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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana &
 AUTH. NAME: HUNTER, R.S. AUTHOR AFFILIATION: Indiana & Michigan Electric Co.
 RECIP. NAME: KEPLER, J.G. RECIPIENT AFFILIATION: Region 3, Chicago, Office of the Director (81/03/01)

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SUBJECT: Forwards corrected & addl pages to Attachments 2 & 5 of util.
 second set of responses to IE Bulletin 79-01B, "Environ
 Qualification of Class IE Equipment."

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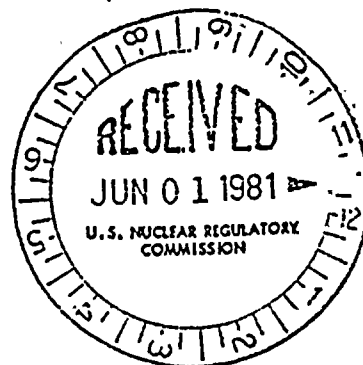
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INDIANA & MICHIGAN ELECTRIC COMPANY

P. O. BOX 18
BOWLING GREEN STATION
NEW YORK, N. Y. 10004

May 28, 1981
AEP:NRC:0356E

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74



Mr. James G. Keppler, Regional Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region III
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

Attachments 1 and 2 to this letter contain corrected and additional pages which should be incorporated into Attachments 2 and 5 to our second set of responses (AEP:NRC:0356A) to IE Bulletin 79-01B entitled, "Environmental Qualification of Class IE Equipment" which was submitted on May 7, 1980.

Very truly yours,

R. S. Hunter
R. S. Hunter
Vice President

RSH/os

cc: (w/attachment)

N. C. Moseley - NRC
D. V. Shaller - Bridgman
F. Jablonsky - Region III
NRC Resident Inspector at Cook Plant

(w/o attachment)

John E. Dolan - Columbus
R. C. Callen
G. Charnoff
R. W. Jurgensen

A048
S
1/1

ATTACHMENT 1
TO
AEP:NRC:0356E

Corrected pages to be incorporated into
Attachment 2 to AEP:NRC:0356A.

DOCKET No. 50-315, LICENSE No. DPR-58

SYSTEM

Hydrogen Recombination

[illegible]

Rev
OF
5/21/

ATTACHMENT 2

TO

AEP:NRC:0356E

Additional pages to be inserted into Attachment 5
to AEP:NRC:0356A

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.*		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	SPEC.	QUAL.	SPEC.	QUAL.		
SYSTEM: VARIOUS	Operating Time	1 YEAR	SEE NOTE 1	FSAR TABLE 7.5-2	35	SEQ.	
PLANT ID NO: VARIOUS	Temperature (°F)	FIG. 13.13-1	303	FSAR APP. N	35	SEQ	
COMPONENT: POWER CABLE	Pressure (PSIA)	FIG. 1 FIG. 2	80.7	AEW-6504	35	SEQ	
MANUFACTURER: CYPRUS	Relative Humidity (%)	100.	100.	ENG ANALYSIS	35	SEQ	
MODEL NUMBER: ITEM #347	Chemical Spray	2000 ppm B	2000 ppm B	T.S. 3/4.5 3/4.5.6	35	SEQ	
FUNCTION: VARIOUS	Radiation (10 ⁶ rads)	FIG. 4 150	300.	WCAP 7410-L Vol. 1	35	SEQ	
ACCURACY: SPEC: NA DEMON: NA	Aging (years)	40	IEEE-383-1974 PAR. 2.3.3	DESIGN LIFE	35	SEQ	
SERVICE: VARIOUS	Submergence	SUBMERGED	FLOODUP TUBES	ENG. ANALYSIS	Note 2	Note 2	
LOCATION: IN AND OUT OF CONTAINMENT							
FLOOD LEVEL ELEV: 614' ABOVE FLOOD LEVEL: NO							

*Documentation References:

