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 AUTH=NAME AUTHOR AFFILIATION
 SHALLER, D. V. Indiana & Michigan Power Co.
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 Commission

SUBJECT: Forwards Apr-May 1979 monthly repts on impingement of fish
 per requirements of Section 4.1.2.1.2 of App B, ETS.

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INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

September 24, 1979

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

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 reports on impingement of fish are submitted.

These reports cover the months of April and May 1979.

Sincerely,

D. V. Shaller
Plant Manager

DVS:ab

cc: R. W. Jurgensen
J. E. Dolan
R. F. Kroger
R. J. Vollen
R. E. Masse RO: III
R. C. Callen, MPSC
Richard Walsh, Esq.
Peter Steketee, Esq.
NRC RO: III
PNSRC File

Attachments

A007
S/11

7910 040 260

MONTH: APRIL, 1979

WEIGHT IN KILOGRAMS

TEMPERATURE IN DEGREES CENTIGRADE

PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

[illegible]

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

TEMP C	9		10		11		12		13		14		15		16	
	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	6.1 NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	7.0 NUMBER	WEIGHT
SPECIES																
SP	0	0.0	0	0.0	0	0.0	1642	16.81	0	0.0	0	0.0	0	0.0	369	4.63
AL	0	0.0	0	0.0	0	0.0	198	9.49	0	0.0	0	0.0	0	0.0	7	0.28
SM	0	0.0	0	0.0	0	0.0	479	2.85	0	0.0	0	0.0	0	0.0	67	0.47
YP	0	0.0	0	0.0	0	0.0	49	3.23	0	0.0	0	0.0	0	0.0	8	1.04
TP	0	0.0	0	0.0	0	0.0	53	0.58	0	0.0	0	0.0	0	0.0	4	0.02
WS	0	0.0	0	0.0	0	0.0	2	1.61	0	0.0	0	0.0	0	0.0	0	0.0
LS	0	0.0	0	0.0	0	0.0	3	3.69	0	0.0	0	0.0	0	0.0	0	0.0
CH	0	0.0	0	0.0	0	0.0	2	0.35	0	0.0	0	0.0	0	0.0	1	0.18
RT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CM	0	0.0	0	0.0	0	0.0	4	3.17	0	0.0	0	0.0	0	0.0	3	2.23
BT	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	0	0.0	11	0.03	0	0.0	0	0.0	0	0.0	0	0.0
SS	0	0.0	0	0.0	0	0.0	231	1.82	0	0.0	0	0.0	0	0.0	140	1.06
CC	0	0.0	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	0	0.0
BB	0	0.0	0	0.0	0	0.0	1	0.00	0	0.0	0	0.0	0	0.0	0	0.0
BR	0	0.0	0	0.0	0	0.0	1	0.66	0	0.0	0	0.0	0	0.0	0	0.0
ER	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.02
BN	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTALS	0	0.0	0	0.0	0	0.0	2677	44.30	0	0.0	0	0.0	0	0.0	600	9.94
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	71.03	50.71	0.0	0.0	0.0	0.0	0.0	0.0	15.92	11.38

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

TEMP C	17		18		19		20		21		22		23		24	
	NO SAMPLING		NO SAMPLING		NO SAMPLING		8.4		NO SAMPLING		NO SAMPLING		NO SAMPLING		8.7	
	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT
SPECIES																
SP	0	0.0	0	0.0	0	0.0	16	0.21	0	0.0	0	0.0	0	0.0	0	0.0
AL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SM	0	0.0	0	0.0	0	0.0	3	0.03	0	0.0	0	0.0	0	0.0	0	0.0
YP	0	0.0	0	0.0	0	0.0	1	0.52	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
WS	0	0.0	0	0.0	0	0.0	1	1.50	0	0.0	0	0.0	0	0.0	3	2.23
LS	0	0.0	0	0.0	0	0.0	1	2.22	0	0.0	0	0.0	0	0.0	2	1.65
CH	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.18
RT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.30
CM	0	0.0	0	0.0	0	0.0	1	0.46	0	0.0	0	0.0	0	0.0	3	2.08
BT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.63
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	0	0.0	18	0.15	0	0.0	0	0.0	0	0.0	0	0.0
CC	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BB	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BR	0	0.0	0	0.0	0	0.0	2	1.17	0	0.0	0	0.0	0	0.0	1	0.13
ER	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BN	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.03
TOTALS	0	0.0	0	0.0	0	0.0	43	6.27	0	0.0	0	0.0	0	0.0	14	10.22
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	1.14	7.17	0.0	0.0	0.0	0.0	0.0	0.0	0.37	11.70

