



June 23, 1981

Docket No. 50-155
LS05-81-06-097

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Mr. David P. Hoffman
Nuclear Licensing Administrator
1945 W. Parnall Road
Jackson, Michigan 49201

Dear Mr. Hoffman:

SUBJECT: Administrative Changes to the Safety Evaluation on Equipment
Qualification for Big Rock Point Plant

Reference: NBC letter of May 28, 1981, transmitting the Safety
Evaluation for the Environmental Qualification of
Safety-Related Electrical Equipment

This letter transmits page changes to the referenced document above.
These changes are the result of our identification of the inconsistencies
between the Safety Evaluation Report (SER) and the Technical Evaluation
Report. Please replace the affected pages with those attached to this
letter.

Sincerely,

Original signed by
Dennis M. Crutchfield

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosure:
As stated above

cc w/enclosure:
See next page

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PDR ADDCK 05000155
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OFFICE	DL:ORB #5/LA	DL:ORB #5/PM	DL:ORB #5/C			
SURNAME	HSmith:rij	WPaulson	DCrutchfield			
DATE	6/23/81	6/23/81	6/23/81			



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

June 23, 1981

Docket No. 50-155
LS05-81-06-097

Mr. David P. Hoffman
Nuclear Licensing Administrator
1945 W. Parnall Road
Jackson, Michigan 49201

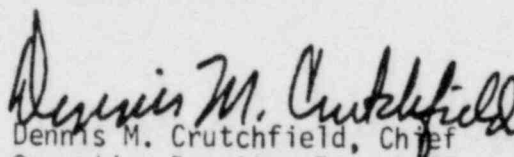
Dear Mr. Hoffman:

SUBJECT: Administrative Changes to the Safety Evaluation on Equipment
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This letter transmits page changes to the referenced document above.
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Sincerely,


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosure:
As stated above

cc w/enclosure:
See next page

Mr. David P. Hoffman

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June 23, 1981

cc w/enclosure:

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Washington, D. C. 205

Mr. David P. Hoffman

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June 23, 1981

cc w/enclosure:
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Ms. JoAnn Bier
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Charlevoix, Michigan 49720

The system and instrumentation list is contained in Appendix D. The licensee submitted an extensive list of safety-related electrical equipment. This list was evaluated and identical components within a plant area exposed to the same environment were grouped; 63 item types of equipment were identified and assessed by the staff. Items with exceptions are discussed in section 5.0 of this report.

3.2 SERVICE CONDITIONS

The Commission Memorandum and Order (CLI-80-21), dated May 23, 1980 requires that the DOR Guidelines and the "For Comment" NUREG-0588 are to be used as the criteria for establishing the adequacy of the safety related electrical equipment environmental qualification program. These documents provide the option of establishing a bounding pressure and temperature condition based on plant specific analysis identified in the licensee's FSAR or based on generic profiles using the methods identified in these documents.

On this basis the staff has assumed, unless otherwise noted, that the analysis for developing the environmental envelopes for Big Rock Point relative to the temperature, pressure, and the containment spray caustics, has been performed in accordance with the above stated requirements. For this review the staff reviewed the qualification documentation to ensure that the qualification specifications envelope the conditions established by the licensee. The staff assumed that for plants designed and equipped with an automatic containment spray system, which satisfies the single failure criterion, the main steam line break environmental conditions

APPENDIX B

List of Equipment in Section 4.2, Equipment Requiring
Additional Information And/Or Corrective Action

NOTE: (R) Licensee has committed
to replace equipment

LEGEND:

Designation for Deficiency

- | | |
|---|--|
| R - Radiation | M - Margin |
| T - Temperature | I - HELB Evaluation Outside
Containment Not Completed |
| QT - Qualification Time | QM - Qualification Method |
| RT - Required Time | RPN - Equipment Relocation or Replacement,
Adequate Schedule Not Provided |
| P - Pressure | EXN - Exempted Equipment Justification
Inadequate |
| H - Humidity | SEN - Separate Effects Qualification
Justification Inadequate |
| CS - Chemical Spray | QI - Qualification Information Being Developed |
| A - Material Aging Evaluation,
Replacement Schedule, Ongoing
Equipment Surveillance | RPS - Equipment Relocation or Replacement Schedule
provided |
| S - Submergence | |

TER ITEM NO.	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL/ TYPE	DEFICIENCIES
2	Electrical Penetration	Conax	7626-10000-01 -02 -03	QI,QM,A
8	Level Switch	Yarway	4420C	QI,A,S,R
10A	Transmitter	Westinghouse	59DP4C997050	QI,QT,RT
10B	Transmitter	Westinghouse	59DP4C987050	QI,QT,R,T
(R)11A	MOV	Limitorque	SMA-00	QI,A
(R)11B	MOV	Limitorque	SMA-00	QI,A,R
(R)11C	MOV	Limitorque	SMA-2-60	QI,A,R
12A	MOV	Rotork	14A-SYNCRESET	QI,QM,A,R
12B	MOV	Rotork	14A-SYNCRESET	QI,QM,A,R

*See Attachment 1: Foxboro letter (3/12/81), "Potential Deficiency Affecting
Foxboro Transmitters," for corrective action.

