 67C and 67D LOCATION: BLDG R ELEVATION 501 COLUMN H7/5, 6 to H7/6.4	OPERATING TIME	24 hours	30 days	1	3	Simultaneous Test	None
	TEMPERATURE (F)	125 normal 140 max. abnormal accident--profile 2	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	N/A	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	50 normal 98 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	4.2×10^6	2×10^8	2	3	Sequential Test	None
	AGING	40 years	40 years	1	3,4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Rapport Chi</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5010 3. Limatorque Report 600376A, 5/13/76 4. E/IC 02-80-04-0				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-PI-4A MANUFACTURER Robert Shaw MODEL NUMBER EP COMPONENT Pressure Indicator FUNCTION/SERVICE MS Pressure Indicator LOCATION: BLDG R ELEVATION 525 COLUMN J7/4.7	OPERATING TIME	24 hours	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY			2			None
	RADIATION (RAD)	5.2 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY						None
		N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. S. Arfania</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522P				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02B22MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER MS-PS-20A-D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
MANUFACTURER Barksdale	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
MODEL NUMBER B1T-M12SS	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
COMPONENT Pressure Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE Main Stream Isolation Valve Scram Interlock	RADIATION (RAD)	8.33×10^5	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
LOCATION: BLDG R ELEVATION 525 COLUMN J5/7.1 M7/6.8 N8/5.8 J9/4.5	ACCURACY		$\pm 1\%$		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/6/82</u> Reviewed by: <u>JDN 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR paragraph 3.11 3. EDS Report No. 0740-004-522H 4. EDS Calculation File No. 0740-006-001 5. Barksdale Environmental Test. Delaval Turbine Inc. Test Procedure 9993 Report Dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER MS-PS-23A-D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
MANUFACTURER Barksdale	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
MODEL NUMBER BLT-M12SS	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
COMPONENT Pressure Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE High Vessel Pressure	RADIATION (RAD)	8.3×10^5	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
LOCATION: BLDG R ELEVATION 524 COLUMN J.5/7.1 J.9/4.5 N.8/5.8 N.7/6.8	ACCURACY		$\pm 1\%$		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/6/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment list dated 12/16/81 2. FSAR paragraph 3.11 3. EDS Report No. 0740-004-522H 4. EDS Calculation File No. 0740-006-001 5. Barksdale Environmental Test Delaval Turbine Inc. Test Procedure 9993 Report Dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-PS-39A-N,P,R,S,U,V MANUFACTURER Barksdale MODEL NUMBER B1T-M12SS COMPONENT Pressure Switch FUNCTION/SERVICE Relief Valve Pressure Switch LOCATION: BLDG R ELEVATION 524 COLUMN A-N J.9/4.5 P,R,S,U,V J.5/4.5	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.2×10^4	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY		±1%		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/6/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment list, dated 12/16/81 2. FSAR paragraph 3.11 3. EDS Report No. 0740-004-522P 4. EDS Calculation file no. 0740-006-001 5. Barksdale Environmental Test Delaval Turbine Inc. Test Procedure 9993 Report Dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2			



WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02B22

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
TAG NUMBER MS-PS-45A-D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
MANUFACTURER Barksdale	PRESSURE (PSIA)	14.7	14.7	2	5	Simultaneous Test	None
MODEL NUMBER BlT-M12SS	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
COMPONENT Pressure Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE Main Steam Pressure	RADIATION (RAD)	8.3×10^5	2×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
LOCATION: BLDG R ELEVATION 524 COLUMN A,B J7/4.7 C,D M7/6.6	ACCURACY		±1%		5	Functional Test	
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN</u> 1/5/82 Reviewed by: <u>JDM</u> 1/6/82						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment list, dated 12/16/81 2. FSAR paragraph 3.11 3. EDS Report No. 0740-004-522H 4. EDS Calculation File 0740-006-001 5. Barksdale Environmental Test, Delaval Turbine Inc. Test Procedure 9993 Report Dated August 13, 1975.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02B22

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS															
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL																	
SYSTEM Main Steam	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None															
TAG NUMBER MS-PS-47A-D MS-PS-48A-D	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None															
MANUFACTURER Static-O-Ring	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None															
MODEL NUMBER See Note 2	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None															
COMPONENT Pressure Switch	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None															
FUNCTION/SERVICE Drywell Pressure Switch	RADIATION (RAD)	8.33×10^5	8.33×10^5	3	4	Engineering Analysis	None															
	AGING	40 years	Note 1	2		Preventive Maintenance	None															
LOCATION: BLDG R ELEVATION 522 COLUMN See Note 2	ACCURACY																					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>																					
DOCUMENTATION REFERENCES				NOTES																		
1. WNP-2 Class 1E Equipment List, dated 12/16/81. 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522M 4. EDS Calculation file 0740-006-006 5. Viking Lab. Inc. Test letter Report #30203-2 dated 11/20/73. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <table border="1"><thead><tr><th>Tag #</th><th>Model #</th><th>Column</th></tr></thead><tbody><tr><td>MS-PS-47A,C</td><td>12N-AA5-X10TT</td><td>J.5/7.1</td></tr><tr><td>MS-PS-47B,D</td><td>12N-AA5-X10TT</td><td>N.8/5.8</td></tr><tr><td>MS-PS-48A,C</td><td>12N-AA5-X10TT</td><td>J.5/4.5</td></tr><tr><td>MS-PS-48B,D</td><td>12N-AA5-X10TT</td><td>M.7/6.8</td></tr></tbody></table>				Tag #	Model #	Column	MS-PS-47A,C	12N-AA5-X10TT	J.5/7.1	MS-PS-47B,D	12N-AA5-X10TT	N.8/5.8	MS-PS-48A,C	12N-AA5-X10TT	J.5/4.5	MS-PS-48B,D	12N-AA5-X10TT	M.7/6.8
Tag #	Model #	Column																				
MS-PS-47A,C	12N-AA5-X10TT	J.5/7.1																				
MS-PS-47B,D	12N-AA5-X10TT	N.8/5.8																				
MS-PS-48A,C	12N-AA5-X10TT	J.5/4.5																				
MS-PS-48B,D	12N-AA5-X10TT	M.7/6.8																				



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL: B22-N051
PPD: 163C1292

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-PT-51A -51B MANUFACTURER Bailey MODEL NUMBER 556 COMPONENT Pressure Transmitter FUNCTION/SERVICE Transmit Reactor Pressure LOCATION: BLDG R ELEVATION 535, 522 COLUMN J8/4.6, M8/6.6	OPERATING TIME	24 hours	Note 1	4	5		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		1		S.E.	
	PRESSURE (PSIA)	14.7		1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.3×10^5		3			
	AGING	40 years		1			
	ACCURACY			2			
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond P. Chi</u> Reviewed by: <u>M. J. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. PPD 163C1292 3. EDS Study 0740-004-522P, H 4. WNP-2 Class 1E Equipment List, 12/16/81 5. WPPSS Letter GE-02-JLS-81-022				1. These transmitters are being replaced with Rosemount 1153, Series D, qualified to 323-74 and 344-75.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02D17

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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PPD: 237X731

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-RE-3A, B, C, D MANUFACTURER General Electric MODEL NUMBER 237X731G001 COMPONENT Radiation Element FUNCTION/SERVICE Main steam lines radiation monitors LOCATION: BLDG R ELEVATION 508 COLUMN H7/6	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	125 normal 140 max. abnormal Accident - profile 2		1			
	PRESSURE (PSIA)	14.7	N/R				
	RELATIVE HUMIDITY (%)	50 max. normal 98 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	1.93 x 10 ⁷		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-501 0 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

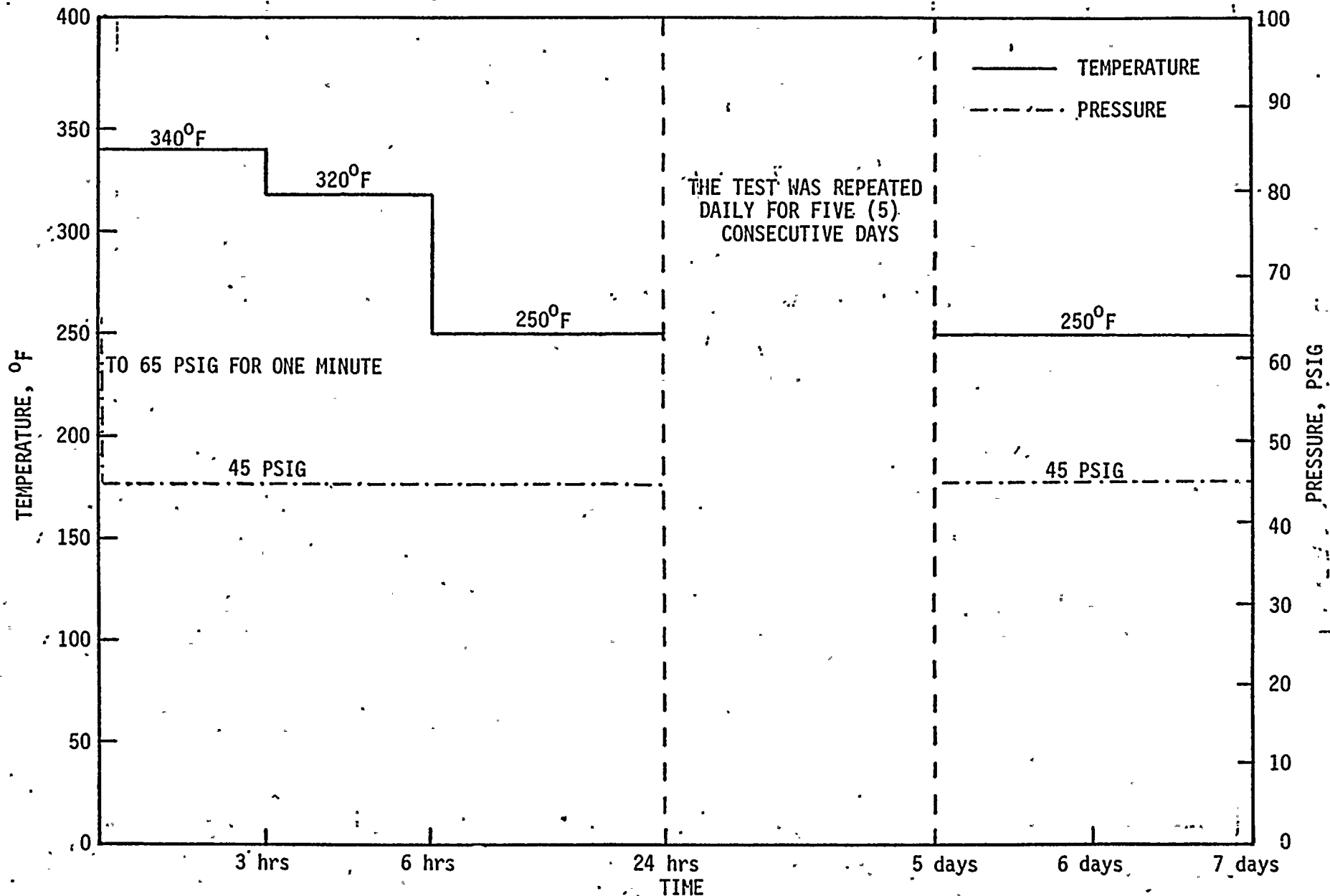
WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

PAGE NO:
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MPL:
PPD:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-1AC, 1BC, 1CC, 1DC, 2AC, 2BC, 2CC, 2DC. MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN AZ 25°, 30°, 315°, 335°, 30°, 45°, 300°, 320°	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	demineralized water	none	1			Note 1
	RADIATION (RAD)	2.74 x 10 ⁷	3.4 x 10 ⁷	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 311 2. G.E. PED Engineer Memo No. 126-62 dated 1/15/75 3. WNP-2 Class 1E Engineer List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES



WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL: B22-F022
PPD: 732E150V

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-SPV (See Note 1) MANUFACTURER Asco MODEL NUMBER HTX-8320A20 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Operate Inboard Main Steam Isolation Valves LOCATION: BLDG C ELEVATION COLUMN 5 ⁰ , 15 ⁰ , 345 ⁰ , 355 ⁰	OPERATING TIME	24 hours		2			Note 2
	TEMPERATURE (F)	135 normal 150 max abnormal Accident - profile 1		1			
	PRESSURE (PSIA)	16.7 normal Accident - profile 1		1			
	RELATIVE HUMIDITY (%)	55 normal 90 max abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water.		1			
	RADIATION (RAD)	2.74 x 10 ⁷		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. P. Robinson</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81				1. MS-SPV-22A1 HS-SPV-22B1 MS-SPV-22C1 MS-SPV-22D1 -22A2 -22B2 -22C2 -22D2 -22A3 -22B3 -22C3 -22D3 2. To be replaced with NP8320A173E, see letter GE-02-JLS-81-023.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL: B22-F028
PPD: 732E150V

PAGE NO:
REVISION:
DATE:



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-(See Note 1) MANUFACTURER Asco MODEL NUMBER HTX-8320A20 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Operate Outboard Main Steam Isolation Valves LOCATION: BLDG R ELEVATION 501 COLUMN H7/5.9, 5.6, 6.4, 6.1	OPERATING TIME	24 hours		1			Note 2
	TEMPERATURE (F)	125 normal 140 max abnormal Accident - profile 2		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	50 max normal 100 max accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	4.2×10^6		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES \ NO	Prepared by: <u>Ann Seiben</u> Reviewed by: <u>M. P. Aronson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-501D				1. MS-SPV-28A1 MS-SPV-28B1 MS-SPV-28C1 MS-SPV-28D1 -28A2 -28B2 -28C2 -28D2 -28A3 -28B3 -28C3 -28D3 2. To be replaced with NP8320A173E, see letter GE-02-JLS-023.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

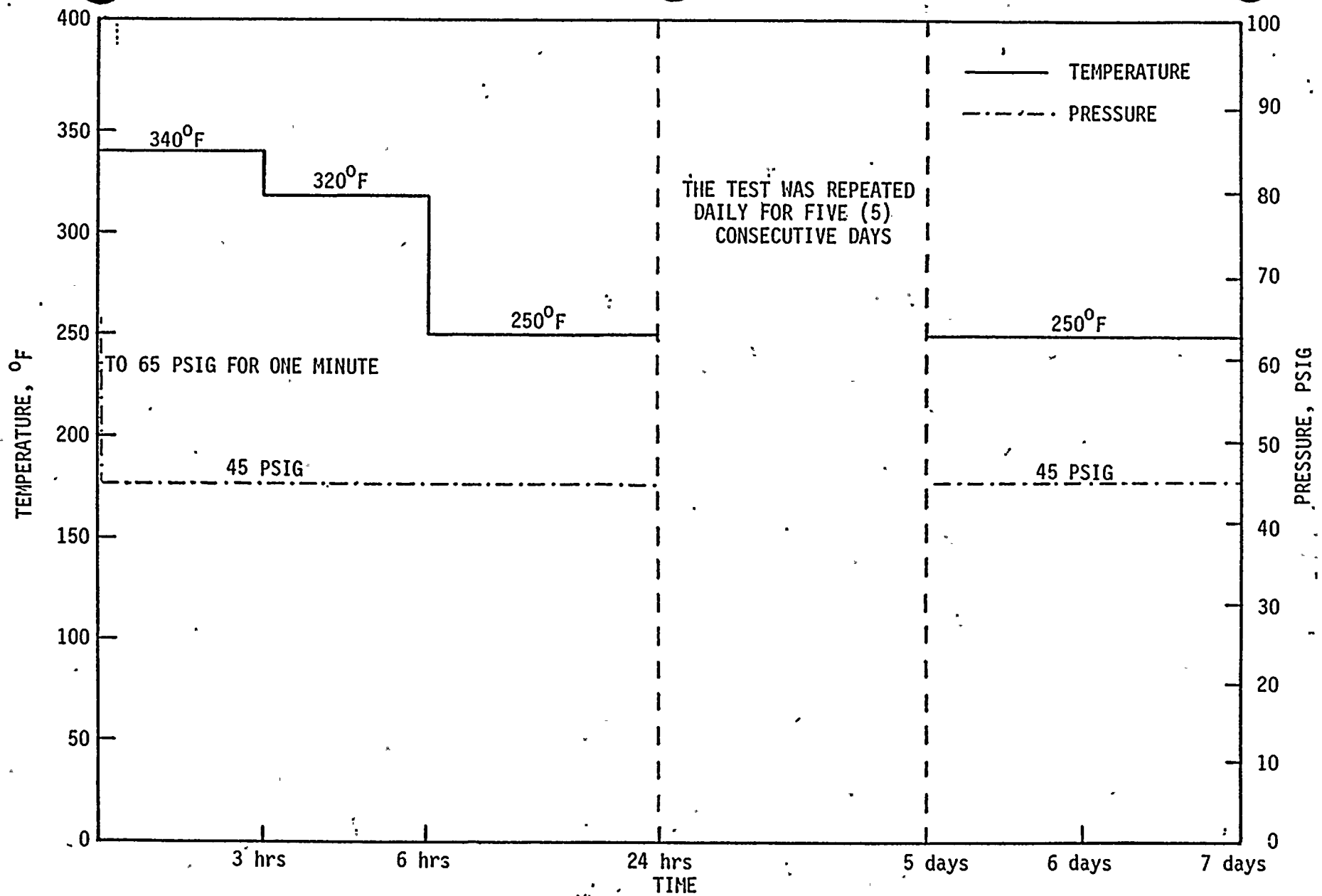
EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-3AC, 3BC, 3CC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for Main Steam Relief Valves LOCATION: BLDG C ELEVATION 543 COLUMN 45 ⁰ , 67 ⁰ , 290 ⁰	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Alan Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engineer Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02B22

MPL: B22-F013
PPD: 22A6441

PAGE NO:
REVISION:
DATE:

EQUIPMENT QUALIFICATION REPORT

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-SPV-3DA -4BB -5BA -3DB -4CA -5BB -4AA -4CB -5CA -4AB -4DA -5CB -4BA -4DB MANUFACTURER Automatic Valve Company MODEL NUMBER C5246 COMPONENT Solenoid Pilot FUNCTION/SERVICE Solenoids for Main Steam Relief Valves LOCATION: BLDG C ELEVATION 547 COLUMN Note 3	OPERATING TIME	24 hours	24 hours	3	2 /	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident--profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident--profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2,4	Sequential Test Engineering Analysis	None note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>[Signature]</u> Reviewed by: <u>M. P. Johnson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. GE PED Engr. Memo No. 126-62, 1/15/75, found in BWR Report 052-A-01 3. WNP-2 Class 1E Equipment List, 12/16/81 4. Calculation in QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the calculated qualified aging life and recommendations from the manufacturer.			





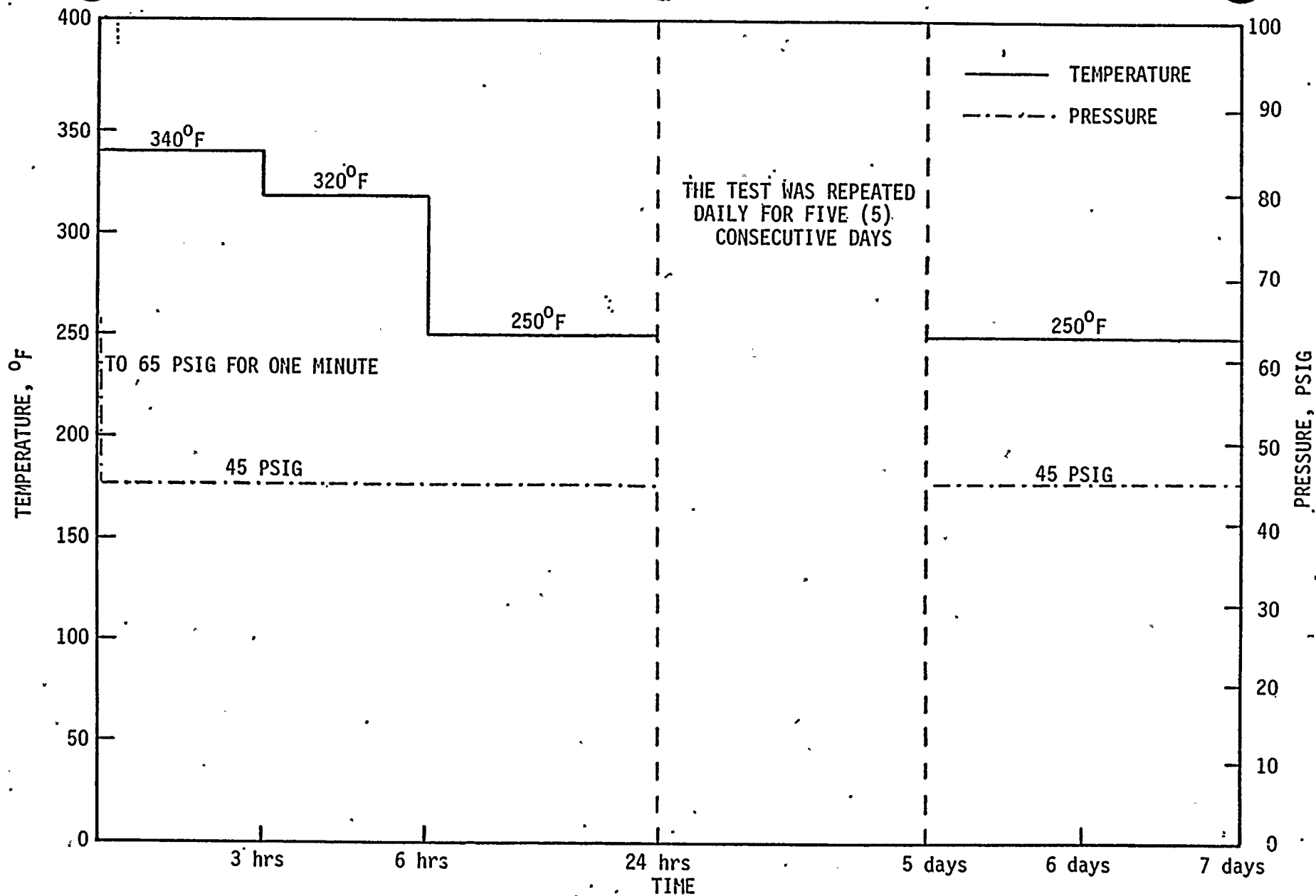
EQUIPMENT QUALIFICATION REPORT

OWNER: - WPPSS
FACILITY: WNP-2
SPEC:

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)		
	3. <u>Tag Number</u>	<u>Elev.</u>	<u>Azimuth</u>
	MS-SPV-3DA	547	310D
	-3DB	547	310D
	-4AA	547	62D
	-4AB	547	62D
	-4BA	547	75D
	-4BB	547	75D
	-4CA	547	285D
	-4CB	547	285D
	-4DA	547	300D
	-4DB	547	300D
	-5BA	547	80D
	-5BB	547	80D
	-5CA	547	275D
	-5CB	547	275D



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES





OWNER: WPPSS
FACILITY: WNP-2
SPEC:

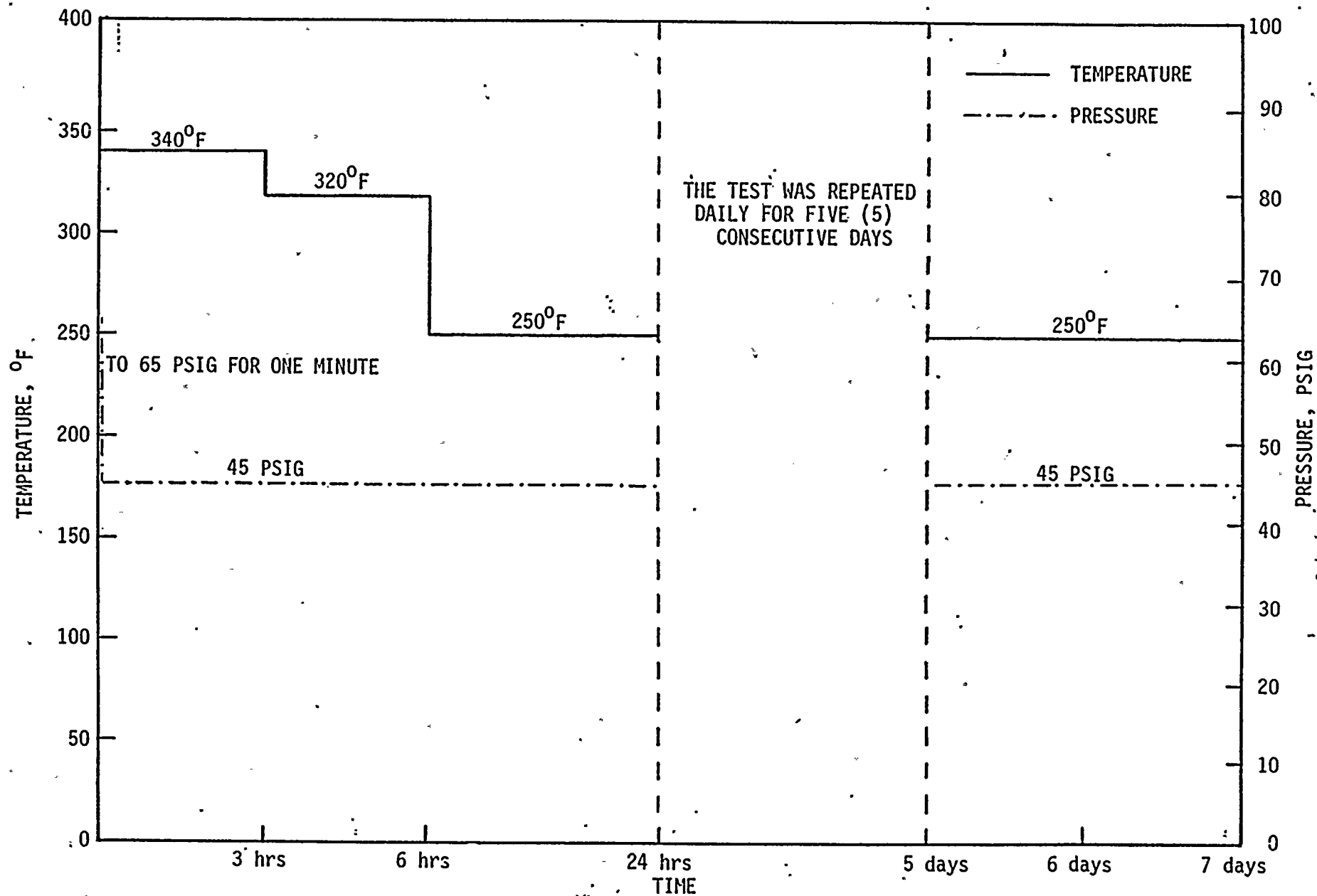
WASHINGTON PUBLIC WATER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-3DC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 310	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond Ch</u> Reviewed by: <u>Al Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engineer Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES

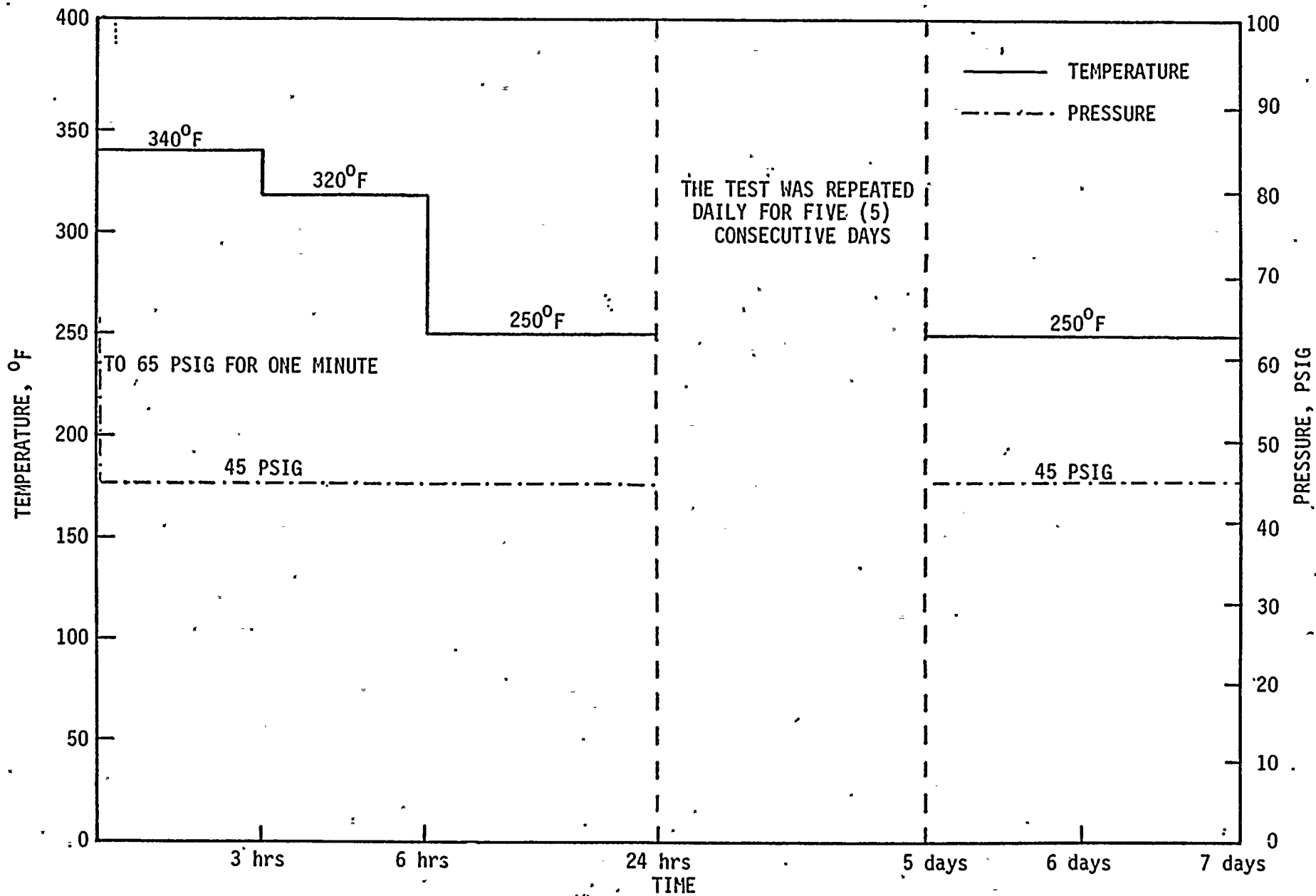


EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-4AC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 550	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Shi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engineer Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer			





ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES

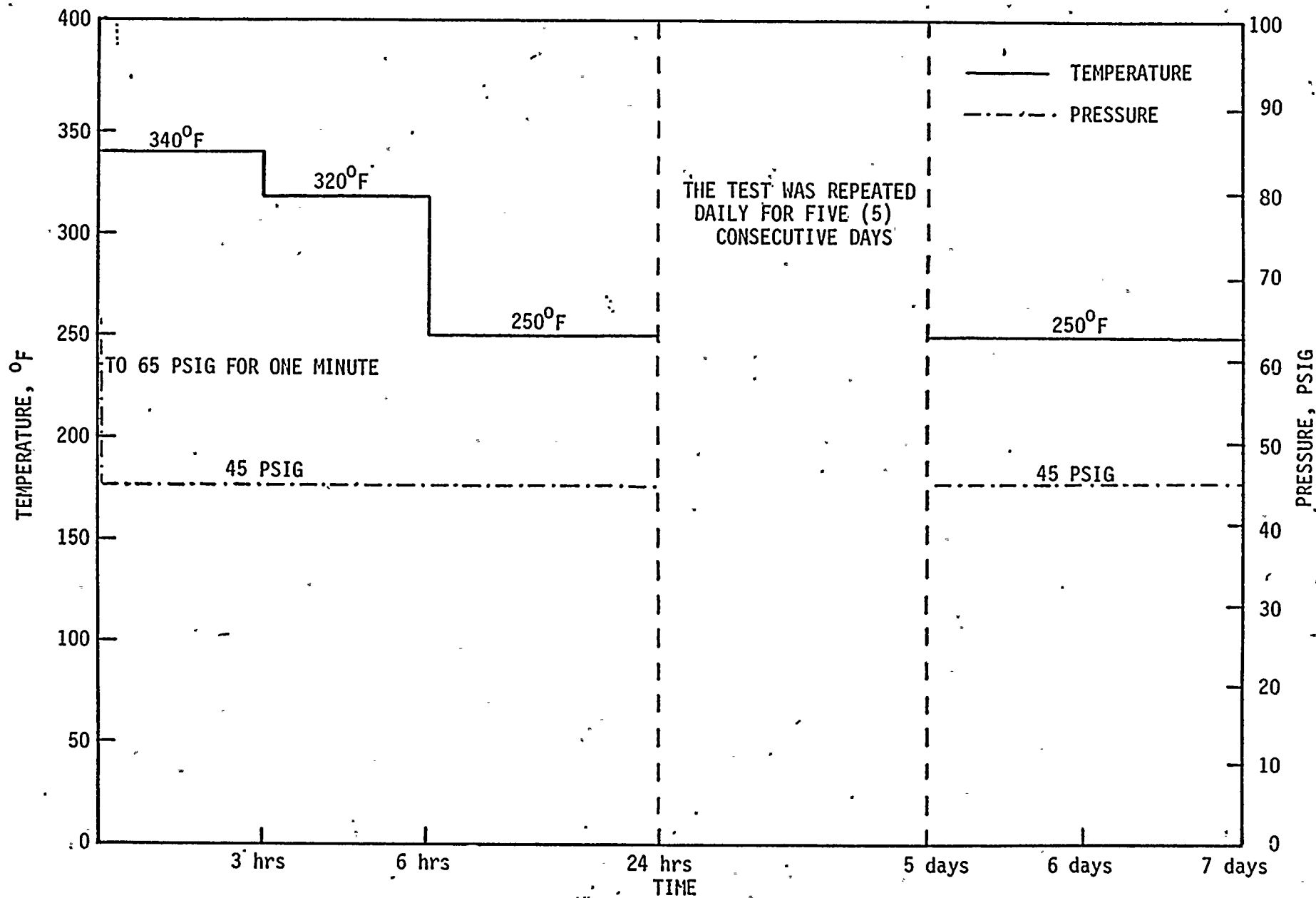




EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-4BC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 80	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Eli</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engineer Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified 1. Component enclosure will be evaluated to determine the effects of demineralized water 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



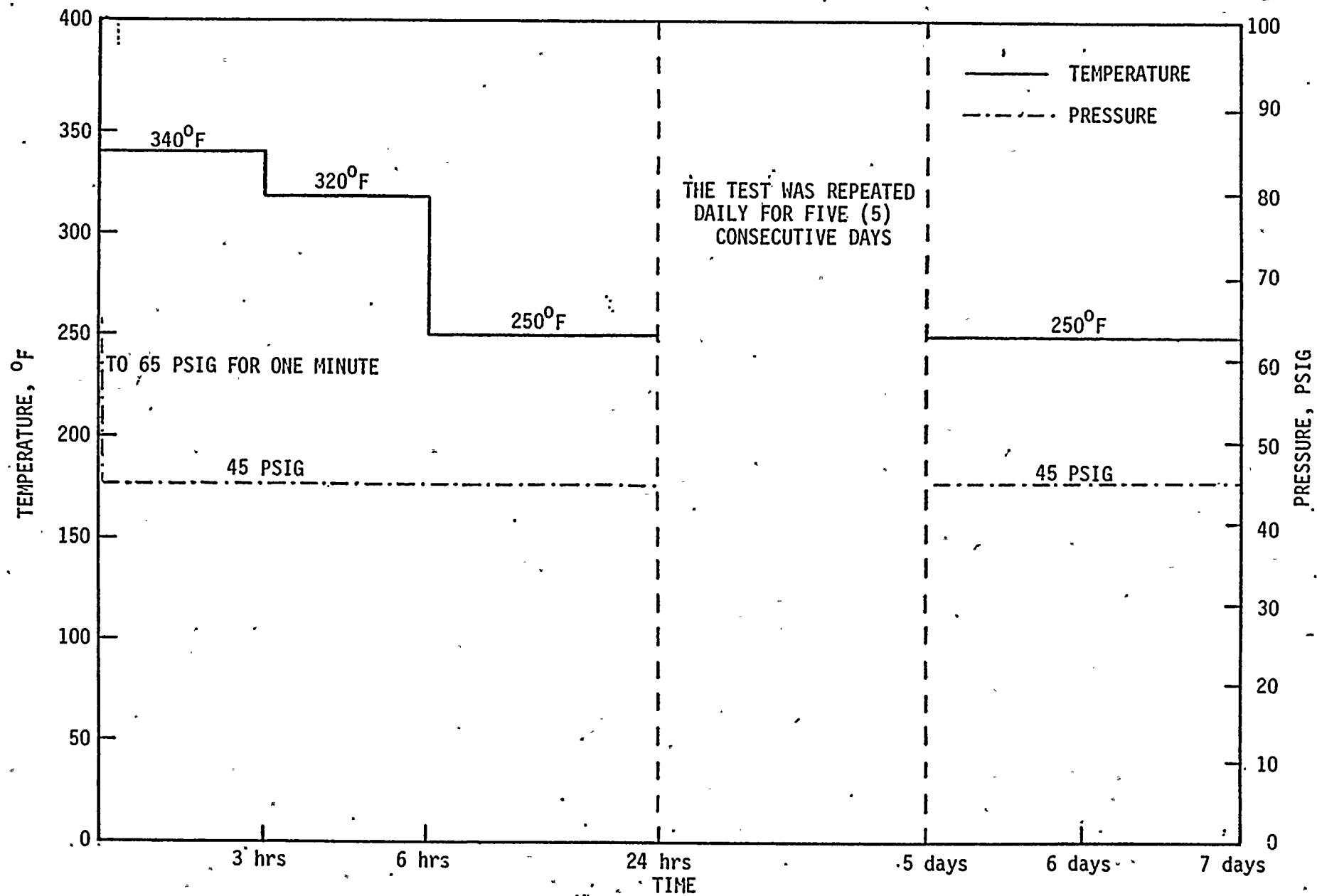
ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES.



