

50-315/316

FILE NUMBER

INCIDENT REPORT

ENVIRO

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: N. R. C.		FROM: Indiana & Michigan Power Company Bridgman, Michigan D. V. Shaller		DATE OF DOCUMENT 8/29/77
<input checked="" type="checkbox"/> LETTER <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY	<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED	PROP	INPUT FORM	DATE RECEIVED 9/6/77
				NUMBER OF COPIES RECEIVED 1 signed

DESCRIPTION

ENCLOSURE

Consists of monthly report on impingement
of fish for the month of May, 1977.....

DO NOT REMOVE

ACKNOWLEDGED

PLANT NAME: Cook

(1-P)

(6-P)

RJL 9/9/77

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

1 CY ENCL Rec'd *

FOR ACTION/INFORMATION

BRANCH CHIEF:	DAVIS
W/ 3 CYS FOR ACTION	
LIC ASST.:	Diggs

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE				
NRC PDR				
T & E (2)				
MIPC				
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HOUSTON				
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GRIMES				
KNIGHT				
BUTLER				
HANAUER				
TEDESCO				
EISENHUT				
BAER				
SHAO				
VOLLMER/BUINCH				
KREGER/ J. COLLINS				
ROSA				

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: ST. Joseph, Mich.				
TIC:				
NSIC:				
ACRS (16) SENT AS CAT. B				

Envis
772520026
60

100-100000



INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106



August 29, 1977

Directorate of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20545

Regulatory

File Cy.

Docket No. 50-315
50-316

Gentlemen:

Pursuant to the requirements of Section 4.1.2.1.2 of the Appendix B Environmental Technical Specifications for the Donald C. Cook Nuclear Plant, the attached monthly report on impingment of fish is submitted.

This report covers the month of May, 1977.

Sincerely,

D. V. Shaller
Plant Manager

DVS/mj

cc: R. W. Jurgensen
J. E. Dolan
G. E. Lien
R. J. Vollen
K. R. Baker RO: III
R. C. Callen, MPSC
Richard Walsh, Esq.
Peter Steketee, Esq.
NRC RO: III
PNSRC File

772520026

ABBREVIATIONS AND STATION IDENTIFICATIONS FOR MONTHLY FIELD DATA REPORTS

Stations:

A - north of plant 0-2 m
B - south of plant 0-2 m
C - south of plant 6.1 m
D - south of plant 9.1 m
E - off Cook Plant 21.3 m
F - Warren Dunes 0-2 m
G - Warren Dunes 6.1 m
H - Warren Dunes 9.1 m
Q - north of plant 9.1 m
R - north of plant 6.1 m
W - Warren Dunes 21.3 m

Time:

D = day
N = night

Numbers in catch:

F - few (1-9 fish)
M - many (10-50 fish)
A - abundant (50 fish)
When numbers are given it
is the exact number of fish.

Species:

Alewife-----AL	Goldfish-----GF	River redhorse-----RR
Atlantic salmon-----AS	Grass pickeral-----GP	Rock bass-----RB
Bigmouth shiner-----BS	Green sunfish-----GN	Round whitefish-----RW
Black bullhead-----BB	Johnny darter-----JD	Sand shiner-----SH
Black crappie-----BC	Lake chub-----LC	Sauger-----SA
Bloater-----BL	Lake Herring-----LH	Sea lamprey-----SL
Bluegill-----BG	Lake sturgeon-----LG	Shorthead redhorse-----SR
Bluntnose minnow-----BM	Lake trout-----LT	Shortnose gar-----SG
Bowfin-----BF	Lake whitefish-----LW	Silver chub-----SC
Brook trout-----TB	Largemouth bass-----LB	Slimy sculpin-----SS
Brown trout-----BT	Log perch-----LP	Smallmouth bass-----SB
Burbot-----BR	Longnose dace-----LD	Splake-----SX
Carp-----CP	Longnose gar-----LR	Spoonhead sculpin-----PN
Channel catfish-----CC	Longnose sucker-----LS	Spotfin shiner-----SF
Chestnut lamprey-----CL	Mimic shiner-----MC	Spottail shiner-----SP
Chinook salmon-----CH	Mottled sculpin-----MS	Steelhead-----ST
Common shiner-----CS	Mudminnow-----MM	Tiger muskey-----TM
Creek chub-----CR	Ninespine stickleback--NS	Trout-perch-----TP
Emerald shiner-----ES	Northern pike-----NP	Unidentified coregonid--XC
Fathead minnow-----PP	Pirate perch-----PR	Unidentified pisces-----XX
Fourhorned sculpin----FS	Pink salmon-----PK	Walleye-----WL
Freshwater drum-----FD	Pumpkinseed-----PS	White crappie-----WC
Gizzard shad-----GS	Quillback-----QL	White sucker-----WS
Golden redhorse-----GR	Rainbow smelt-----SM	Yellow bullhead-----YB
Golden shiner-----GL	Rainbow trout-----RT	Yellow perch-----YP
		Zero fish caught-----ZZ

