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March 16, 1973

Myron Karman, Esq.
Counsel for AEC Regulatory Staff
U. S. Atomic Energy Commission
Washington, D. C. 20545

Re: Consolidated Edison Company
of New York, Inc.
Indian Point Unit No. 2
AEC Docket No. 50-247

Dear Mr. Karman:

Enclosed is a copy of the document entitled
"Responses of Dr. Gerald J. Lauer to Questions of HRFA
From the Hearing Sessions Held on December 12 and 13,
1972" and dated January 12, 1973. This document has been
furnished to Mr. Macbeth in the above-referenced proceeding.

Sincerely,

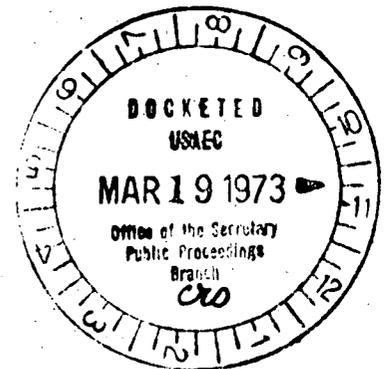
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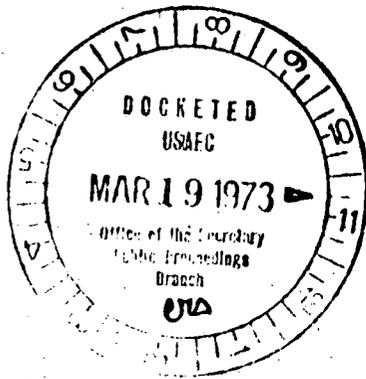
Enclosure

cc w/enc:

- Samuel W. Jensch, Esq.
- Mr. R. B. Briggs
- Dr. John C. Geyer
- Anthony Z. Roisman, Esq.
- Angus Macbeth, Esq.
- J. Bruce MacDonald, Esq.
- Honorable Louis J. Lefkowitz
- Secretary, U. S. Atomic Energy Commission (2)
- Atomic Safety and Licensing Board Panel



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Consolidated Edison Company of New York, Inc.
Indian Point Station, Unit No. 2
AEC Docket No. 50-247

Responses of Dr. Gerald J. Lauer
to Questions of HREA From the
Hearing Sessions held on
December 12 and 13, 1972

January 12, 1973

(1) Tr. 7058-59 Request for opportunity to see 15-minute temperature exposure data from Monck's Corner experiments if available before end of proceeding.

Response: Data not yet available.

(2) Tr. 7063-65, 7328 Request for tabular data on abundance of white perch and striped bass at each station for each sampling date.

Response: Attached Tables 1 through 21 supplement the information contained in IRFA Exhibit No. I. Tables 3-21 contain data only for those dates and stations that samples were found. On all other sampling dates and at all other stations the number of samples found would be zero. No white perch eggs were found during either day or night sampling at the surface, mid-depth or bottom.

(3) Tr. 7082 Identify which sampling stations were subject to having bottom nets pulled away from bottom because of abrupt changes in bottom contour.

Response: The sampling stations were A and F as indicated on December 12, 1972, plus Station B.

(4) Tr. 7160-61 Provide numerical conversion factors for calculating amount of water filtered through nets per revolution of meters.

Response: Average values for all meters used are:

Revolutions X $\frac{0.0314\text{m}^3}{\text{Revolution}}$ = Total volume (m³) filtered

Revolutions X $\frac{1.1093 \text{ft}^3}{\text{Revolution}}$ = Total volume (ft³) filtered

(5) Tr. 7198

Provide number of 15-30 minute tows made at the intake and discharge canal during the summer.

Response: Twelve 15-30 minute tows were made at the intake during the summer. Five 15-30 minute tows were made at the discharge during the summer.

(6) Tr. 7238

Provide compilation of data on larvae which were held and observed for delayed effects if available before end of this proceeding.

Response: Data not yet available.

Table 1

Striped Bass Eggs - 1971 (1)
 Day-Surface
 No./1000m³

Date	Sampling Station						
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
5/10	0	0	0	0	0	0	0
5/18	0	0	0	0	0	0	0
5/20	35	0	0	0	0	0	0
5/24	0	0	0	34	12	0	0
5/28	6	0	6	0	6	0	0
6/2	0	0	0	0	0	0	0
6/3	16	0	0	0	0	0	0
6/7	5	0	0	0	0	0	0

(1) All zeroes for sampling dates of same frequency before and after dates shown.

Table 2

Striped Bass Larvae - 1971⁽¹⁾
 Day-Surface
 Number/1000m³

Date	Station						
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
6/2	0	0	0	0	0	0	0
6/3	0	0	0	0	0	0	0
6/7	5	5	0	0	0	16	0
6/10	6	0	0	0	0	0	0
6/14	0	0	0	0	0	0	0
6/17	0	0	0	0	0	0	0
6/21	0	38	0	0	0	0	0
6/24	0	0	0	0	0	0	0
6/28	0	0	0	0	0	0	0
7/1	0	0	0	0	0	0	0
7/6	0	0	0	0	0	0	0
7/9	0	0	0	0	0	0	11
7/12	0	0	0	0	0	0	0
7/15	0	0	0	0	0	0	0
7/19	0	0	0	0	0	0	0
7/27	0	0	0	0	0	0	0
7/30	0	0	0	0	0	0	0

(1) All zeroes for sample dates of same frequency before and after dates shown.