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam TAG NUMBER MS-SPV-4CC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 285⁰	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74 x 10 ⁷	3.4 x 10 ⁷	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engr. Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES



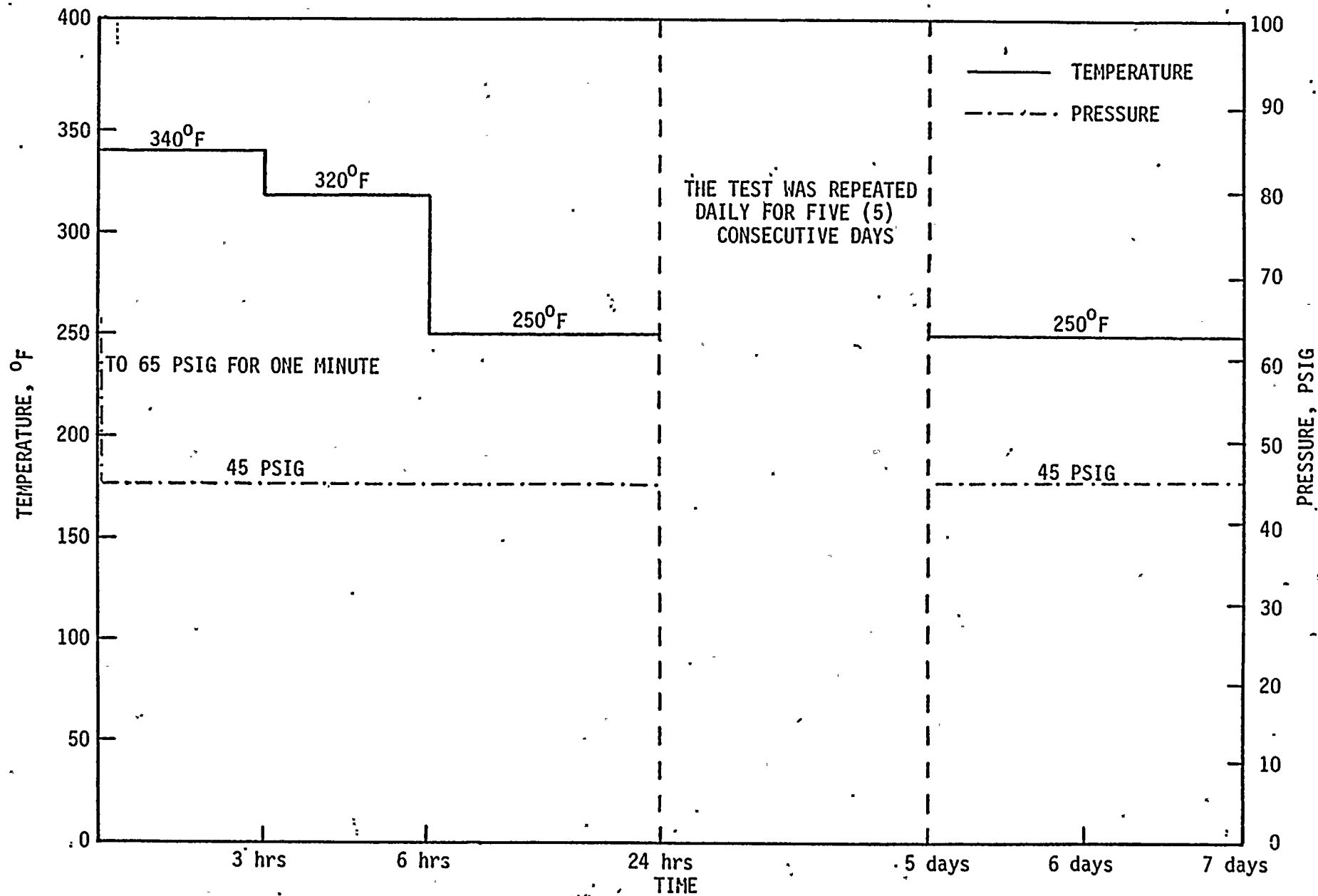
OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
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PAGE NO:
REVISION:
DATE:

EQUIPMENT QUALIFICATION REPORT

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-4DC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 300	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Ch...</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engr. Memo No. 126-62, 1/15/71 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



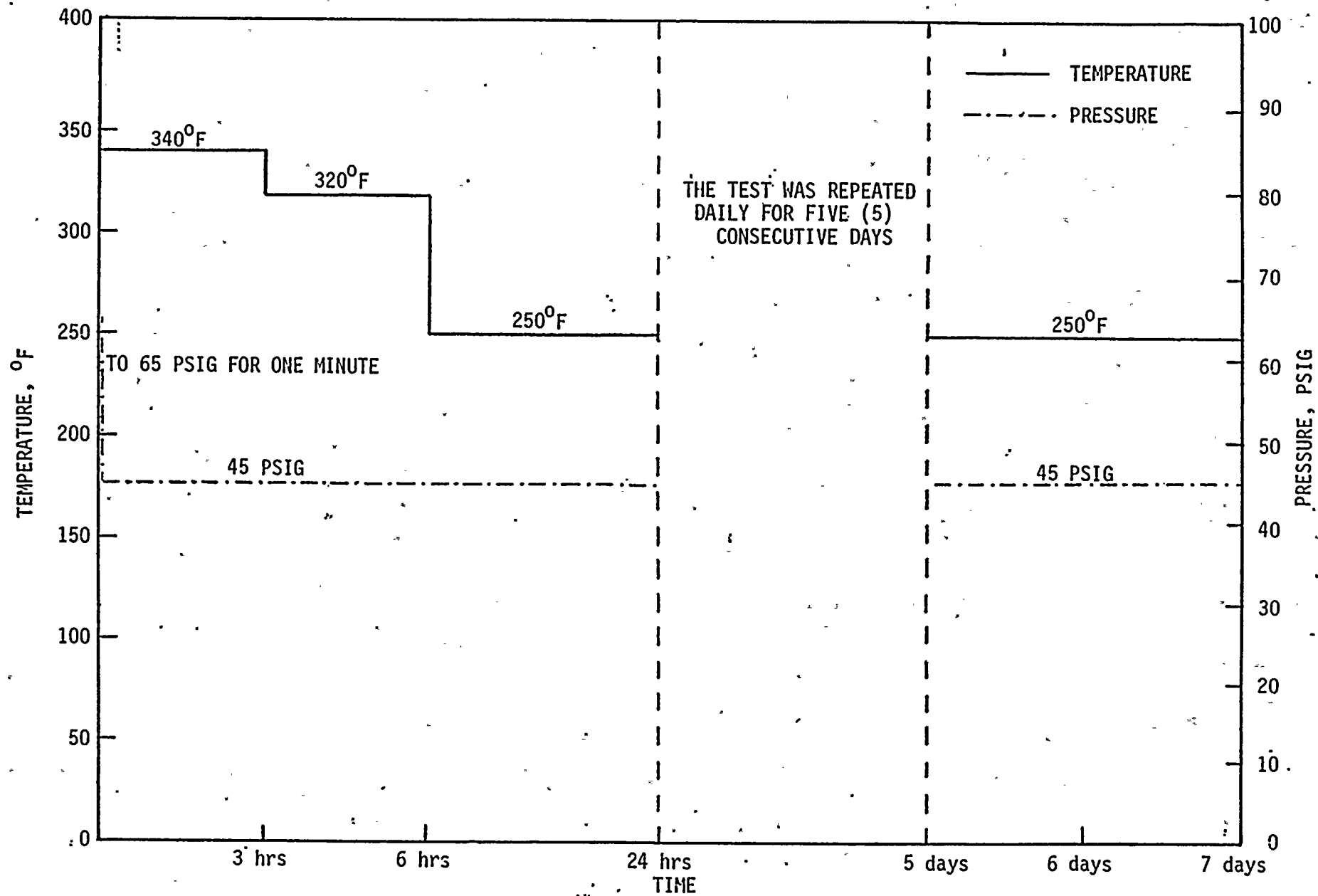
ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-5BC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoids for main steam relief valves LOCATION: BLDG C ELEVATION 543 COLUMN 80⁰	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized Water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Ramond Cho</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engr. Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES





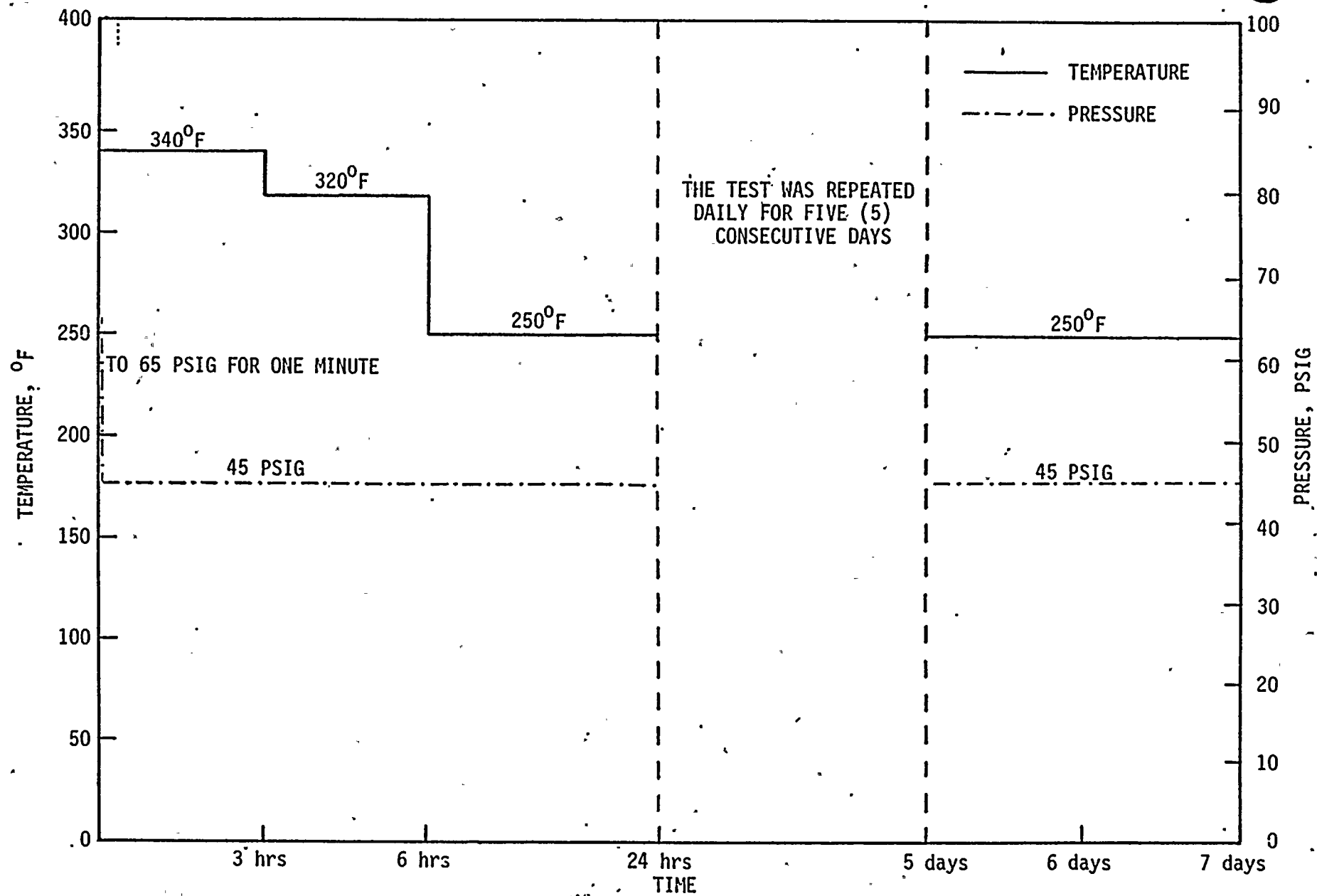
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam TAG NUMBER MS-SPV-5CC MANUFACTURER Avco MODEL NUMBER C5246 COMPONENT Solenoid Pilot valve FUNCTION/SERVICE Solenoids for main steam relief valves - LOCATION: BLDG C ELEVATION 543 COLUMN 280⁰	OPERATING TIME	24 hours	24 hours	3	2	Simultaneous Test	None
	TEMPERATURE (F)	135 normal 150 max. abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 max. abnormal 100 accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	None	1			Note 1
	RADIATION (RAD)	2.74×10^7	3.4×10^7	1	2	Sequential Test	None
	AGING	40 years	6 years	1	2, 4	Sequential Test Engineering Analysis	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Orr</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. G.E. PED Engr. Memo No. 126-62, 1/15/75 3. WNP-2 Class 1E Equipment List, 12/16/81 4. QID 315008				Qualified. 1. Component enclosure will be evaluated to determine the effects of demineralized water. 2. The component will be rebuilt on a schedule based on the qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR AVCO SOLENOID VALVES



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02B22

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam System TAG NUMBER MS-TE-4A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, U, V MANUFACTURER PYCO MODEL NUMBER P.O. No. 133D9679P001 COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 501 COLUMN	OPERATING TIME	24 hours	Note 1	2			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water spray		1			
	RADIATION (RAD)	4.4 x 10 ⁷		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <i>Mark Baker</i> Reviewed by: <i>Raymond Chi</i>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, 12/16/81				1. These components are on order. The qualification documentation will be reviewed when it is received.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-FT-3A, B, C, D MANUFACTURER Foxboro MODEL NUMBER E13DL COMPONENT Flow Transmitter FUNCTION/SERVICE Loops A, B, C, and D to manifold LOCATION: BLDG R ELEVATION 477 COLUMN H.4/5.8	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	4.4×10^7		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alan Seiken</u> Reviewed by: <u>Raymond Elia</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471J				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-H-A, B, C, D MANUFACTURER Chemelex MODEL NUMBER COMPONENT Heater FUNCTION/SERVICE Main Steam Leakage Control Heater A, B, C, & D LOCATION: BLDG R ELEVATION 480 COLUMN H.4/5.3	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	4.4 x 10 ⁷		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Paul Baker</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471J				1. These components are on order. The qualification documentation will be revealed when it is received.			



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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-M-1,2 MANUFACTURER Westinghouse MODEL NUMBER TBFC/76D56668 COMPONENT Motor FUNCTION/SERVICE 1.5 hp motor for MSLC-FN-1 ⁺ , 2 ⁺ LOCATION: BLDG R ELEVATION 473.501 COLUMN H.4/6.3 H.6/7.3	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.4×10^7	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/6/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-471J 4. Letter from J.J. Courtin (W), dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures. 5. Letter from J.J. Courtin (W), dated 7/7/81 RE: Elec. Motor Qualification at WPPSS Plant, w/Enclosures. 6. EPRI Report #RP-1707-3.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-MO-1A -1B -1C -1D MANUFACTURER Limitorque MODEL NUMBER MSC-04 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate MSLC Valves LOCATION: BLDG R ELEVATION 471 COLUMN H5/5.5	OPERATING TIME	24 hours	384 hours	1	3	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Steam for 24 hours 100% for 15 days	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.2×10^7	2×10^7	2	3	Sequential Test	None
	AGING	40 years	40 years +	1	3,4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>H.A. S. Williams</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471J 3. Limitorque B0003 with Addendum A, dated 5/8/76 (BWR 054-C-04) 4. Calculations in QID221011 5. Justification in QID 221016				Qualified.			

TEMPERATURE PROFILE

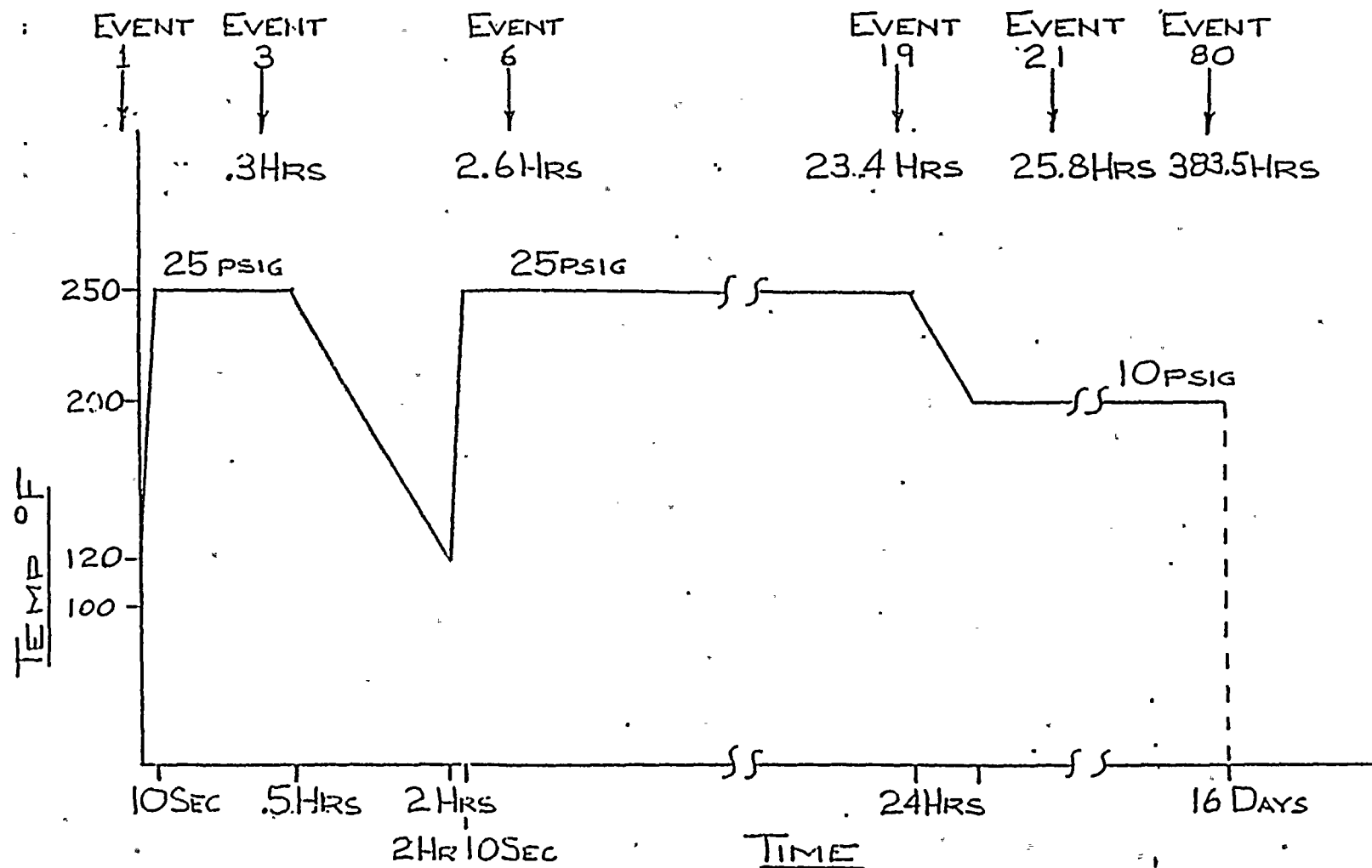


FIGURE 1





EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-MO-See Note 1 MANUFACTURER Limatorque MODEL NUMBER SMB-000 COMPONENT Motor Operator FUNCTION/SERVICE Operate MSLC Valves LOCATION: BLDG R ELEVATION 501 COLUMN H.3/6.2	OPERATING TIME	24 hours	24 hours	1	3	Simultaneous Test	None
	TEMPERATURE (F)	125 normal 140 max. abnormal Accident--profile 1	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 normal Accident--profile 1	See enclosed profile	1	3	N/A	None
	RELATIVE HUMIDITY (%)	50 normal 98 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	4.2×10^6	2×10^8	2	3	Simultaneous Test	None
	AGING	40 years	40 years	1	3,4	Simultaneous Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond D. Orr</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5010 3. Limatorque Report 600376A, 5/13/76 4. E/IC 02-80-04-0				1. -10 -3B Qualified -2A -3C -2B -3D -2C -4 -2D -5 -3A -9			

TEMPERATURE PROFILE

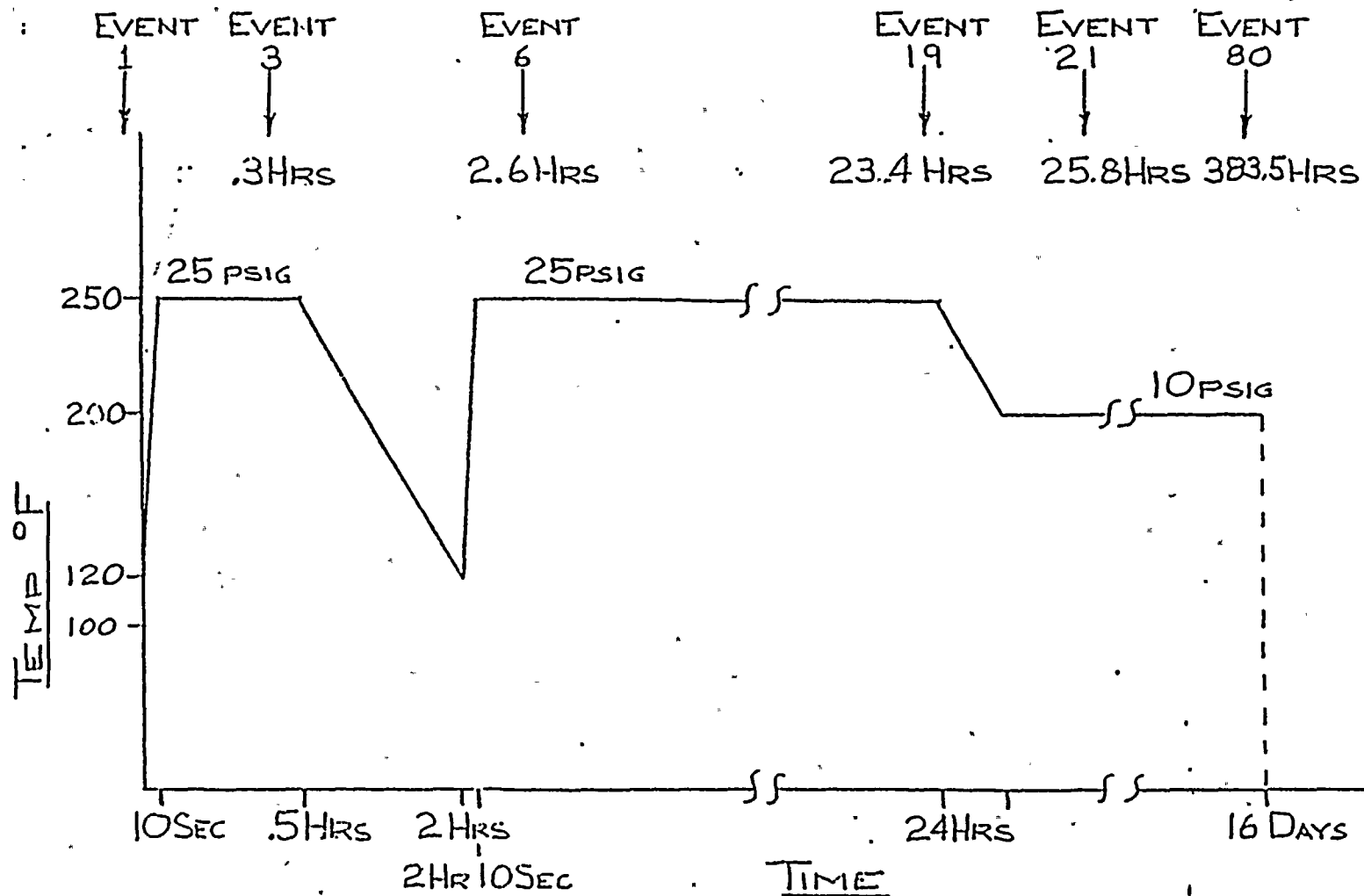


FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-PS-20, 24, 25, 60, 7A, 7B, 7C, 7D, 70A, 70B, 70C, 70D, 8A, B, C, D MANUFACTURER Barton MODEL NUMBER 288A, 288 COMPONENT Pressure Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 575, 528 COLUMN H.4/7.1, H.4/42	OPERATING TIME	6 months	6 months	1	4, 5	Simulation Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.3×10^6	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark B...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-PT-23 MANUFACTURER Rosemount MODEL NUMBER 1151GP9A22 COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 525 COLUMN H4/7.1	OPERATING TIME	6 months	6 months	1	4,5	Engineering Analysis Separate Effects	Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	300	2	4	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	Separate Effects	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	6	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	N/A	None
	RADIATION (RAD)	2.4×10^4	2×10^6	3	5	Separate Effects	None
	AGING	40 years	Note 2	2	N/A	Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522 4. Rosemount Report 97215A dated 2/9/72 5. Rosemount Report 127227 dated 12/27/72 6. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment specification data ensure the component will operate 6 months at the required temperature. 2. A preventive maintenance surveillance program is being developed to address aging of Class 1E equipment.			



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SPEC: 2808-59

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-PT-6A, B, C, D MANUFACTURER Rosemount MODEL NUMBER 1151GP9A22MBGE3 COMPONENT Pressure Transmitter FUNCTION/SERVICE Monitors Main Steam Line Pressure LOCATION: BLDG R ELEVATION 522 COLUMN H4/4.2	OPERATING TIME	6 months	6 months	5	2,6	Separate Effects Engineering Analysis	None Note 1
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	300	1	2	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max accident 100 max accident	100	1	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.2×10^4	2×10^6	4	3	Separate Effects	None
	AGING	40 years	N/A	4	N/A	N/A	None
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chris</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Rosemount Report 97251A dated 2/9/72 3. Rosemount Report 127227 dated 12/27/72 4. EDS Study 0740-004-522P 5. WNP-2 Class 1E Equipment List dated 12/16/81 6. Rosemount Product Data Sheet 2256 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment specification data specs indicate the component will operate 6 months at the required temperatures. 2. A preventive maintenance/surveillance program is being implemented to address aging of Class 1E equipment.			



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EQUIPMENT QUALIFICATION REPORT

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY- (see Note 2) MANUFACTURER ASEA MODEL NUMBER RK223067-ED COMPONENT Relay FUNCTION/SERVICE MSLC Control and Pressure Interlocks LOCATION: BLDG R ELEVATION 522 COLUMN H4/4.2, H4/7.1	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.2 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Baker</u> Reviewed by: <u>Ann Siten</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522P, 522K 3. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			





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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<p>2. <u>TAG NUMBERS</u></p> <ul style="list-style-type: none">-CR/1-CR/1A-CR/1B-CR/1C-CR/1D-CR/12-CR/13-CR/3-CR/5A1-CR/5C1-CR/5D1-CR/6A1-CR/6B1-CR/6C1-CR/6D1-CR/9





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WASHINGTON PUBLIC SUPPLY SYSTEM

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY-CR/10, 11 MANUFACTURER ASEA MODEL NUMBER RXOMH2-069EP COMPONENT Relay FUNCTION/SERVICE MSIV closure interlock, MS-MSLC control interlock LOCATION: BLDG R ELEVATION 522 COLUMN H.4/4.2	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.2 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES Y NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seiken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522P 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY-CR/4 MANUFACTURER ASEA MODEL NUMBER RSMH2-RK223-067EP COMPONENT Relay FUNCTION/SERVICE Control Switch Interlock LOCATION: BLDG R ELEVATION 522 COLUMN H.4/7.1	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	2.4 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Alan Luten</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522K 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY-CR/Note 2 MANUFACTURER ASEA MODEL NUMBER RK225-52-CP COMPONENT Relay FUNCTION/SERVICE MSLC Pressure Interlock LOCATION: BLDG R ELEVATION 522 COLUMN H.4/4.2	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.2×10^4		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mad Baker</u> Reviewed by: <u>Ann Jelen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522P 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data. 2. <u>TAG NUMBERS</u> MSLC-RLY-CR/5A2, 5B1, 5B2, 5C2, 5D2, 6A2, 6B2, 6C2, 6D2			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY-CR/8 MANUFACTURER ASEA MODEL NUMBER RR223067-EP. COMPONENT Relay FUNCTION/SERVICE Control Switch Interlock LOCATION: BLDG R ELEVATION 528 COLUMN H.4/4.2	OPERATING TIME	24 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	5.2×10^4		2			
	AGING	40 years		1			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Alan Seiken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522P 3. WNP-2 Class 1E Equipment List dated 12/16/81.				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-RLY-TK-2A, 2B, 2C, -2D, 3A, 3B, -3C, 3D, 2, -4A, 4B, 4C, -4D, 2 MANUFACTURER Agastat Relay MODEL NUMBER 7012AE COMPONENT Time Delay Relay FUNCTION/SERVICE MS - MSLC Interlock LOCATION: BLDG R ELEVATION 522 COLUMN H4/4.2, H4/7.1	OPERATING TIME	24 hours	100 days	4	2	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal	150	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 max accident	95	1	2	Sequential Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.2×10^4	1×10^7	3	2	Sequential Test	None
	AGING	40 years	Note 2	1 ..	N/A	Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. MCC Powers Report 734-79.002, 9/3/79 3. EDS Study 0740-004-522P, 522K 4. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified 1. The humidity conditions in the reactor building are currently being reevaluated. Qualification will be completed when this study is finished. 2. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Main Steam Leakage Control TAG NUMBER MSLC-TE-10A, B, C, D MANUFACTURER Hy-Cal Engineering MODEL NUMBER TC02370-C-A-250-TT COMPONENT Temperature Element FUNCTION/SERVICE Loop "A", "B", "C", "D" to manifold LOCATION: BLDG R ELEVATION = 474 COLUMN = H.4/5.8	OPERATING TIME	24 hours	Note 1	2			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	4.4×10^7		3			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seiben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, 12/16/81 3. EDS Study 0740-004-471J				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

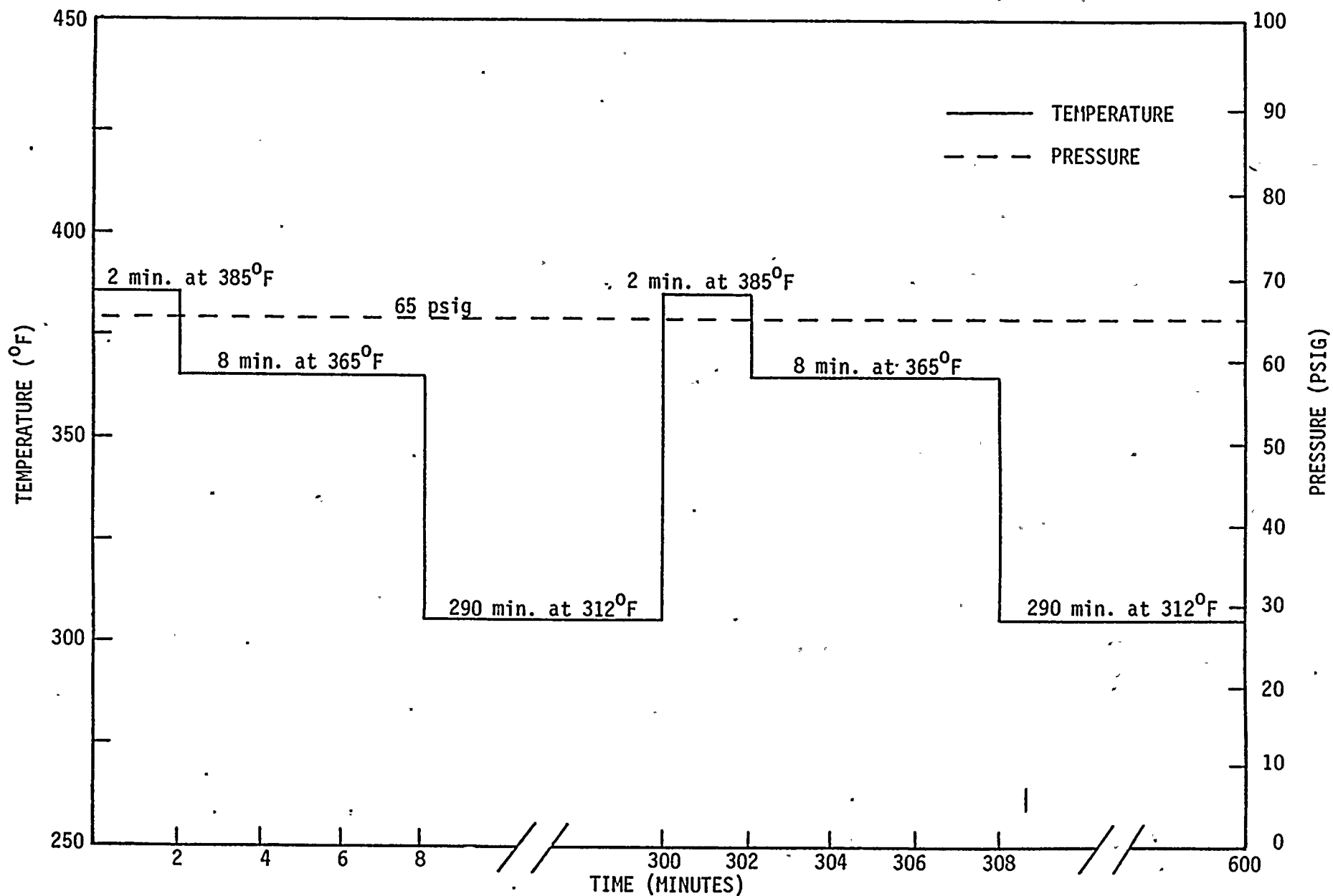
WASHINGTON PUBLIC SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Process Instrumentation TAG NUMBER PI-SV-250, 251, 253, 256, 257, 259 MANUFACTURER Target Rock MODEL NUMBER 1021010-1-8-1-S, 1021010-3-8-1-S COMPONENT Root Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN 250, 251, 253-K/4.3 256, 247, 259-M7/7	OPERATING TIME	4320 hours	Equivalent to >4,320 hours at 150°F.	4	3	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile.	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 29 max. abnormal 100 max. accident	92	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.3 x 10 ⁵	2.27 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	23 years	1	3	Sequential Test Engineering Analysis	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seilen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report 0740-004-522B, 522H 3. TRC Report 2375A, QID 324002 4. WNP-2 Class 1E Equipment List, 12/16/81				1. The accident humidity conditions in the reactor building are currently being reevaluated. Qualification will be completed based on this study. 2. The component will be rebuilt on a schedule based on the calculated qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR TARGET ROCK SOLENOID VALVES



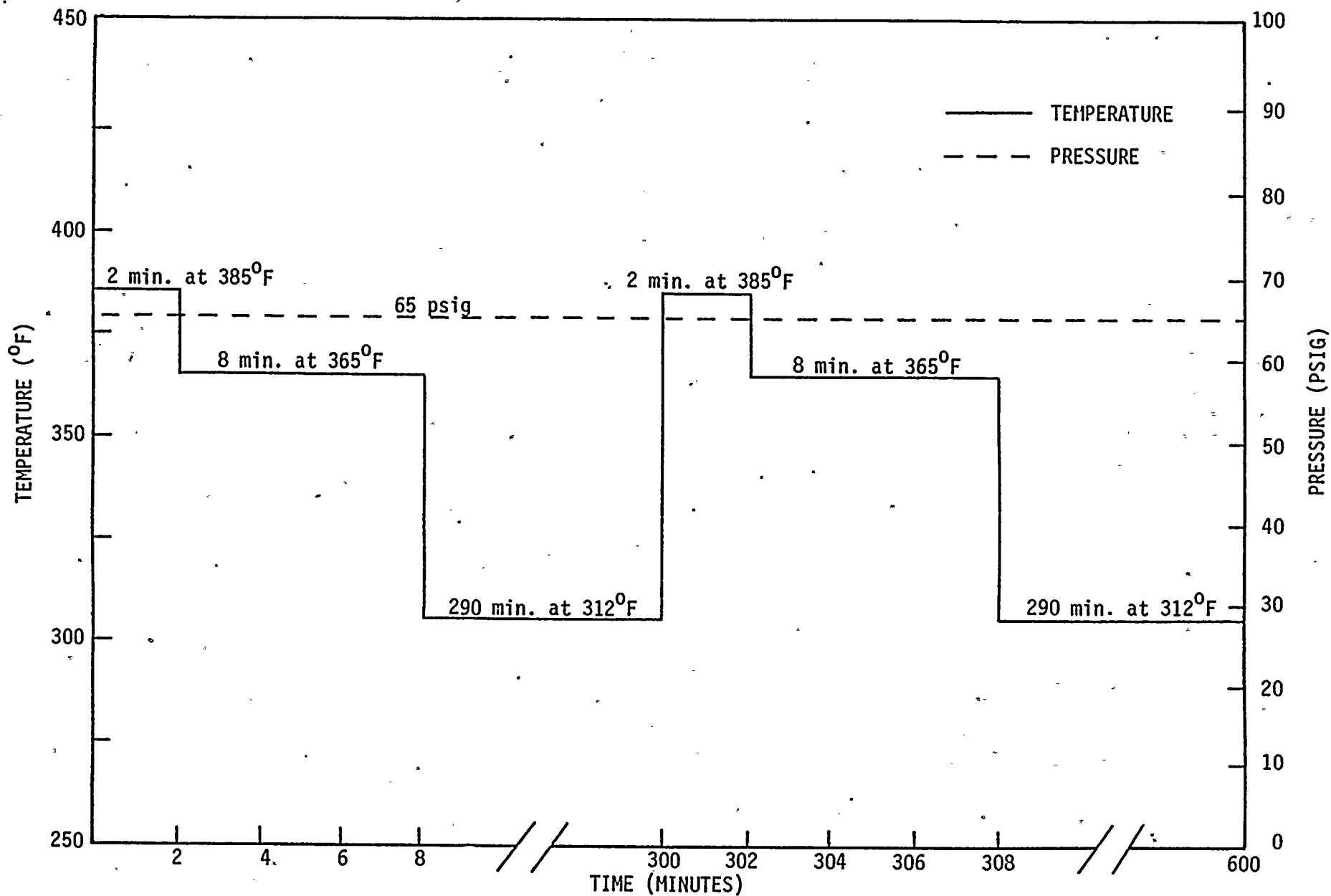
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-220

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Process Instrumentation TAG NUMBER PI-SV-262, 263, 264, 266, 267, 268 MANUFACTURER Target Rock MODEL NUMBER 1021010-3-8-1-S COMPONENT Root Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN N/5	OPERATING TIME	4320 hours	Equivalent to >4,320 hours at 150°F.	4	3	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	93%	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	9.9 x 10 ³	2.27 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	23 years	1	3	Sequential Test Engineering Analysis	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Moh Bish</u> Reviewed by: <u>Ann Sehen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report #0740-004-548C 3. TRC Report 2375A, QID 324002 4. WNP-2 Class 1E Equipment List, 12/16/81				1. The accident humidity conditions in the reactor building are currently being reevaluated. Qualification will be completed based on this study. 2. The component will be rebuilt on a schedule based on the calculated qualified aging life and recommendations from the manufacturer.			



ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR TARGET ROCK SOLENOID VALVES



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC SUPPLY SYSTEM

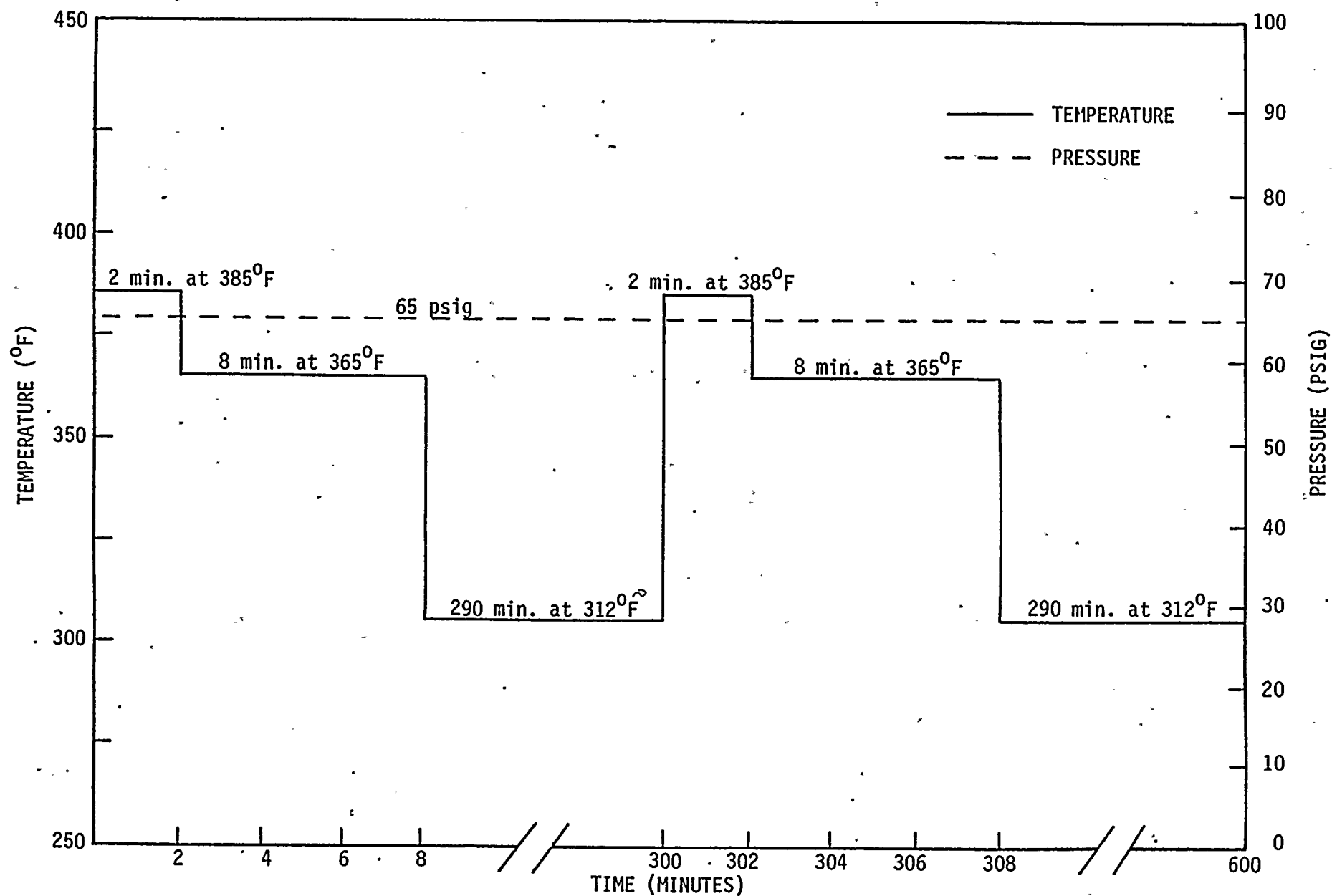
EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Process Instrumentation TAG NUMBER PI-SV-265, 269 MANUFACTURER Target Rock MODEL NUMBER 1021010-3-8-1-S COMPONENT Root Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 579 COLUMN See Note 2	OPERATING TIME	4320 hours	Equivalent to >4,320 hours at 150°F.	4	3	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 PSIA	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	93	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	2.0 x 10 ⁶	2.27 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	23 years	1	3	Sequential Test Engineering Analysis	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Paul Zuk</u> Reviewed by: <u>Ann Sehen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report 0740-004-572N 3. TRC Report 2375A, QID 324002 4. WNP-2 Class 1E Equipment List, dated 12/16/81				1. The accident humidity conditions in the reactor building are currently being reevaluated. Qualification will be completed based on this study. 2. PI-VX-265 is at Containment Penetration AZ 230° PI-VX-269 is at Containment Penetration AZ 40° 3. The component will be rebuilt on a schedule based on the calculated qualified aging life and recommendations from the manufacturer.			





ENVIRONMENTAL QUALIFICATION TEST PROFILE FOR TARGET ROCK SOLENOID VALVES



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Closed Cooling Water TAG NUMBER RCC-WO-104 MANUFACTURER MODEL NUMBER COMPONENT Motor Operator FUNCTION/SERVICE Motor Operator for RCC-V-104 LOCATION: BLDG R ELEVATION 514 COLUMN K.0/4.3	OPERATING TIME	.017 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.1 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-				1. These components are on order. The qualification documentation will be reviewed when it is received.			





OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Closed Cooling Water TAG NUMBER RCC-MO-5 MANUFACTURER Limatorque MODEL NUMBER SMB-0-15/M56 COMPONENT Motor Operator FUNCTION/SERVICE 1HP 2.8A Motor Operator RCC-V-5 LOCATION: BLDG R ELEVATION 515 COLUMN K8/4.1	OPERATING TIME	.017 hours	Equivalent to .017 hours at 150°F.	1	4	Engineering Analysis Sequential Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	2.6 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. L. Adrian</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-501 4. Limatorque Test Report B0003, 5/8/76 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

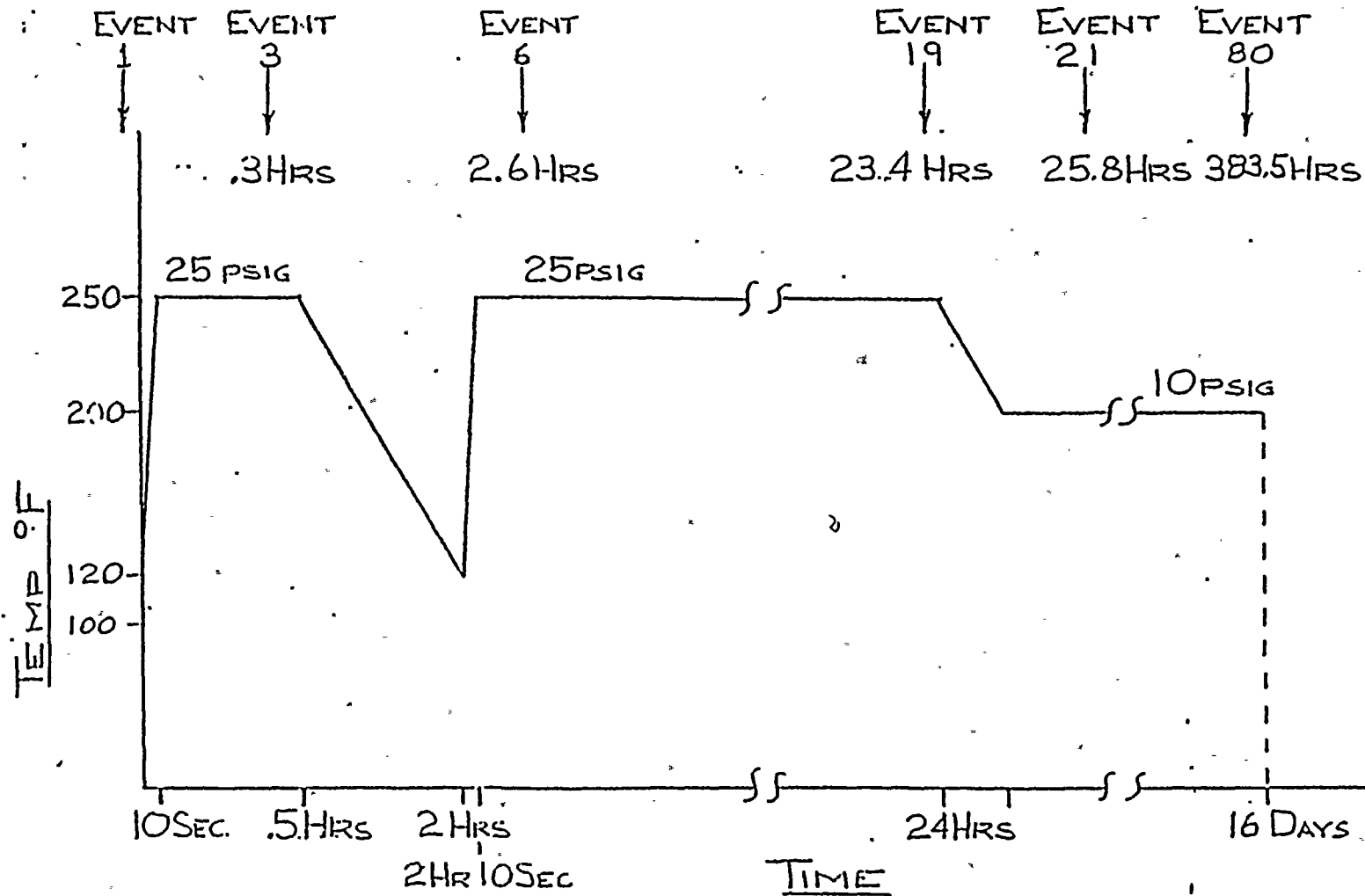


FIGURE 1



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Closed Cooling Water TAG NUMBER RCC-MO-21 MANUFACTURER Limatorque MODEL NUMBER SMB-0-15/H56 COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE 1 HP 2.8A Motor Operator RCC-V-21 LOCATION: BLDG R ELEVATION 515 COLUMN K.7/4.1	OPERATING TIME	.017 hours	Equivalent to .017 hours at 150 F.	1	4	Sequential Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	2.6×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-5015 4. Limatorque Test Report B0003, 5/8/76 5. QID 221011				Qualified.			



