



Consumers  
Power  
Company

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December 20, 1978

Director, Nuclear Reactor Regulation  
Att: Mr Dennis L Ziemann, Chief  
Operating Reactors Branch No 2  
US Nuclear Regulatory Commission  
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 -  
BIG ROCK POINT PLANT - CORRECTION TO  
LETTER DATED NOVEMBER 30, 1978: ENVIRONMENTAL  
QUALIFICATION (SEP TOPIC III-12)

By letter dated November 30, 1978, Consumers Power Company submitted tables describing environmental qualification of Big Rock Point equipment. This submittal was in response to NRC letter dated September 6, 1978.

Several minor errors have been identified in Attachment 2 of Consumers Power Company's November 30, 1978 letter. Attached are revised pages of Attachment 2 correcting these errors. Items changed are identified by double vertical lines in the margin. Pages which required no changes have not been resubmitted. You are requested to substitute the attached pages for the pages in Attachment 2 of our November 30, 1978 letter having the same page numbers.

No changes to Attachment 1 of the November 30, 1978 letter are required.

David A Bixel (Signed)

David A Bixel  
Nuclear Licensing Administrator

CC: JGKepler, USNRC

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Tag No	System	Function	Location			Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification					Chemicals	Big Rock Point Sheet <u>4</u> of <u>11</u> Method of Qualification
			Area	Sub	Room			Pressure Psia	Temperature °F	Humidity %	Radiation $\frac{h}{10^6 h}$			
13-RE09A	PI3	Actuate MO-7061 Level Switch Reactor Vessel	C	No	418	Yarway/4420C	Environment 1	41.7	270	100	3.6x	NA	<p>Manufacturer's certificate of compliance stating model's ability to comply with CP Co Specification 1-1, specification for instrument and supervisory control equipment, Rev A, 2/11/75.</p> <p>A Model 4416C was tested by NUS for temperature, pressure and relative humidity. The environmental specifications for Models 4416C and 4420C are identical. There is a minor difference in the operating parameters. Refer to Footnote 2.</p> <p>Ref: 2,16,14,18 See Footnote 7</p>	
13-RE09B		Actuate MO-7051												
13-RE09C		Actuate MO-7061												
13-RE09D		Actuate MO-7051												
13-RE09E		Actuate MO-7070												
13-RE09F		Actuate MO-7071												
13-RE09G		Actuate MO-7070												
13-RE09H		Actuate MO-7071												
MO-7064	PI3	Enclosure Spray Valve Rotork 1/4 Hp	C	No	446	Rotork/14 A Synchronet (125 V D-C)	Environment 1	41.7	235	100	1x10 <sup>6</sup>	NA	<p>Typo tested for pressure, temperature, relative humidity and water spray by Franklin Institute. Documented in F-Ch124 report. Radiation qualified by evaluation as documented in internal memo, R B Cherba to file, dated 5/29/75.</p> <p>Ref: 2,12,15</p>	
MO-7065		Enclosure Backup Spray Valve Limitorque 1/3 Hp				Limitorque/SMA-00 (400 - 3 Ø)								
MO-1	PI3	Enclosure backup Spray Valve GE Reversing Starter	0	No	105	General Electric/CR-106-C0	Normal Environment	14.7	140	100	NA	NA	<p>located in station power room and will experience normal operating ambient conditions.</p> <p>Ref: 2 Note 13,4,5</p>	
52-2045	PI3	Enclosure Backup Spray Valve ACB	0	No	105	General Electric TEC 6015	Normal Environment	14.7	50-140	100	NA	NA	<p>located in station power room and will experience normal operating ambient conditions.</p> <p>Ref: 2 Note 13,4,5</p>	

