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 FITZPATRICK, E.E Indiana Michigan Power Co.
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SUBJECT: Provides additional info re NRC bulletin 96-001, "Control Rod Insertion Problems."

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AEP:NRC:1249B

November 7, 1996

Docket No.: 50-315

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Donald C. Cook Nuclear Plant Unit 1
NRC BULLETIN 96-01: CONTROL ROD INSERTION PROBLEMS

The purpose of this letter is to provide additional information regarding NRC bulletin 96-01. NRC bulletin 96-01 was sent to all holders of pressurized water reactor operating licenses to alert them to problems encountered during recent events in which control rods failed to completely insert upon a scram signal and to request an assessment of the operability of control rods, particularly in high burnup fuel assemblies. Our initial response to bulletin 96-01 was transmitted to the NRC via letter AEP:NRC:1249, dated April 8, 1996. In that response, we indicated that we would be performing rod drop testing for pre-planned outages of five days or longer during the calendar year 1996.

Cook Nuclear Plant unit 1 was shut down on September 22, 1996, due to main transformer sudden pressure trip signal. Rod drop testing was performed because the outage was longer than five days. Information regarding rod drop time is contained in the attachment to this letter. In comparing the mid-cycle data to the beginning of cycle data, there is no significant change in rod drop profile, rod bottom bounce, or rod drop times.

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Our response to NRC bulletin 96-01 was requested to be made under oath or affirmation according to the provisions of Section 182a of the Atomic Energy Act of 1954, as amended, and 10 CFR 50.54(f). As such, an oath affirmation is included with this letter.

Sincerely,

A. E. Fitzpatrick

E. E. Fitzpatrick
Vice President

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 7th DAY OF November 1996

Jan Watson

Notary Public

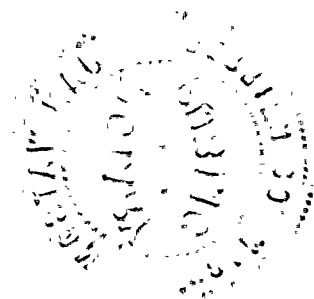
My Commission Expires: JAN WATSON

NOTARY PUBLIC, BERRIEN COUNTY, MI
MY COMMISSION EXPIRES FEB. 10, 1999

Attachment

jmb

cc: A. A. Blind
A. B. Beach
MDEQ - DW & RPD
NRC Resident Inspector - Bridgman
J. R. Padgett



Summary of Rod Drop Times
Unit 1 Cycle 15

Middle of Cycle

Bank Group	Rod Location	Time to Dashpot (T1)	Total Drop Time (T2)	Bank-Group	Rod Location	Time to Dashpot (T1)	Total Drop Time (T2)
SBA-1	D4	1.332	2.076	CBA-1	E3	1.357	2.156
SBA-1	D12	1.333	1.976	CBA-1	C11	1.392	2.062
SBA-1	M12	1.356	1.950	CBA-1	L13	1.389	2.230
SBA-1	M4	1.363	1.946	CBA-1	N5	1.427	2.193
SBA-2	G5	1.431	2.082	CBA-2	C5	1.402	2.057
SBA-2	E9	1.399	2.178	CBA-2	E13	1.355	2.099
SBA-2	J11	1.422	2.003	CBA-2	N11	1.399	2.066
SBA-2	L7	1.422	2.103	CBA-2	L3	1.387	2.053
SBB-1	G3	1.388	2.089	CBB-1	D8	1.418	2.181
SBB-1	C9	1.409	1.992	CBB-1	M8	1.453	2.092
SBB-1	J13	1.370	2.041	CBB-2	H4	1.383	2.060
SBB-1	N7	1.430	2.127	CBB-2	H12	1.418	2.105
SBB-2	C7	1.418	2.173	CBC-1	C3	1.348	1.983
SBB-2	G13	1.397	1.992	CBC-1	C13	1.371	2.014
SBB-2	N9	1.418	2.195	CBC-1	N13	1.371	2.109
SBB-2	J3	1.371	2.070	CBC-1	N3	1.369	2.059
SBC-1	H2	1.362	2.042	CBC-2	H6	1.411	2.121
SBC-1	B8	1.375	2.058	CBC-2	F8	1.422	2.189
SBC-1	H14	1.351	1.985	CBC-2	H10	1.424	2.225
SBC-1	P8	1.441	2.244	CBC-2	K8	1.439	2.067
SBD-1	F6	1.436	2.267	CBD-2	H8	1.495	2.376
SBD-1	F10	1.376	2.042	CBD-1	F2	1.365	1.988
SBD-1	K10	1.418	2.082	CBD-1	B10	1.392	2.059
SBD-1	K6	1.400	2.186	CBD-1	K14	1.360	1.977
				CBD-1	P6	1.409	2.213
				CBD-2	B6	1.463	2.098
				CBD-2	F14	1.489	2.147
				CBD-2	P10	1.460	2.175
				CBD-2	K2	1.444	2.060