TEMPERATURE PROFILE

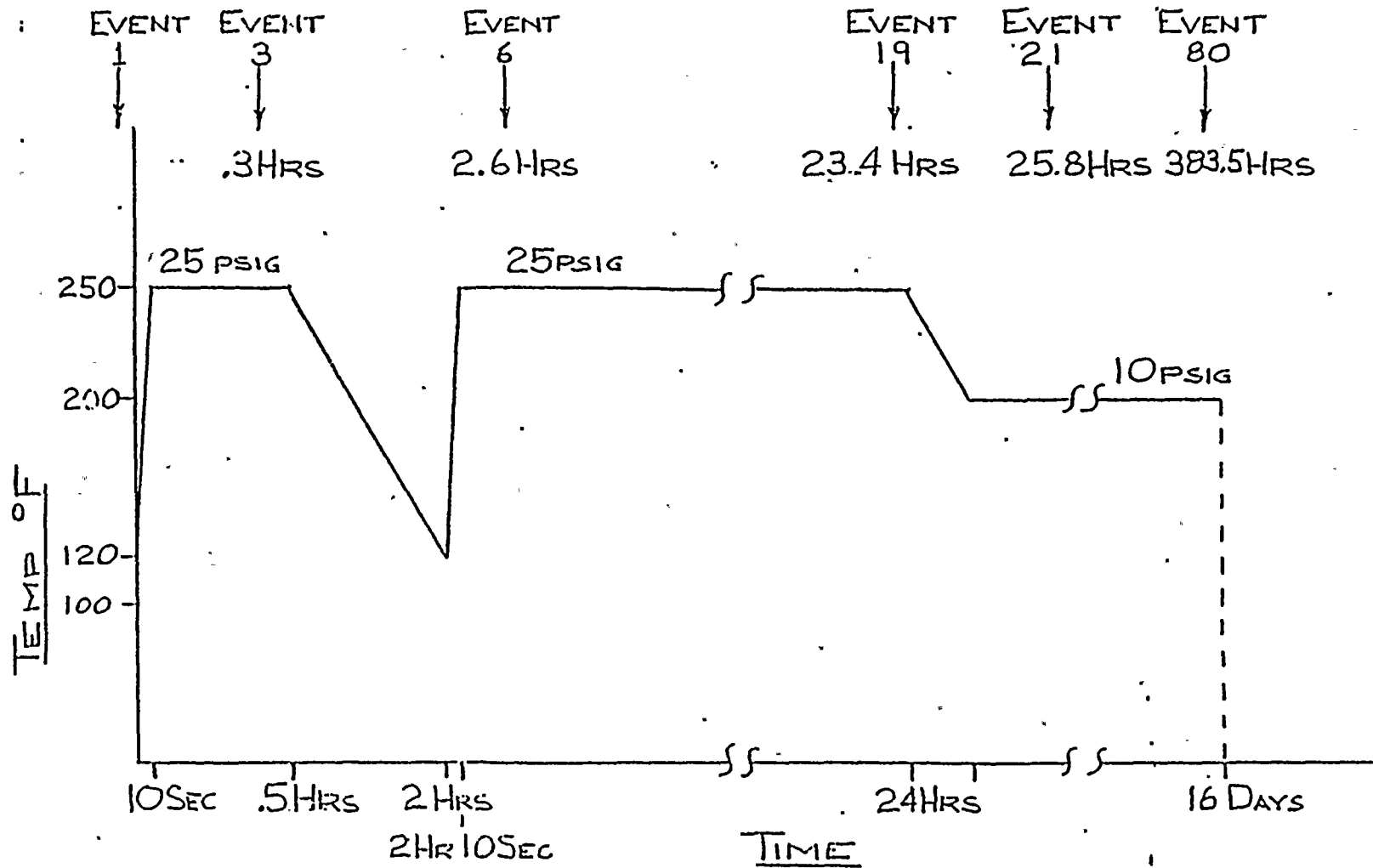


FIGURE 1

LIMITORQUE REPORT B0003



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC UTILITY WATER SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Closed Cooling Water TAG NUMBER RCC-MO-40 MANUFACTURER Limatorque MODEL NUMBER SMB-0-15/H56 COMPONENT Motor Operator Motor Reliance, Class B Insulation FUNCTION/SERVICE 0.7 HP 2.3A Motor Operator RCC-V-40 LOCATION: BLDG C ELEVATION 517 COLUMN 78° AZ	OPERATING TIME	.017 hours	16 days	1	3	Simultaneous Test	Note 1
	TEMPERATURE (F)	135 normal 150 abnormal Accident--profile 1	See enclosed profile	2	3	Simultaneous Test	Note 1
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident--profile 1	See enclosed profile	2	3	Simultaneous Test	Note 1
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident	100	2	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	Demineralized Water	None	2			Note 1
	RADIATION (RAD)	4.4×10^7	2×10^7	2	3	Sequential Test	Note 1
	AGING	40 years	40 years	2	3,4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. S. Aronson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. Limatorque Test Report B0003 4. QID 221011				1. The method of requalification is currently being investigated.			

TEMPERATURE PROFILE

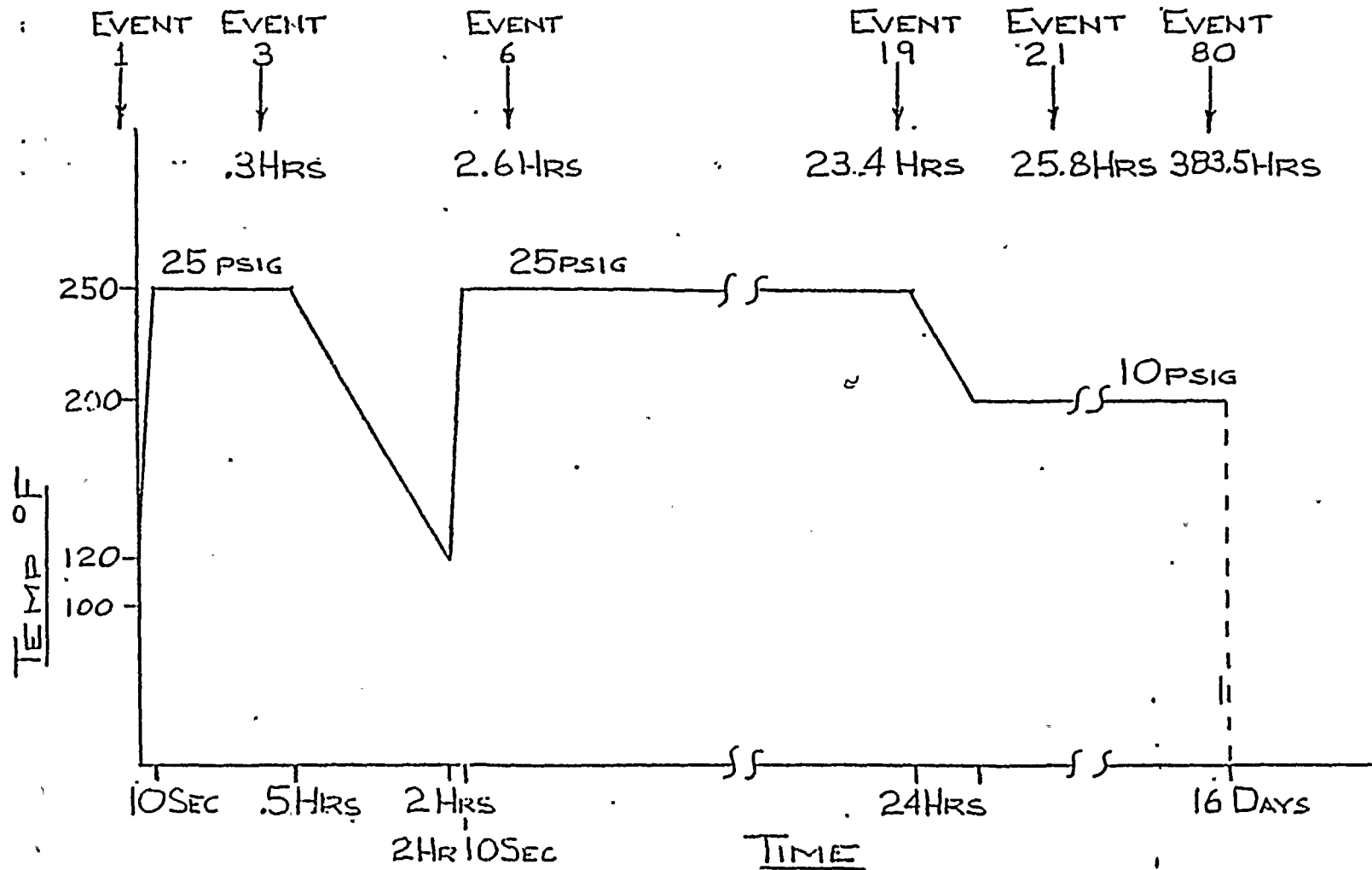


FIGURE 1

LIMITORQUE REPORT 80003





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Closed Cooling Water TAG NUMBER RCC-MO-129 -130 -131 MANUFACTURER Limatorque MODEL NUMBER SMB COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RCC Valves LOCATION: BLDG R ELEVATION 548 COLUMN Note 1	OPERATING TIME	0.017 hours	Equivalent to 35,700 @ 150°F	1	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.5×10^5	2×10^7	2	3	Sequential Test	None
	AGING	40 years	40 years +	1	3, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Royce Ch...</u> Reviewed by: <u>M. P. ...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548L 3. Limatorque Report B0003 with Addendum A dated 5/8/76 in BHR-054-C-04 4. Calculations in QID 221011(2) 5. Calculations in QID 221011(1)				1. Located in Zone 548L from zone maps of EDS Study 0740-004.			



TEMPERATURE PROFILE

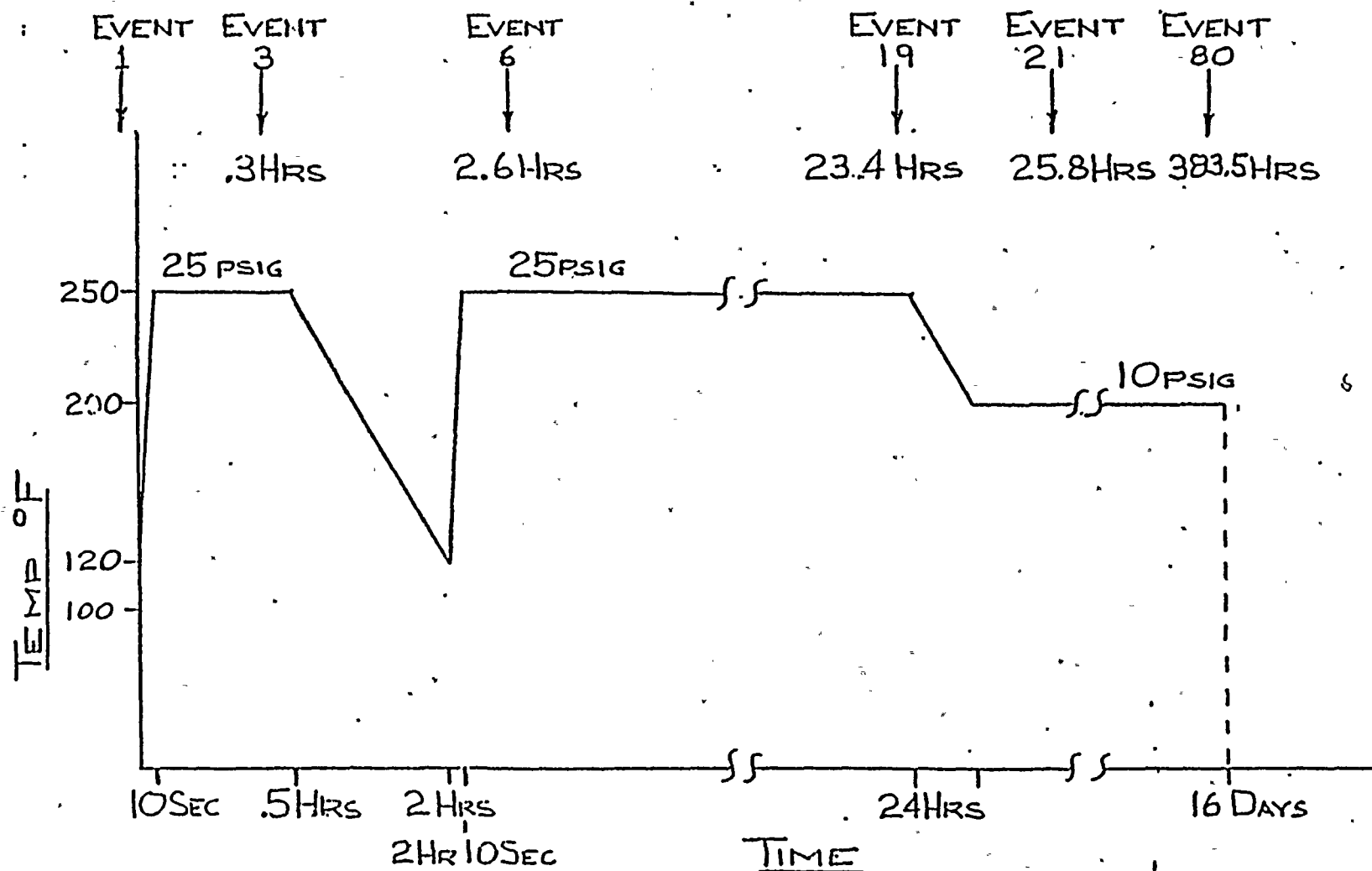


FIGURE 1





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-69

MPL:
PPD:

PAGE NO:
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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-LMS-65 MANUFACTURER NAMCO MODEL NUMBER SAI133 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for RCIC-V-65 LOCATION: BLDG R ELEVATION 568 COLUMN H.6/5.4	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.6×10^6		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Baker</u> Reviewed by: <u>Raymond Chai</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548H				1. These components are on order. The qualification documentation will be reviewed when it is received.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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MPL:
PPD:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-LMS-66 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE Limit Switch RCIC-V-66 LOCATION: BLDG C ELEVATION 606 COLUMN 150 ⁰ AZ	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water		1			
	RADIATION (RAD)	4.4 x 10 ⁷		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Balise</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, 12/16/81				1. These components are on order. The qualification documentation will be reviewed when it is received.			



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

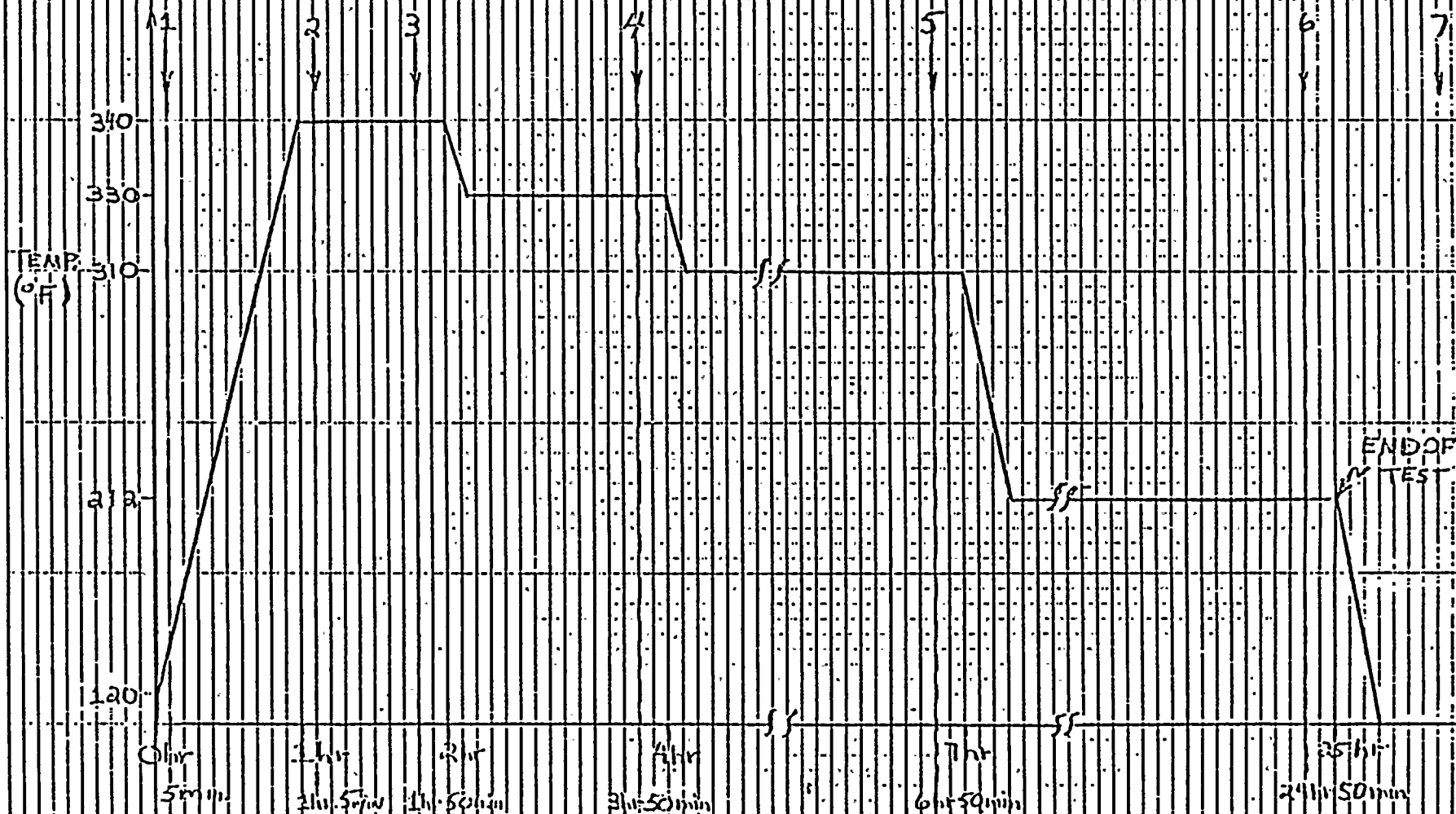
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REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-13 RCIC-MO-64 MANUFACTURER Limitorque MODEL NUMBER SMB-0, SMB-00 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RCIC valves LOCATION: BLDG R ELEVATION 548,501 COLUMN M6/S.5, L9/4.6, J/5	OPERATING TIME	24 hours	25 hours	5	3	Simultaneous Test	None
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 284 for 30 sec & then 150 maximum accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 maximum abnormal 100 maximum accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.4×10^6	1×10^7	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3, 4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ph</u> Reviewed by: <u>W. F. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5488 3. Limitorque Report 80009, 4/30/76 4. Application calculations in QID 221011 5. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			

FIGURE 1 TEMPERATURE PROFILE - ENVIRONMENTAL TEST

3 - EVENT #



END OF TEST

FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-31 MANUFACTURER Limatorque MODEL NUMBER SMB-00-15/R56 COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE Operates suppression pool suction valve LOCATION: BLDG R ELEVATION 450 COLUMN H.8/7.0	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	4.0×10^6	2.0×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. J. P. P.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-4411 4. Limatorque Test Report B0003 5. QID 221011				Qualified.			



TEMPERATURE PROFILE

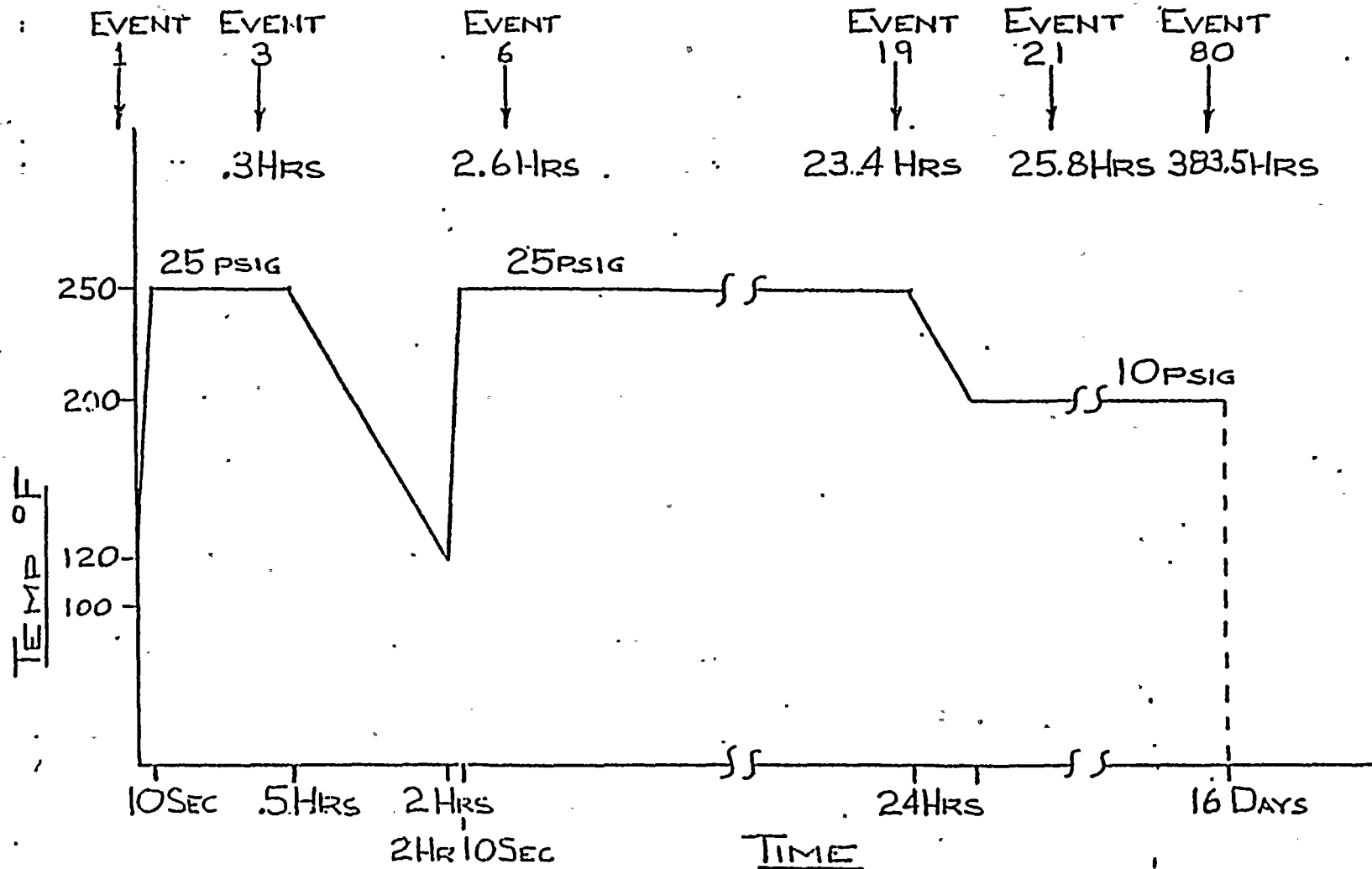


FIGURE 1



EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-59. MANUFACTURER Limitorque MODEL NUMBER SMB-0-40/0202G COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE Operates CST Test Return Valve LOCATION: BLDG R ELEVATION 446 COLUMN H.7/8.0	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	4.0 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>A. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-4411 4. Limitorque Test Report B0003 5. QID 221011				Qualified			



TEMPERATURE PROFILE

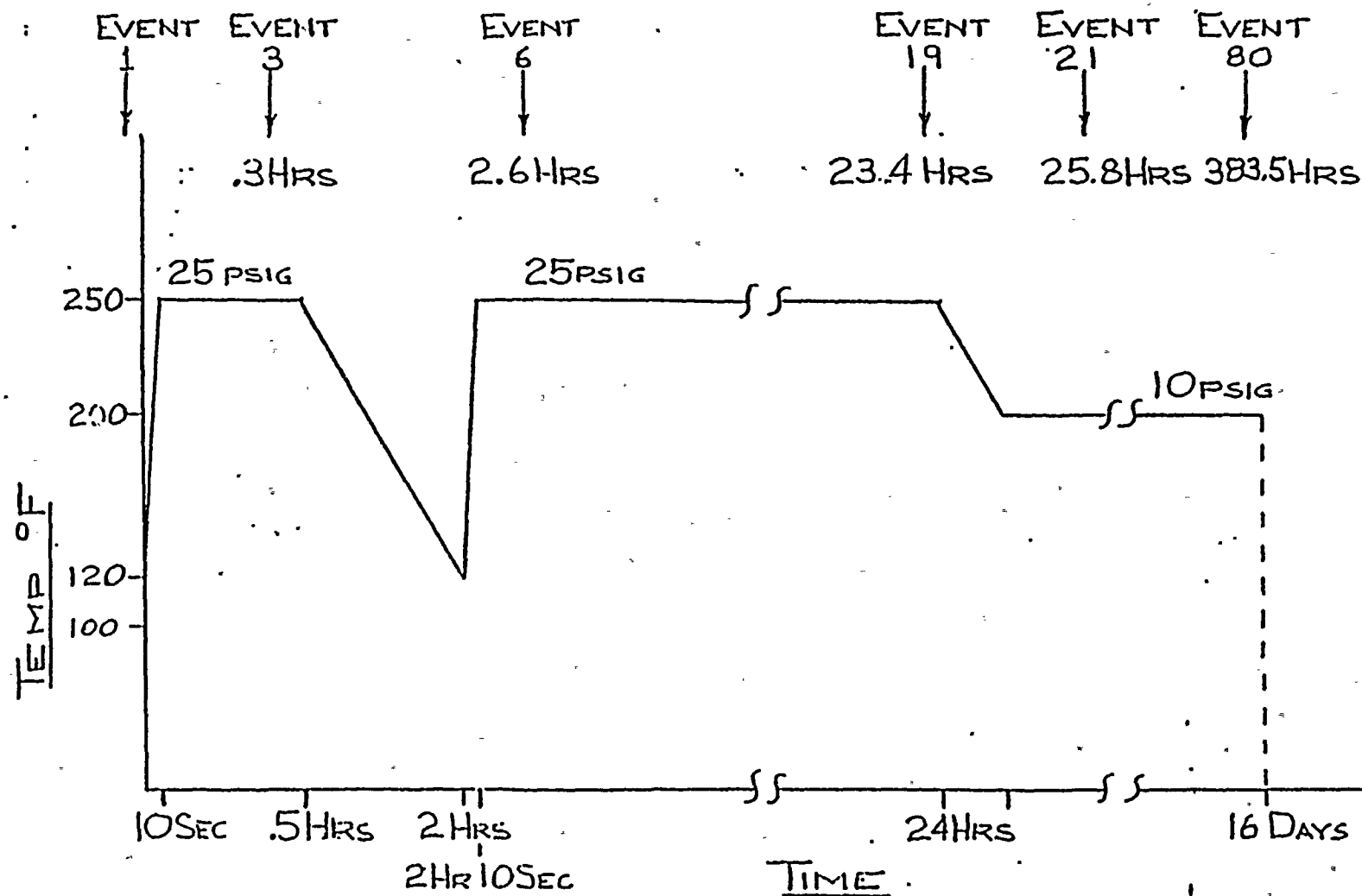


FIGURE 1

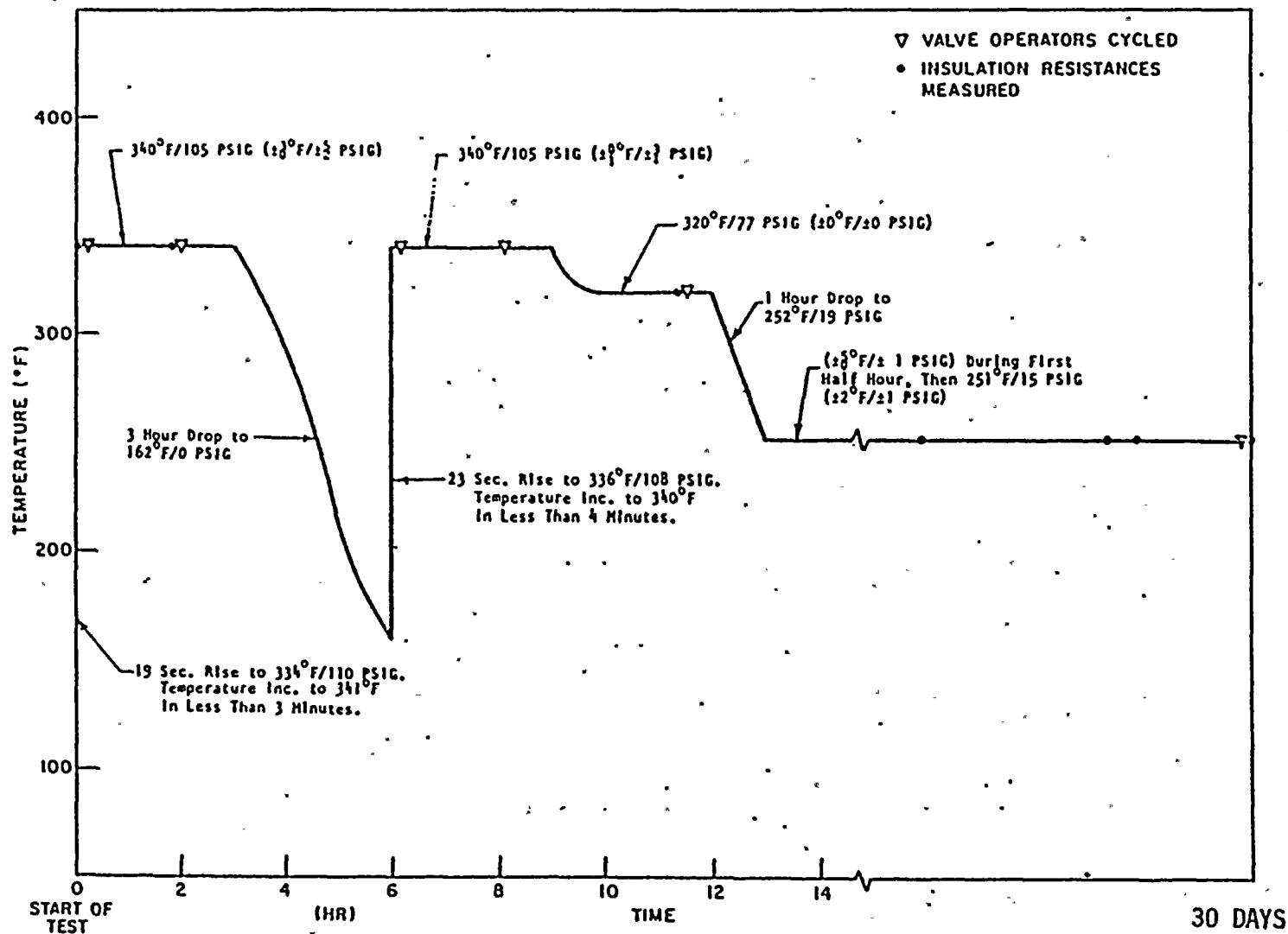
LIMITORQUE REPORT B0003



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-63 MANUFACTURER Limitorque MODEL NUMBER SMB-2-60/D215R2 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates RCIC Steam Supply LOCATION: BLDG C ELEVATION 556' COLUMN 131 Deg.	OPERATING TIME	24 hours	30 days	4	3	Simultaneous Test	None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal Accident - see profile 1	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 max. normal 16.7 max. normal Accident - see profile 1	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	Chemical Spray pH 10	1	3, 5	Simultaneous Test	None
	RADIATION (RAD)	4.4×10^7	2.04×10^8	1	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chis</u> Reviewed by: <u>S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600376A 4. WNP-2 Class 1E Equipment List 12/16/81				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM - Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-68 MANUFACTURER Limitorque MODEL NUMBER SMB-015/DTS6F COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE Operator Turbine Exhaust Isolation Valve LOCATION: BLDG R ELEVATION 474 COLUMN J.1/7.5	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None.
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	4.8×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ok</u> Reviewed by: <u>W. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-4711 4. Limitorque Test Report 80003 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

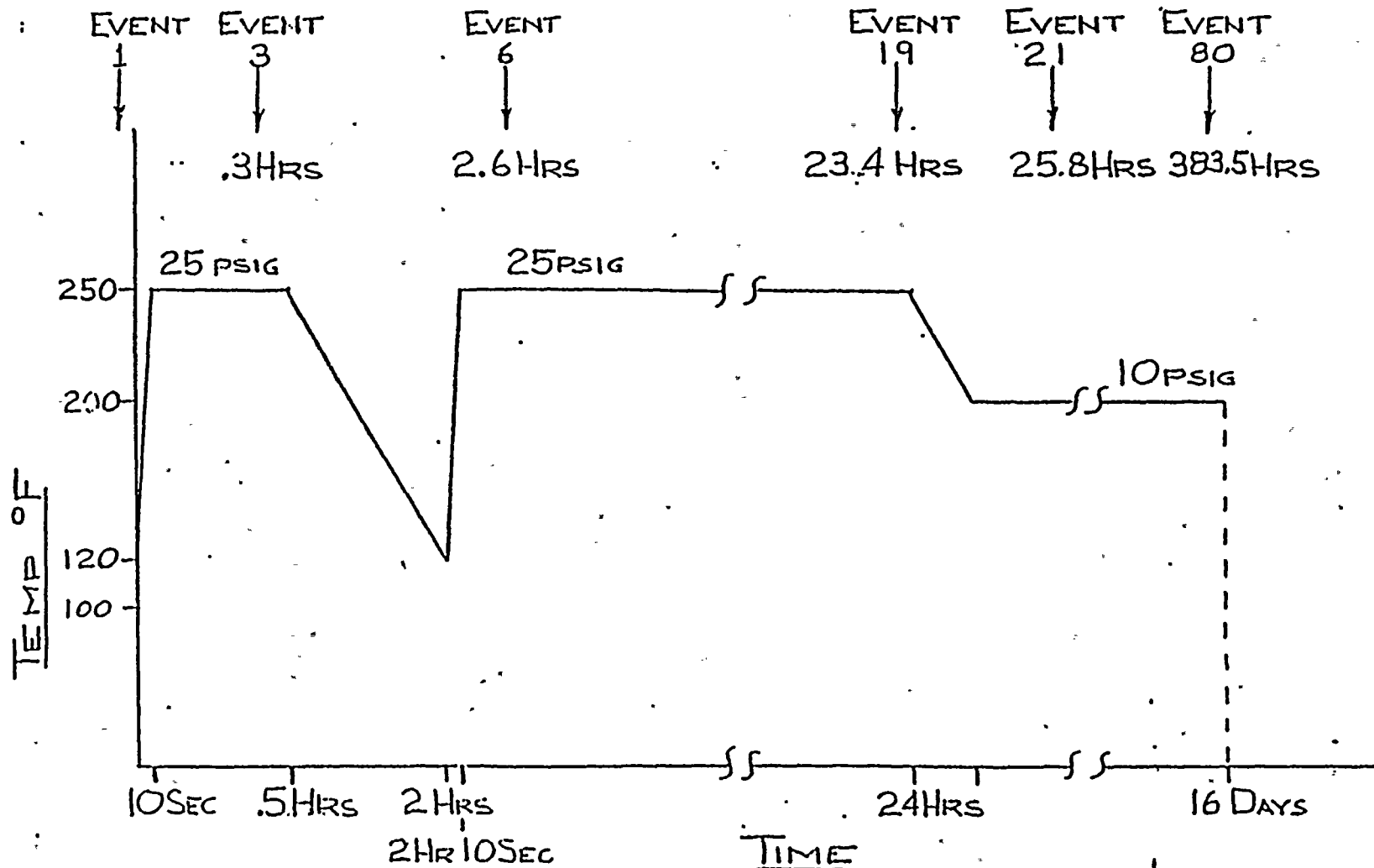


FIGURE 1

EQUIPMENT QUALIFICATION REPORT

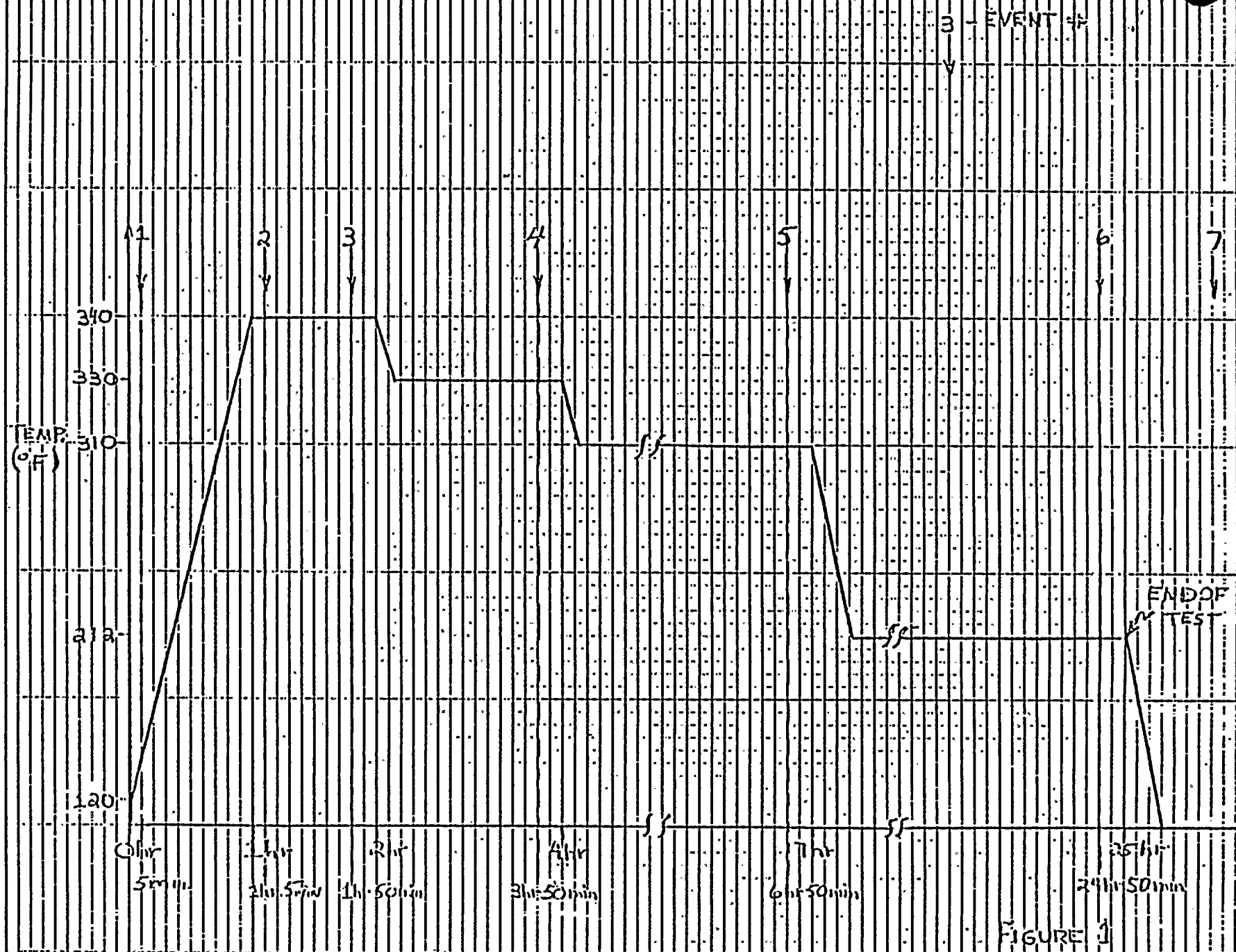
OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808

MPL:
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PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-69 MANUFACTURER Limitorque MODEL NUMBER SMB-000-5 COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 466 COLUMN H6/6.6	OPERATING TIME	6 months	Equivalent to 52,284 hours at 150°F.	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	See enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4 x 10 ⁶	1 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>Alan Seiken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-4911 4. Limitorque Report B0009, 4/30/76 5. QID 221011				Qualified.			

FIGURE 1
TEMPERATURE PROFILE - ENVIRONMENTAL TEST



NEUPPE & LSAK CO.
PAIN, N.J.

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101

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-76 MANUFACTURER Limitorque MODEL NUMBER SMB-000-5 COMPONENT Motor Operator .33 HP MO for RCIC-V-76 FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 556 COLUMN 120 AZ	OPERATING TIME	24 hours	Note 1	2			
	TEMPERATURE (F)	135 normal 150 abnormal accident--profile 1		1			
	PRESSURE (PSIA)	16.7 normal accident--profile 1		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water		1			
	RADIATION (RAD)	4.4×10^7		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Ronald Chi</u> Reviewed by: <u>Steve Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP- 2 Class 13 Equipment List, 12/16/81				1. Man and model on Class 1E List but no evaluation. The qualification status of these components has not yet been determined. Requalification activities will be implemented, if required.			

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-8 MANUFACTURER Limitorque MODEL NUMBER SMB-0 COMPONENT Valve motor operator FUNCTION/SERVICE Operate RCIC Valves LOCATION: BLDG R ELEVATION 515 COLUMN J/15	OPERATING TIME	24 hours	25 hours	1	3	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal Accident: See profile 13	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7 normal Accident--profile 13	See enclosed profile	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal Accident: See profile 13	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	11×10^6	1×10^7	2	3	Sequential Test	None
	AGING	40 years	40 years	1	3, 4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Rajmoh Chh</u> Reviewed by: <u>Alan Sichen</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-501P 3. Limitorque Report B0009, 4/30/76 4. QID 221011				Qualified.			