MONTH: MAY, 1977

WEIGHT IN KILOGRAMS
TEMPERATURE IN DEGREES CENTIGRADE
PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

	1		2		3		4		5		6		7		8	
TEMP C	NO SAMPLING		NO SAMPLING		8.7		NO SAMPLING		NO SAMPLING		NO SAMPLING		11.7		NO SAMPLING	
SPECIES	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT
SP	0	0.0	0	0.0	3	0.05	0	0.0	0	0.0	0	0.0	4	0.06	0	0.0
AL	0	0.0	0	0.0	50	1.99	0	0.0	0	0.0	0	0.0	33	1.20	0	0.0
SM	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
YP	0	0.0	0	0.0	1	0.01	0	0.0	0	0.0	0	0.0	2	0.18	0	0.0
TP	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
JD	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	1	0.00	0	0.0
LT	0	0.0	0	0.0	2	7.41	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SS	0	0.0	0	0.0	7	0.03	0	0.0	0	0.0	0	0.0	11	0.06	0	0.0
BR	0	0.0	0	0.0	1	0.28	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTALS	0	0.0	0	0.0	65	9.77	0	0.0	0	0.0	0	0.0	51	1.49	0	0.0
PERCENT	0.0	0.0	0.0	0.0	6.99	26.15	0.0	0.0	0.0	0.0	0.0	0.0	5.48	3.99	0.0	0.0

MONTH: MAY, 1977

WEIGHT IN KILOGRAMS
TEMPERATURE IN DEGREES CENTIGRADE
PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

	9		10		11		12		13		14		15		16	
TEMP C	NO SAMPLING		NO SAMPLING		11.6		NO SAMPLING		NO SAMPLING		NO SAMPLING		14.6		NO SAMPLING	
SPECIES	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT
SP	0	0.0	0	0.0	12	0.14	0	0.0	0	0.0	0	0.0	4	0.06	0	0.0
AL	0	0.0	0	0.0	57	1.89	0	0.0	0	0.0	0	0.0	106	3.61	0	0.0
SM	0	0.0	0	0.0	17	0.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
YP	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TP	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
JD	0	0.0	0	0.0	4	0.02	0	0.0	0	0.0	0	0.0	2	0.03	0	0.0
LT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NS	0	0.0	0	0.0	4	0.01	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SS	0	0.0	0	0.0	20	0.11	0	0.0	0	0.0	0	0.0	1	0.00	0	0.0
BR	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.02	0	0.0
TOTALS	0	0.0	0	0.0	114	2.24	0	0.0	0	0.0	0	0.0	116	3.71	0	0.0
PERCENT	0.0	0.0	0.0	0.0	12.26	5.99	0.0	0.0	0.0	0.0	0.0	0.0	12.47	9.93	0.0	0.0