Tag No	System	Function	Location			Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification					Big Rock Point Sheet 5 of 11 Method of Qualification
			Area	Sub	Room			Pressure P <sub>in</sub>	Temperature °F	Humidity %	Radiation	Chemicals	
HO-7051	PIS	Core Spray Valve Limitorque 1/2 Hp	C	No	400	Limitorque/SMA-00 (125 V D-C)	Environment 1	41.7	235	100	3x10 <sup>6</sup>	NA	Refer to HO-7064 for method of qualification.
HO-7061		Core Spray Valve Limitorque 1/2 Hp											Ref: 2,12,15
HO-7070		Core Backup Spray Valve Rotork 2 Hp	C	No	451	Rotork/1 1/4 A Syncroset (480 V - 3 φ)							
HO-7071		Core Backup Spray Valve Rotork 2 Hp											
HO-7069		Spray Cross-Connect Valve Rotork 2 Hp	C	No	Outside 400	Rotork/1 1/4 A Syncroset (480 V - 3 φ)							De-energized and disabled open. Ref: 2,12,15
HO-7072		Core Spray Bx Bypass Valve Rotork 2 Hp	O	No	427	Rotork/1 1/4 A Syncroset (125 V D-C)	Normal Environment	42	235	100	1x10 <sup>6</sup>	NA	Located outside containment and will experience normal ambient operating conditions. Ref: 12,46,15
HO-7056		Core Spray Bx Cooling Water Inlet Valve Limitorque				Limitorque/SMA-00 (480 V - 3 φ)							
IT-106	PIS	Core Spray Pressure Transmitter	C	No	436	Foxboro E11GM-B3A21	Environment 1	41.7	235	100	1x10 <sup>7</sup>	NA	Manufacturer's certificate of compliance stating model's ability to comply with CP Co Specification 1-1, specification for Instrument and supervisory control equipment, Rev A, 2/11/75. Ref: 28
HO-7050	CIS	Main Steam Isolation Valve	C	No		Limitorque SMA-2-60	Environment 1	41.7	235	100	1x10 <sup>6</sup>	NA	Refer to HO-7064 for method of qualification
HO-7065	CIS	Main Steam Drain Valve	C	No		Limitorque SMA-0005	Environment-1	—	—	—	—	—	Valve disabled in closed position
Misc Splices			C	No			Environment 1	235	42	100	1.3x10 <sup>6</sup>	NA	Ref: 61



Tag No.	Symbol	Function	Location		Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification				Big Rock Joint Sheet 10 of 11	Method of Qualification
			Area	Room			Pressure Pairs	Temperature °F	Humidity %	Rad. Action		
TH-300	MSI	Blow Junction Box	C	-	Metal Enclosure With Gasketed Cover, Humay Electrical	Environment 1	41.7	235	100	1x10 <sup>6</sup>	MA	Qualified by evaluation, based on HRI-TH-ED-116 test report. Radiation qualification strictly by evaluation. Ref: 33
TH-300	PH	Cable for Core Spray Valve Relocation Box PC-490	C	Yes	Corro Wire & Cable Co./WB	Environment 1	44.7	280	100	2x10 <sup>6</sup>	MA	Qualified by type test conducted by Franklin Institute Report F-C 319B, March 1974. Ref: 10
TH-300	PH	Cable (Installed 1960-4969)	C	Yes	From Various Sources	Environment 1	42	250	100	7.10 <sup>6</sup>	MA	Qualified by type test, for temperature only, conducted by EP G. Research and Testing Laboratory. Qualified by evaluation for radiation as documented by letter B B Charbon dated 5/22/75. Refer to Filenote 5-Ref: 3,7,36 See Note 10 & 17
TH-300	PH	Reactor Frequency Transmitter	C	405	Boeing/11500P	Environment 1	44.7	316	100	5x10 <sup>6</sup>	MA	Qualified by manufacturer's certificate of compliance. Ref: 29
TH-300	PH	Power Source for Reactor Frequency Transmitter Box	C	301	Boeing/603-2101P	Boysal Environment	44.7	140	95	-	MA	Not required. Located in control room and will experience normal ambient operating conditions. Ref: 47
TH-300	PH	Reactor Frequency Transmitter	C	301	Analogic Nonlinear Converter/P12335/0/2	-	-	-	-	-	-	Refer to Filenote 5-Ref: 3,7,36 See Note 10 & 17
TH-300	PH	Blow Junction Box	C	403	Yarway/4300PE	Environment 1	41.7	270	100	1.6x10 <sup>6</sup>	MA	Refer to Qualification Bathology for HRP (Page 4). Qualification as described in the HRI test were made. Refer to HRI-TH-ED-116 of 2/17/78. Ref: 2,16,18,18
TH-300	PH	Blow Junction Box	C	-	Crouse Hinds/FBC-222 Terminal Box w/GE Terminal Block/305118	-	-	235	100	UAT	MA	Qualified by evaluation, based on HRI-TH-ED-116 test report. Reference Catalytic Memo from AOBerry to Bebasco, dated 6/22/76 "Qualification Report for Electrical Equipment". Ref: 18,33