FIGURE 1 TEMPERATURE PROFILE - ENVIRONMENTAL TEST



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FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT QUALIFICATION REPORT

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-MO-80, 86 MANUFACTURER Limatorque MODEL NUMBER SMB-00-7-5 COMPONENT Motor Operator FUNCTION/SERVICE Operators for Valves RCIC-V-110 and 113 LOCATION: BLDG R ELEVATION 474 COLUMN J.3/7.2	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	See enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	4.8×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4,5	Sequential Test Engineering Analysis	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laymond Chi</u> Reviewed by: <u>W. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-4711 4. Limatorque Test Report B0003 5. QID 221011				Qualified			

TEMPERATURE PROFILE

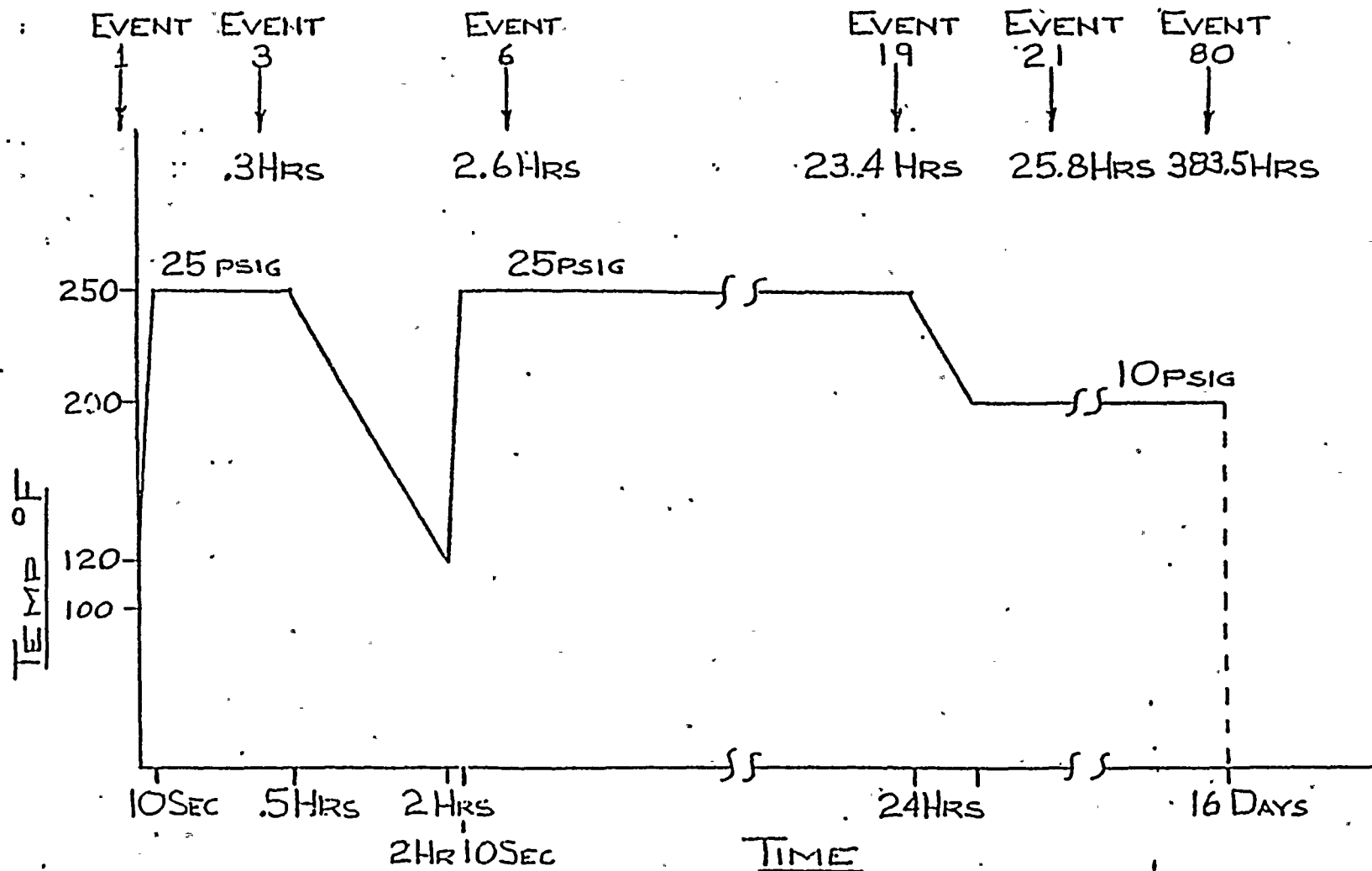


FIGURE 1

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling TAG NUMBER RCIC-SPV-65 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Reactor Head Spray LOCATION: BLDG R ELEVATION 556 COLUMN M3/5.8	OPERATING TIME	24 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.6 x 10 ³	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. S. Robison</u> Reviewed by: <u>W. E. Farnore 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548G 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			

OW: WPPSS
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SPEC:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Core Isolation Cooling System TAG NUMBER RCIC-SPV-66 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE RCIC to Reactor Isolation Valve LOCATION: BLDG R ELEVATION 528 COLUMN J0/6.9	OPERATING TIME	24 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.4×10^4	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>W. S. Robinson</u> Reviewed by: <u>W. E. Farnsworth 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522K 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-68

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Exhaust Air TAG NUMBER REA-LMS-1, 2 MANUFACTURER Namco MODEL NUMBER 74080100 COMPONENT Limit Switches FUNCTION/SERVICE Limit Switch on REA-V-1 LOCATION: BLDG R ELEVATION 593 COLUMN H.5/6.0	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	340	2	4,5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	1.9×10^8	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Alex Seiden</u> Reviewed by: <u>M. F. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572H 4. Qualification of NAMCO Controls Limit Switch Model EA-740 to IEEE Std. 344 (1975), 323 (1974) and 382 (1972), Rev. 1, dated 2/22/79; Rev. 0, dtd. 2/20/78 5. EDS Problem File #0740-004-AAD20, NAMCO LS				Qualified.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-92B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Exhaust Air TAG NUMBER REA-RE-19 MANUFACTURER MODEL NUMBER COMPONENT Radiation Detection FUNCTION/SERVICE Detector for elevated discharge beta radiation LOCATION: BLDG R ELEVATION 572 COLUMN	OPERATING TIME		Note 1				None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	N/R	1			None
	PRESSURE (PSIA)	14.7	N/R	1			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	1			None
	CHEMICAL SPRAY	N/A	N/R	1			None
	RADIATION (RAD)	4.4 x 10 ³	N/R				None
	AGING	40 years	Note 2	1			None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Al Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11				1. This component is only required for operation under normal environmental conditions and is, therefore, considered a mild environment component. Specific Qualification of components in mild environments is not required at this time. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-59

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Exhaust Air TAG NUMBER REA-RLY-CR1 MANUFACTURER ASEA MODEL NUMBER RK225052-CP COMPONENT Relay FUNCTION/SERVICE Control relay for isolation valves LOCATION: BLDG R ELEVATION 527 COLUMN J/6.9	OPERATING TIME	4,320 hours	Note 1	3			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. normal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	2.4 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Siken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522K 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			

WPPSS

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-59

WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Exhaust Air TAG NUMBER REA-RLY-CR2 MANUFACTURER ASEA MODEL NUMBER RK225-052-CP COMPONENT Relay FUNCTION/SERVICE Control relay for isolation valves LOCATION: BLDG R ELEVATION 554 COLUMN H7/8.2	OPERATING TIME	4,320 hours	Note 1	3	N/A		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	8.5 x 10 ⁴		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Chris Seiden</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 2.11 2. EDS Study 0740-004-48P 3. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Environmental qualification test data is currently being obtained. The component qualification will be evaluated upon receipt of this data.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-58

WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Exhaust Air TAG NUMBER REA-SPV-1 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Reactor Building Normal Exhaust Isolation LOCATION: BLDG R ELEVATION 530 COLUMN J/6.9	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.4×10^4	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared By: <i>L. Robinson</i> Reviewed By: <i>W.E. Farrow 1-11-82</i>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522K 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Exhaust Air TAG NUMBER REA-SPV-2 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Reactor Building Normal Exhaust Isolation LOCATION: BLDG R ELEVATION 552 COLUMN H7/8.6	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. normal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.5×10^4	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4,	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared By: <u>W. E. Farnsworth</u> Reviewed By: <u>W. E. Farnsworth 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548P 3. Calculation in QID 315004 4. E/I-02-91-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Feedwater TAG NUMBER RFW-MO-65A RFW-MO-65B MANUFACTURER Limatorque MODEL NUMBER SMB-4-250/326UR4 COMPONENT Motor Operator FUNCTION/SERVICE Motor Operator for RFW-V-65A RFW-V-65B LOCATION: BLDG R ELEVATION 505 COLUMN H.4/5.7 H.4/6.3	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.2 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Chin</u> Reviewed by: <u>11. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-5010				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Feedwater TAG NUMBER RFW-SPV-32A1 -32A2 -32B1 -32B2 MANUFACTURER Automatic Switch MODEL NUMBER WJHT831654 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE RFW-V-32A -32B LOCATION: BLDG R ELEVATION 475 COLUMN H4/6.8	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.7×10^5	4.4×10^6	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. J. Robinson</u> Reviewed by: <u>W.E. Farnum 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471J 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final Qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-CE-1A RHR-CE-1B MANUFACTURER MODEL NUMBER COMPONENT Conductivity Element FUNCTION/SERVICE LOCATION: BLDG ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)						None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-DPIS-12A RHR-DPIS-12B RHR-DPIS-29A RHR-DPIS-29B MANUFACTURER Barton MODEL NUMBER 288 COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE Measure Differential Pressure for Suction Flow LOCATION: BLDG R ELEVATION 501 COLUMN J.6/3.6 H.8/9.3 H.8/7.3	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.6 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501B and 501K				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-DPIS-9A, B, C MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Differential Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN H8/6.2	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.7×10^6	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-5220 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Swithc, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-FIS-10A, B, C MANUFACTURER ITT Barton MODEL NUMBER 289 COMPONENT Flow Indicating Switch FUNCTION/SERVICE Shutdown Cooling Loop "A", "B" flow; Loop "C" flow to vessel LOCATION: BLDG R ELEVATION 501 COLUMN J.7/3.6 M.5/7.9	OPERATING TIME	6 months	Equivalent to >6 months at 150°F.	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	150	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.3 x 10 ⁶	3 x 10 ⁶	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Paul Baker</u> Reviewed by: <u>Raymond Chin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment 2. FSAR Par. 3.11 3. EDS Study 0740-004-501B,I 4. EDS Calculation File 0740-004-002 5. Qualification Test Report for Barton 289 Switch, Report 027A-01, 10/9/80				Qualified 1 A preventive maintenance/surveillance program is being developed to address aging of Class 1' equipment.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-FT-13 MANUFACTURER G.E. MODEL NUMBER 1118MAAAHLF COMPONENT Flow Transmitter FUNCTION/SERVICE Flow Transmitter to Reactor HD Spray LOCATION: BLDG R ELEVATION 553 COLUMN M.7/5.4	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	1.6 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Chi</u> Reviewed by: <u>M. J. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-5486				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-FT-15A MANUFACTURER Rosemount MODEL NUMBER 1151BF5E22PB COMPONENT Flow Transmitter FUNCTION/SERVICE Flow Transmitter to Cooling Loop A LOCATION: BLDG R ELEVATION 501 COLUMN J6/3.6	OPERATING TIME	6 months	6 months	1	4,5	Separate Effects Engineering Analysis	None Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	300 max	2	5	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	N/A	None
	RADIATION (RAD)	4.6×10^5	2×10^6	3	6	Separate Effects	None
	AGING	40 years	Note 2	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laymond Elhi</u> Reviewed by: <u>Ann Seiden</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-501B 4. Rosemount Product Data Sheet 2256 5. Rosemount Report 97215A dated 2/9/72 6. Rosemount Report 127227 dated 12/27/72 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and equipment specification data ensure the component will operate 6 months at the required temperatures. 2. A preventive maintenance surveillance program is being developed to address aging of Class 1E equipment.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-FT-15B, 15C MANUFACTURER Bailey MODEL NUMBER 555111BMAA4WBM COMPONENT Flow Transmitter FUNCTION/SERVICE Flow Transmitter for cooling loops B, C LOCATION: BLDG R ELEVATION 501 COLUMN H.8/9.3	OPERATING TIME	6 months	Note 1	1	N/A	N/A	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	Note 1	2	N/A	N/A	None
	PRESSURE (PSIA)	14.7	Note 1	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	Note 1	2	N/A	N/A	None
	CHEMICAL SPRAY	N/A	Note 1	2	N/A	N/A	None
	RADIATION (RAD)	7.8 x 10 ⁴	Note 1	3	N/A	N/A	None
	AGING	40 years	Note 1	2	N/A	N/A	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ragmond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-501K				1. These components are being replaced by transmitters qualified to IEEE 323-74 and IEEE 344-75.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER See Notes Below MANUFACTURER Namco MODEL NUMBER 1703100 COMPONENT Limit Switch FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 512, 563 COLUMN 20, 58, 79, 100, 158 165, 265, 325, 360 degrees	OPERATING TIME	6 months	Note 1	1	3		
	TEMPERATURE (F)	135 normal 150 abnormal Accident - profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident - profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	3.48×10^7		2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO	Prepared by: <u>Raymond Chis</u> Reviewed by: <u>M. L. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 2. FSAR Paragraph 3.11 3. WPPSS Letter GE-02-JLS-81-04				1. These limit switches are being replaced by Namco Limit Switch EA-180, which is qualified to IEEE-323-74 and IEEE-344-75. (Ref. 3) TAG NUMBERS RHR-LMS-111A RHR-LMS-113 RHR-LMS-50B RHR-LMS-111B RHR-LMS-41A RHR-LMS-111C RHR-LMS-41B RHR-LMS-112A RHR-LMS-41C RHR-LMS-112B RHR-LMS-50A			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-LMS-89 MANUFACTURER NAMCO MODEL NUMBER 1703100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for RHR-V-89 LOCATION: BLDG R ELEVATION 553 COLUMN N.2/8.9	OPERATING TIME	6 months	6 months	2	4,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	200	1	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	2.5×10^6	3	5	Engineering Analysis	Note 2
	AGING	40 years	Note 1	1		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann J. Iken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List dated 12/16/81 3. EDS Report 0740-004-548J 4. ACME-Cleveland Report, "Qualification of Namco Control Limit Switch Model EA-170", dated 3/17/78 5. QID No. 200005 6. NAMCO Controls, Limit Switches General Catalog, copyright 1979				1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. The susceptible materials of construction will be reevaluated for radiation degradation.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-LS-10A RHR-LS-11C RHR-LS-10B RHR-LS-11D RHR-LS-10C RHR-LS-10D RHR-LS-11A RHR-LS-11B MANUFACTURER Magnetrol MODEL NUMBER 751-SPX-M14 COMPONENT Level Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 474 COLUMN H.0/7.8, H.0/7.9 K.0/8.0	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	2.2 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond P. Phin</u> Reviewed by: <u>M. S. Soliman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-471E and 471F				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal	OPERATING TIME	6 months		1			Note 1
TAG NUMBER RHR-LT-8A,B	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
MANUFACTURER Barton	PRESSURE (PSIA)	14.7		2			
MODEL NUMBER 352/358	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
COMPONENT Level Transmitter	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
FUNCTION/SERVICE Level Transmitter to Heat Exchanger A,B	RADIATION (RAD)	3.1×10^6		3			
	AGING	40 years		2			
LOCATION: BLDG R ELEVATION 548 COLUMN J5/8,6 K5/8.6	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YESX NO	Prepared by: <u>AN 1/8/82</u> Reviewed by: <u>JDM 1/8/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-548J				1. Qualification Documentation is being obtained.			

OWNER: WPPSS
FACILITY: WNP-2
SPEC:MPL: E12-C002
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-M-2A -2B -2C MANUFACTURER General Electric MODEL NUMBER 5K6339XC122A COMPONENT Motor FUNCTION/SERVICE Drive Pumps LOCATION: BLDG R ELEVATION 422 COLUMN K/8.6, H/8.6, H7/4.6	OPERATING TIME	4320 hours	Equivalent of 4320 hours at 150°F	5	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	1	3,4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100%	1	3,4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.5 x 10 ⁶		2			Note 1
	AGING	40 years	180 starts = 10 year + 10 33 years (worst fit)	1	3,4	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiler</u> Reviewed by: <u>H. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-422I (worst case) 3. GE #491HA911, 3/25/80 (BWR 111-A-04) 4. GE #NEDM-10672, 8/27 (BWR 111-A-05) 5. WNP-2 Class 1E Equipment List				1. Radiation test data on representative motorettes are being obtained from the manufacturer.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-35A

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



PAGE NO:
REVISION:
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MPL:
PPD:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-M-3 MANUFACTURER Westinghouse MODEL NUMBER 75D40786 COMPONENT Motor FUNCTION/SERVICE 15hp motor for RHR-P-3+ LOCATION: BLDG R ELEVATION 429 COLUMN H 4/4.8	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.9×10^6	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDN 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-422H 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, <u>W</u> Medium AC Motors in WPPSS Plant, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Electric Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41AMPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-11A -MO-11B MANUFACTURER Limatorque MODEL NUMBER SMB-000-5/K48 COMPONENT - Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE Operate HX to suppression pool valve LOCATION: BLDG R ELEVATION 475 COLUMN K.2/8/1 L.8/8.1	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	2.2×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: _____						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471F, E 4. Limatorque Test Report 80003 5. QID 221011				Qualified			

TEMPERATURE PROFILE

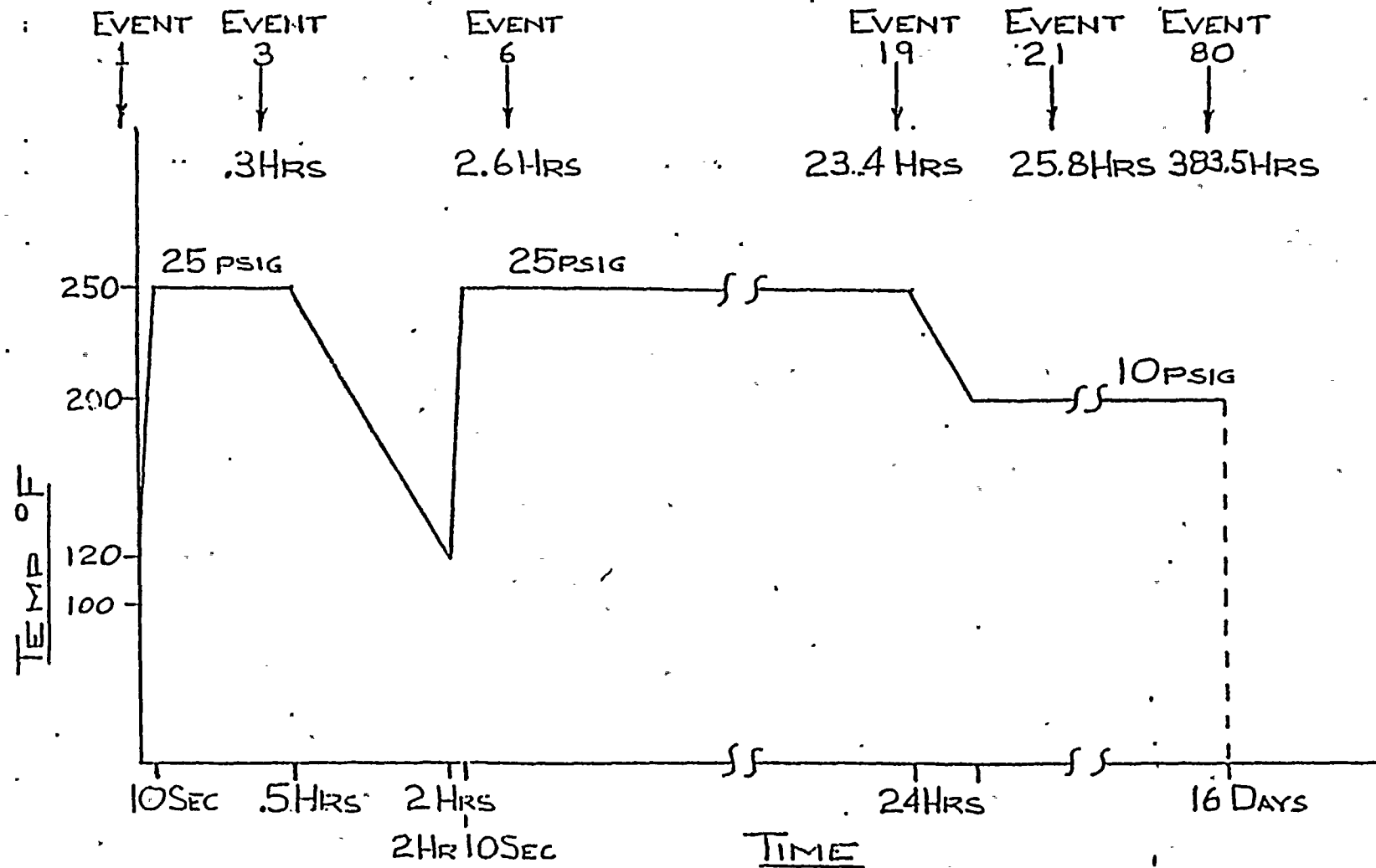


FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-124A -124B -125A -125B MANUFACTURER Limitorque MODEL NUMBER SHC-04 COMPONENT Motor Operator FUNCTION/SERVICE Operate RHR Valves LOCATION: BLDG R ELEVATION 471 COLUMN K3/8.1, K9/8.1, L5/8, L4/8	OPERATING TIME	4320 hours	Equivalent to 35,700 @ 150°F	3	4,5,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	4,6	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Steam for 24 hours 100% for 15 days	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.19×10^6	2×10^7	2	4,6	Sequential Test	None
	AGING	40 years	40 years +	1	4,5,6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ronald L. Chis</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471F (worst case) 3. WNP-2 C1E Equipment List 4. Limitorque Reports B0003, 5/76; B0058, 1/11/80 5. Calculations in QID 221011(1) and (2) 6. Limitorque letter QID 221010				Qualified.			

TEMPERATURE PROFILE

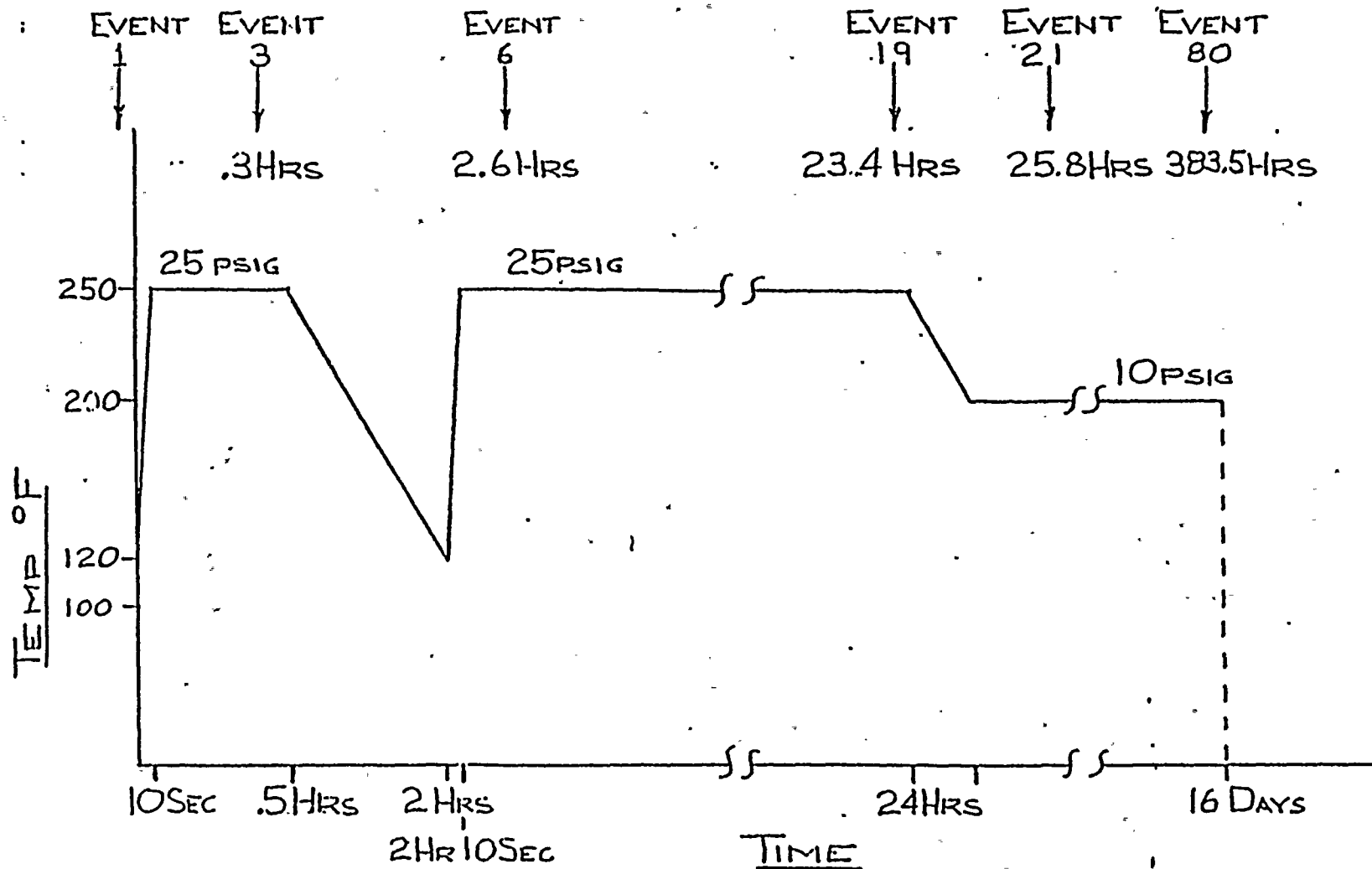


FIGURE 1

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-134A, 134B MANUFACTURER Limiterque MODEL NUMBER SMB- COMPONENT Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE RHR-V-139A, 139B LOCATION: BLDG R ELEVATION 548 COLUMN K.1/9.0 L.5/9.2	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.5 x 10 ⁵	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Simultaneous Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. J. [Signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548L, M 4. Limitorque Test Report B0003 5. QID 221011				Qualified.			

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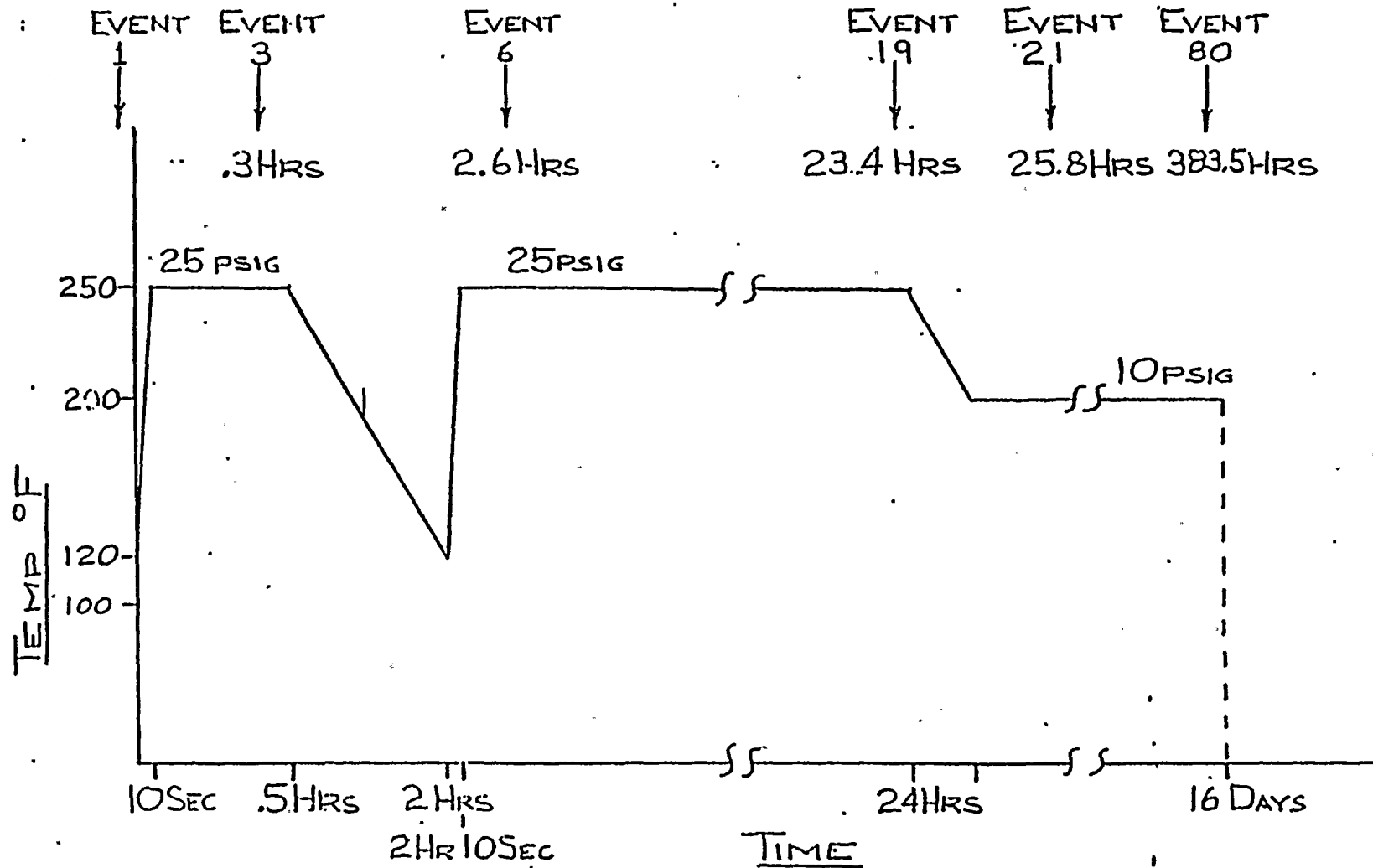


FIGURE 1

LIMITORQUE REPORT B0003



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-16A -17A MANUFACTURER Limatorque MODEL NUMBER SMB-2-80/C215Y COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valve LOCATION: BLDG R ELEVATION 556 COLUMN 4.4/L.0	OPERATING TIME	4320 hours	Equivalent to 6 months at 150°F	6	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.4×10^6	2×10^7	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>W. J. Robinson</u> Reviewed by: <u>Raymond Ali</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5488 3. Limatorque Report B0003 with Addendum A (BWR-054-C-04) 4. Calculation in QID 221011(2) 5. Calculation in QID 221011(1) 6. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified 1			



TEMPERATURE PROFILE

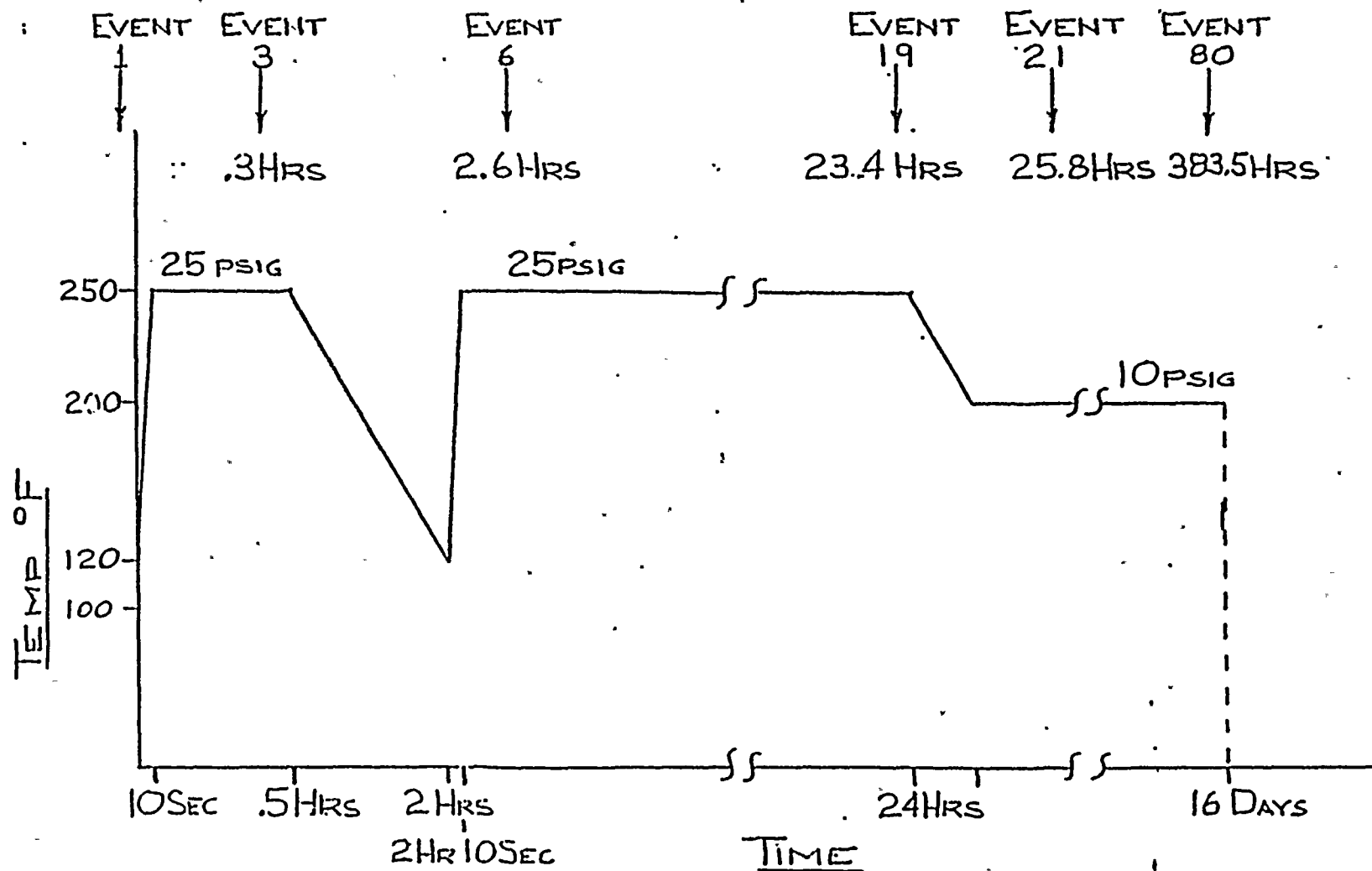


FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-16B -17B MANUFACTURER Limatorque MODEL NUMBER SMB-2-80/C215Y COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valve LOCATION: BLDG R ELEVATION 516 COLUMN K.7/8.1, K.5/8.0	OPERATING TIME	4320 hours	Equivalent to 6 months at 150°F	6	3,4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	3	Simultaneous	None None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.06 x 10 ⁶	2 x 10 ⁷	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>W. L. Johnson</u> Reviewed by: <u>Raymond Ch...</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-501M 3. Limatorque Report B0003 with Addendum A (BWR-054-C-04) 4. Calculation in QID 221011(2) 5. Calculation in QID 221011(1) 6. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified			



TEMPERATURE PROFILE

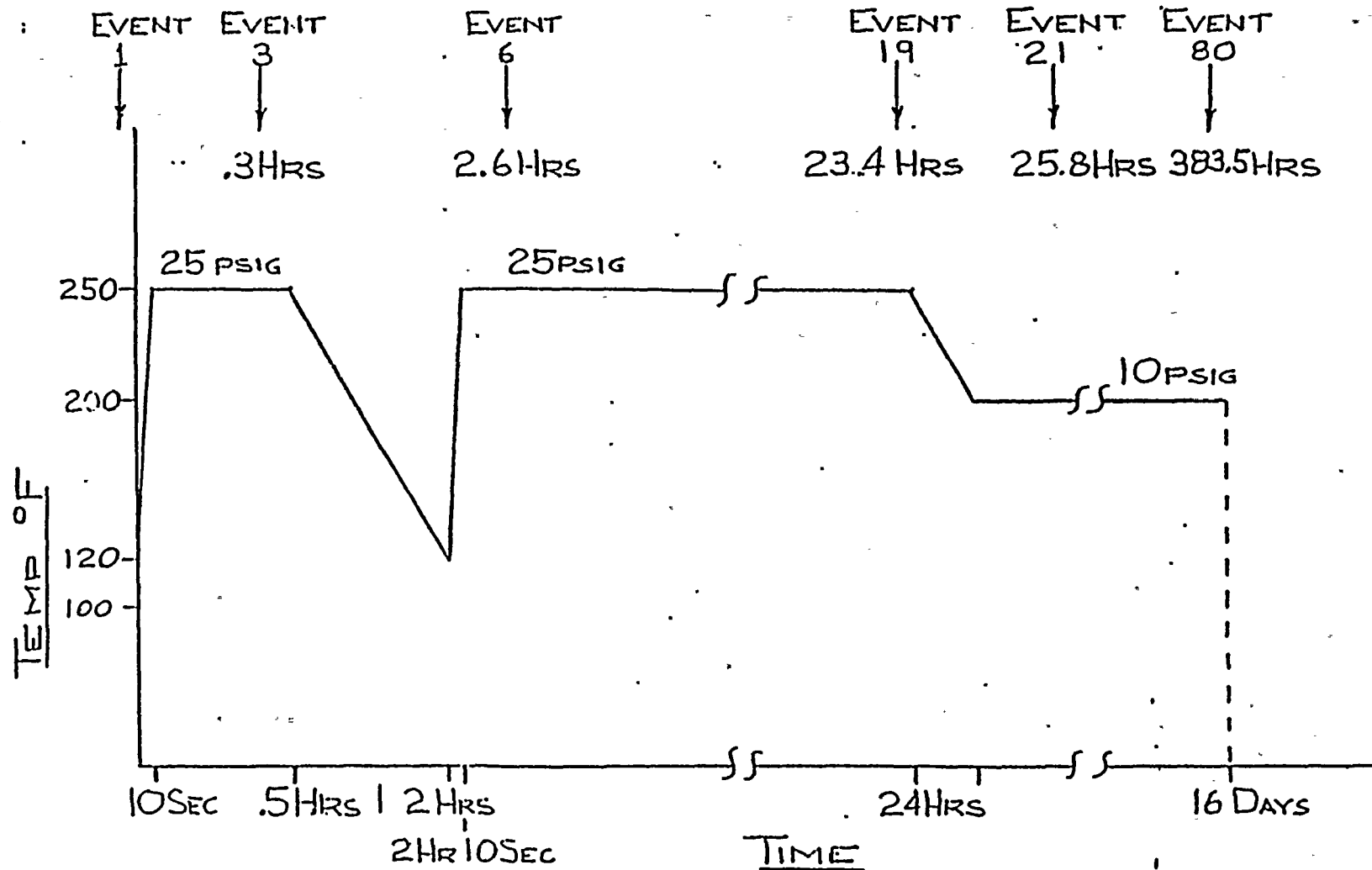


FIGURE 1



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-21 MANUFACTURER Limitorque MODEL NUMBER SM8-3-80/213R3 COMPONENT Motor Operator Motor: Reliance B Insulation FUNCTION/SERVICE Operates Loop Test Return Valve LOCATION: BLDG R ELEVATION 455 COLUMN H.4/5.2	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 140 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	3.1 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-441J 4. Limitorque Test Report B0003 5. QID 221011				Qualified.			

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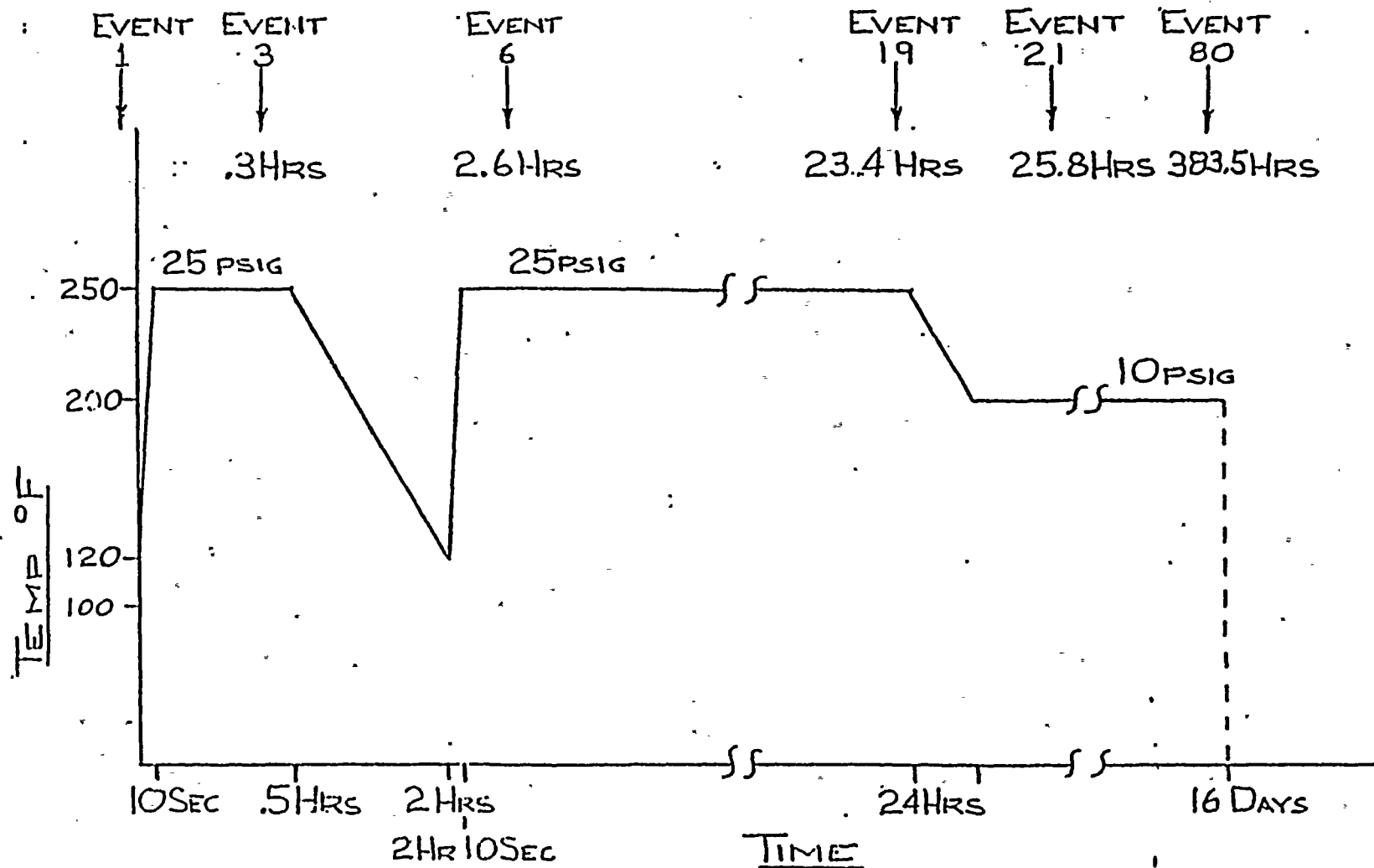


FIGURE 1

LIMITORQUE REPORT B0003



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

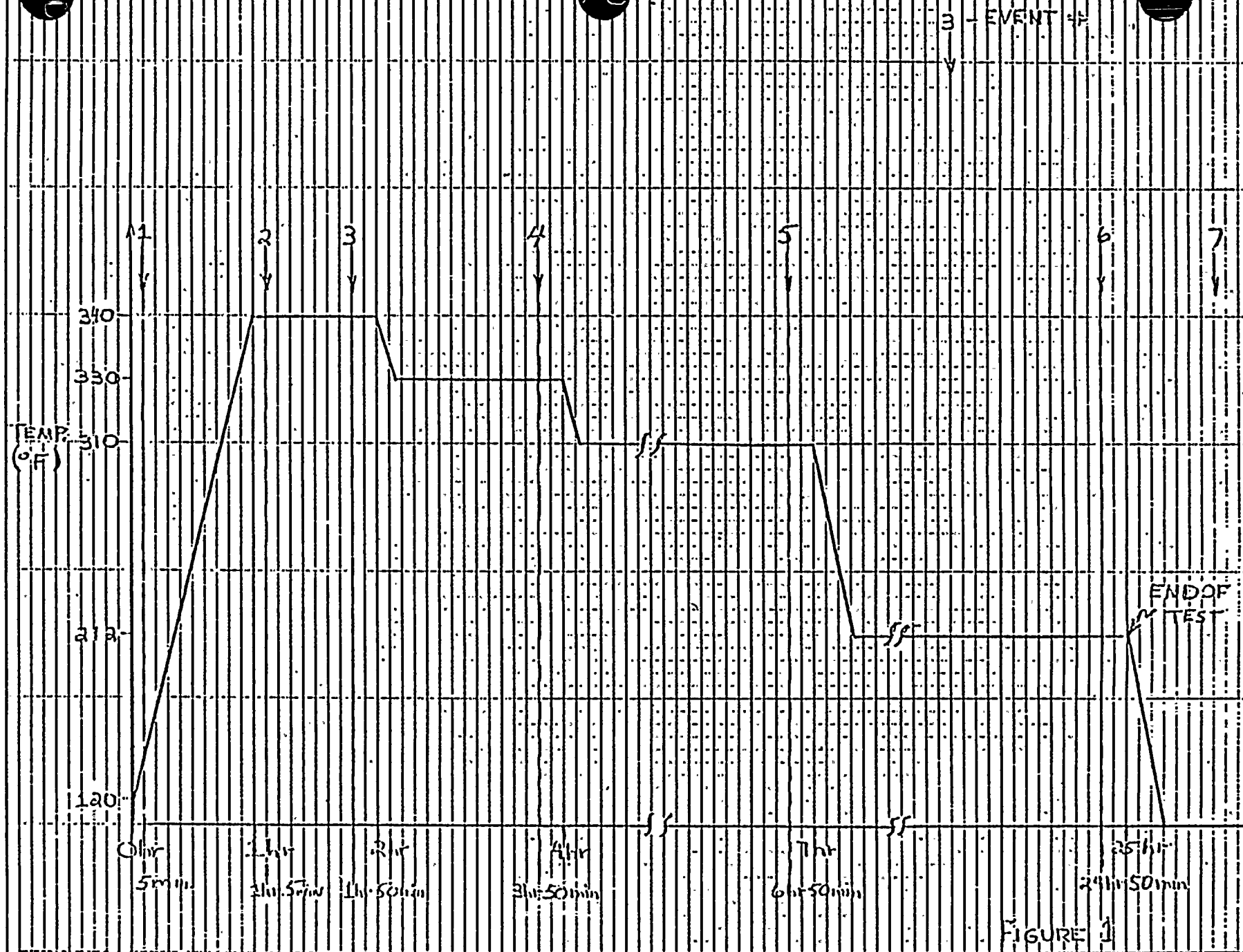
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REVISION:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-23 -40 MANUFACTURER Limatorque MODEL NUMBER SMB-0- COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valve LOCATION: BLDG R ELEVATION 548 COLUMN M.6/5.4 & 8.4	OPERATING TIME	4320 hours	Equivalent of 52284 hours at 150°F	5	3,4	Simultaneous Testing Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Testing	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100%	1	3	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	1×10^7	2	3	Sequential Testing	None
	AGING	40 years	40 years+	1	3,4	Sequential Testing Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. J. Hoffman</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548J (worst case) 3. Limatorque Report B0009, 4/30/76 4. Applicability calculations in QID221011 5. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			



