



Consumers  
Power  
Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 786-0550

March 23, 1978

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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

By letter dated February 24, 1977, Consumers Power Company submitted an evaluation of the environmental qualification of safety-related equipment at Big Rock Point. Subsequent to this submittal, some corrections and additions to the evaluation have been made and are forwarded attached. The changes are minor in nature and do not alter the conclusions of the original letter. They consist of:

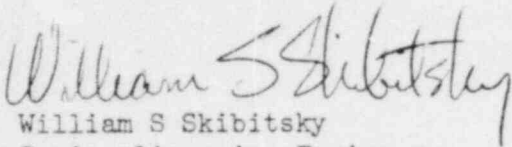
- (1) Sheet 6 of 11 - Junction boxes identified as 178 A, B should have been 170 A, B.
- (2) Sheet 9 of 11 - The RDS valves are Target Rock Model 73V001 (6" x 10") Vice 73E001 (1").
- (3) Sheet 10 of 11 - The power source for reactor pressure transmitter is Rosemont SPS-2101P, Vice SPS-21018.
- (4) Sheet 10 of 11 - The reactor pressure indicator is Analogic Measurimeter PI2445/6/2, Vice PJ2445/G/2.
- (5) Sheet 10 of 11 - The steam drum level switch is Yarway Model 4320PE, Vice 4420C.
- (6) Sheet 11 of 11 - The scram pilot valves should be tag Numbers SV-NC27A2A through SV-NC27F5B; there should be no Qs.
- (7) Sheet 11 of 11 - The dump tank vent valves are ASCO Model HVA 90-405-2A, not 831622 with HVA conversion.
- (8) Sheet 11 of 11 - The dump tank isolation valves are added to the equipment list.

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Additionally, two other slight corrections are to be made that do not appear on corrected sheets. In Footnote 3, the NRC representative contacted was D R Hunter and in the cover letter, the level sensors that could possibly be damaged due to explosion of nonsafety-related motor control centers are the steam drum level sensors, not reactor level sensors as previously identified.



William S Skibitsky  
Senior Licensing Engineer

CC: JGKepler, USNRC

Tag No	System	Function	Location			Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification					Method of Qualification
			Area	Sub	Room			Pressure Psis	Temperature °F	Humidity %	Rad-iation	Chemicals	
PT-412	P13	Pressure Indicator for PT-186	0	No	307	Foxboro 65P0HG	Normal Environment	14.7	41-122	80	HA	NA	Not required. Located in control room and will experience normal ambient operating conditions.
ES-2465	P13	PT-186 Power Supply				Foxboro 610A							
PT-113	P13	Enclosure Pressure Transmitter (Vacuum Relief Auto Control)	0	No	110	Rosemount/1152GPh	Normal Environment	14.7	-20 to 200	100	1.2x 10 <sup>7</sup> R	NA	Not required. Located in cable penetration room and/or control room and will experience normal ambient operating conditions.
P13-113	P13	Pressure Indicator for PT-113			307	Sigma/9270					NA		
PT-187	P13	Enclosure Pressure Transmitter (Vacuum Relief Auto Control)			110	Rosemount/1152GPh			-20 to 200	100	1.2x 10 <sup>7</sup> R		
PT-187	P13	Pressure Indicator for PT-187			307	Sigma/9270					NA		
P13-636	P13	Actuate 80-7008 Enclosure Pressure Switch	0	No	110	Static O-Ring 8M-E-411-VX5TP	Normal Environment	14.7	200	75	NA	NA	Not required. Located in cable penetration room and will experience normal ambient operating conditions during LOCA.
P13-637	P13	Actuate 80-7008 Enclosure Pressure Switch											
P13-700A	P13	Actuate 80-7008 Pressure Switch	0	No	110	Static O-Ring 12L-AA5-R33	Normal Environment	14.7	200	75	NA	NA	Not required. Located in cable penetration room and will experience normal ambient operating conditions during LOCA.
P13-700B	P13	Actuate 80-7008 Pressure Switch											
P13-160	P13	Cable	C	Yes	-	Kerite/(PR)	Environment 1	14.7	325	100	1.2x 10 <sup>8</sup> R	HA	Qualified by type test conducted by Franklin Institute and documented in F-C-737.
P13-161	P13	Function Boxes Within Containment	C	Yes	-	Metal Enclosure With Gasketed Covers	Environment 1	14.7	235	100	SAT	NA	Qualified by evaluation as documented in letter J D Westbrook to R B Chertok dated 5/29/75.