MONTH: MAY, 1977

WEIGHT IN KILOGRAMS
TEMPERATURE IN DEGREES CENTIGRADE
PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

	17		18		19		20		21		22		23		24	
TEMP C	NO SAMPLING		NO SAMPLING		16.4		NO SAMPLING		NO SAMPLING		NO SAMPLING		18.4		NO SAMPLING	
SPECIES	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT
SP	0	0.0	0	0.0	5	0.06	0	0.0	0	0.0	0	0.0	1	0.01	0	0.0
AL	0	0.0	0	0.0	176	5.43	0	0.0	0	0.0	0	0.0	70	1.85	0	0.0
SH	0	0.0	0	0.0	1	0.03	0	0.0	0	0.0	0	0.0	1	0.01	0	0.0
YP	0	0.0	0	0.0	1	0.04	0	0.0	0	0.0	0	0.0	1	0.01	0	0.0
TP	0	0.0	0	0.0	1	0.01	0	0.0	0	0.0	0	0.0	3	0.04	0	0.0
JD	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	2	0.01	0	0.0
LT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.95	0	0.0
NS	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SS	0	0.0	0	0.0	14	0.06	0	0.0	0	0.0	0	0.0	7	0.03	0	0.0
BR	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.78	0	0.0
TOTALS	0	0.0	0	0.0	200	5.64	0	0.0	0	0.0	0	0.0	87	5.69	0	0.0
PERCENT	0.0	0.0	0.0	0.0	21.51	15.09	0.0	0.0	0.0	0.0	0.0	0.0	9.35	15.22	0.0	0.0

MONTH: MAY, 1977

WEIGHT IN KILOGRAMS
TEMPERATURE IN DEGREES CENTIGRADE
PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

	25		26		27		28		29		30		31			
TEMP C	NO SAMPLING		NO SAMPLING		11.3		NO SAMPLING		NO SAMPLING		NO SAMPLING		10.9		TOT. NO.	TOT. WT.
SPECIES	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT		
SP	0	0.0	0	0.0	12	0.11	0	0.0	0	0.0	0	0.0	2	0.02	42	0.50
AL	0	0.0	0	0.0	142	4.44	0	0.0	0	0.0	0	0.0	119	3.94	753	24.34
SM	0	0.0	0	0.0	2	0.00	0	0.0	0	0.0	0	0.0	1	0.03	22	0.16
YP	0	0.0	0	0.0	2	0.04	0	0.0	0	0.0	0	0.0	3	0.17	10	0.46
TP	0	0.0	0	0.0	3	0.02	0	0.0	0	0.0	0	0.0	0	0.0	9	0.09
JD	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	0	0.0	10	0.04
LT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	10.36
NS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.00	7	0.02
SS	0	0.0	0	0.0	8	0.05	0	0.0	0	0.0	0	0.0	1	0.00	71	0.36
BR	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.06
TOTALS	0	0.0	0	0.0	170	4.66	0	0.0	0	0.0	0	0.0	127	4.17	930	37.38
PERCENT	0.0	0.0	0.0	0.0	18.28	12.46	0.0	0.0	0.0	0.0	0.0	0.0	13.66	11.17	100.00	100.00

MONTH: MAY, 1977

WEIGHT IN KILOGRAMS
TEMPERATURE IN DEGREES CENTIGRADE
PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

SPECIES	DAILY AVG NUMBER	STD DEV NUMBER	DAILY AVG WEIGHT	STD DEV WEIGHT	PERCENT NUMBER	TOTAL NUMBER	PERCENT WEIGHT	TOTAL WEIGHT	ESTIMATED TOTALS FOR MONTH NUMBER	ESTIMATED TOTALS FOR MONTH WEIGHT
SP	5.38	4.27	0.06	0.04	4.62	43	1.34	0.50	166	1.94
AL	94.13	49.86	3.04	1.51	80.97	753	65.11	24.34	2917	94.32
SM	2.75	5.80	0.02	0.03	2.37	22	0.43	0.16	85	0.62
YP	1.25	1.04	0.06	0.07	1.08	10	1.22	0.46	38	1.76
TP	1.13	1.36	0.01	0.02	0.97	9	0.25	0.09	34	0.36
JD	1.25	1.28	0.00	0.00	1.08	10	0.09	0.04	38	0.14
LT	0.38	0.74	1.29	2.68	0.32	3	27.71	10.36	11	40.14
NS	0.88	1.36	0.00	0.00	0.75	7	0.05	0.02	27	0.07
SS	8.88	6.08	0.05	0.03	7.63	71	0.97	0.36	275	1.41
BR	0.25	0.46	0.13	0.28	0.22	2	2.82	1.06	7	4.09
TOTAL	116.25	50.38	4.67	2.54	100.00	930	100.00	37.38	3603	144.86

THERE WERE 8 DAYS ON WHICH SAMPLES WERE TAKEN.
ESTIMATED TOTALS FOR THIS MONTH ARE BASED ON 31 DAYS OF IMPINGEMENT.

EXECUTION TERMINATED 11:01:02 T=.469 RC=0 3.51