FIGURE 1 TEMPERATURE PROFILE OF ENVIRONMENTAL TEST







WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-24A -MO-24B MANUFACTURER Limatorque MODEL NUMBER SMB-3-80-213R3 COMPONENT Motor Operator Motor: Reliance, B-Insulation FUNCTION/SERVICE Operates Loop Test Return Valve LOCATION: BLDG R ELEVATION 476 COLUMN K.0/8.1 M.2/8.1	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	2.2 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. L. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471F, E 4. Limatorque Test Report B0003 5. QID 221011				Qualified			



TEMPERATURE PROFILE

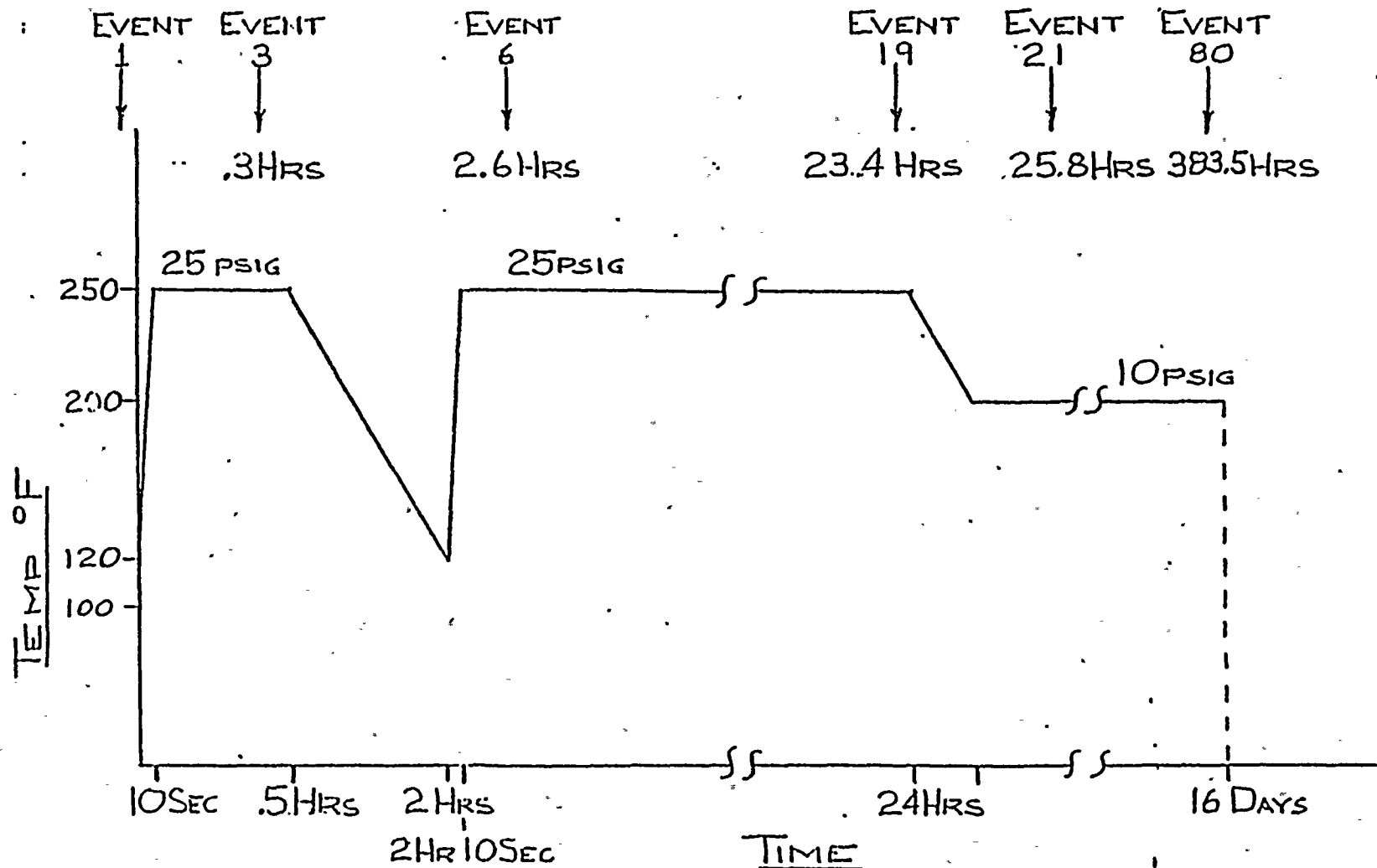


FIGURE 1



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-27A -MO-27B MANUFACTURER Limatorque MODEL NUMBER SMB-00-7.5/L56 COMPONENT - Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE Operates wetwell spray valve LOCATION: BLDG R ELEVATION: 495 COLUMN K.2/4.1 M.1/7.7	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.7 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chu</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-471A, E 4. Limatorque Test Report B0003 5. QID 221011				Qualified			

TEMPERATURE PROFILE

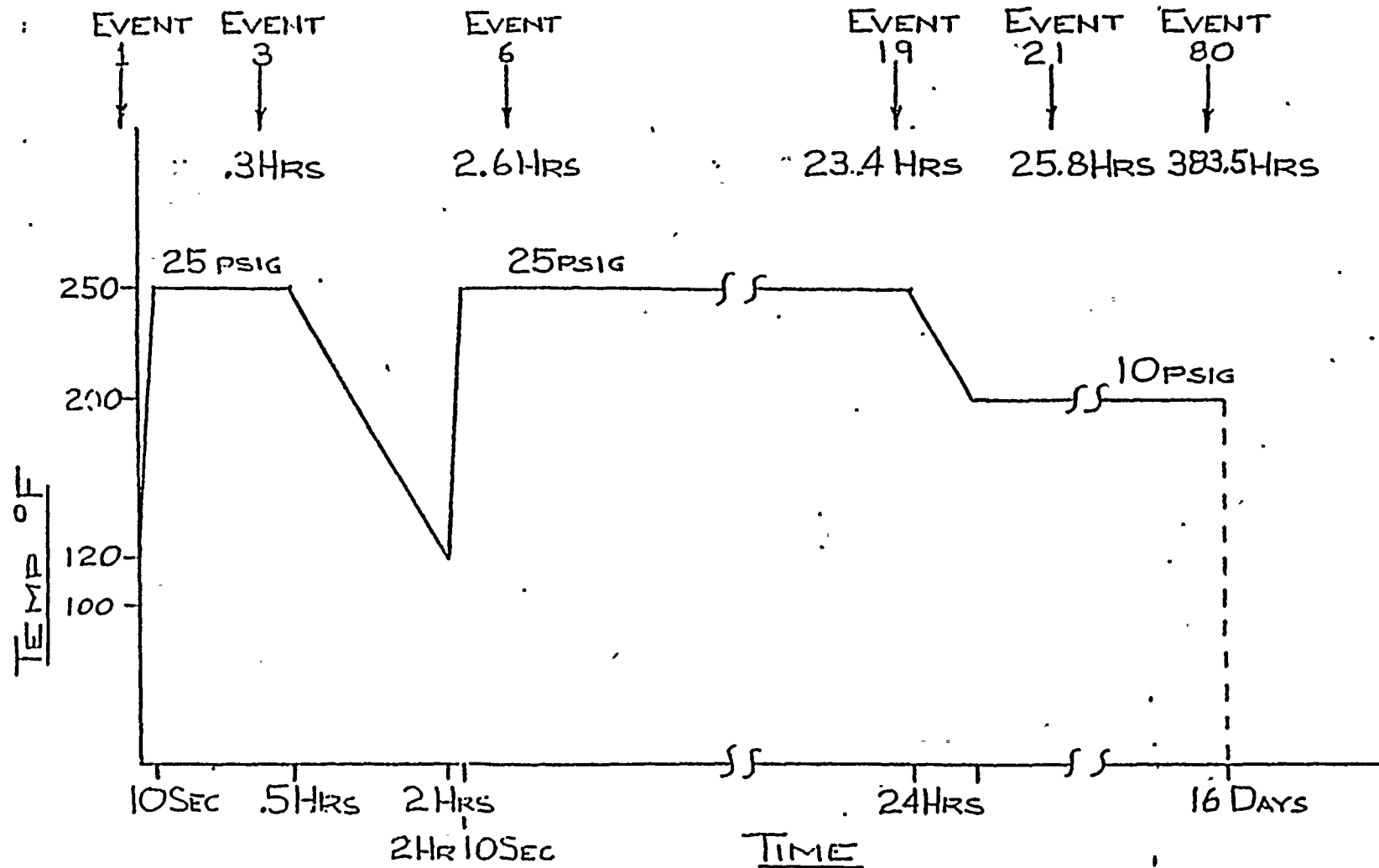


FIGURE 1

LIMITORQUE REPORT B0003



WASHINGTON PUBLIC UTILITY SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



3

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

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DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-3A -MO-3B MANUFACTURER Límitorque MODEL NUMBER SMB-1-40/T-56 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates RHR heat exchanger outlet isolation valve LOCATION: BLDG R ELEVATION 562 COLUMN J.9/8.5 M.2/8.4	OPERATING TIME	6 months	Equivalent to 6 months at 150°F	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	40 max. normal 90 max. abnormal 100 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	2.04×10^8	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Límitorque Report B0058 3. Límitorque Report B600376A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-548J, N 6. E/IC-02-80-04-0				Qualified			

WP-1001

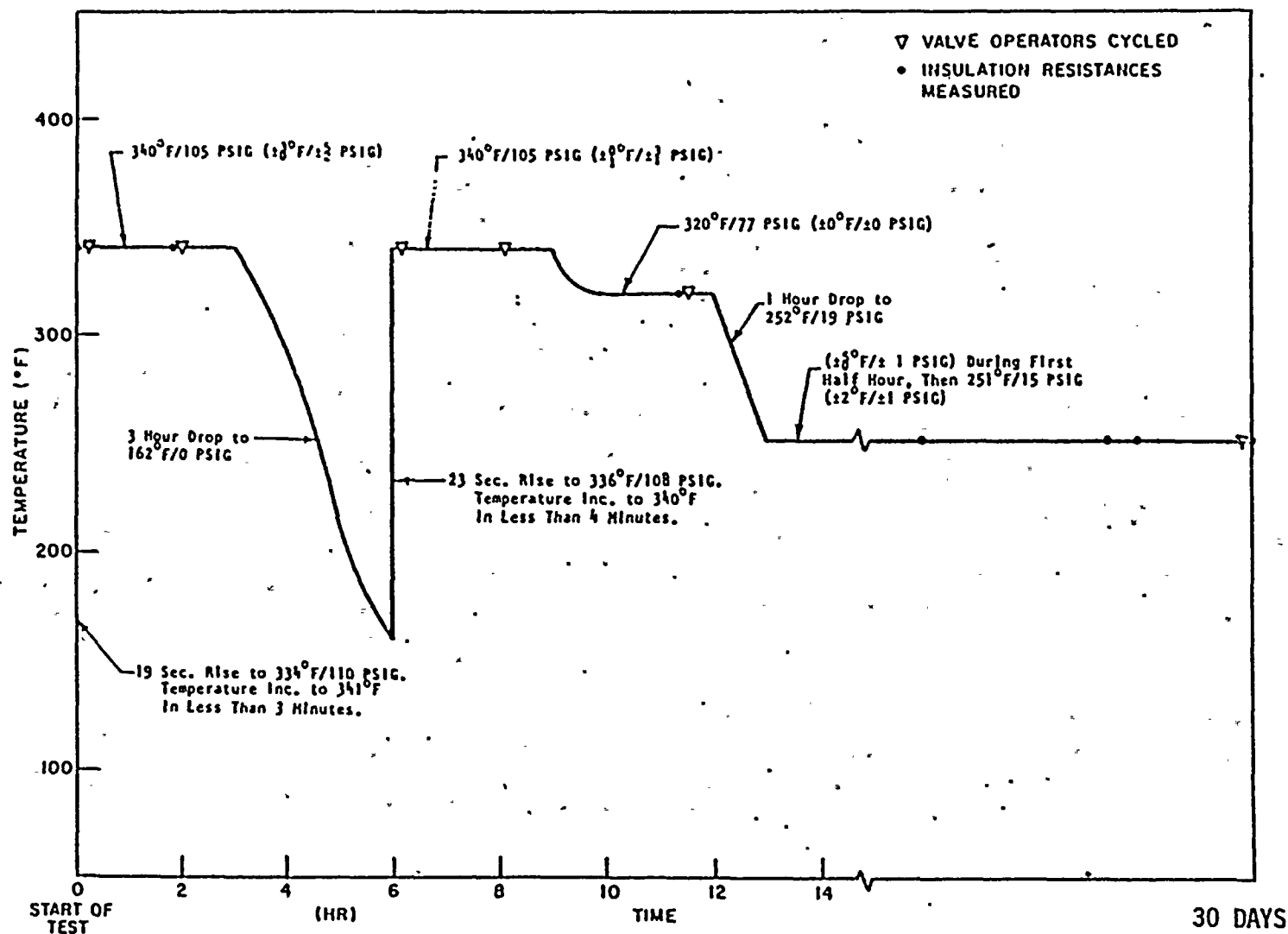


Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A

F-C3441



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

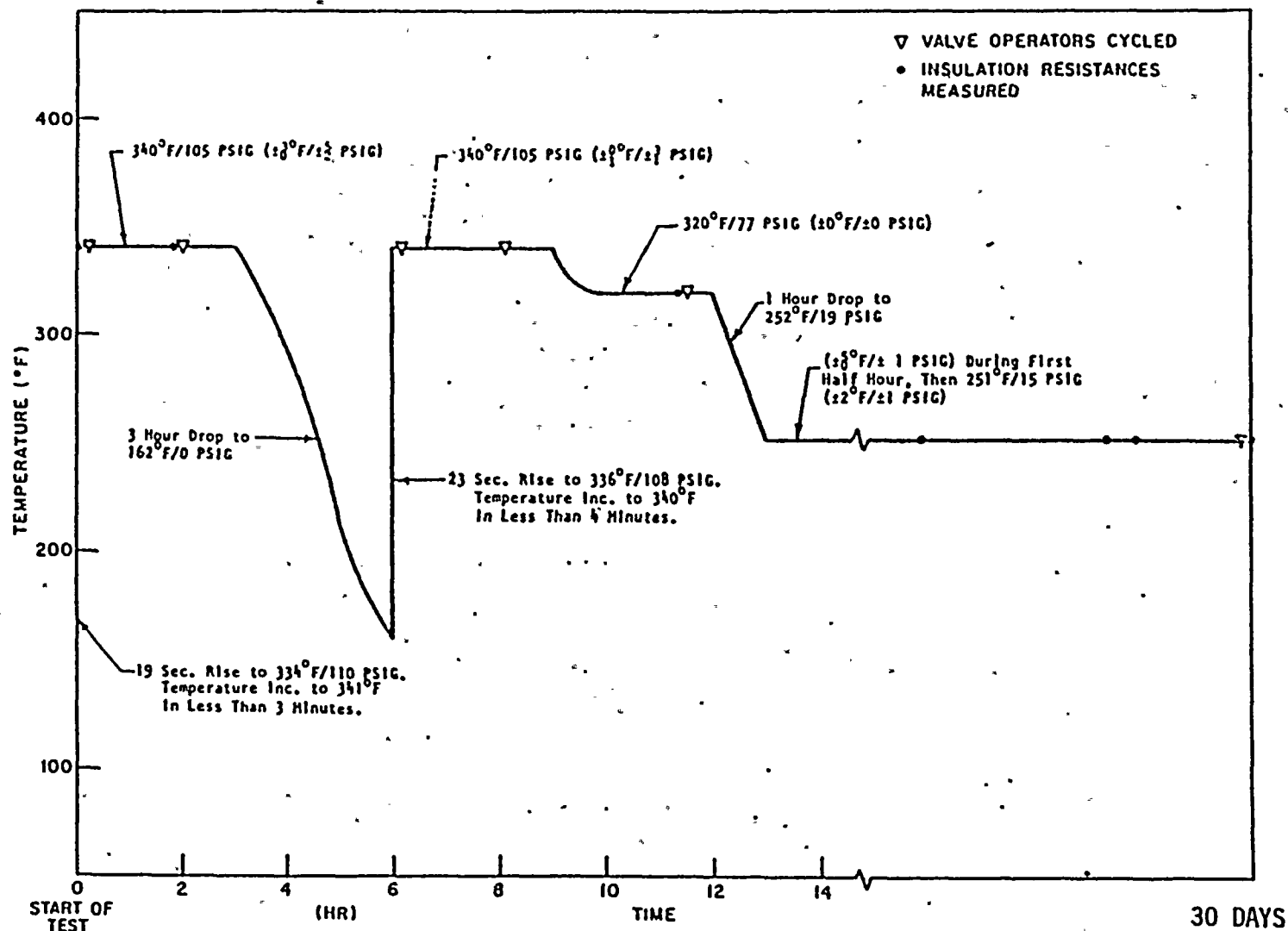


OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual heat removal TAG NUMBER RHR-MO-4A -MO-4B -MO-4C MANUFACTURER Limitorque MODEL NUMBER SMB-040/T56 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates loop suppression pool suction valve LOCATION: BLDG R ELEVATION 444 COLUMN K.0/8.3 L.2/8.3 J.7/4.3	OPERATING TIME	6 months	Equivalent to 6 months at 150 F.	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	3.1 x 10 ⁶	2.04 x 10 ⁸	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3, 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600376A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-441F, G, J 6. E/IC 02-80-04-0				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A



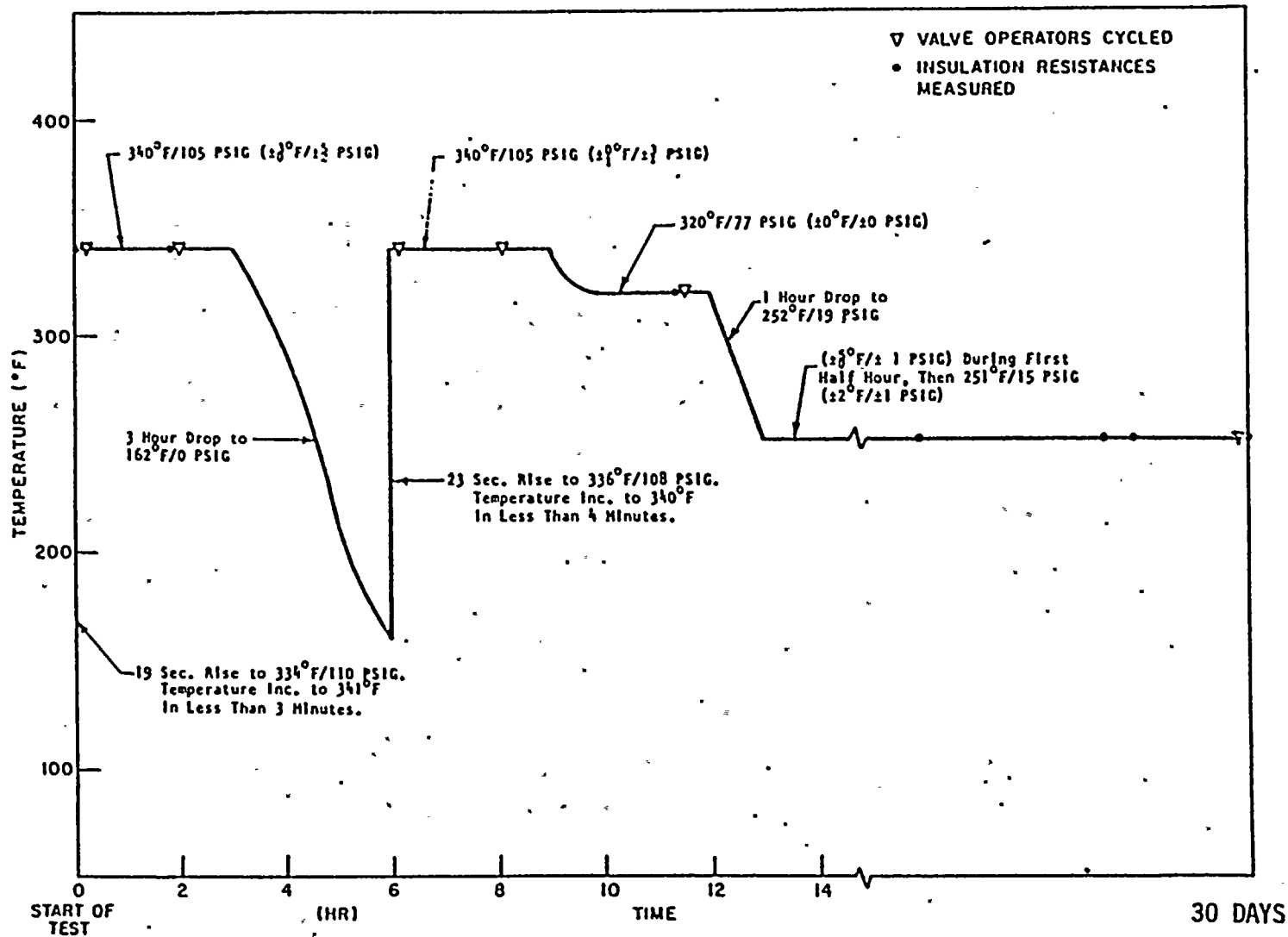
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual heat removal TAG NUMBER RHR-MO-42A -MO-42B -MO-42C MANUFACTURER Limatorque MODEL NUMBER SMB-3-15-/256UR3 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates LPCI injection valve LOCATION: BLDG R ELEVATION 522 COLUMN J.0/6.0 N/5.8 J.0/6.0	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	4	3	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/R	N/R	None
	RADIATION (RAD)	1.7 x 10 ⁶	2.04 x 10 ⁸	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limatorque Report B0058 3. Limatorque Report B600376A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-5220 6. E/IC 02-80-04-0				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

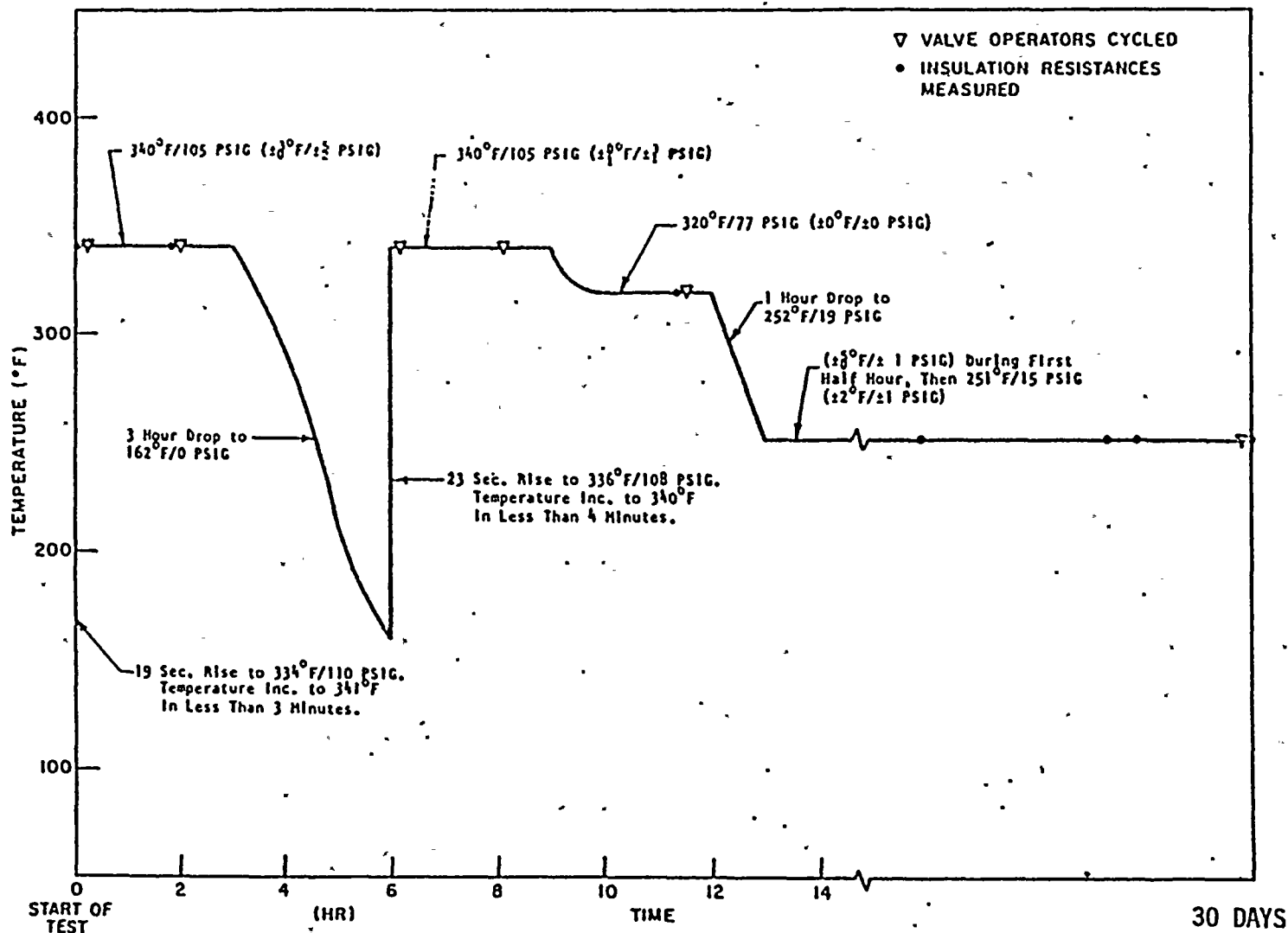
LIMITORQUE TEST REPORT 600376A



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41AMPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-47A 47B MANUFACTURER Limitorque MODEL NUMBER SMB-1-40/T56 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates RHR inlet heat exchanges inlet isolation valve LOCATION: BLDG R ELEVATION 582 COLUMN J.2/8.6 M3/8.6	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.8	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	1.2×10^6	2.04×10^8	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3, 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <i>Ramon Chi</i> Reviewed by: <i>M. P. Hoffman</i>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B--58 3. Limitorque Report B600376A 4. WNP-3 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-5721, L 6. E/IC-02-80-04-0				Qualified.			



F-C3441

Figure 3: Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-48A -MO-48B MANUFACTURER Limatorque MODEL NUMBER SMB-3-80/213R3 COMPONENT - Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE Operates RHR HX Bypass Valves LOCATION: BLDG R ELEVATION 555 COLUMN J.2/8.6 N.0/8.4	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	N/A
	RADIATION (RAD)	3.1 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548N, J 4. Limatorque Test Report B0003 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

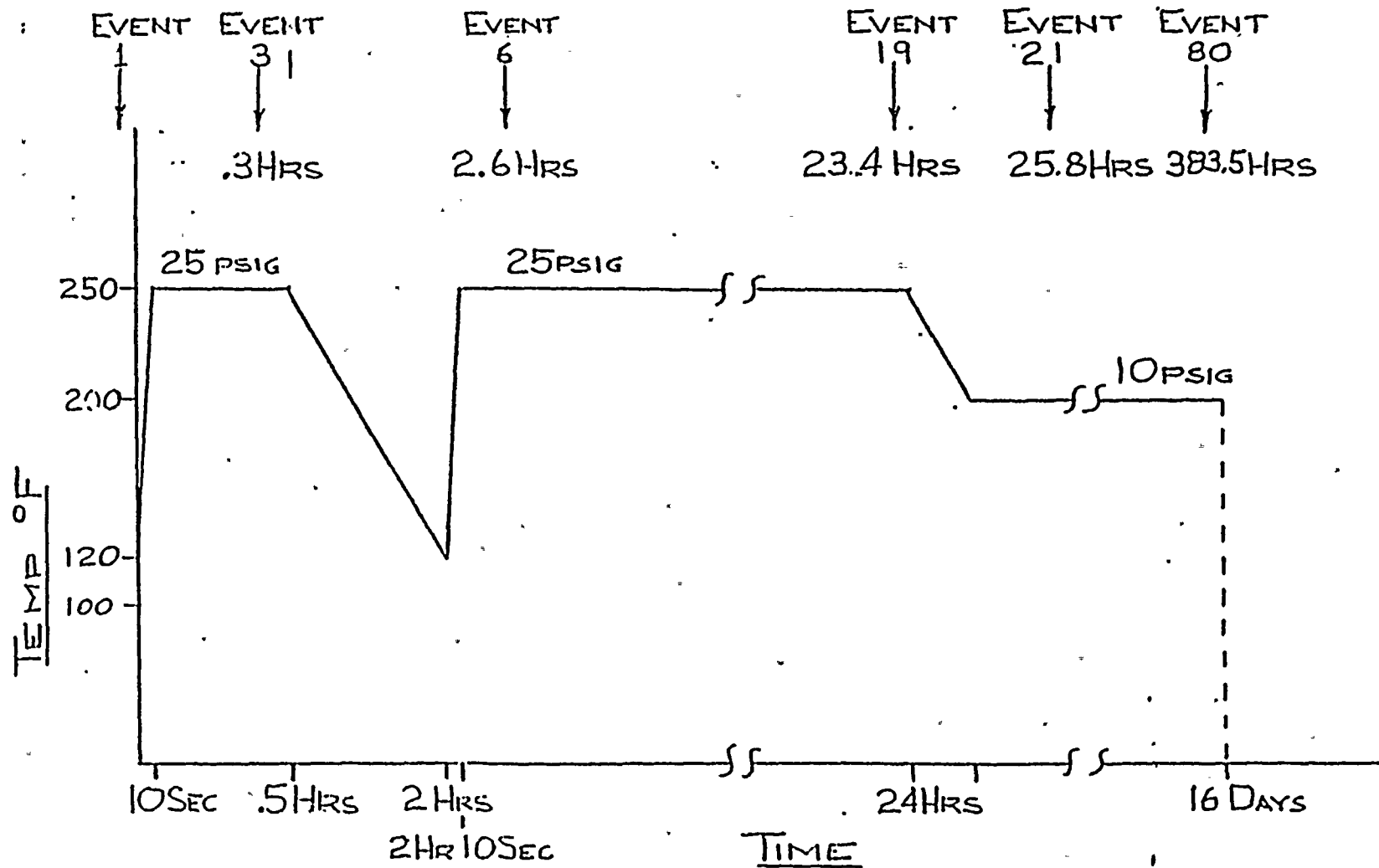


FIGURE 1

LIMITORQUE REPORT B0003

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-49 MANUFACTURER Limiterque MODEL NUMBER SNB-000-5/K48 COMPONENT - Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE Operates RHR discharge to Radwaste LOCATION: BLDG R ELEVATION 553 COLUMN H.8/8.4	OPERATING TIME	6 months	Equivalent to 6 months at 150 F.	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 140 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	3.1×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ronald Chin</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS study 0740-004-548J 4. Limitorque Test Report B0003 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

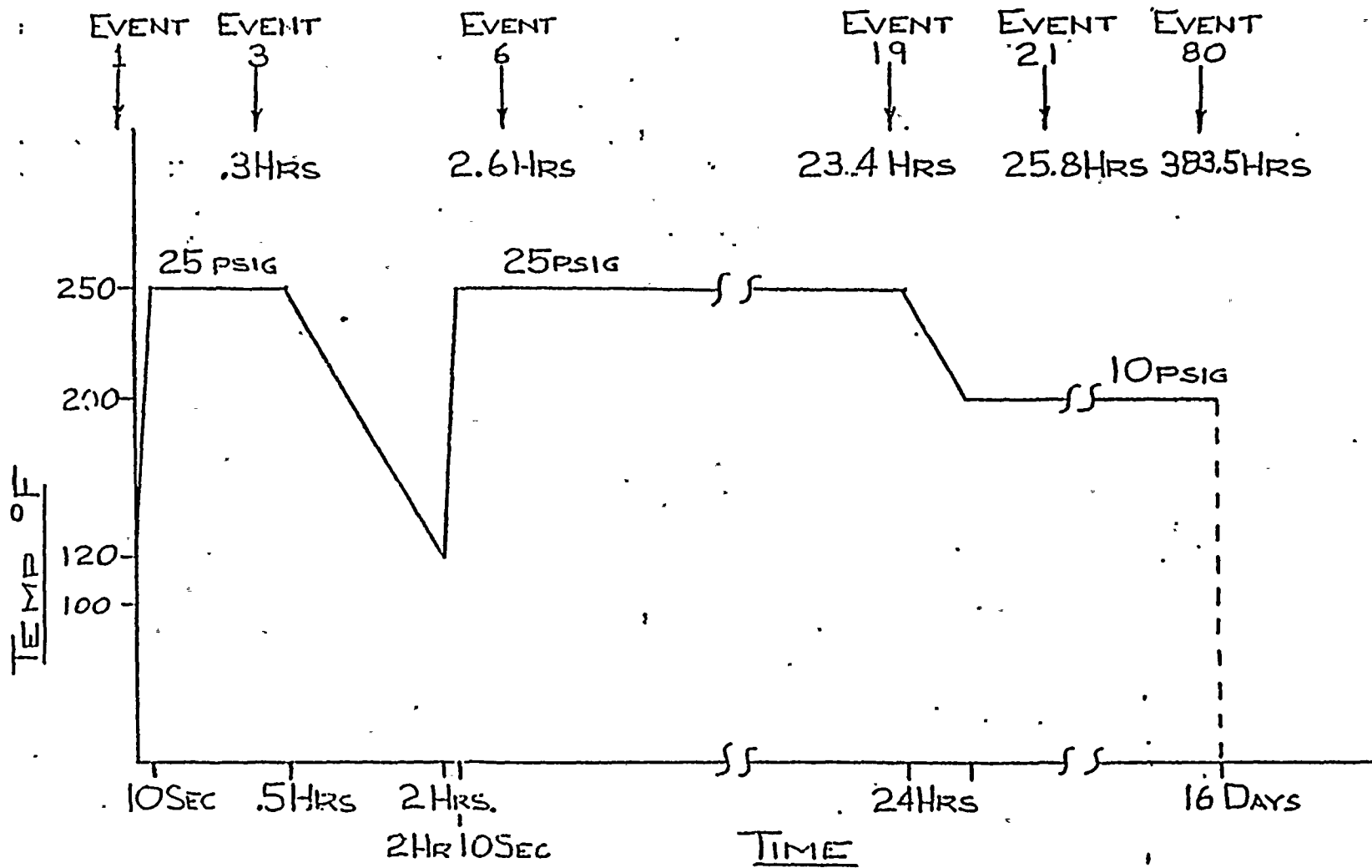


FIGURE 1

LIMITORQUE REPORT B0003



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41MPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-52A MANUFACTURER Limitorque MODEL NUMBER SMB-00-10/L56 COMPONENT - Motor Operator Motor: Reliance, B insulation FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 578 COLUMN H.6/9.2	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Engineering Analysis Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.2×10^6	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES : NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-572L 4. Limitorque Test Report 80003 5. QID 221011.				Qualified.			



TEMPERATURE PROFILE

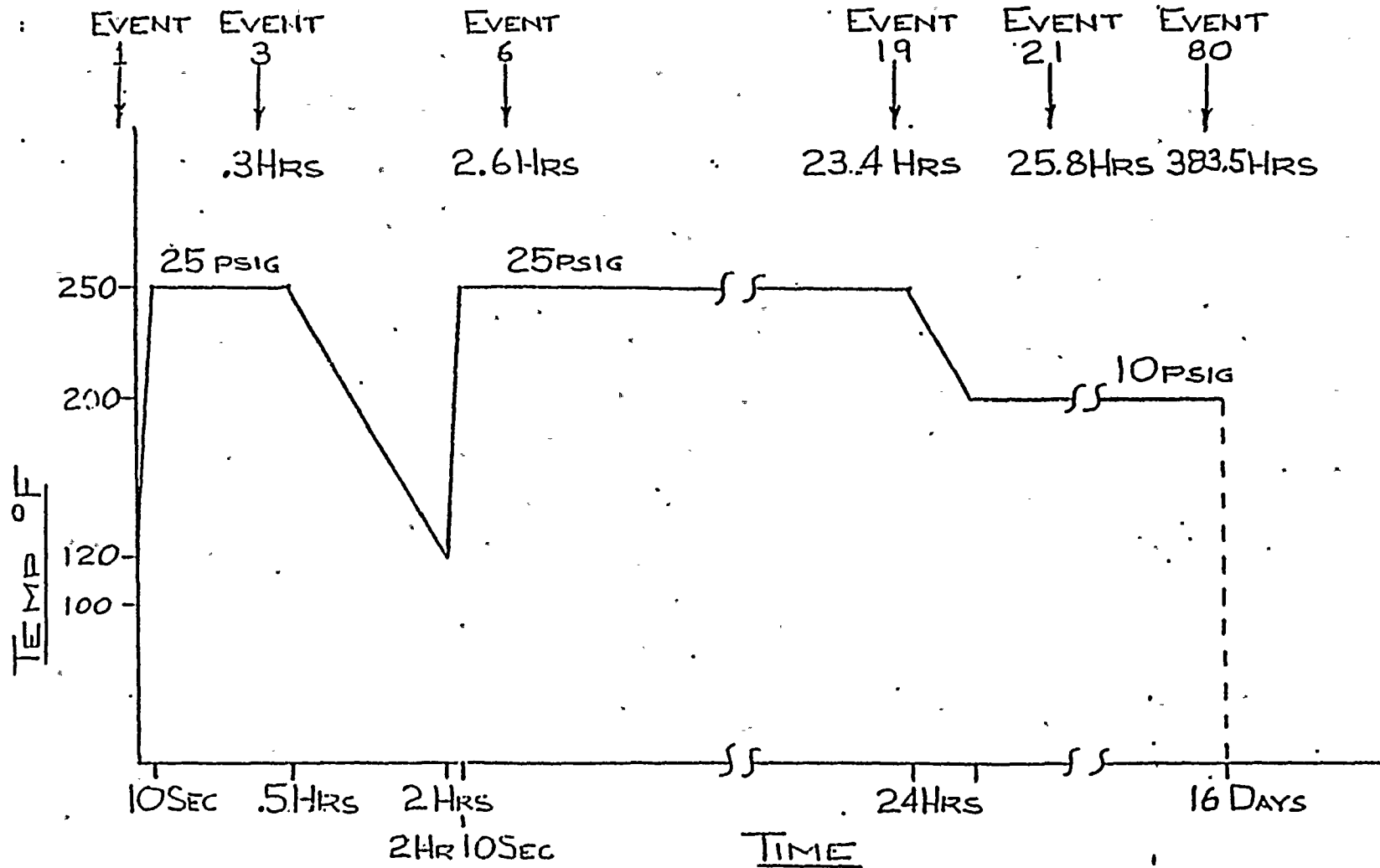


FIGURE 1

LIMITORQUE REPORT B0003





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-42AMPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-52B MANUFACTURER Limatorque MODEL NUMBER SMB-00-10/L56 COMPONENT Motor Operator Motor+Paramount, B FUNCTION/SERVICE 5.2 HP Motor Operator RHR-V-52B LOCATION: BLDG R ELEVATION . 578 COLUMN N.1/8.6	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	3	4	Engineering Analysis Sequential Test	Note 1
	TEMPERATURE (F)	90°F normal 104°F abnormal 150°F accident	see enclosed profile	1	4	Simultaneous Test	Note 1
	PRESSURE (PSIA)	14.7 PSIA	N/A	1	N/A	N/A	Note 1
	RELATIVE HUMIDITY (%)	40% RH normal 90% RH abnormal 100% accident	100	1	4	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	Note 1
	RADIATION (RAD)	9.97 x 10 ⁵	2 x 10 ⁷	2	4	Sequential Test	Note 1
	AGING	40 years	40 years	1	4, 5	Sequential Test	Note 1
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report 0740-004-572I 3. WNP-2 Class 1E Equipment List 4. Limatorque Report B0003, with addendum A, 5/8/76 5. QID 221011				1. The vendor is being contacted to confirm applicability of test report.			