MONTH: APRIL, 1979

WEIGHT IN KILOGRAMS

TEMPERATURE IN DEGREES CENTIGRADE

PERCENTAGES ARE OF TOTAL SAMPLED THIS MONTH

TEMP C	25		26		27		28		29		30		31		TOT. NO.	TOT. WT.
	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	8.3 NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT	NO SAMPLING NUMBER	WEIGHT		
SPECIES																
SP	0	0.0	0	0.0	0	0.0	70	0.90	0	0.0	0	0.0	0	0.0	2138	23.07
AL	0	0.0	0	0.0	0	0.0	3	0.08	0	0.0	0	0.0	0	0.0	210	9.97
SH	0	0.0	0	0.0	0	0.0	230	1.40	0	0.0	0	0.0	0	0.0	797	4.82
YP	0	0.0	0	0.0	0	0.0	5	0.66	0	0.0	0	0.0	0	0.0	68	5.91
TP	0	0.0	0	0.0	0	0.0	7	0.07	0	0.0	0	0.0	0	0.0	65	0.68
RS	0	0.0	0	0.0	0	0.0	2	3.40	0	0.0	0	0.0	0	0.0	8	8.73
LS	0	0.0	0	0.0	0	0.0	1	1.65	0	0.0	0	0.0	0	0.0	7	9.22
CH	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.71
RT	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.30
CM	0	0.0	0	0.0	0	0.0	1	0.53	0	0.0	0	0.0	0	0.0	14	9.51
BT	0	0.0	0	0.0	0	0.0	2	1.44	0	0.0	0	0.0	0	0.0	4	3.07
NS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.03
SS	0	0.0	0	0.0	0	0.0	9	0.06	0	0.0	0	0.0	0	0.0	428	3.33
CC	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.53
RB	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.00
BR	0	0.0	0	0.0	0	0.0	4	3.42	0	0.0	0	0.0	0	0.0	9	5.41
ER	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.02
BN	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.03
TOTALS	0	0.0	0	0.0	0	0.0	334	13.70	0	0.0	0	0.0	0	0.0	3769	87.36
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	8.86	15.68	0.0	0.0	0.0	0.0	0.0	0.0	100.00	100.00

MONTH: APRIL, 1979

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	305.43	603.51	7.30	6.18	56.73	2138	26.41	23.07	9162	98.86
AL	30.00	74.12	1.42	3.56	5.57	210	11.41	9.97	900	42.72
SH	113.86	180.93	0.69	1.08	21.15	797	5.52	4.82	3415	20.66
YP	9.71	17.55	0.84	1.11	1.80	68	6.77	5.91	291	25.34
TP	9.29	19.46	0.17	0.22	1.72	65	0.78	0.68	278	2.94
WS	1.14	1.21	1.25	1.32	0.21	8	10.90	8.73	34	37.43
LS	1.00	1.15	1.32	1.41	0.19	7	10.55	9.22	30	39.50
CH	0.57	0.79	0.10	0.14	0.11	4	0.81	0.71	17	3.03
RT	0.14	0.38	0.33	0.87	0.03	1	2.63	2.30	4	9.86
CM	2.00	1.29	1.36	1.15	0.37	14	10.89	9.51	60	40.77
BT	0.57	0.98	0.44	0.75	0.11	4	3.52	3.07	17	13.16
NS	1.57	4.16	0.00	0.01	0.29	11	0.04	0.03	47	0.14
SS	61.14	89.14	0.43	0.70	11.36	428	3.82	3.33	1834	14.29
CC	0.29	0.49	0.09	0.20	0.05	2	0.61	0.53	8	2.27
BB	0.14	0.38	0.00	0.00	0.03	1	0.00	0.00	4	0.01
BR	1.29	1.38	0.77	1.25	0.24	9	6.19	5.41	38	23.17
FR	0.14	0.38	0.00	0.01	0.03	1	0.03	0.02	4	0.09
BH	0.14	0.38	0.00	0.01	0.03	1	0.04	0.03	4	0.14
TOTAL	538.43	967.44	12.48	14.76	100.00	3769	100.00	87.36	16152	374.38

THERE WERE 7 DAYS ON WHICH SAMPLES WERE TAKEN.

ESTIMATED TOTALS FOR THIS MONTH ARE BASED ON 30 DAYS OF IMPINGEMENT.

EXECUTION TERMINATED 13:49:53 T=.573 RC=0 5.48

MONTH: MAY, 1979

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		9.9		NO SAMPLING		NO SAMPLING		NO SAMPLING		10.4		NO SAMPLING		NO SAMPLING	
SPECIES	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT	NUMBER	WEIGHT
SP	0	0.0	7	0.09	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AL	0	0.0	2	0.09	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	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	4	0.89	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TP	0	0.0	1	0.01	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
WS	0	0.0	2	1.96	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.90	0	0.0	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
CP	0	0.0	1	9.85	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CM	0	0.0	4	2.23	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SS	0	0.0	4	0.05	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BR	0	0.0	2	1.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTALS	0	0.0	27	16.24	0	0.0	0	0.0	0	0.0	1	1.90	0	0.0	0	0.0
PERCENT	0.0	0.0	64.29	59.31	0.0	0.0	0.0	0.0	0.0	0.0	2.38	6.94	0.0	0.0	0.0	0.0

MONTH: MAY, 1979

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		11.0		NO SAMPLING		NO SAMPLING		NO SAMPLING		13.5		NO SAMPLING		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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AL	0	0.0	3	0.12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SM	0	0.0	3	0.04	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	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
WS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LS	0	0.0	2	2.53	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LT	0	0.0	1	2.97	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CP	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CM	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	1	0.01	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BR	0	0.0	3	3.01	0	0.0	0	0.0	0	0.0	1	0.57	0	0.0	0	0.0
TOTALS	0	0.0	13	8.67	0	0.0	0	0.0	0	0.0	1	0.57	0	0.0	0	0.0
PERCENT	0.0	0.0	30.95	31.67	0.0	0.0	0.0	0.0	0.0	0.0	2.38	2.07	0.0	0.0	0.0	0.0

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

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