35. FIRL TEST REPORT F.C. 3016

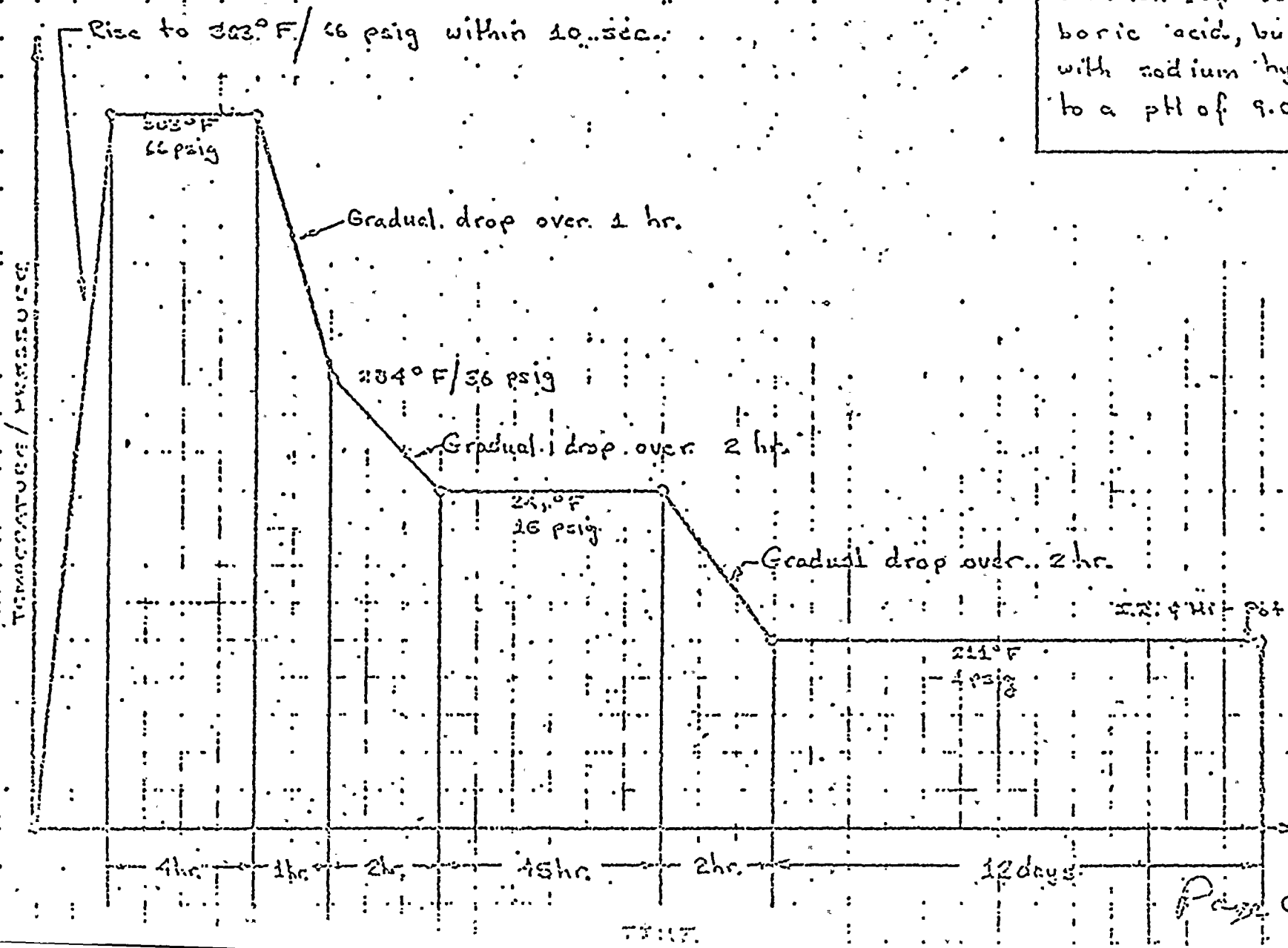
Notes: 1) CONTAINMENT TEMPERATURE RATING 2.78 HRS AFTER ACCIDENT = 185°F (Fig 3, App N, FSAR).