TEMPERATURE PROFILE

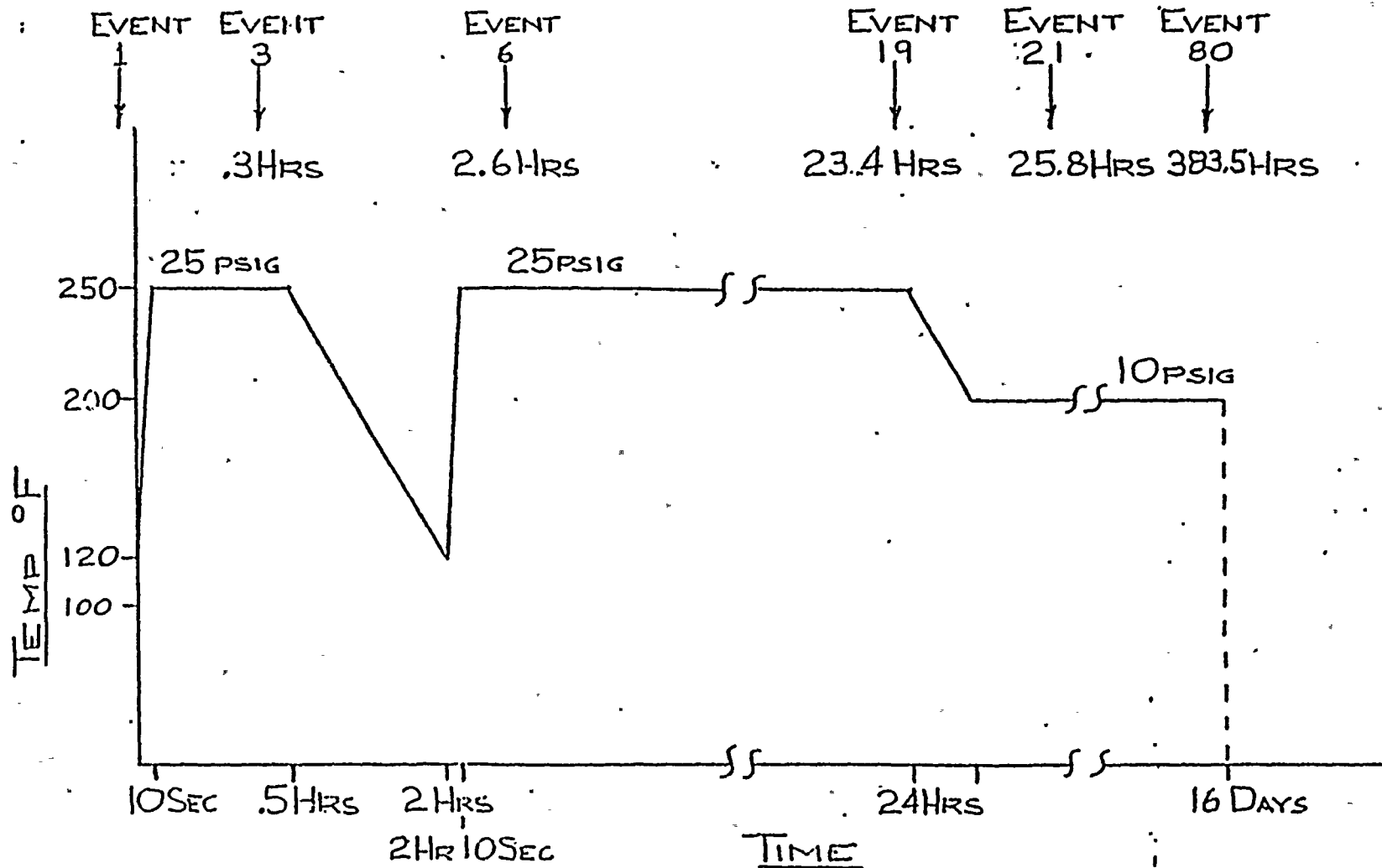


FIGURE 1

LIMITORQUE REPORT B0003



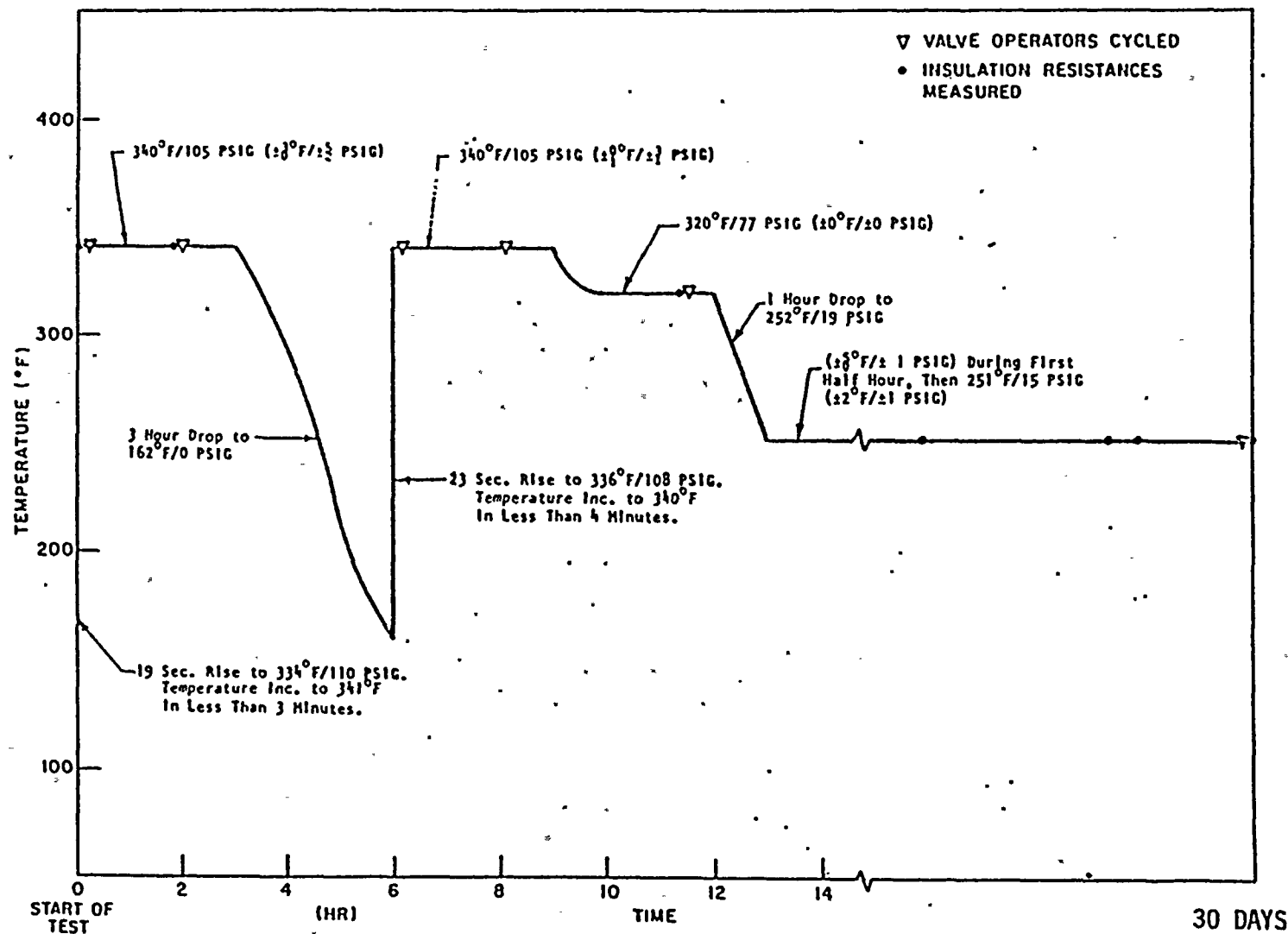
WASHINGTON PUBLIC POWER & LIGHTS
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-53A -MO-53B MANUFACTURER Limitorque MODEL NUMBER COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates SD cooling injection valve LOCATION: BLDG R ELEVATION 516 COLUMN K.9/4.1 L.2/8.0	OPERATING TIME	6 months	Equivalent to 6 months at 150 F.	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	50 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	2.6×10^6	2.04×10^8	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>W. J. Thompson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600367A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-501M, M01S 6. E/IC 02-80-04-0				Qualified.			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41AMPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual heat removal TAG NUMBER RHR-MO-6A -MO-6B MANUFACTURER Limitorque MODEL NUMBER SMB-0-25/R56 COMPONENT Motor Operator - Reliance, RH insulation FUNCTION/SERVICE Operates SD cooling suppression pool isolation valve LOCATION: BLDG R ELEVATION 430 COLUMN K.8/8.3 L.8/8.5	OPERATING TIME	6 months	Equivalent to 6 months at 150°F	4	3, 6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	N/A	None
	RADIATION (RAD)	2.5×10^6	2.04×10^8	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3, 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES : NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Al. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600376A 4. WNP-2 Class 1E Equipment List, 12/16/81 5. EDS Study 0740-004-4221, J 6. E/IC 02-80-04-0				Qualified.			

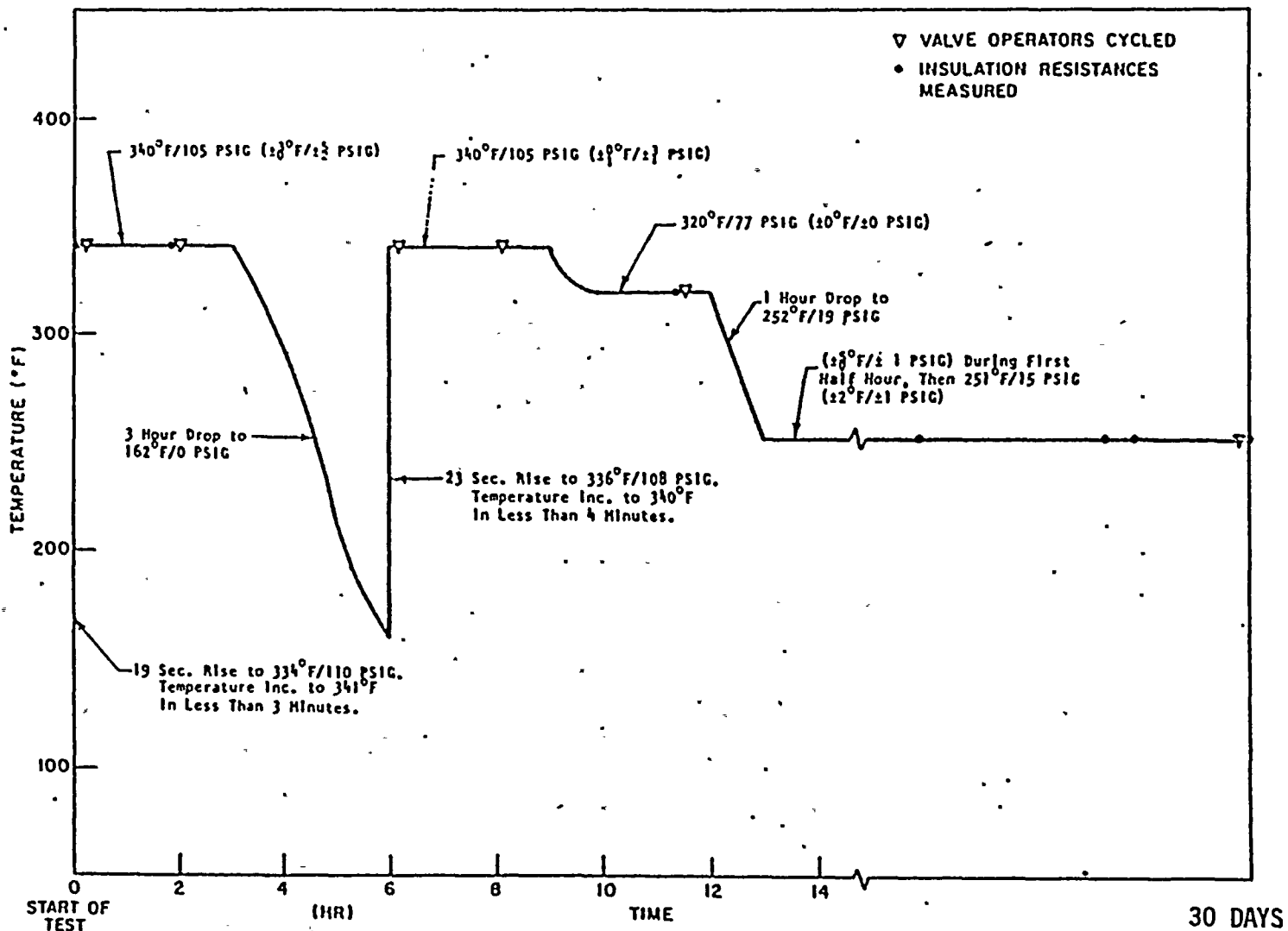


Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A

F-C3441



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-64A -64B -64C MANUFACTURER Limitorque MODEL NUMBER SMB-000 COMPONENT Motor Operator FUNCTION/SERVICE Operate RHR Valves LOCATION: BLDG R ELEVATION 441 COLUMN K/9.3, J/5	OPERATING TIME	4320 hours	Equivalent of 35700 @ 150°F	1	3,4	Simultaneous Testing Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Testing	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	Simultaneous Testing	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	Steam from 24 hrs 100% from 15 days	1	3	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3×10^6	2×10^7	2	3	Sequential Testing	None
	AGING	40 Years	40 Years+	1	3,5	Sequential Testing Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EUS Study 0740-004-441J (worst case) 3. Limitorque Report B0003 with addendum A, 5/8/76 in BWR054-C-04 4. Calculations in QID 221011 (2) 5. Calculations in QID 221011 (1)				Qualified.			

TEMPERATURE PROFILE

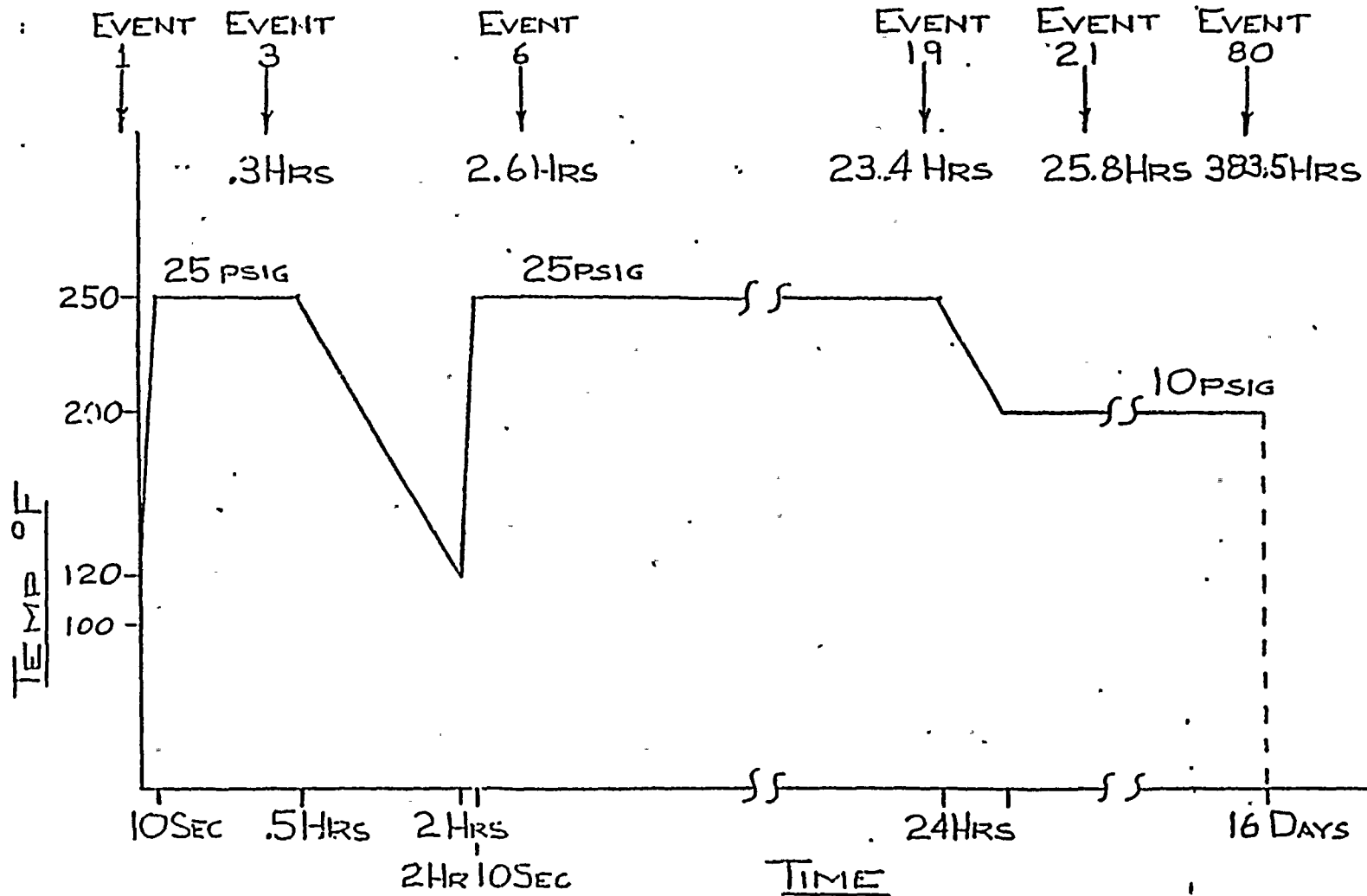


FIGURE 1

LIMITORQUE REPORT B0003



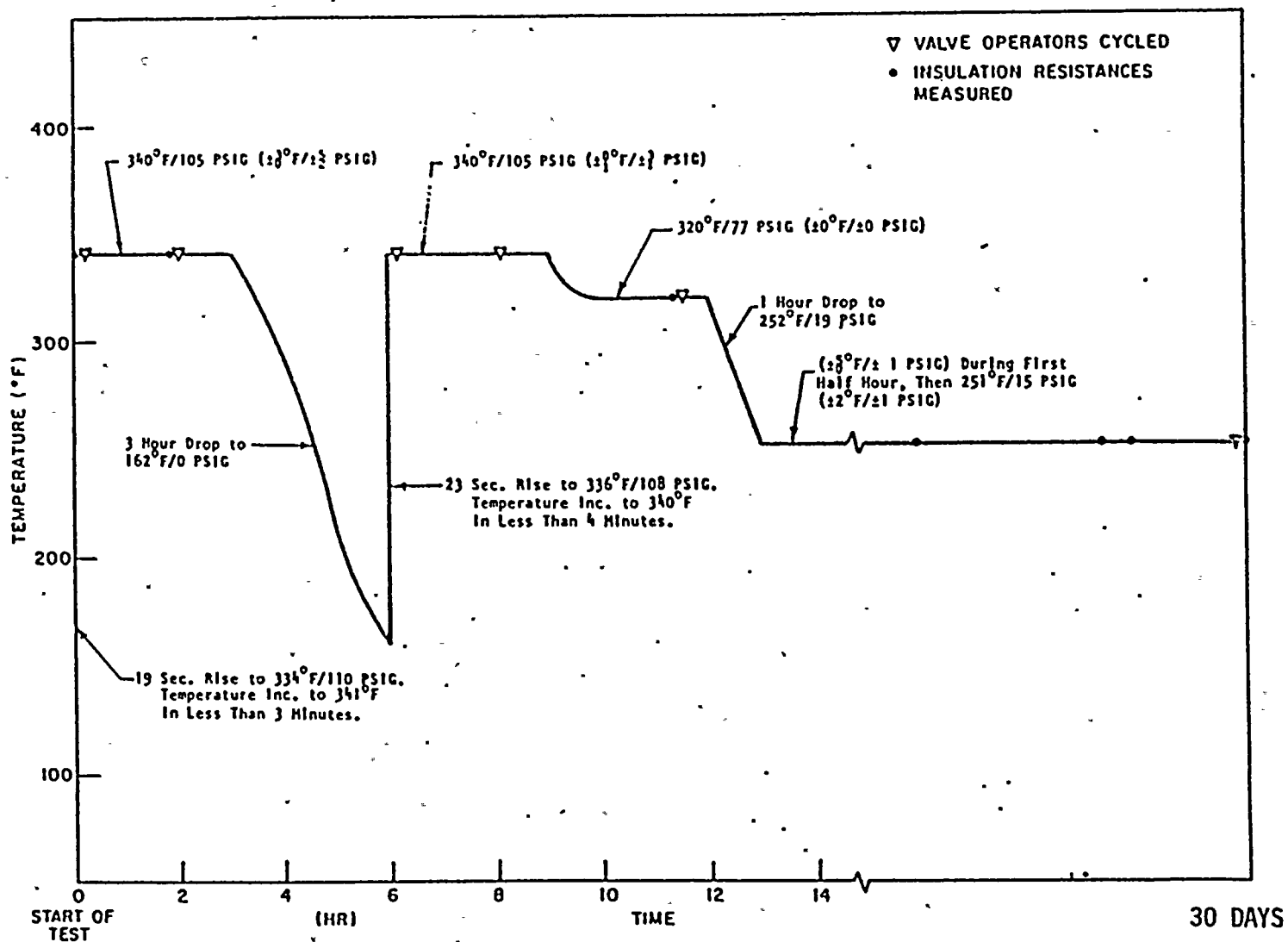
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-41A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual heat removal TAG NUMBER RHR-MO-68A RHR-MO-68B MANUFACTURER Limitorque MODEL NUMBER SMB-0-40/T56 COMPONENT Motor Operator- Reliance, RH insulation FUNCTION/SERVICE Operates RHR heat exchanger inlet valve LOCATION: BLDG R ELEVATION 558 COLUMN J.1/9.3 M.8/9.3	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	4	6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1		N/A	None
	RADIATION (RAD)	3.1 x 10 ⁶	2.04 x 10 ⁸	5	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3, 6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600376A 4. WNP-2 Clas 1E Equipment List, 12/16/81 5. EDS Study 0740-004-548J, N 6. E/IC 02-80-04-0				Qualified.			



F-C3447

Figure 3. Actual Steam Exposure Profile.

LIMITORQUE TEST REPORT 600376A

EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-73A, B 74A, B MANUFACTURER Limitorque MODEL NUMBER SMB COMPONENT Motor Operator Reliance, Class B Insulation FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572 COLUMN J8/9	OPERATING TIME	6 months	Equivalent to 6 months at 150°F.	1	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	See enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	1.2 x 10 ⁶	2 x 10 ⁷	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Simultaneous Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Alan Seiden</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-572L, I 4. Limitorque Test Report B0003 5. QID 221011				Qualified.			

TEMPERATURE PROFILE

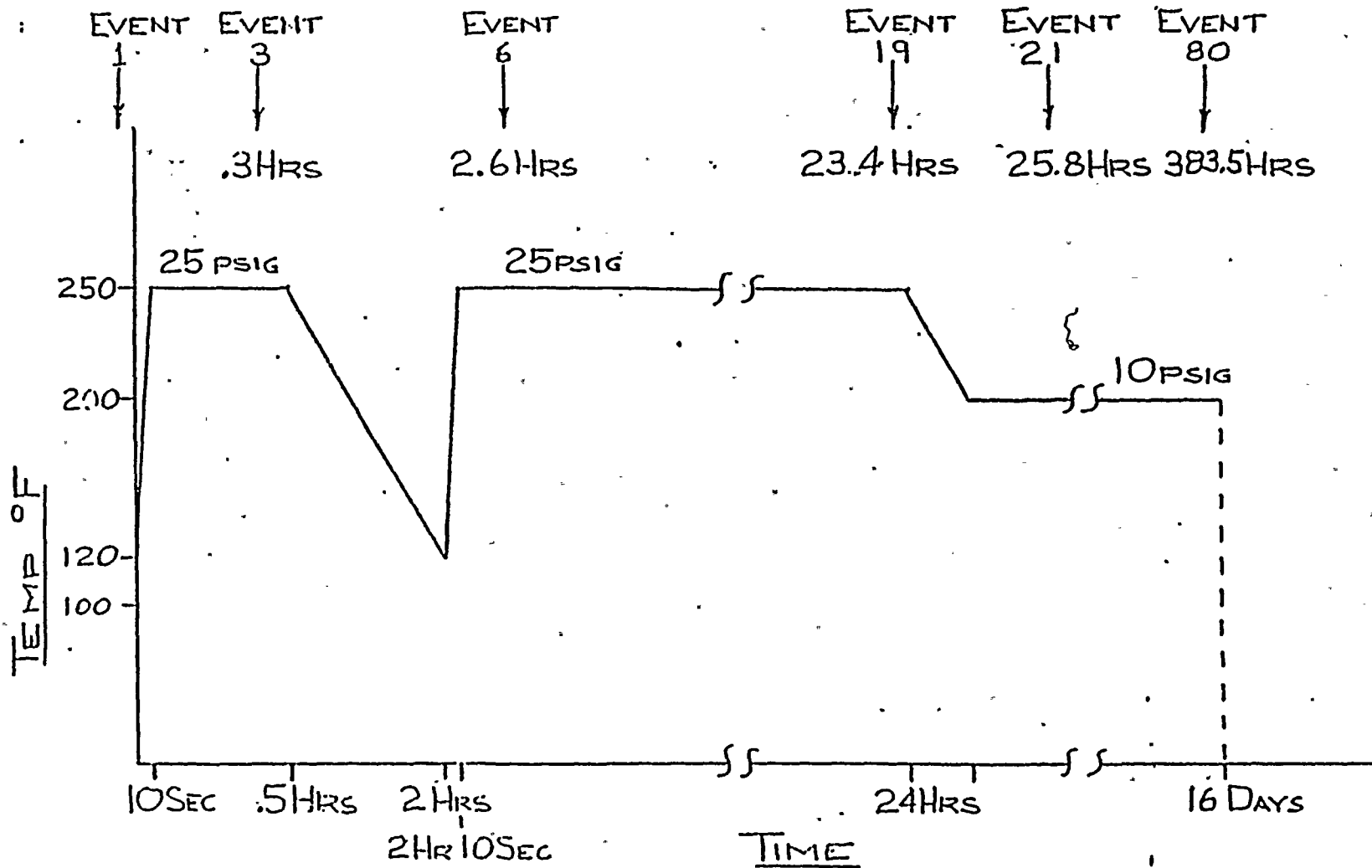


FIGURE 1

LIMITORQUE REPORT B0003



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-42AMPL:
PPD:PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-8 MANUFACTURER Limatorque MODEL NUMBER SMB-2 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valves LOCATION: BLDG R ELEVATION 501 COLUMN M9/7.3	OPERATING TIME	4320 hours	Equivalent to 52,284 hours at 150°F	5	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 maximum accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 maximum abnormal 100 accident	100%	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.3×10^6	1×10^7	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3, 4	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Elvi</u> Reviewed by: <u>M. F. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-5011 3. Limatorque Report B0009, 4/30/76 Section E 4. Applicability calculations in Q10221011, Section E. 5. WNP- 2 Class 1E Equipment List, 12/16/81				1. Qualified			

FIGURE 1 TEMPERATURE PROFILE - ENVIRONMENTAL TEST

3 - EVENT #

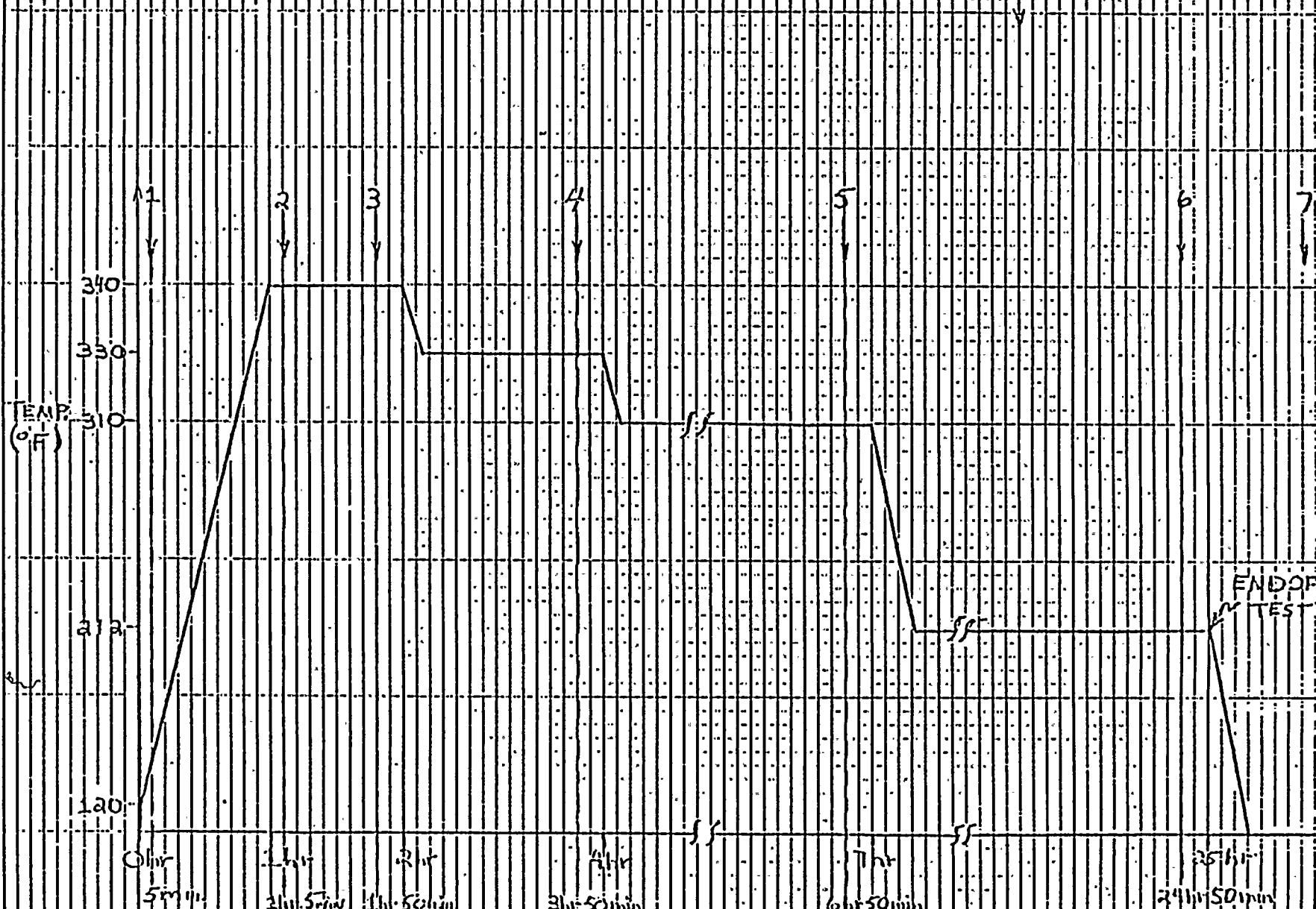


FIGURE 1



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-42A

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-87A, B MANUFACTURER Limatorque MODEL NUMBER SMB-00-10/L56 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valve LOCATION: BLDG R ELEVATION 578 COLUMN N.1/8.6 J/9.3 H.8/8.6	OPERATING TIME	4320 hours	Equivalent to 6 months at 150°F	7	3,4,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	1.1×10^6	2×10^7	2	3	Sequential Test	None
	AGING	40 years	40+ years	1	3,5,6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>h. d. [signature]</u> Reviewed by: <u>Raymond Phi [signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-572I 3. Limatorque Report B0003 with Addendum A (BWR-054-C-04) 4. Calculation in QID 221011(2) 5. Calculation in QID 221011(1) 6. Letter, QID 221010 7. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified			

TEMPERATURE PROFILE

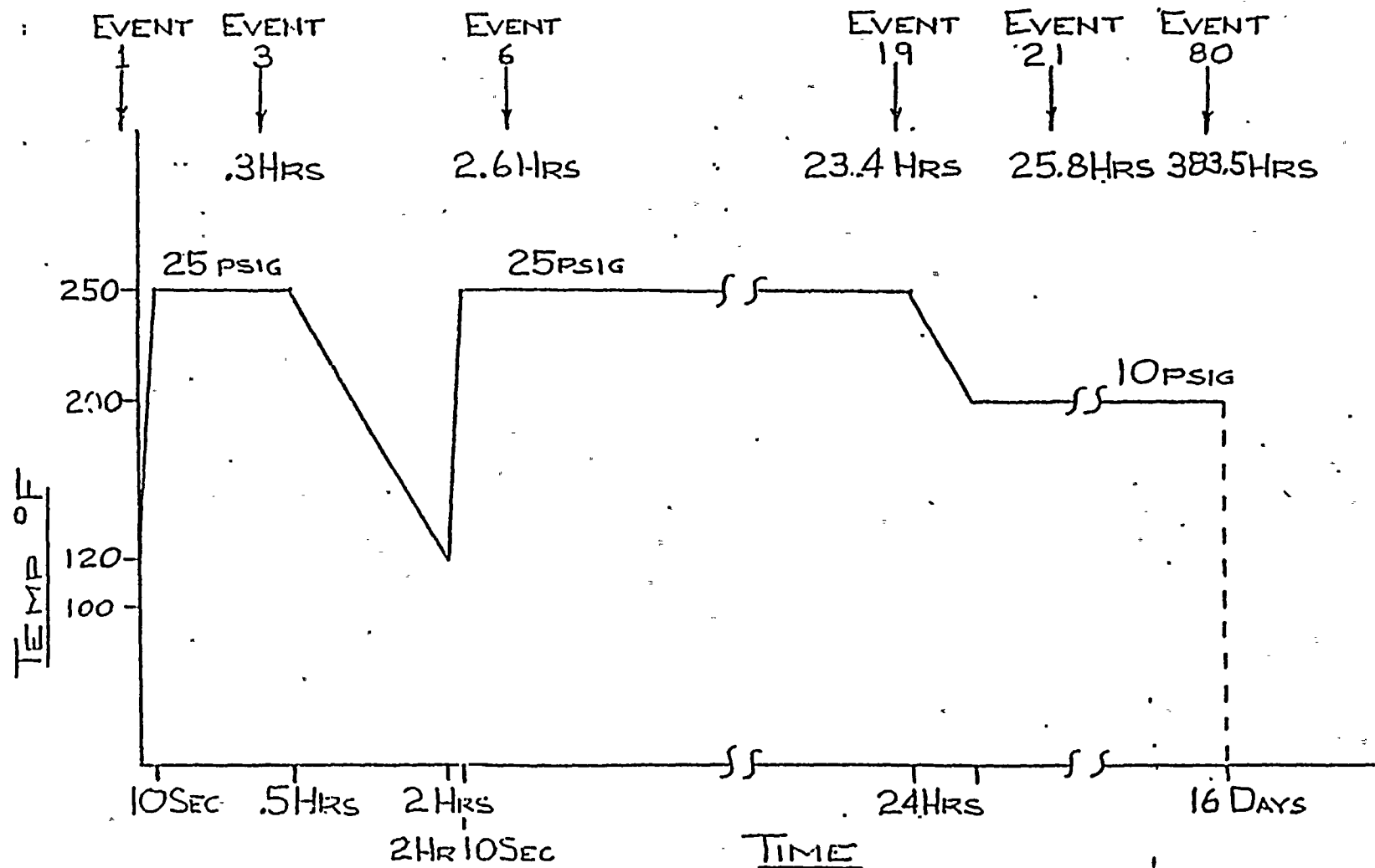


FIGURE 1

LIMITORQUE REPORT B0003



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-9 MANUFACTURER Limitorque MODEL NUMBER SMB-2601215R2 COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 509 COLUMN 150 D	OPERATING TIME	6 months	Note 1	2			
	TEMPERATURE (F)	135 Normal 150 abnormal Accident - Profile 1		1			
	PRESSURE (PSIA)	16.7 normal Accident - Profile 1		1			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	Demineralized water		1			
	RADIATION (RAD)	4.4×10^7		1			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List 12/16/81				1. Man and model on Class 1E List but no evaluation. The qualification status of these components has not yet been determined. Requalification activities will be implemented, if required.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC:

MPL: G11-F093 and G11-F094
PPD: 21A1883

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-93 -94 MANUFACTURER Limatorque MODEL NUMBER SMB-0 COMPONENT Valve Motor Operator (Reliance Class B) FUNCTION/SERVICE Operate RHR/SSW Crosstie Valve LOCATION: BLDG R ELEVATION 552 COLUMN N/8.6, N/9	OPERATING TIME	6 months	Equivalent of 50 months at 150°F	4	2,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Steam for 24 hours 100% for 15 days	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	2×10^7	3	2	Sequential Test	None
	AGING	40 years	40 years	1	2,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>N. S. John</u>						
DOCUMENTATION REFERENCES				NOTES			
1. Par. 3.11 2. Limatorque Test Report B0003, with Addendum A, prepared 5/8/76 3. EDS Study 0740-004-548J 4. WNP-2 Class 1E Equipment List, dated 12/16/81 5. Calculations in QID 221011(2) 6. Calculations in QID 221011(1)				Qualified			

TEMPERATURE PROFILE

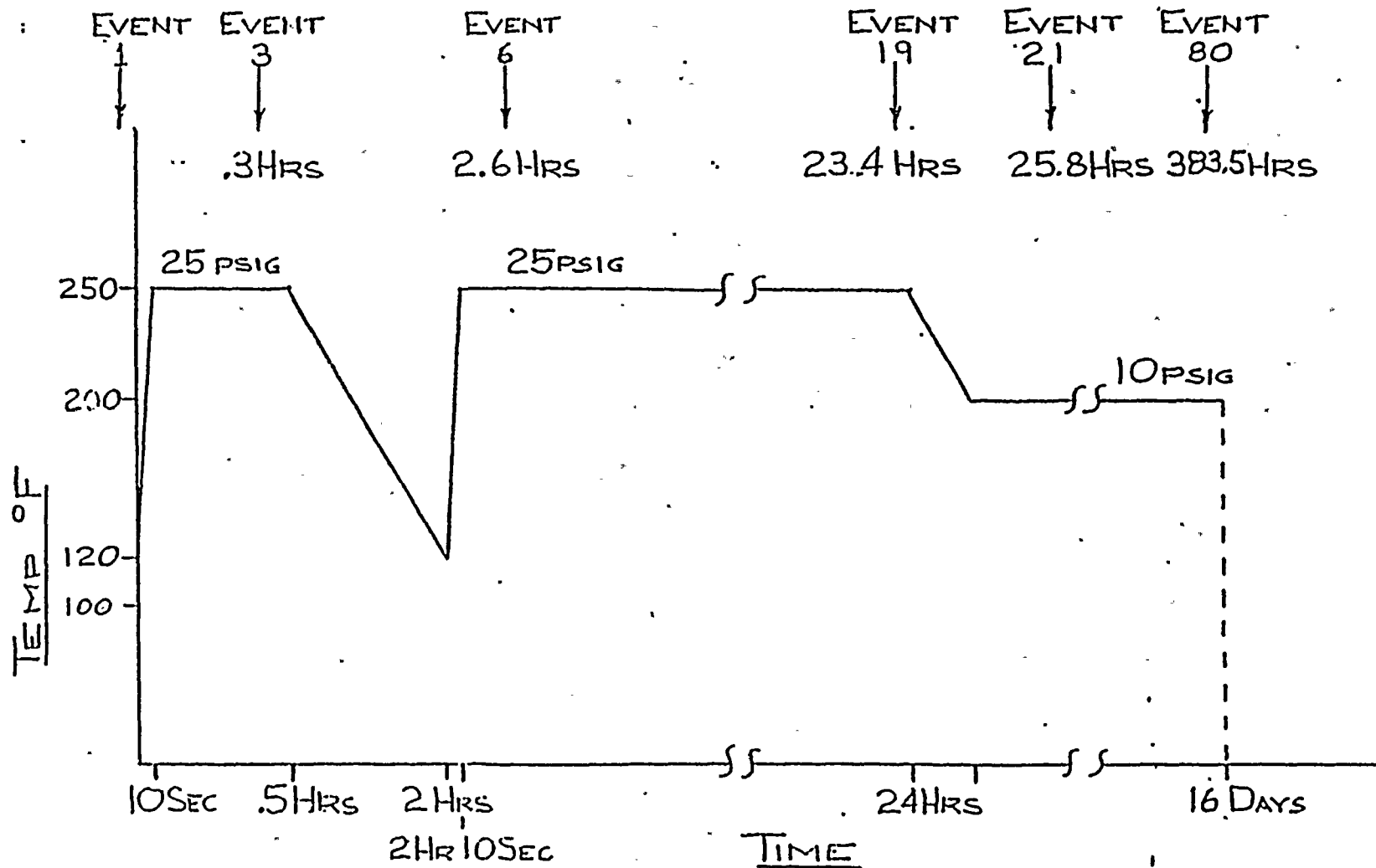


FIGURE 1

LIMITORQUE REPORT B0003



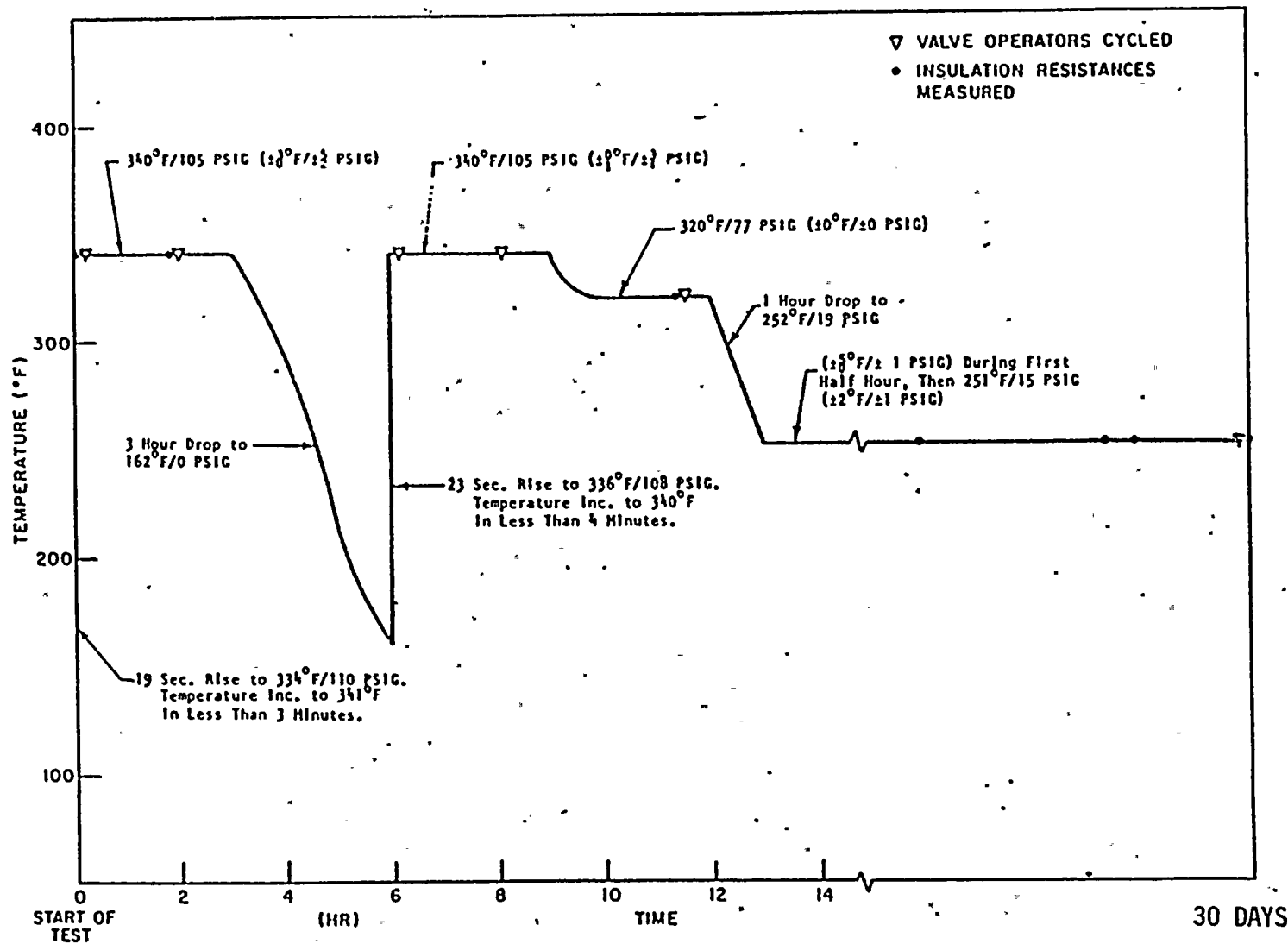
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

MPL:
PPD:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-MO-99A RHR-MO-99B MANUFACTURER Limitorque MODEL NUMBER SMB-000 COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RHR Valves LOCATION: BLDG C ELEVATION 510 COLUMN 95° + 270°	OPERATING TIME	4320 hours	Equivalent to 4320 hours	5	2, 3	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	135 normal 150 maximum abnormal Accident - profile 1	See enclosed profile	1	2	Simultaneous Test	None
	PRESSURE (PSIA)	16.7 normal Accident - Profile 1	See enclosed profile	1	2	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	50 normal 90 maximum abnormal 100 Accident	100	1	2	Simultaneous Test	None
	CHEMICAL SPRAY	Demineralized water	Chemical spray with pH 10	1	4	Simultaneous Test	None
	RADIATION (RAD)	2.74×10^7	2.04×10^8	1	2	Sequential Test	None
	AGING	40 years	40+ years	1	2, 3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <i>Raymond Chiu</i> Reviewed by: <i>M. P. Robinson</i>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report 600376A, 5-13-76 3. E/IC 02-80-04-0 4. Limitorque Report 600456, 12-9-75, Section C Appendix c. 5. WNP-2 Class 1E Equipment List, 12/16/81				1. Qualified			



F-C3441

Figure 3. Actual Steam Exposure Profile

LIMITORQUE TEST REPORT 600376A





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2802-02

MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PIS-22A RHR-PIS-22C MANUFACTURER Robert Shaw MODEL NUMBER COMPONENT Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 503 COLUMN J0/9.4 H8/9.3	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.6 x 10 ⁵		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. H.</u> Reviewed by: <u>M. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501B, K				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			





EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PIS-22B MANUFACTURER Static-O-Ring MODEL NUMBER 5N-AA3-X10511 COMPONENT Pressure Indicating Switch FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 503 COLUMN J.0/9.4	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	7.8 x 10 ⁴		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond Pk</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501K				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02E12

MPL:
PPD:

WASHINGTON PUBLIC SUPPLY SYSTEM

EQUIPMENT QUALIFICATION REPORT

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PS-16 A-C MANUFACTURER Static-O-Ring MODEL NUMBER 5N-AA3-X105TT COMPONENT Pressure Switch FUNCTION/SERVICE LPCI Permissive Pump Pressure Switch LOCATION: BLDG R ELEVATION 501 COLUMN See Note 2	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.63×10^5	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501B 4. EDS Calculation file 0740-006-006 5. Viking Lab. Inc. Test letter Report #30203-2 dated 11/20/73. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1..A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <u>Taq#</u> <u>Column</u> <u>RHR-MS-16A</u> <u>J 3/3.6</u> <u>RHR-MS-16B-C</u> <u>H8/9.3</u>			



OWNER: WPPSS
FACILITY: WNP-2
SPEC:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

PAGE NO:
REVISION:
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MPL:
PPD:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PS-18 MANUFACTURER Static-O-Ring MODEL NUMBER COMPONENT Pressure Switch FUNCTION/SERVICE Pressure Switch Shutdown Cooling LOCATION: BLDG R ELEVATION 501 COLUMN H.8/7.9	OPERATING TIME	6 months	6 months	1	4, 5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.3×10^6	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2	N/A	Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chis</u> Reviewed by: <u>Alan Seiber</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 2. FSAR Par. 3.11 3. EDS Study 0740-004-501M 4. EDS Calculation File 0740-006-006 5. Viking Lab., Inc. Test Letter Report 30203-2, 11/20/73				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			





OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PS-19 A-C MANUFACTURER Static-O-Ring MODEL NUMBER 5N-AA3-X105TT COMPONENT Pressure Switch FUNCTION/SERVICE LPCI Permissive Pump Pressure Switch LOCATION: BLDG R ELEVATION 501 COLUMN See Note 2	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.63×10^5	8.33×10^5	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 11/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-501B 4. EDS Calculation file 0740-006-006 5. Viking Lab. Inc. Test letter Report #30203-2 dated 11/20/73. Steam testing of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <u>Tag #</u> <u>Column</u> RHR-MS-19A J5/3.6 RHR-MS-19 B-C H8/9.4			

WP-1001



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

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PPD:

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REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Residual Heat Removal TAG NUMBER RHR-PT-26A,B RHR-PT-28 MANUFACTURER Robertshaw MODEL NUMBER 613B COMPONENT Pressure Transmitter FUNCTION/SERVICE Pressure Transmitter RCIC Loop A,B,A LOCATION: BLDG R ELEVATION 501 COLUMN J5/3.7 J/9.3 J/9.3	OPERATING TIME	6 months		1			Note 1
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident		2			
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	4.6×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 4/5/82</u> Reviewed by: <u>JDM 1/6/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-501B				1. Qualification documentation is being obtained from the vendor.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-215

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-SV-182 -60A -60B MANUFACTURER Marotta MODEL NUMBER MV36RP-H3 COMPONENT Solenoid Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN L/9, N/8.3, K/8.3	OPERATING TIME	4320 hours		3			Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40-70 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	3.1×10^6		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Aim Serber</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548J 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. Currently being qualified by Contract 0607, Work Release 004 with Kyle Lab.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

MPL:
PPD:

PAGE NO:
REVISION:
DATE:

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-TE-27A, <B MANUFACTURER California Alloy MODEL NUMBER COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 565, 548 COLUMN K/8	OPERATING TIME	6 months	Note 1	1	N/A	N/A	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	Note 1	2	N/A	N/A	None
	PRESSURE (PSIA)	14.7	Note 1	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	Note 1	2	N/A	N/A	None
	CHEMICAL SPRAY	N/A	Note 1	2	N/A	N/A	None
	RADIATION (RAD)	3.4×10^6	Note 1	3	N/A	N/A	None
	AGING	40 years	Note 1	2	N/A	N/A	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548 (worse case)				1. No test data is available from vendor. Alternate qualification methods are being developed.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Residual Heat Removal TAG NUMBER RHR-TE-4A RHR-TE-4B RHR-TE-5A RHR-TE-5B MANUFACTURER G.E. MODEL NUMBER COMPONENT Temperature Element FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572, 560 COLUMN L.0/8.3	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY			2			None
	RADIATION (RAD)	1.2 x 10 ⁶		3			None
	AGING	40 years		2			None
	ACCURACY						None
		N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Chi</u> Reviewed by: <u>M. J. Brown</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-548L and 572J				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-LMS-10, 11 MANUFACTURER Hamco MODEL NUMBER 70050100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for Air Dampers LOCATION: BLDG R ELEVATION 542 COLUMN H.7/8.1	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	45 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.7×10^4		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <i>Raymond Chin</i> Reviewed by: <i>M. S. Robinson</i>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-522D, K 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Hamco Limit Switch EA-740 which is qualified to IEEE 323-74 and IEEE-75. (Ref. 4).			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-LMS-12 MANUFACTURER Namco MODEL NUMBER 70050100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for Air Dampers LOCATION: BLDG R ELEVATION 480 COLUMN J0/83	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	45 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	3.2×10^3		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-471H 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch EA-740 which is qualified to IEEE 323-74 and IEEE-75. (Ref. 4).			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-LHS-13, 14 MANUFACTURER Namco MODEL NUMBER 70050100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for Air Dampers LOCATION: BLDG R ELEVATION 591 COLUMN M.5/6.0 M.9/7.4	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	45 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.4×10^4		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-572D, H 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch 740 which is qualified to IEEE 323-74 and IEEE 344-75. (Ref. 4).			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-LMS-15, 17 MANUFACTURER Namco MODEL NUMBER 70050100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for Air Dampers LOCATION: BLDG R ELEVATION 563 COLUMN M.8/4.6 M 8/4.2	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	45 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	9.9×10^3		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. J. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-548C 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch 740 which is qualified to IEEE 323-74 and IEEE-75. (Ref. 4).			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-LMS-19 MANUFACTURER Namco MODEL NUMBER 70050100 COMPONENT Limit Switch FUNCTION/SERVICE Limit Switch for Air Dampers LOCATION: BLDG R ELEVATION 548 COLUMN L.0/4.0	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 maximum normal 104 maximum abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	45 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.0×10^5		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES <input type="checkbox"/> NO <input type="checkbox"/>	Prepared by: <u>Raymond P. Chi</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-548K 4. WPPSS Letter GE-02-JLS-81-021				1. These limit switches are being replaced by Namco Limit Switch EA-740 which is qualified to IEEE 323-74 and IEEE-75. (Ref. 4).			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Outside Air TAG NUMBER ROA-RLY-CR1A -CR200 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548, 522 COLUMN M.8/6.0, N.0/8.3	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.3 x 10 ⁵		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laguarda</u> Reviewed by: <u>Mal Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522H, 548G				1. These components are on order. The qualification documentation will be reviewed when it is received.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-10 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE DIV 11 MCC Room Damper ROA-AD-10 LOCATION: BLDG R ELEVATION 522 COLUMN M6/4	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.66 x 10 ⁴	4.4 x 10 ⁶	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>J. S. Nelson</u> Reviewed by: <u>W.E. Farsone 6-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 1740-004-522D 3. Calculations in QID 315004 4. E/I-02-91-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-100 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 8316 E35F COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE ROA-V-1 Solenoid Pilot Valve LOCATION: BLDG R ELEVATION 548 COLUMN M8/5.7	OPERATING TIME	4320 Hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.6×10^3	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>S. J. Robinson</u> Reviewed by: <u>W. E. Farnham 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548 G 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-11 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Div 1 MCC Room Damper ROA-AD-11 LOCATION: BLDG R ELEVATION 522 COLUMN H4/8.3	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	2.4×10^4	4.4×10^6	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. S. Johnson</u> Reviewed by: <u>W.E. Farson 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-422K 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final Qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-12 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320 A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE DC MCC Room Damper ROA-AD-12 LOCATION: BLDG R ELEVATION 471 COLUMN H4/8	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.24 x 10 ³	4.4 x 10 ⁶	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>W.E. Faraone</u> Reviewed by: <u>W.E. Faraone 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-471H 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-13 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX8321A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE H ₂ Recomb. MCC Rm (Div 1) Damper ROA-AD-13 LOCATION: BLDG - R ELEVATION 575' COLUMN M4/5.7	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 150 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	5.4 x 10 ⁴	4.4 x 10 ⁶	2	3, 5	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>A. J. Schmitt</u> Reviewed by: <u>W. E. Farson</u> 1-11-82						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-572D 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a scheduled based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-14 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320 A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE H ₂ Recomb. MCC Room (Div II) Damper ROA-AD-14 LOCATION: BLDG R ELEVATION 572 COLUMN M8/7.8	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.8 x 10 ⁴	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>L.A. P. [Signature]</u> Reviewed by: <u>W.E. F. [Signature] 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 740-004-572H 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-15 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320A1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Solenoid Pilot Valve for Air Damper ROA-AD-15 LOCATION: BLDG R ELEVATION 548 COLUMN M4/4.3	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F.	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.9×10^3	4.4×10^6	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>H. L. Robinson</u> Reviewed by: <u>W.E. Farnome 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548C 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			





WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-216

MPL:
PPD:

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-17 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER HBX 8320A-1 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE Analyzer Room 1B Damper Solenoid Pilot Valve RDA-AD-17 LOCATION: BLDG R ELEVATION 548 COLUMN MA/4.4	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.9 x 10 ³	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>A. L. Robinson</u> Reviewed by: <u>W. E. Farnome 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-548C 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Outside Air TAG NUMBER ROA-SPV-200 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER WJHT 8316 E35F COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE ROA-V-2, Pilot Valve LOCATION: BLDG R ELEVATION 528 COLUMN N/8.2	OPERATING TIME	4320 Hours	Equivalent to >10,000 hours at 150°F	6	3, 4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	3, 4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY			1	N/A	N/A	None
	RADIATION (RAD)			2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV. ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. S. Robinson</u> Reviewed by: <u>W.E. Faraone 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522H 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02C72

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS										
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL												
SYSTEM Reactor Protection System TAG NUMBER RPS-PS-2A-D MANUFACTURER Static-O-Ring MODEL NUMBER 12N-AA5-X10TT COMPONENT Pressure Switch FUNCTION/SERVICE Drywell High Pressure LOCATION: BLDG R ELEVATION 522 COLUMN See Note 2	OPERATING TIME	1 Min.	1 Min.	1	4,5	Simultaneous Test and Engineering Analysis	None										
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	212	2	5	Simultaneous Test	None										
	PRESSURE (PSIA)	14.7	14.95	2	5	Simultaneous Test	None										
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	5	Simultaneous Test	None										
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None										
	RADIATION (RAD)	8.33×10^5	8.33×10^5	3	4	Engineering Analysis	None										
	AGING	40 years	Note 1	2		Preventive Maintenance	None										
	ACCURACY																
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>AN 1/5/82</u> Reviewed by: <u>JDM 1/6/82</u>																
DOCUMENTATION REFERENCES				NOTES													
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522H 4. EDS Calculation file 0740-006-006 5. Viking Lab. Inc. Test letter Report #30203-2 dated 11/20/73. Steam test of Static-O-Ring Pressure Switch, P/N 12N-AA4-TTX10.				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <table border="1"><thead><tr><th>Component</th><th>Column</th></tr></thead><tbody><tr><td>RPS-PS-2A</td><td>J5/7.1</td></tr><tr><td>RPS-PS-2B</td><td>M.8/6.6</td></tr><tr><td>RPS-PS-2C</td><td>N8/5.8</td></tr><tr><td>RPS-PS-2D</td><td>J8/4.8</td></tr></tbody></table>				Component	Column	RPS-PS-2A	J5/7.1	RPS-PS-2B	M.8/6.6	RPS-PS-2C	N8/5.8	RPS-PS-2D	J8/4.8
Component	Column																
RPS-PS-2A	J5/7.1																
RPS-PS-2B	M.8/6.6																
RPS-PS-2C	N8/5.8																
RPS-PS-2D	J8/4.8																

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-02C72

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Protection System TAG NUMBER RPS-PS-4 MANUFACTURER Barton MODEL NUMBER 288A COMPONENT Pressure Switch FUNCTION/SERVICE Primary containment high pressure LOCATION: BLDG R ELEVATION 522 COLUMN J.5/7.2	OPERATING TIME	.017 hours	6 hours	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	212	2	5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	5	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	2.4×10^4	3×10^6	3	4	Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-522K 4. EDS Calculation File 0740-006-002 5. Qualification Test Report for Barton 288 Switch, Report #QSR-027-01, dated 10/2/80				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Return Air TAG NUMBER RRA-M-1,10 MANUFACTURER Westinghouse MODEL NUMBER SBFC, FBFC COMPONENT Motors FUNCTION/SERVICE 3hp motors for RRA-FC-1 ⁺ , 10 ⁺ LOCATION: BLDG R ELEVATION 445,522 COLUMN H 7/4.3 N3/3.8	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/9/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-441J 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Elec. Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Return Air TAG NUMBER RRA-M-11,12 MANUFACTURER Westinghouse MODEL NUMBER FBFC,TBAN COMPONENT Motor FUNCTION/SERVICE (Note 2) LOCATION: BLDG R ELEVATION (Note 2) COLUMN (Note 2)	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 108 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.5×10^3	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: JDM 1/7/82 Reviewed by: AL 1/7/82						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-522N 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Electric Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. Tag Numbers Function/Service Elev. Column RRA-M-11 3hp motor for RRA-FC-11+ 522 H5/8 RRA-M-12 5hp motor for RRA-FC-12+ 490 H 6/7.8 3. These components are located in a mild environment; however, they are qualified to the harsh environment conditions listed here.			



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Building Return Air TAG NUMBER RRA-M-13, 14 MANUFACTURER Westinghouse MODEL NUMBER TBAN/7905-01-003 COMPONENT Motor FUNCTION/SERVICE 3hp motors for RRA-FC-13+,14+ LOCATION: BLDG R ELEVATION 585 COLUMN M 3/6.1 M 7/8.0	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	5.4×10^4	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-572D 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, M Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Elec. Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Return Air TAG NUMBER RRA-M-15,17 MANUFACTURER Westinghouse MODEL NUMBER TBAN COMPONENT Motor FUNCTION/SERVICE 3hp motor for RRA-FC-15+, -17+ LOCATION: BLDG R ELEVATION 548 COLUMN HS/4.5 HS/4.7	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 107 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	1.7×10^4	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None
	AGING	40 years	Note 1	2		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YESX NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>AN 1/7/82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report #0740-004-548P 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Electric Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. These components are located in a mild environment; however, they are qualified to the harsh environment conditions listed here.			



WASHINGTON PUBLIC SUPPLY SYSTEM
EQUIPMENT QUALIFICATION REPORT



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS												
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL														
SYSTEM Reactor Building Return Air TAG NUMBER RRA-M-4,5,6 MANUFACTURER Westinghouse MODEL NUMBER TBFC COMPONENT Motor FUNCTION/SERVICE (Note 2) LOCATION: BLDG R ELEVATION 445 COLUMN (Note 2)	OPERATING TIME	24 hours	24 hours	1	4,5	Simultaneous Test and Engineering Analysis	None												
	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None												
	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None												
	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None												
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None												
	RADIATION (RAD)	4.0×10^6	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None												
	AGING	40 years	Note 1	2		Preventive Maintenance	None												
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None												
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>JDM 1/7/82</u> Reviewed by: <u>Ad 1/7/82</u>																		
DOCUMENTATION REFERENCES				NOTES															
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. FDS Report 0740-004-441I 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Unit #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Electric Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <table border="1"><thead><tr><th>Tag Number</th><th>Function/Service</th><th>Column</th></tr></thead><tbody><tr><td>RRA-M-4</td><td>10hp motor for RRA-FC-4+</td><td>H 5/4.1</td></tr><tr><td>RRA-M-5</td><td>5hp motor for RRA-FC-5+</td><td>K7/3.7</td></tr><tr><td>RRA-M-6</td><td>2hp motor for RRA-FC-6+</td><td>H 7/7.7</td></tr></tbody></table>				Tag Number	Function/Service	Column	RRA-M-4	10hp motor for RRA-FC-4+	H 5/4.1	RRA-M-5	5hp motor for RRA-FC-5+	K7/3.7	RRA-M-6	2hp motor for RRA-FC-6+	H 7/7.7
Tag Number	Function/Service	Column																	
RRA-M-4	10hp motor for RRA-FC-4+	H 5/4.1																	
RRA-M-5	5hp motor for RRA-FC-5+	K7/3.7																	
RRA-M-6	2hp motor for RRA-FC-6+	H 7/7.7																	

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EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS																									
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL																											
SYSTEM Reactor Building Return Air	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test and Engineering Analysis	None																									
TAG NUMBER RRA-M-19 RRA-M- 2 RRA-M-20 RRA-M- 3	TEMPERATURE (F)	90 Max Normal 104 Max Abnormal 150 Max Accident	484	2	4,5	Simultaneous Test and Engineering Analysis	None																									
MANUFACTURER Westinghouse	PRESSURE (PSIA)	14.7	14.7	2	4,5	Simultaneous Test and Engineering Analysis	None																									
MODEL NUMBER (Note 2)	RELATIVE HUMIDITY (%)	40 Normal 90 Abnormal 100 Accident	100	2	4,5	Simultaneous Test and Engineering Analysis	None																									
COMPONENT Motor	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None																									
FUNCTION/SERVICE (Note 2)	RADIATION (RAD)	1.7×10^6	1×10^8	3	4,5,6	Separate Effects and Engineering Analysis	None																									
	AGING	40 years	Note 1	2		Preventive Maintenance	None																									
LOCATION: BLDG R ELEVATION (Note 2) COLUMN (Note 2)	ACCURACY	N/A	N/A	N/A	N/A	N/A	None																									
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: JDM 1/7/82 Reviewed by: AJ 1/7/82																															
DOCUMENTATION REFERENCES				NOTES																												
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-441P 4. Letter from J.J. Courtin (W) dated 4/3/81 RE: Qualification, W Medium AC Motors in WPPSS Units #2, w/Enclosures 5. Letter from J.J. Courtin (W) dated 7/7/81 RE: Elec. Motor Qualification at WPPSS Plant, w/Enclosures 6. EPRI Report #RP-1707-3				Qualified 1. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment. 2. <table border="1"><thead><tr><th>Tag Number</th><th>Model Number</th><th>Function/Service</th><th>Elev.</th><th>Column</th></tr></thead><tbody><tr><td>RRA-M-19</td><td></td><td></td><td>585</td><td>L10/8.4</td></tr><tr><td>- 2</td><td>SBFC</td><td>3hp motor for RRA-FC-2+</td><td>445</td><td>L0/8.3</td></tr><tr><td>-20</td><td></td><td></td><td>585</td><td>L8/8.4</td></tr><tr><td>- 3</td><td>TBFC</td><td>3hp motor for RRA-FC-3+</td><td>445</td><td>M/8.3</td></tr></tbody></table>				Tag Number	Model Number	Function/Service	Elev.	Column	RRA-M-19			585	L10/8.4	- 2	SBFC	3hp motor for RRA-FC-2+	445	L0/8.3	-20			585	L8/8.4	- 3	TBFC	3hp motor for RRA-FC-3+	445	M/8.3
Tag Number	Model Number	Function/Service	Elev.	Column																												
RRA-M-19			585	L10/8.4																												
- 2	SBFC	3hp motor for RRA-FC-2+	445	L0/8.3																												
-20			585	L8/8.4																												
- 3	TBFC	3hp motor for RRA-FC-3+	445	M/8.3																												



EQUIPMENT QUALIFICATION REPORT

OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-218MPL:
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Building Return Air TAG NUMBER RRA-RMS-S1, S2, S3, -S4, S5, S6 MANUFACTURER General Electric MODEL NUMBER CR2940 COMPONENT Remote Manual Switch FUNCTION/SERVICE Local Control Switches LOCATION: BLDG R ELEVATION 444 COLUMN H8/4.3 H4/4.7 K2/8.2 K7/3.8 L8/8.2 H6/8	OPERATING TIME	6 months	Equivalent to 6 months at 150°F	3	4,5	Sequential Testing Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	267	1	4	Sequential Testing	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal 100 max accident		1			Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	4.0×10^6	1×10^6	2	4	Sequential Testing	Note 1
	AGING	40 years	Note 2	1	N/A	Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report 0740-004-441C, 444G, 444F, 444J 3. WNP-2 Class 1E Equipment List dated 12/16/81 4. General Electric Qualification Report for CR2940YC212B2 Indicating Light, CR2940YA202B1 Pushbutton, and CR2940YB202B1 Selector Switch to IEEE Standard 323-1974, January 29, 1974 5. QID No. 285002				1. These components are Use Code 2 and are, therefore, not required to perform an active safety function following an accident. However, failure modes must be evaluated to determine whether failure would be detrimental to plant safety. The evaluation is currently being performed. 2. A preventive maintenance/surveillance program is currently being developed to address aging of Class 1 equipment.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Circulation TAG NUMBER RRC-MO-16A, 16B MANUFACTURER Límitorque MODEL NUMBER SHC-04 COMPONENT Motor Operator FUNCTION/SERVICE 2 HP m.o. for valves RRC-V-16A, 16B LOCATION: BLDG R ELEVATION 504 COLUMN J.3/7.4	OPERATING TIME	.017	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	7.8×10^4		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>31 d. d. d.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-501K				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Recirculation System TAG NUMBER RRC-MO-23A, B MANUFACTURER Limatorque MODEL NUMBER SMB-2-25 COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 510 COLUMN 160 D AZ R17	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal accident--see profile 1		2			None
	PRESSURE (PSIA)	14.7 normal 16.7 max. abnormal accident--see profile 1		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.4 x 10 ⁷		2			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chis</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Recirculation TAG NUMBER RRC-MO-67A MANUFACTURER Limatorque MODEL NUMBER SMB-3-60 COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 514 COLUMN 102 D AZ R20	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal accident--see profile 1		2			None
	PRESSURE (PSIA)	14.7 normal 16.7 max. abnormal accident--see profile 1		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.4 x 10 ⁷		2			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chin</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Recirculation TAG NUMBER RRC-MO-67B MANUFACTURER Limatorque MODEL NUMBER SMB-3-60 COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG C ELEVATION 514 COLUMN, 275 D AZ R20	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal accident--see profile 1		2			None
	PRESSURE (PSIA)	14.7 normal 16.7 max. abnormal accident--see profile 1		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.4 x 10 ⁷		2			
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Raymond Chir</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor Recirculation TAG NUMBER RRC-POS-19, 20 MANUFACTURER MODEL NUMBER COMPONENT Position Switch FUNCTION/SERVICE LOCATION: BLDG C, R ELEVATION 506, 522 COLUMN AZ 319, J/6.7	OPERATING TIME	.017 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	Demineralized water spray		2			
	RADIATION (RAD)	4.4 x 10 ⁷		3, 2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Laymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-5220				1. These components are on order. The qualification documentation will be revealed when it is received.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Recirculation Cooling TAG NUMBER RRC-SV-19, 20 MANUFACTURER MODEL NUMBER COMPONENT Solenoid Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION R COLUMN J/6.7	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.7 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laymond Phil</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-5220				1. These components are on order. The qualification documentation will be reviewed when it is received.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Water Cleanup TAG NUMBER RHCW-FT-36 RHCW-FT-37 RHCW-FT-41 MANUFACTURER G.E. MODEL NUMBER 555111BMAA4NDP COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 526, 471 COLUMN J/7.6 N8/50	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)	4.5×10^5		3			None
	AGING	40 years		2			None
	ACCURACY	N/A					None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522K and 471B				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Reactor water clean-up TAG NUMBER RMCU-MO-1 MANUFACTURER Limitorque MODEL NUMBER SMB-0-25-R56 COMPONENT Motor Operator - Reliance, RI insulation FUNCTION/SERVICE Operates Containment Isolation valve LOCATION: BLDG C ELEVATION 540 COLUMN 150 Degrees	OPERATING TIME	24 hours	30 days	4	3	Simultaneous Test	None
	TEMPERATURE (F)	135 max. normal 150 max. abnormal accident: see profile 1	See enclosed profile			Simultaneous Test	
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal accident: see profile 1	See enclosed profile	1	3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident	100	1	3	Simultaneous Test	None
	CHEMICAL SPRAY	Deminerlized water	Chemical spray pH 10	1	3	Simultaneous Test	None
	RADIATION (RAD)	2.74×10^7	2.04×10^8	1	3	Sequential Test	None
	AGING	40 years	40 years	1	2, 3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Shi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limitorque Report B0058 3. Limitorque Report B600367A 4. WNP-2 Class 1E Equipment List, 12/16/81				Qualified			

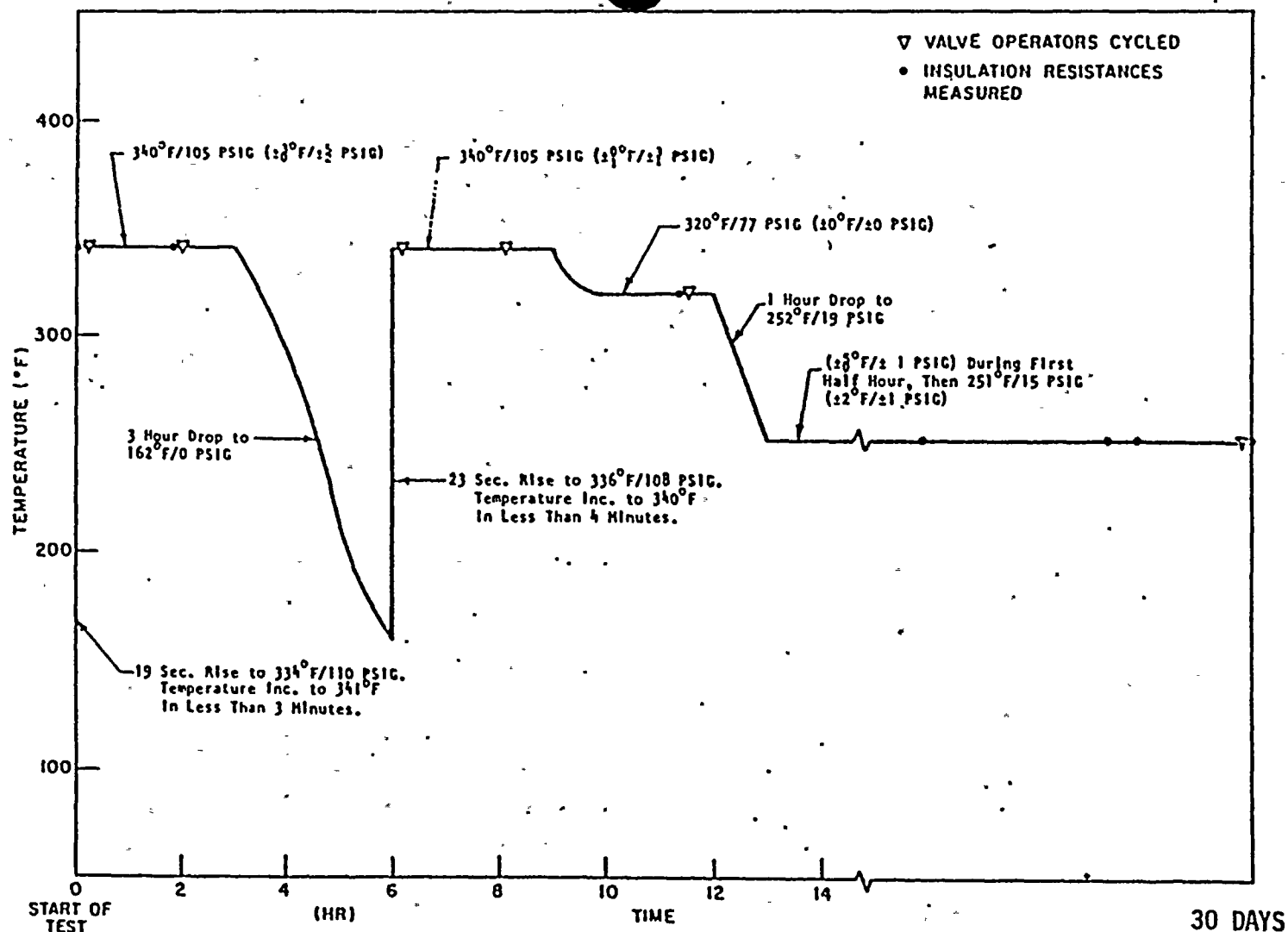


Figure 3. Actual Steam Exposure Profile.

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Water Clean Up TAG NUMBER RWCU-MO-4 MANUFACTURER Limitorque MODEL NUMBER SMB-0-25/DK56H COMPONENT Valve Motor Operator FUNCTION/SERVICE Operate RWCU Valve 4 LOCATION: BLDG R ELEVATION 522 COLUMN M7/5	OPERATING TIME	24 hours	Equivalent of 52284 hours at 150°F	5	3,4	Simultaneous Testing Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal Accident: See profile 15	See enclosed profile	1	3	Simultaneous Testing	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal Accident: See profile 15	100%	1	3	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	8.4×10^5	1×10^7	2	3	Sequential Testing	None
	AGING	40 years	40 years	1	3,4	Sequential Testing Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch.</u> Reviewed by: <u>M. J. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 074-004-522F 3. Limitorque Report B0009, 4/30/76 4. Applicability calculations in Q10221011 5. WNP-2 Class 1E Equipment List, 12/16/81				Qualified.			

FIGURE 1 TEMPERATURE PROFILE ENVIRONMENTAL TEST

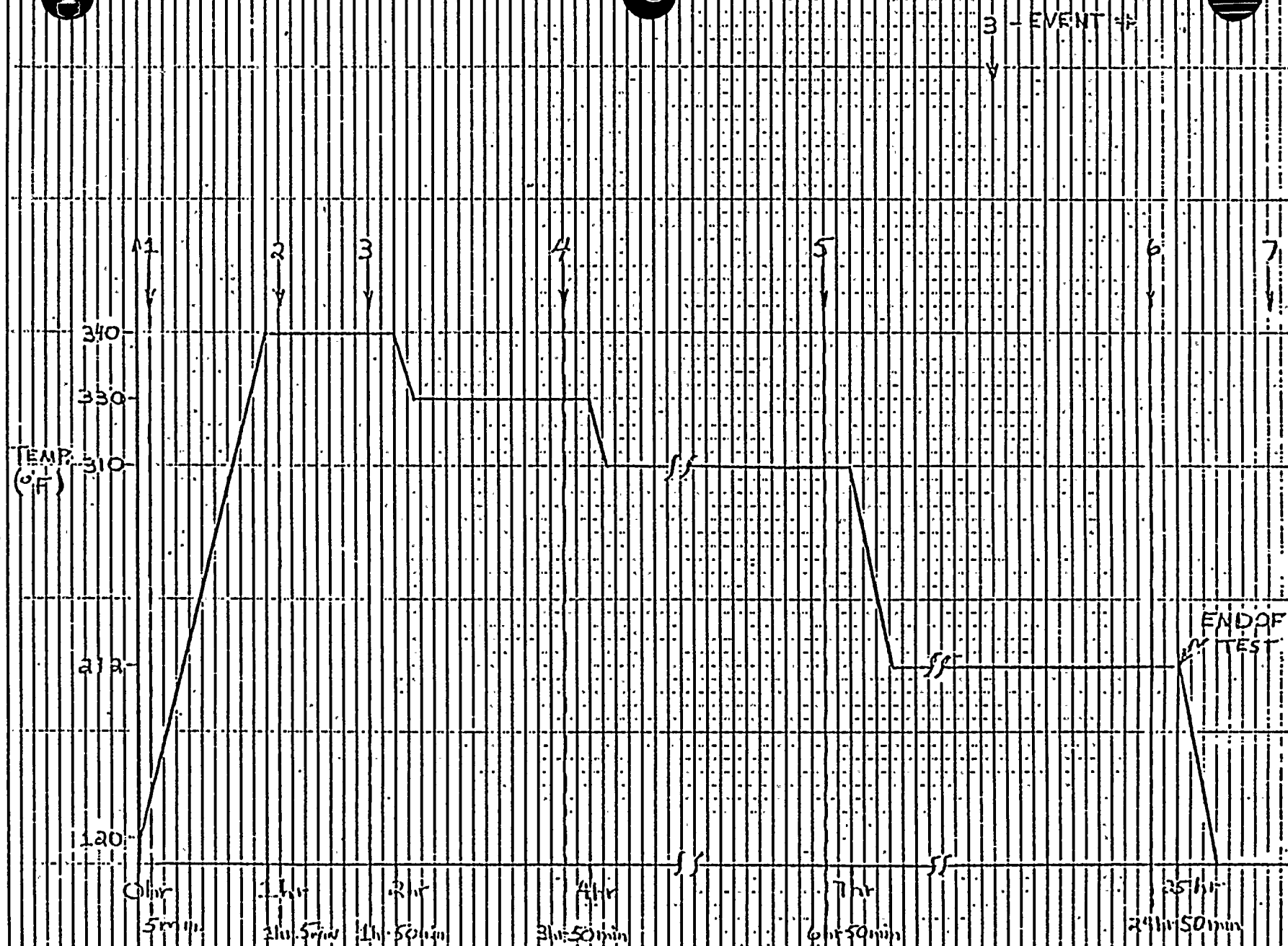


FIGURE 1



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Reactor Water Clean Up TAG NUMBER RMCU-MO- 40 MANUFACTURER Limatorque MODEL NUMBER SMB COMPONENT Motor Operator Reliance, RH Insulation FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 515 COLUMN H6/5.1	OPERATING TIME	6 months	Equivalent to 6 months at 150°F	4	2,3	Sequential Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal Accident--profile 13	See enclosed profile	1	2,3	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	See enclosed profile	1	2,3	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 max normal 90 max abnormal Accident--profile 13	100	1	2,3	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/R	1		N/A	None
	RADIATION (RAD)	2.6×10^6	2.04×10^8	5	2,3	Sequential Test	None
	AGING	40 years	40 years	1	2,3	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	1	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Limatorque Report B0058 3. Limatorque Report B600376A 4. WNP-2 Class 1E Equipment List dated 12/16/81 5. EDS Study 0740-004-510S				Qualified			

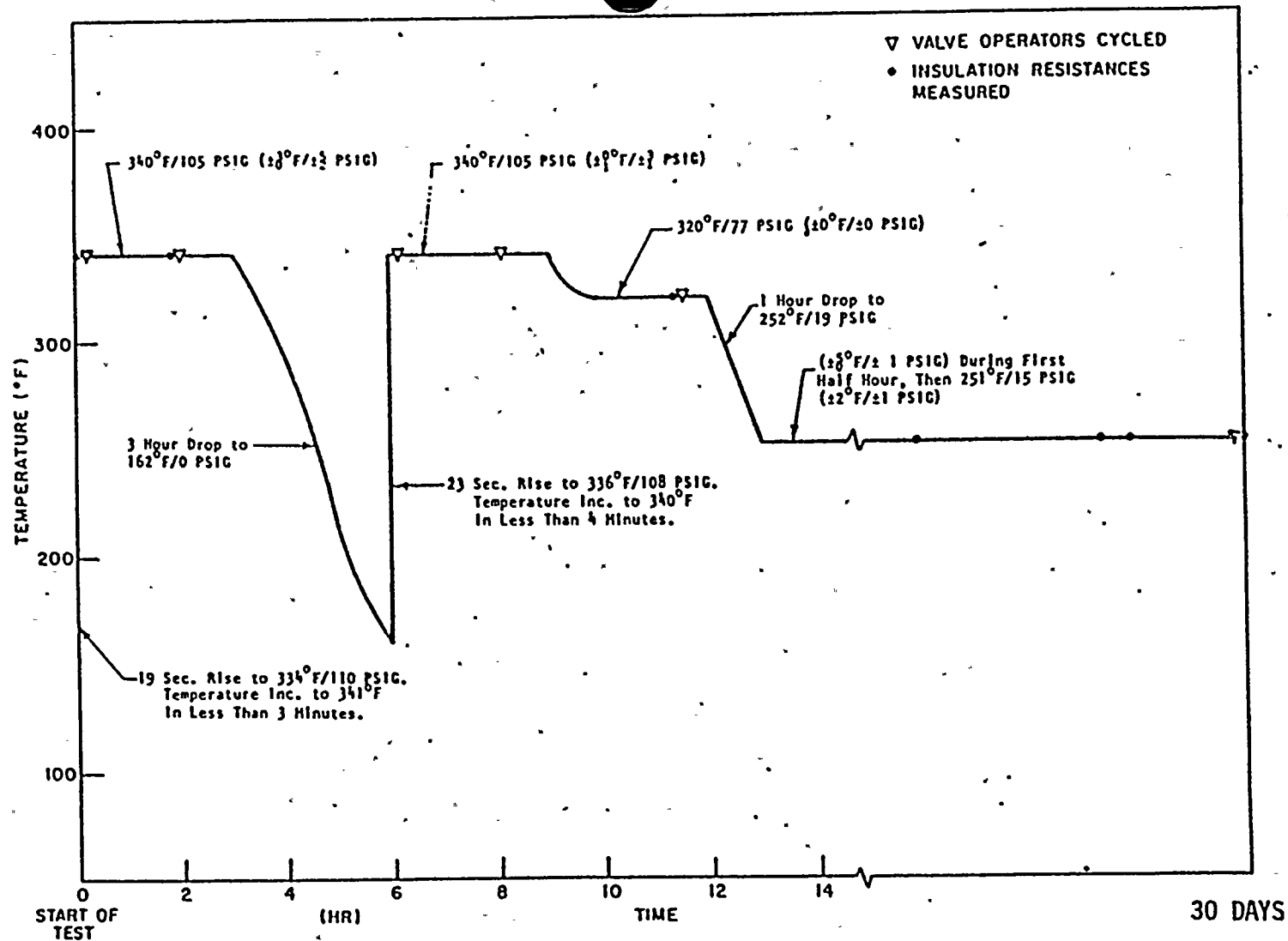


Figure 3. Actual Steam Exposure Profile

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Sampling TAG NUMBER S-SR-13, 14 MANUFACTURER MODEL NUMBER COMPONENT Sample rack FUNCTION/SERVICE Support sampling components LOCATION: BLDG R ELEVATION 548 COLUMN H.6/4.6	OPERATING TIME	6 months	Note 1	1	N/A	N/A	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	Note 1	2	N/A	N/A	None
	PRESSURE (PSIA)	14.7	Note 1	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	Note 1	2	N/A	N/A	None
	CHEMICAL SPRAY	N/A	Note 1	2	N/A	N/A	None
	RADIATION (RAD)	1.7×10^4	Note 1	3	N/A	N/A	None
	AGING	40 years	Note 1	2	N/A	N/A	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Olin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548F				Qualified. 1. The racks are metallic and are not subject to environmental degradation.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Sampling TAG NUMBER S-SR-42, 43 MANUFACTURER MODEL NUMBER COMPONENT Sample Rack FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN K.6/9.5 N.1/9.5	OPERATING TIME	6 months	N/R	1	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	2	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	2	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	2	N/A	Note 1	None
	RADIATION (RAD)	8.3×10^5	N/R	3	N/A	Note 1	None
	AGING	40 years	N/R	2	N/A	Note 1	None
	ACCURACY	N/A	N/R		N/A	Note 1	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522H, K				Qualified 1. The racks are metallic, and are not subject to environmental degradation.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-EHC-1A1, 1A2 -1B1, 1B2 MANUFACTURER Chromalox MODEL NUMBER 27-47499 COMPONENT Heater FUNCTION/SERVICE Limit Relative Humidity LOCATION: BLDG R ELEVATION 572 COLUMN H7/5.6, J.3/5.6	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	4,5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 80 max abnormal 100 max accident	100%	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	1.9×10^8	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	5	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Westinghouse Test Report WCAP 7709-L, Supplements 1-7 5. EDS Problem File #0740-004-AA04				Qualified.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-EH0-1A1 -1A2 -1B1 -1B2 MANUFACTURER ITT-General Controls MODEL NUMBER NH91 COMPONENT Electro-Hydraulic Operator FUNCTION/SERVICE Operate inlet vanes LOCATION: BLDG R ELEVATION 572 COLUMN J4/7.8 H6/7.8	OPERATING TIME	4320 hours	2400 hours	5	3	Simultaneous Test	Note 1
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	150	1	3	Simultaneous Test	Note 1
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal max.. accident	100	1	3	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.41 x 10 ⁶	3.9 x 10 ⁷	2	3	Sequential Test	Note 1
	AGING	40 years	10.6 years	1	3,4	Sequential Test Engineering Analysis	Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared By: <u>Chris Jenkins</u> Reviewed By: <u>M. P. [Signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study #0740-004-572N 3. MCC Powers #377-80.010 with Appendices A through D 4. Calculation QID 110001 5. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Applicability of the test data and discrepancies in the testing procedures are being resolved with the vendor (letter G02-81-0531). 2. The component will be requalified on a schedule based on the calculated qualified life and manufacturers' recommendations.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-220

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-FS-2A2 -2B1 MANUFACTURER MODEL NUMBER COMPONENT Flow Switch FUNCTION/SERVICE SGT-FN-1A-1, 1B-2, discharge LOCATION: BLDG R ELEVATION 572 COLUMN H.9/7.8	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	9.4 x 10 ⁶		3			
	AGING	40 years					
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chiu</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 572N				1. These components are on order. The qualification documentation will be revealed when it is received.			



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-FT-1A1, 1A2, 1B1, 1B2 MANUFACTURER Rosemount MODEL NUMBER 1151DP3022MBGE01 COMPONENT Flow Transmitter FUNCTION/SERVICE Transmit Fan Flow Signal for Associated SGT Fans LOCATION: BLDG R ELEVATION 585 COLUMN H8/7.1	OPERATING TIME	6 months	6 months	4	2,6	Engineering Analysis Separate Effects	None Note 1
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	300 max	1	2	Separate Effects	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	1	7	Separate Effects	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.4×10^6	2×10^6	5	3	Separate Effects	None
	AGING	40 years	Note 2	1	N/A	N/A	None
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Rosemount Report 97251A dated 2/9/72 3. Rosemount Report 127227 dated 12/27/72 4. WNP-2 Class 1E Equipment List dated 12/16/81 5. EDS Study 0740-004-572N 6. Rosemount Product Data Sheet 2256 7. Rosemount Report 117415 dated 9/19/75				Qualified 1. Test data and product specs data ensure the component will operate 6 months at the required temperatures. 2. A preventive maintenance/surveillance program is being developed to address aging in Class 1E equipment.			



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FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-LMS-2A, B MANUFACTURER Namco MODEL NUMBER 74080100 COMPONENT Limit Switches FUNCTION/SERVICE V-2A,B Position Indicator LOCATION: BLDG R ELEVATION 572 COLUMN J.3/5.5, J.4/5.2	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	340	2	4,5	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	1.9×10^8	2×10^8	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4,5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ch</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Qualification of NAMCO Controls Limit Switch Model EA-740 to IEEE Std. 344 (1975), 323 (1974) and 382 (1972), Rev. 1, dtd 2/22/79; Rev. 0, dtd 2/20/78 5. EDS Problem File #0740-004-AAD20, NAMCO LS				Qualified.			