POOR ORIGINAL

Tag No	System	Function	Location			Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification					Method of Qualification
			Area	Sub	Room			Pressure Psis	Temperature °F	Humidity %	Radiation	Chemicals	
SV-4980	RRS	Reactor Depress Isolation Valve	C	No	452	ASCO/B316A77 (NEMA 4)	Environment 1	41.7	240° Intermittent: 220° Continuous	100	1x10 <sup>6</sup>	NA	Qualified by vendor documentation for pressure, temperature, relative humidity, and radiation. Intermittent defined as up to one hour service at maximum temperature.
SV-4981		Reactor Depress Isolation Valve											
SV-4982		Reactor Depress Isolation Valve											
SV-4983		Reactor Depress Isolation Valve											
SV-4984	RRS	Reactor Depress Valve	C	No	452	Target Rock/73V001(6" x 10")	Environment 1	84.7	300	100	1x10 <sup>8</sup>	NA	Qualified by type test conducted by East-West Technology Corp as documented in Report #79B-4.
SV-4985		Reactor Depress Valve											
SV-4986		Reactor Depress Valve											
SV-4987		Reactor Depress Valve											
BB0	RRS	Sphere Penetration	C	No	436	Conax/B4205	Environment 1	49.7	223	100	1x10 <sup>8</sup>	NA	Type tested by manufacturer for pressure only. Qualified by manufacturer's certificate of conformance to meet Specification 4490-1600-407. Refer to Footnote 4.
BB5		Sphere Penetration											
BB1		Sphere Penetration											
BB3		Sphere Penetration											
	RRS	Cable	C	Yes	-	Haychem	Environment 1	84.7	270	100	1x10 <sup>8</sup>	NA	Qualified by type test conducted by Franklin Institute as documented in Test Report F-C 4033-1.

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POOR ORIGINAL

Tag No	System	Function	Location			Manufacturer/Model (Type)	Limiting Environmental Qualification Criteria	Environmental Design Qualification					Big Rock Point Sheet 11 of 11 Method of Qualification
			Area	Sub	Room			Pressure Psia	Temperature °F	Humidity %	Radiation	Chemicals	
SV-NC27 A, A Then SV-NC27 F, B	RPS	Scram Pilot Valves	C	Yes	401	ASCO/831622 With HVIA 90-441-1A Conversion	Environment 1	41.7	240° Intermittent 220° Continuous	100	1x10 <sup>6</sup> <sub>R</sub>	NA	Refer to Qualification Methodology for SV 4980 (Page 9). Refer to Footnote 6.
-	-	Containment Electrical Penetration	C	No	436	Rundel/Potted	Environment 1	41.7	274	100	Sat	NA	Qualified by evaluation as documented by letter M R Wade to W S Skibitsky dated 2/16/78 (Wade 03-7B).
-	-	Containment Electrical Penetrations	↓	↓	↓	Amphenol Borg Electronics Corp/Coaxial	↓	↓	↓	↓	↓	↓	
PP-17h	CTS	Enclosure Pressure Transmitter	0	No	110	Rosemount/1152GP5	Environment 3	14.7	-20 to 200	100	1.2 10 <sup>7</sup> <sub>R</sub>	NA	Not required. Located outside of containment and will experience normal ambient operating conditions.
PI-9f		Enclosure Pressure Indicator	↓	↓	307	Signa/9270	↓	↓	↓	↓	↓	↓	
-	RDS	Wire Terminal Connections	C	No	-	Amp Special Products	Environment 1	41.7	235	100	1x10 <sup>8</sup> <sub>R</sub>	NA	Qualified by vendor supplied documentation based on engineering test report "Amp GFR-575-98" conducted by AMP and Franklin Institute
-	RDS	Terminal Blocks	C	No	-	States Block/RT	Environment 1	41.7	235	100	1x10 <sup>8</sup> <sub>R</sub>	NA	Qualified by evaluation, based on RDS-TM-ED-116 test report.
SV-NC 22A, h	RPS	Scram Master Pilot Valves	C	Yes	401	ASCO/831622 With HVA 90-441-1A Conversion	Environment 1	41.7	240° Intermittent 220° Continuous	100	1x10 <sup>6</sup> <sub>R</sub>	NA	Refer to qualification methodology for SV-4980 (Page 9).
SV-NC 22F, G H, J	RPS	Dump Tank Vent Valves	C	Yes	401	ASCO HVA 90-405-2A	Environment 1	41.7	240° Intermittent 220° Continuous	100	1x10 <sup>6</sup> <sub>R</sub>	NA	Refer to qualification methodology for SV-4980 (Page 9).
SV-NC 22 C, D	RPS	Dump Tank Isolation Valves	C	Yes	401	ASCO 831632 With HVA 90-441-1A Conversions	↓	↓	↓	↓	↓	↓	↓