CABLE RATING = 194°F

2) ENGINEERING REVIEW

mkref.35 FIRT TEST REPORT F-C 3016
 Sequential Test
 RADIATION: 300 MRAD

Chemical spray maintained during entire test: 2000 ppm solution of boric acid, buffered with sodium hydroxide to a pH of 9.0.



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF.*		QUALIFICATION METHOD	OUTSTANDING ITEMS
	PARAMETER	SPEC.	QUAL.	SPEC.	QUAL.		
SYSTEM: <i>VARIOUS</i>	Operating Time	<i>1 YEAR</i>	<i>SEE NOTE 1</i>	FSAR TABLE 7.5-2	<i>5</i>	<i>SIMUL.</i>	
PLANT ID NO: <i>VARIOUS</i>	Temperature (°F)	<i>Fig 022.9-1,2</i> <i>328.2</i> <i>PEAK</i>	<i>340</i>	FSAR APP Q	<i>5</i>	<i>SIMUL.</i>	
COMPONENT: <i>POWER CABLE</i>	Pressure (PSIA)	<i>Fig. 1</i> <i>Fig. 2</i>	<i>119.7</i>	AEW GSD4	<i>5</i>	<i>SIMUL.</i>	
MANUFACTURER: <i>ANACONDA WIRE & CABLE CO.</i>	Relative Humidity (%)	<i>100</i>	<i>100</i>	ENG. ANALYSIS	<i>5</i>	<i>SIMUL.</i>	
MODEL NUMBER: <i>ITEM #347</i>	Chemical Spray	<i>2000 ppm</i> <i>B</i>	<i>3000 ppm</i> <i>B</i>	TS. 3/4.5 3/4.5.6	<i>5</i>	<i>SIMUL.</i>	
FUNCTION: <i>VARIOUS</i>	Radiation (10 ⁶ rads)	<i>Fig. 4</i> <i>150</i>	<i>200</i>	HCAP 7410-2 Vol 1	<i>5</i>	<i>SIMUL.</i>	
ACCURACY: SPEC: <i>NA</i> DEMON: <i>NA</i>	Aging (years)	<i>40 yrs.</i>	<i>250°F/7 days</i> <i>LONG TERM</i>	PERMAN LIFE	<i>5</i>	<i>SIMUL.</i>	
SERVICE: <i>VARIOUS</i>	Submergence	<i>SUBMERGED</i>	<i>FLOODUP TUBES</i>	ENG. ANALYSIS	<i>See NOTE 2</i>	<i>See NOTE 2</i>	
LOCATION: <i>IN & OUT OF CONTAINMENT</i>							
FLOOD LEVEL ELEV: <i>614'</i> ABOVE FLOOD LEVEL: <i>NO</i>							

*Documentation References:

5. FIRM TEST REPORT F.C 3341

Notes:

- 1) CONTAINMENT TEMPERATURE 2.78 HRS AFTER ACCIDENT = 185°F, (FIG. 3, APPN, FSAR). CABLE TEMP RATING 194°F
- 2) ENGINEERING ANALYSIS

from Ref. 5. Qualified by Franklin Institute Research Laboratory
(FIRL) Test Report #F-C3341, Jan. 1973.

Type of Test: Simultaneous, gamma radiation
steam
chemical spray

Test Profile:

.51 Mrads/hr, 200 Mrads
340°F, 105 psig for 3 hrs
320°F, 75 psig for 3 hrs
250°F, 15 psig for 4 days
210°F, 5 psig for 9 days

Chemical Spray: Solution of boric acid
and Na OH, PH = 9.5