OW: WPPSS
FACILITY: WNP-2
SPEC: 2808-28

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-M-1A1, 2 -1B1, 2 MANUFACTURER Westinghouse MODEL NUMBER Style No. 74D25012 COMPONENT Fan Motor FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 572 COLUMN H.8/7.6, J.5/7.6	OPERATING TIME	6 months	6 months	1	4,5	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	150	2	4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	2	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100	2	4	Simultaneous Test Engineering Analysis	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	N/A
	RADIATION (RAD)	9.4×10^6	9.4×10^6	3	5	Engineering Analysis	None
	AGING	40 years	40 years	2	5	Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>M. B. Baker</u> Reviewed by: <u>M. S. Arpison</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Letter from J. Courtin (Westinghouse) dated April 3, 1981, with attachments 5. EDS Problem File #0740-004-AAD10				Qualified.			

WPPSS

OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-MC-6A, B; -7A, B ME-6A, B; -7A, B MANUFACTURER Hygrometrix MODEL NUMBER XMA/C-103 COMPONENT Xeristat Moisture Control System FUNCTION/SERVICE Heater control to limit relative hum. LOCATION: BLDG R ELEVATION 572' COLUMN H.7-J.3/5.5, N.7/5.5	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9E08		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>[Signature]</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			

WPPSS



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS																																										
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.																																												
SYSTEM Standby Gas Treatment TAG NUMBER See Notes Below MANUFACTURER Limatorque MODEL NUMBER SMB-00-10/P56 COMPONENT Motor Operator FUNCTION/SERVICE Various Valve Operators Reliance, Class B Insulation LOCATION: BLDG R ELEVATION 572 COLUMN See Notes Below	OPERATING TIME	6 months	Equivalent to 6 months at 150°F	1	3	Sequential Test Engineering Analysis	None																																										
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	See enclosed profile	2	3	Simultaneous Test	None																																										
	PRESSURE (PSIA)	14.7	See enclosed profile	2	3	Simultaneous Test	None																																										
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	3	Simultaneous	None																																										
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None																																										
	RADIATION (RAD)	9.4×10^6	2×10^7	6	3	Sequential Test	None																																										
	AGING	40 years	40 years	2	3,5	Sequential Test	None																																										
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None																																										
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ellis</u> Reviewed by: <u>41 J. J. J. J.</u>																																																
DOCUMENTATION REFERENCES				NOTES																																													
1. WNP-2 Class 1E Equipment List dated 12/16/81 2. FSAR Par. 3.11 3. Limatorque Test Report B003 4. Limatorque Test Report B0058 5. EDS P.F. 0740-004-AAD5 6. EDS Report 0740-004-572N				Qualified <table border="1"> <thead> <tr> <th>Tag Number</th><th>Location</th><th>Tag Number</th><th>Location</th><th>Tag Number</th><th>Location</th></tr> </thead> <tbody> <tr> <td>SGT-MO-1A</td><td>J.3/5.5</td><td>SGT-MO-4A1</td><td>H.4/7.0</td><td>SGT-MO-5A1</td><td>H.4/7.0</td></tr> <tr> <td>-1B</td><td>J.4/5.2</td><td>-4A2</td><td>J.1/7.0</td><td>-5A2</td><td>H.9/7.0</td></tr> <tr> <td>-3A1</td><td>H.4/7.6</td><td>-4B1</td><td>H.8/7.0</td><td>-5B1</td><td>J.6/7.0</td></tr> <tr> <td>-3A2</td><td>H.6/7.6</td><td>-4B2</td><td>J.8/7.0</td><td>-5B2</td><td>H.0/6.0</td></tr> <tr> <td>-3B1</td><td>J.4/7.6</td><td></td><td></td><td></td><td></td></tr> <tr> <td>-3B2</td><td>J.6/7.6</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Tag Number	Location	Tag Number	Location	Tag Number	Location	SGT-MO-1A	J.3/5.5	SGT-MO-4A1	H.4/7.0	SGT-MO-5A1	H.4/7.0	-1B	J.4/5.2	-4A2	J.1/7.0	-5A2	H.9/7.0	-3A1	H.4/7.6	-4B1	H.8/7.0	-5B1	J.6/7.0	-3A2	H.6/7.6	-4B2	J.8/7.0	-5B2	H.0/6.0	-3B1	J.4/7.6					-3B2	J.6/7.6				
Tag Number	Location	Tag Number	Location	Tag Number	Location																																												
SGT-MO-1A	J.3/5.5	SGT-MO-4A1	H.4/7.0	SGT-MO-5A1	H.4/7.0																																												
-1B	J.4/5.2	-4A2	J.1/7.0	-5A2	H.9/7.0																																												
-3A1	H.4/7.6	-4B1	H.8/7.0	-5B1	J.6/7.0																																												
-3A2	H.6/7.6	-4B2	J.8/7.0	-5B2	H.0/6.0																																												
-3B1	J.4/7.6																																																
-3B2	J.6/7.6																																																

TEMPERATURE PROFILE

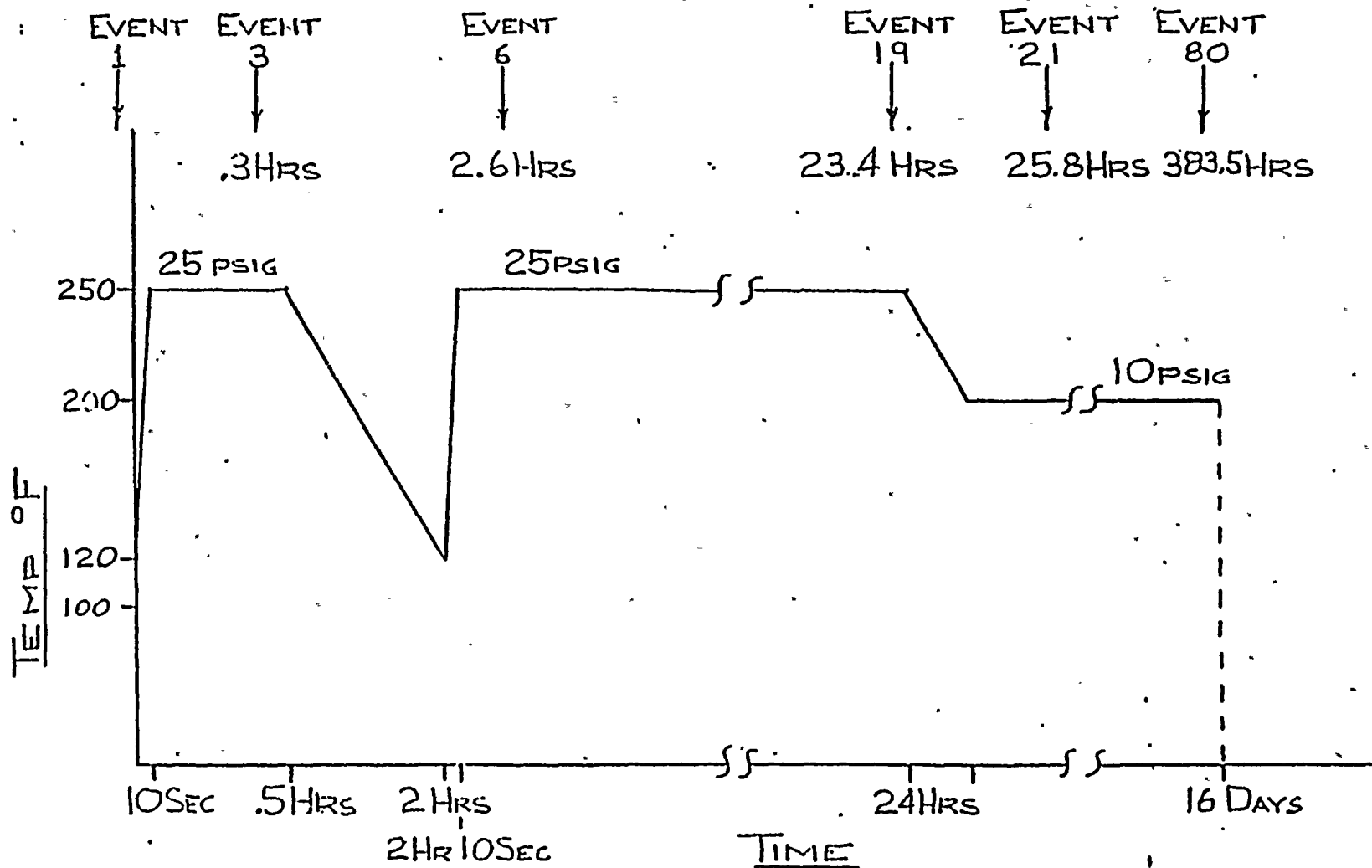


FIGURE 1

LIMITORQUE REPORT B0003





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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-PP-EHC/1A1 -EHC/1A2 -EHC/1B1 -EHC/1B2 MANUFACTURER MODEL NUMBER COMPONENT Power Panel FUNCTION/SERVICE Heater Control Box LOCATION: BLDG R ELEVATION 572 COLUMN M.0/6.0 M.0/8.3	OPERATING TIME	6 months	N/R	3	N/A	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	N/R	1	N/A	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	N/R	1	N/A	Note 1	None
	CHEMICAL SPRAY	N/A	N/R	1	N/A	Note 1	None
	RADIATION (RAD)	5.4×10^4	N/R	2	N/A	Note 1	None
	AGING	40 years	N/R	1	N/A	Note 1	None
	ACCURACY	N/A	N/R		N/A	Note 1	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-572D, H 3. WNP-2 Class 1E Equipment List dated 12/16/81				Qualified 1. The component is metallic and not subject to environmental degradation.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment System TAG NUMBER SGT-PS-EH1A11, EH1A21, EH1B11, EH1B21 MANUFACTURER Beckman Instruments, Inc. MODEL NUMBER A900-20C0EAA-20 COMPONENT Pressure Switch FUNCTION/SERVICE Controls for SGT-EHC-1A1, 1A2, 1B1, 1B2 LOCATION: BLDG R ELEVATION 572 COLUMN H.6/5.9 J.5/16.0 J.2/6.0	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9 x 10 ⁸		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u><i>Shirley B. Baker</i></u> Reviewed by: <u><i>Raymond Eli</i></u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class IE Equipment List, dated 12/16/81. 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers.				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-RLY-EH1A15, 16, 17, 21, 22, 23, 24, 25, 26, 27; SGT-RLY-EH1B11, 12, 13, 14, 15, 16, 17, 21, 22, 23, 24, 25, 26, MANUFACTURER Allen Bradley Company MODEL NUMBER 700N400A1, 700N600A1, 7004N800A1 COMPONENT Relay FUNCTION/SERVICE Control of heater SGT-EHC-1A1, 1A2, 1B1, 1B2 LOCATION: BLDG R ELEVATION 572 COLUMN M.0/6.0 M.0/8.2 M.0/5.8 M.0/8.0	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	5.4 x 10 ⁴		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Al Buh</u> Reviewed by: <u>Raymond Chi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-SPV-F1, F2, F3, F4, F5, F6 MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER 8211 D2M0 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE 1/2" S. O. Deluge Valve Assy SGT-DV-1B LOCATION: BLDG R ELEVATION 578 COLUMN H6/3.6	OPERATING TIME	4320 hours	Equivalent to >10,000 at 150°F.	6	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. normal 100 accident	Steam	1		Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.9 x 10 ⁵	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>W. E. Farnore</u> Reviewed by: <u>W. E. Farnore 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-572N (Target SGT-DV-1B2) 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-SPV-2A, 2B MANUFACTURER Automatic Switch (ASCO) MODEL NUMBER 8210 D2M0 COMPONENT Solenoid Pilot Valve FUNCTION/SERVICE SGT-V-2B LOCATION: BLDG R ELEVATION 578 COLUMN H6/3.6	OPERATING TIME	4320 hours	Equivalent to >10,000 hours at 150°.	6	4	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	310	1	4	Simultaneous Test Engineering Analysis	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 accident	Steam	1		Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.9 x 10 ⁵	4.4 x 10 ⁶	2	5, 3	Engineering Analysis	None
	AGING	40 years	7 years	1	4	Operating Experience Maintenance	None Note 2
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>M. P. Arbin</u> Reviewed by: <u>W. E. Faraone 1-11-82</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-572N 3. Calculations in QID 315004 4. E/I-02-81-04-0 (IE Bulletin 78-14) 5. REIC Report No. 21 (Battelle) 6. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Final qualification or further testing will be determined by verification of the actual time duration at 100% relative humidity. 2. The solenoid valves will be rebuilt on a schedule based on the 7-year qualified life.			



OWNER: WPPSS
FACILITY: WNP-2
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-TE-6A1, 6B1 7A1, 7B1 8A1, 8B1 MANUFACTURER Fenwal MODEL NUMBER 21110-0 COMPONENT Temperature Element FUNCTION/SERVICE Temperature Controllers LOCATION: BLDG R ELEVATION 572' COLUMN H8/5.5, J5/6	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9 x 10 ⁸		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Baker</u> Reviewed by: <u>Raymond Thi</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-TIS-1A1 -1A2 -1B1 -1B2 MANUFACTURER Fenwall MODEL NUMBER 21110-0 COMPONENT Temperature Switch FUNCTION/SERVICE Temperature Controls LOCATION: BLDG R ELEVATION 572 COLUMN H.8/5.5, I5/6	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9 x 10 ⁸		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Ohi</u> Reviewed by: <u>Alan Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-572N				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Gas Treatment TAG NUMBER See Note 2. MANUFACTURER Fenwal MODEL NUMBER 18000-0 COMPONENT Temperature switch FUNCTION/SERVICE Control of heater LOCATION: BLDG R ELEVATION 572' COLUMN H4/5.9	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9 x 10 ⁸		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>M. S. Johnson</u> Reviewed by: <u>M. S. Johnson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			



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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)																																																																																
	<p>2. <u>TAG NUMBERS</u></p> <table><tr><td>SGT-TS-EH1A10</td><td>SGT-TS-EH1B113</td></tr><tr><td>-EH1A11</td><td>-EH1B114</td></tr><tr><td>-EH1A111</td><td>-EH1B115</td></tr><tr><td>-EH1A112</td><td>-EH1B116</td></tr><tr><td>-EH1A113</td><td>-EH1B117</td></tr><tr><td>-EH1A114</td><td>-EH1B118</td></tr><tr><td>-EH1A115</td><td>-EH1B12</td></tr><tr><td>-EH1A116</td><td>-EH1B13</td></tr><tr><td>-EH1A117</td><td>-EH1B14</td></tr><tr><td>-EH1A118</td><td>-EH1B15</td></tr><tr><td>-EH1A12</td><td>-EH1B16</td></tr><tr><td>-EH1A13</td><td>-EH1B17</td></tr><tr><td>-EH1A14</td><td>-EH1B18</td></tr><tr><td>-EH1A15</td><td>-EH1B19</td></tr><tr><td>-EH1A16</td><td>-EH1B21</td></tr><tr><td>-EH1A17</td><td>-EH1B210</td></tr><tr><td>-EH1A18</td><td>-EH1B211</td></tr><tr><td>-EH1A19</td><td>-EH1B212</td></tr><tr><td>-EH1A21</td><td>-EH1B213</td></tr><tr><td>-EH1A210</td><td>-EH1B214</td></tr><tr><td>-EH1A211</td><td>-EH1B215</td></tr><tr><td>-EH1A212</td><td>-EH1B217</td></tr><tr><td>-EH1A213</td><td>-EH1B218</td></tr><tr><td>-EH1A214</td><td>-EH1B22</td></tr><tr><td>-EH1A215</td><td>-EH1B23</td></tr><tr><td>-EH1A216</td><td>-EH1B24</td></tr><tr><td>-EH1A217</td><td>-EH1B25</td></tr><tr><td>-EH1A218</td><td>-EH1B26</td></tr><tr><td>-EH1A22</td><td>-EH1B27</td></tr><tr><td>-EH1A23</td><td>-EH1B28</td></tr><tr><td>-EH1A24</td><td>-EH1B29</td></tr><tr><td>-EH1A25</td><td></td></tr><tr><td>-EH1A26</td><td></td></tr><tr><td>-EH1A27</td><td></td></tr><tr><td>-EH1A28</td><td></td></tr><tr><td>-EH1A29</td><td></td></tr><tr><td>-EH1B10</td><td></td></tr><tr><td>-EH1B11</td><td></td></tr><tr><td>-EH1B111</td><td></td></tr><tr><td>-EH1B112</td><td></td></tr></table>	SGT-TS-EH1A10	SGT-TS-EH1B113	-EH1A11	-EH1B114	-EH1A111	-EH1B115	-EH1A112	-EH1B116	-EH1A113	-EH1B117	-EH1A114	-EH1B118	-EH1A115	-EH1B12	-EH1A116	-EH1B13	-EH1A117	-EH1B14	-EH1A118	-EH1B15	-EH1A12	-EH1B16	-EH1A13	-EH1B17	-EH1A14	-EH1B18	-EH1A15	-EH1B19	-EH1A16	-EH1B21	-EH1A17	-EH1B210	-EH1A18	-EH1B211	-EH1A19	-EH1B212	-EH1A21	-EH1B213	-EH1A210	-EH1B214	-EH1A211	-EH1B215	-EH1A212	-EH1B217	-EH1A213	-EH1B218	-EH1A214	-EH1B22	-EH1A215	-EH1B23	-EH1A216	-EH1B24	-EH1A217	-EH1B25	-EH1A218	-EH1B26	-EH1A22	-EH1B27	-EH1A23	-EH1B28	-EH1A24	-EH1B29	-EH1A25		-EH1A26		-EH1A27		-EH1A28		-EH1A29		-EH1B10		-EH1B11		-EH1B111		-EH1B112	
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Gas Treatment TAG NUMBER SGT-TS-6A1 6B1 7A1 7B1 8A1 8B1 MANUFACTURER Kidde, Walter & Company MODEL NUMBER CSD-3 (A) COMPONENT Temperature Switch FUNCTION/SERVICE Carbon bed air high temperature alarm for associated SGT carbon filters LOCATION: BLDG R ELEVATION 572' COLUMN H8/5.5 J4/5.5 H8/6.8	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 max. normal 90 max. abnormal 100 max. accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	1.9 x 10 ⁸		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>McGill</u> Reviewed by: <u>Raymond Ch.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-572N 4. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			

WPPSS

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-EHC 2, 3 MANUFACTURER General Electric MODEL NUMBER 2D433G3 COMPONENT Electric Heating Coil FUNCTION/SERVICE Heaters for SLC-TK-2 LOCATION: BLDG R ELEVATION 548 COLUMN H.5/3.8	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	H/A		2			
	RADIATION (RAD)	9.9 x 10 ³		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548C				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			

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OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Liquid Control TAG NUMBER SLC-M1A, B. MANUFACTURER G.E. MODEL NUMBER 5K324AK2120/324T COMPONENT Electric Motor FUNCTION/SERVICE Drive SLC Pumps LOCATION: BLDG R ELEVATION 548 COLUMN M2/3.7, M2/3.8	OPERATING TIME	24 hours		3			Note 1
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	150	1			Note 1
	PRESSURE (PSIA)	14.7	R/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident	100	1			Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.9×10^3	Note 2	2			None
	AGING	40 years	Note 3	N/A		Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Report 0740-0040548C 3. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Similar motors have been tested to more severe conditions. A detailed comparison is being made to confirm applicability of the test date. 2. Post accident Rad levels are below 1×10^4 ; therefore, the motors are located in a mild environment for this service condition. No further qualification for radiation is necessary. 3. A preventive maintenance/surveillance program is being developed to address aging of Class 1 equipment.			

OWNERS: WPPSS
FACILITY: WNP-2
SPEC: 2808-41B

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-M0-1A, 1B MANUFACTURER Limatorque MODEL NUMBER SMB-000-5/K48 COMPONENT - Motor Operator Motor: Reliance Insulation: Class B FUNCTION/SERVICE .33 HP .95A Motor Operator SLC-V-1A, B LOCATION: BLDG R ELEVATION 552 COLUMN M.7/3.6	OPERATING TIME	24 hours	16 days	1	4	Simultaneous Test	None
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident	see enclosed profile	2	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	see enclosed profile	2	4	Simultaneous Test	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	100	2	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	2	4	N/A	None
	RADIATION (RAD)	9.9×10^3	2×10^7	3	4	Sequential Test	None
	AGING	40 years	40 years	2	4, 5	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mr. P. P. P. P. P.</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548C 4. Limatorque Test Report B0003 5. QID 221011				Qualified			

TEMPERATURE PROFILE

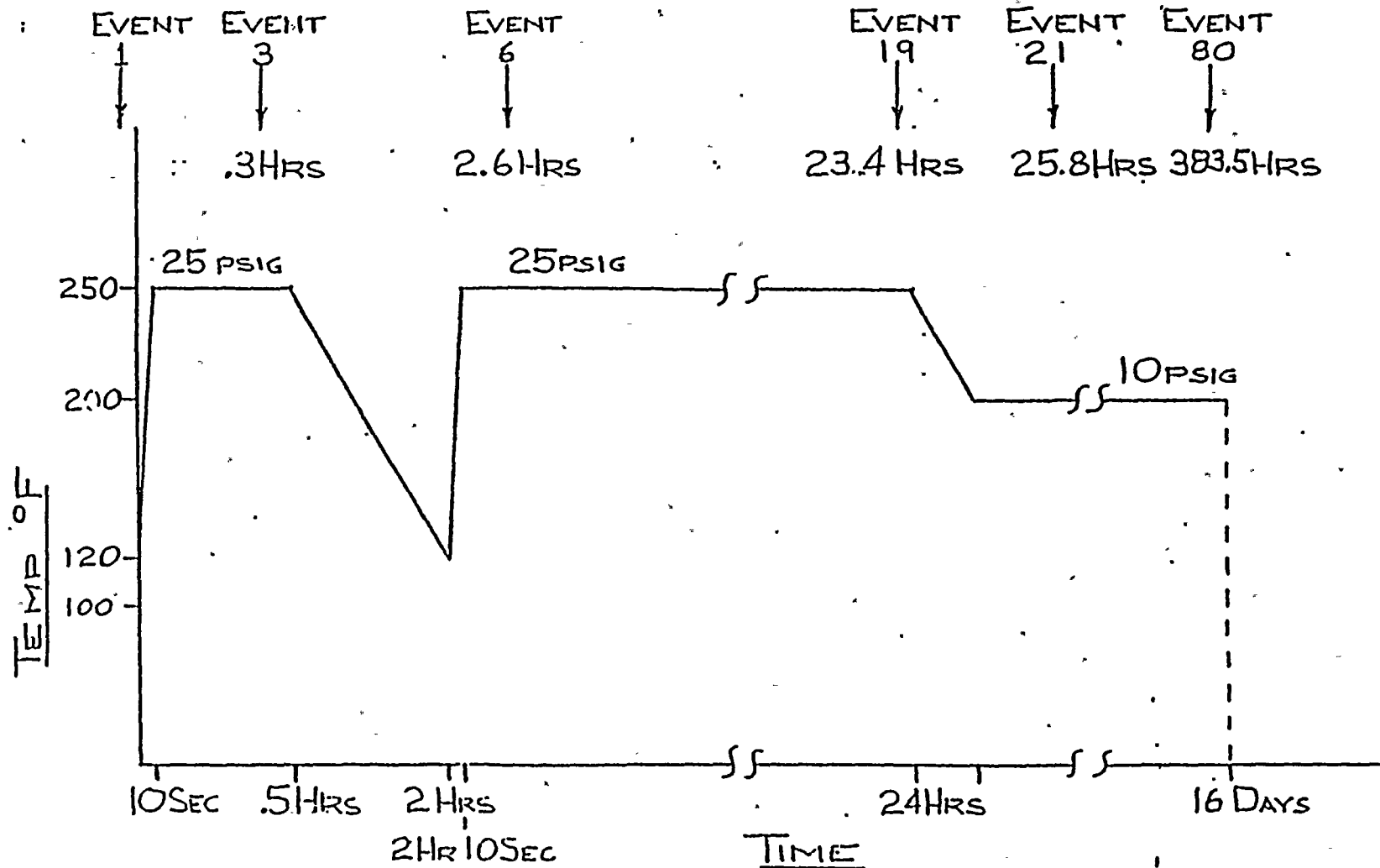


FIGURE 1

LIMITORQUE REPORT B0003



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-PT-4 MANUFACTURER GE MODEL NUMBER 556110EAAA1WEN COMPONENT Pressure Transmitter FUNCTION/SERVICE SCC Pump Discharge Pressure Transmitter LOCATION: BLDG R ELEVATION 553 COLUMN N.0/3.5	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	9.9×10^3		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. S. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 CIE Equipment List, dated 12/16/81 2. FSAR Par. 3.11 3. EDS Report 0740-004-548C 4. WPPSS Letter GE-02-JLS-81-022				1. This component will be replaced with Rosemount 1153, Series D, qualified to IEEE 323-1974 and 344-1975.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Liquid Control TAG NUMBER SLC-RHS-S2 MANUFACTURER General Electric MODEL NUMBER CR2940 COMPONENT Remote Manual Switch FUNCTION/SERVICE Local SLC Heater Switch LOCATION: BLDG R ELEVATION 548 COLUMN H.8/3.7	OPERATING TIME	24 hours	N/R	3	5	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal	N/R	1	5	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	1	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	1	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	Note 1	None
	RADIATION (RAD)	8.8×10^2	N/R	2	5	Note 1	None
	AGING	40 years	40 years	1	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Siben</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 4. EDI-4.8, Paragraph 5.1, I 5. General Electric Qualification Report for, CR2940YC212B2 Indicating Light; CR294-YA202B1, Pushbutton; and CR2940YB202B1, Selector Switch to IEEE Standard 323-1974, January 29, 1979. 6. QID No. 285002				1. This component is only required for operation under normal environmental conditions and is, therefore, considered a mild environment component. Specific qualification of components in mild environments is not required at this time. However, the component has been tested to the following conditions and satisfactorily maintained its operability (Ref. 5): - Radiation exposure to 1×10^7 Rad			



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	<ol style="list-style-type: none"><li data-bbox="1037 382 1806 526">1. (Cont'd)<ul style="list-style-type: none"><li data-bbox="1138 424 1562 456">- Thermal Aging for 14 days at 267°F.<li data-bbox="1138 453 1409 476">- 95% Humidity Exposure<li data-bbox="1138 473 1659 526">- Qualified to operating time of >6 months at 150°F (Ref. 6).<li data-bbox="1037 545 1806 597">2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures.



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-TE-6 MANUFACTURER Fenwal MODEL NUMBER 40-104044-103 COMPONENT Temperature Element FUNCTION/SERVICE SLC storage Tank temperature indication LOCATION: BLDG R ELEVATION 548 COLUMN H.7/3.6	OPERATING TIME	6 months	Note 1	1	4		
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	9.9 x 10 ³		3			
	AGING	40 years		2			
	ACCURACY	N/A					
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Michael Bohm</u> Reviewed by: <u>Ronald Chis</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, dated 12/16/81 3. EDS Report #0740-004-548C 4. Work Release Order No. 002, Contract No. C-0608 from WPPSS to ANCO Engineers				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			

OWN: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Standby Liquid Control TAG NUMBER SLC-TIC-2 MANUFACTURER Fenwal MODEL NUMBER 40-104044-103 COMPONENT Temperature Controller FUNCTION/SERVICE SLC Temperature Controller LOCATION: BLDG R ELEVATION COLUMN	OPERATING TIME	24 hours	Note 1	3	2		
	TEMPERATURE (F)	90 max. normal 104 max. abnormal 150 max. accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40 normal 90 max. abnormal 100 max. accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)						
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mal Beh</u> Reviewed by: <u>Raymond Ch</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Work Release Order No. 002, Contract No. C-0608, from WPPSS to ANCO Engineers 3. WNP-2 Class 1E Equipment List, dated 12/16/81				1. Environmental qualification testing has been performed. The test documentation is currently being obtained.			





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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-TS-3 MANUFACTURER MODEL NUMBER COMPONENT Temperature Switch FUNCTION/SERVICE SLC Temperature Switch LOCATION: BLDG R ELEVATION 548 COLUMN M.8/3.5	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	9.9×10^3		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Laymond Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 2. FSAR Par. 3.11 3. EDS Study 0740-004-548C				1. These components are on order. The qualification documentation will be reviewed when it is received.			

OW: WPPSS
FACILITY: WNP-2
SPEC: 2808-02

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PPD: 21A9370

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Liquid Control TAG NUMBER SLC-V-4A -4B MANUFACTURER Conax MODEL NUMBER 1832159 COMPONENT Valve and Trigger Assembly FUNCTION/SERVICE SLC Inlet Valve LOCATION: BLDG R ELEVATION 548 COLUMN H.2/3.7	OPERATING TIME 1	6 months	7 months	4	2,5	Sequential Testing Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	185 maximum	1	2	Simultaneous Testing	None
	PRESSURE (PSIA)	14.7	N/R	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	100%	1	2	Simultaneous Testing	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9.9×10^3	2.2×10^4		2	Sequential Testing	None
	AGING	40 years	Note 1	1	N/A	Preventive Maintenance	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>M.P. Robinson</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. Conax TR-39, 12/22/76 3. EDS Study 0740-004-548C 4. WNP-2 Class 1E Equipment List, dated 12/16/81 5. Calculations in QID No. 361003				Qualified. 1. A maintenance and surveillance program is being developed to address aging of Class 1 equipment.			



OWNER: WPPSS
FACILITY: WNP-2
SPEC: 2808-218

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Suppression Pool Temperature Monitoring TAG NUMBER See Note 2 MANUFACTURER Hy-Cal Engineering MODEL NUMBER TC-113X-T-A-24-3 COMPONENT Thermocouple FUNCTION/SERVICE Suppression Pool Temp., Operator info. LOCATION: BLDG C ELEVATION 446 COLUMN Suppression Pool.	OPERATING TIME	24 hours	Note 1	1			
	TEMPERATURE (F)	135 normal 150 abnormal Accident - profile 1		2			
	PRESSURE (PSIA)	14.7 normal 16.7 abnormal Accident - profile 1		2			
	RELATIVE HUMIDITY (%)	55 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	2.6 x 10 ⁷		2			
	AGING	N/A		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Mark Baker</u> Reviewed by: <u>Ann Seiken</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			

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DOCUMENTATION REFERENCES (Cont'd)	NOTES (Cont'd)
	<p>2. <u>TAG NUMBERS</u></p> <p>SPTM-TE-1A -1B -10 -11 -12 -13 -14 -15 -16 -2A -2B -3A -3B -4A -4B -5A -5B -6A -6B -7A -7B -8A -8B -9</p>





WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Source Range Monitor TAG NUMBER SRM-DET-1A, B, C, D MANUFACTURER General Electric MODEL NUMBER 807E162TC COMPONENT Radiation Monitor FUNCTION/SERVICE LOCATION: BLDG C ELEVATION COLUMN In RPV	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	135 max. normal 150 abnormal Accident - see profile 1		2			
	PRESSURE (PSIA)	16.7 PSIA Accident - see profile 1		2			
	RELATIVE HUMIDITY (%)	40-50 normal 90 abnormal 100 Accident		2			
	CHEMICAL SPRAY	Demineralized water		2			
	RADIATION (RAD)	4.4×10^7		2			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Leon Chin</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List, 12/16/81				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



OWNER: WPPSS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Service Water System TAG NUMBER SW-FT-7A MANUFACTURER MODEL NUMBER COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 501 COLUMN J.6/3.6	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	4.6 x 10 ⁵		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 501B				1. These components are on order. The qualification documentation will be received when it is received.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water System TAG NUMBER SW-FT-7B MANUFACTURER General Electric MODEL NUMBER 50-555111BHAA4WCF COMPONENT Flow Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 501 COLUMN H.8/7.3	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY						
		N/A		2			
	RADIATION (RAD)						
		7.8×10^4		3			
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	AGING	40 years		2			
	ACCURACY						
<div>Prepared by: <i>Mark Baker</i> Reviewed by: <i>Raymond Shi</i></div>							
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004- 501K				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Service Water TAG NUMBER SW-MO-187A SW-MO-187B SW-MO-188A SW-MO-188B MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R548 ELEVATION COLUMN	OPERATING TIME	6 months	Note 1	1	1		None
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			None
	PRESSURE (PSIA)	14.7		2			None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			None
	CHEMICAL SPRAY	N/A		2			None
	RADIATION (RAD)						None
	AGING	40 years		2			None
	ACCURACY	N/A					None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond P. Ch...</u> Reviewed by: <u>May S. Robinson</u>					
	DOCUMENTATION REFERENCES			NOTES			
1. WNP Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11				1. These components are designated as use code 2, equipment classification G. Therefore, they have no active safety function. They are only required to maintain a pressure boundary under seismic conditions. No environmental failure mechanism will cause the component to not perform its safety function. Qualified.			

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Service Water TAG NUMBER SW-MO-24A -24B -24C -44 -54 MANUFACTURER Limatorque MODEL NUMBER SMC-04 COMPONENT Motor Operator FUNCTION/SERVICE Operate SW Valves LOCATION: BLDG R ELEVATION 441 COLUMN H7/4.4; K6/8, K9/3.9, L8/8.3, M9/4	OPERATING TIME	4320 hours	Equivalent to 35,700 @ 150°F	3	4,5,6	Simultaneous Test Engineering Analysis	None
	TEMPERATURE (F)	90 max normal 104 max abnormal 150 max accident	See enclosed profile	1	4,6	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 max abnormal 100 max accident	Steam for 24 hours 100% for 15 days	1	4	Simultaneous Test	None
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	3.1×10^6	2×10^7	2	4,6	Sequential Test	None
	AGING	40 year	40 year +	1	4,5,6	Sequential Test Engineering Analysis	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Rajmoh Ch</u> Reviewed by: <u>M. P. Arlene</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-441C (worst case) 3. WNP-2 CIE Equipment List 4. Limatorque Reports B0003, 5/76; B0058, 1/11/80 5. Calculations in QID 221011(1) and (2) 6. Limatorque letter QID 221010				Qualified.			

TEMPERATURE PROFILE

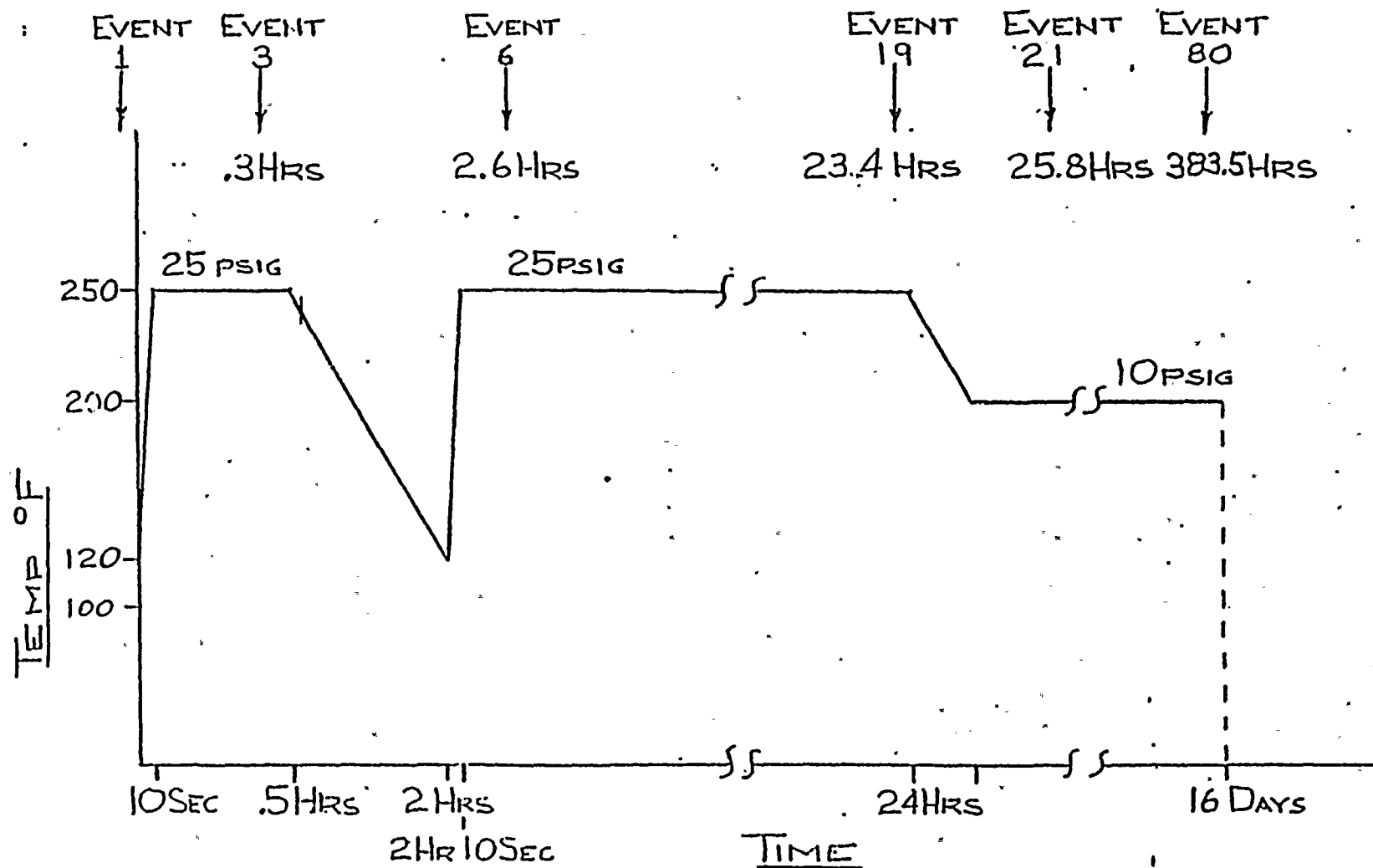


FIGURE 1

LIMITORQUE REPORT B0003



WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Standby Service Water TAG NUMBER SW-MO-75A -75B MANUFACTURER Linitorque MODEL NUMBER COMPONENT Motor Operator FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN J/9.4, H6/9.4	OPERATING TIME	4320 hours		3			Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		1			
	PRESSURE (PSIA)	14.7		1			
	RELATIVE HUMIDITY (%)	40-70 normal 90 abnormal 100 accident		1			
	CHEMICAL SPRAY	N/A		1			
	RADIATION (RAD)	8.33×10^5		2			
	AGING	40 years		1			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chi</u> Reviewed by: <u>M. J. [Signature]</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. EDS Study 0740-004-522H 3. WNP-2 Class 1E Equipment List dated 12/16/81				1. These are being purchased on Contract 2808-215, by WBG, qualified to NUREG 0588, Category I.			



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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL.		
SYSTEM Service Water TAG NUMBER SW-PS-1014 -1015 MANUFACTURER Asco MODEL NUMBER SC11AR/GT10A44R COMPONENT Switch FUNCTION/SERVICE Supply to H ₂ - O ₂ analyzer LOCATION: BLDG R ELEVATION 548 COLUMN M.7/5	OPERATING TIME	4320 hours	63 days	2	4	Sequential Test	Note 1
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident	175	1	4	Simultaneous Test	None
	PRESSURE (PSIA)	14.7	N/A	1	N/A	N/A	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident	95	1	4	Simultaneous Test	Note 1
	CHEMICAL SPRAY	N/A	N/A	1	N/A	N/A	None
	RADIATION (RAD)	9 x 10 ³	5 x 10 ⁷	3	4	Sequential Test	Note 1
	AGING	40 years	See note 2		4	Sequential Test	Note 1
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES X NO	Prepared by: <u>Raymond Chir</u> Reviewed by: <u>Paul Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. FSAR Par. 3.11 2. WNP-2 Class 1E Equipment List 3. EDS Study 0740-004-548E 4. Asco Valve Report 169A, QID 256001				1. Further testing is currently being conducted by the manufacturer, and is expected to be complete by Summer 1982. Test data will be obtained when it becomes available.			



OWNER: WPPSS
FACILITY: WNP-2
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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water TAG NUMBER SW-RE-4, 5 MANUFACTURER General Electric MODEL NUMBER 117B1681G001 COMPONENT Radiation Monitor FUNCTION/SERVICE Service water discharge from RHR-HX-1B, 1A LOCATION: BLDG R ELEVATION 522 COLUMN K.6/9.5 N.1/9.5	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.3×10^5		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	<div>Prepared by: <i>Raymond Chin</i></div> <div>Reviewed by: <i>Mark Baker</i></div>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-522K, H				1. The qualification status of these components has not yet been determined. Requalification activities will be implemented if required.			



WASHINGTON PUBLIC POWER & LIGHTS
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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water TAG NUMBER SW-RT-1, 2 MANUFACTURER MODEL NUMBER COMPONENT Radiation Transmitter FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 522 COLUMN	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	3.4×10^6		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chir</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 2. FSAR Par. 3.11 3. EDS Study 0740-004-548B (worst case)				1. These components are on order. The qualification documentation will be reviewed when it is received.			



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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water TAG NUMBER SW-RLY-CRV44 MANUFACTURER Struthers Dunn, Inc. MODEL NUMBER 219BBXP COMPONENT Relay FUNCTION/SERVICE SW-V-44 LOCATION: BLDG R ELEVATION 522 COLUMN H.4/8.1	OPERATING TIME	6 months max	N/R	1	4	Note 1	None
	TEMPERATURE (F)	90 normal 104 abnormal 108 accident	N/R	2	4	Note 1	None
	PRESSURE (PSIA)	14.7	N/R	2	4	Note 1	None
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal	N/R	2	4	Note 1	None
	CHEMICAL SPRAY	N/A	N/A	2	N/A	N/A	None
	RADIATION (RAD)	3.5×10^3	N/R	3	4	Note 1	None
	AGING	40 years	40 years	2	4	Note 2	None
	ACCURACY	N/A	N/A	N/A	N/A	N/A	None
	FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Ann Seiler</u> Reviewed by: <u>M. P. Robinson</u>					
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, dated 12/16/81 2. FSAR Paragraph 3.11 3. EDS Report 0740-004-522N 4. EDI-4.8, Paragraph 5.1, 1				1. These components are located in isolated rooms serviced by Class 1 HVAC systems and the total radiation dose is less than 10^4 rad. Therefore, the area is a mild environment. 2. Aging of equipment in mild environments is adequately addressed by current maintenance and surveillance procedures. Qualified.			



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SPEC: 2808-215

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EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENT REF.		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water TAG NUMBER See Note 2 MANUFACTURER Marotta MODEL NUMBER MV229HQ-L2 COMPONENT Solenoid Valve FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 548 COLUMN	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	3.4 x 10 ⁶		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Raymond Chir</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List, 12/16/81 2. FSAR Par. 3.11 3. EDS Study 0740-004-548B (worse case)				1. Environmental Qualifications testing for these components are currently being performed at Wyle Labs. 2. <u>Tag Numbers</u> - SH-SV-201 -204 -211 -209 -206 -213 -212 -210			

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	PARAMETER	FSAR	QUALIFICATION	FSAR	QUAL		
SYSTEM Service Water TAG NUMBER SW-V-34 MANUFACTURER MODEL NUMBER COMPONENT FUNCTION/SERVICE LOCATION: BLDG R ELEVATION 460 COLUMN H.3/8.3	OPERATING TIME	6 months	Note 1	1			
	TEMPERATURE (F)	90 normal 104 abnormal 150 accident		2			
	PRESSURE (PSIA)	14.7		2			
	RELATIVE HUMIDITY (%)	40 normal 90 abnormal 100 accident		2			
	CHEMICAL SPRAY	N/A		2			
	RADIATION (RAD)	8.2×10^3		3			
	AGING	40 years		2			
	ACCURACY						
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL? YES NO	Prepared by: <u>Leonard Chiv</u> Reviewed by: <u>Mark Baker</u>						
DOCUMENTATION REFERENCES				NOTES			
1. WNP-2 Class 1E Equipment List 2. FSAR Par. 3.11 3. EDS Study 0740-004-441D				1. These components are on order. The qualification documentation will be reviewed when it is received.			