APPENDIX B (CONTINUED)

TER ITEM NO.	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL/ TYPE	DEFICIENCIES
17	Motor	GE	SK4364XJ1A11	QI,A
19A	Pressure Switch	Static-O-Ring	12L-AA5-FSS	QI,A,R,QM
19B	Pressure Switch	Static-O-Ring	4NN-E411-YXSTT	QI,A,R
24A	SOV Operator	ASCO	HTX-830C61RF	QI,A
24B	SOV Operator	ASCO	830060RF	QI,A
25	SOV Operator	ASCO	831620	QI,A
26	SOV Operator	ASCO	830060R	QI
29	SOV Operator	ASCO	830060R	QI,A
30	SOV Operator	ASCO	HTX83167?	QI,A
31	Solenoid	Target Rock	73V001	QI,QM,A
34	SOV Operator	ASCO	831622	QI,A
35	SOV Operator	ASCO	831622	QI
37	Splice	3M	UNK	QI,A,R,C
42	Cable	Anaconda	UNK	QI,A,S
43	Cable	Cerro	UNK	QI,A,S
44	Cable	Kerite	FR	QI,A,S
45	Cable	Raychem	SLPE-FLAMTROL	QI,A,S
3	Electrical Penetration	Amphenol-Borg	Type 8	QI
4	Electrical Penetration	UNK	Type 9	QI
5	Transmitter	ITT Barton	386	QI,A,QT,S
7	Level Switch	Yarway	4320PE	QI,A,QT

APPENDIX B (CONTINUED)

TER ITEM NO.	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL/ TYPE	DEFICIENCIES
9	Transmitter	ITT Barton	386	QI,A,QT
20	Pressure Switch	Static-O-Ring	9TA-S4-11SSX12	QI,A,QM,T,M,QT
(R)21	Transmitter	Rosemount	1151GP	QI
38A	Terminal Blocks	GE	CR-151	QI,A,QM,CS,R
38B	Terminal Blocks	States	NT	QI,A,QM,CS,R
39A	Terminal Blocks	Westinghouse	542247	QI,A,QM,CS,R
39B	Terminal Blocks	Westinghouse	805432	QI,A,QM,CS,R
40	Terminal Blocks	GE	EB-25	QI,A,QM,CS,R
48	Cable	UNK	UNK	QI
49	Cable	UNK	UNK	QI
50	Cable	UNK	UNK	QI
51	Cable	UNK	UNK	QI
52	Cable	GE	UNK	QI,QM
53	Cable	Okonite	UNK	QI,QM
55	Cable Splice	AMP/Certiseal	324549 324990	QI
56	Junction Box	Rumsey Electric	TB-240	QI
*57	Transmitters	Foxboro	E11GM-HSAE-1	QI,QM,A,R,QT
58	Terminal Blocks	Crouse-Hinds	F1C7222	QI
60	Splice	UNK	UNK	QI
32A	Solenoid Valve	ASCO	8316C44	QI
32B	Solenoid Valve	ASCO	8316C44	QI
33	Solenoid Valve	ASCO	80306	QI
34	Solenoid Valve	ASCO	831622	QI

APPENDIX C

List of Equipment in Section 4.3

Equipment Considered Acceptable or Conditionally Acceptable

TER ITEM NO.	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL/ TYPE	DEFICIENCIES
1	Electrical Penetration	GE	Types 1 thru 7	A
13	MOV	Limitorque	SMA-00	A
14	MOV	Limitorque	SMB-1	A
15	MOV	Rotork	14A	A
22	Transmitter	Rosemount	1152GP9A92PB	A
36	Junction Box	UNK	UNK	
41	Terminal Connection	AMP/Special Products	PIDG	A
46	Cable	Raychem	FLAMTROL	A
47	Cable	Rockbestos	FIREWALL III	A
59	MOV	Limitorque	SMA-000-5	
12A	MOV	Rotark	14A	A
12B	MOV	Rotark	14B	A