Table 3
 White Perch Yolk-Sac Larvae (Day)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
June 3	B	7
June 3	C	5
June 14	G	15

Table 4
 White Perch Yolk-Sac Larvae (Day)
 Mid-Depth
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 28	C	6
June 3	A	29
June 14	A	37
June 14	B	22
June 14	C	23
June 17	C	6
June 21	C	7
June 21	F	7
June 21	G	7
June 28	G	7

Table 5
 White Perch Yolk-Sac Larvae (Day)
 Bottom
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 20	B	12
May 28	D	7
June 2	A	17
June 2	B	12
June 2	D	10
June 2	F	14
June 3	A	18
June 3	F	11
June 7	B	17
June 7	C	34
June 7	D	14
June 10	A	14
June 10	F	23
June 14	D	5
June 14	G	39
June 17	E	22

Table 6
White Perch Yolk-Sac Larvae (Night)*
Surface
No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26/27	A	20
May 26/27	F	19
May 26/27	G	7
June 8/9	A	14

*No white perch yolk-sac larvae (night) were found at mid-depth and bottom.

Table 7
 White Perch Larvae (Night)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26/27	E	6
June 8/9	A	7
June 8/9	E	6
June 22/23	C	792
June 22/23	D	1764
June 22/23	F	2957
June 22/23	G	341
July 7/8	B	75

Table 8
 White Perch Larvae (Night)
 Mid-Depth
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26/27	F	6
June 8/9	B	14
June 8/9	D	7
June 8/9	E	6
June 22/23	A	534
June 22/23	B	0
June 22/23	C	616
June 22/23	D	458
June 22/23	E	237
June 22/23	F	2899
June 22/23	G	354
July 7/8	A	31
July 7/8	B	74
July 7/8	C	8
July 7/8	D	90
July 7/8	F	13

Table 9
 White Perch Larvae (Night)
 Bottom
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
June 8/9	A	104
June 8/9	B	29
June 8/9	G	10
June 22/23	A	881
June 22/23	C	1098
June 22/23	D	510
June 22/23	F	620
June 22/23	G	83
July 7/8	A	7
July 7/8	B	20
July 7/8	C	12
July 7/8	D	6

Table 10
 Striped Bass Yolk-Sac Larvae (Day)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
June 2	B	24
June 2	D	6

Table 11
 Striped Bass Yolk-Sac Larvae (Day)
 Mid-Depth
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 24	D	24
May 28	C	6
May 28	E	13
June 3	A	48
June 3	B	8
June 14	A	25
June 14	B	12

Table 12
 Striped Bass Yolk-Sac Larvae (Day)
 Bottom
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 10	D	8
May 18	G	8
May 24	A	7
May 24	C	30
May 24	D	60
May 24	E	93
May 24	F	31
May 24	G	221
May 28	A	24
May 28	C	12
May 28	G	7
June 2	A	70
June 2	D	10
June 2	F	93
June 3	A	24
June 3	B	13
June 3	E	25
June 3	F	11
June 3	G	4
June 7	B	17
June 7	C	39
June 10	C	5
June 10	F	6
June 14	A	20
June 14	B	20
June 14	C	5

Table 13
 Striped Bass Eggs (Night)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26-27	A	13
May 26-27	B	7
May 26-27	C	21
May 26-27	D	33

Table 14
 Striped Bass Eggs (Night)
 Middle
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26-27	A	16
May 26-27	B	17
May 26-27	C	285
May 26-27	D	83
May 26-27	E	84

Table 15
Striped Bass Eggs (Night)
Bottom
No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 11-12	D	10
May 11-12	E	16
May 26-27	A	13
May 26-27	B	69
May 26-27	C	549
May 26-27	D	59
May 26-27	E	89
May 26-27	F	13
May 26-27	G	52

Table 16
 Striped Bass Yolk-Sac Larvae (Night)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 11-12	G	7
May 26-27	A	13
May 26-27	B	7

Table 17
 Striped Bass Yolk-Sac Larvae (Night)
 Middle
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26-27	A	24
May 26-27	B	8
May 26-27	E	25
May 26-27	F	27
May 26-27	G	8

Table 18
 Striped Bass Yolk-Sac Larvae (Night)
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 26-27	B	10
May 26-27	C	10
May 26-27	E	48
May 26-27	F	13
May 26-27	G	30

Table 19
 Striped Bass Larvae (Night)
 Surface
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
May 11/12	F	6
June 8/9	A	150
June 8/9	B	34
June 8/9	D	28
June 8/9	E	22
June 8/9	F	6
June 22/23	C	251
June 22/23	D	392
June 22/23	F	1170
June 22/23	G	94
July 7/8	B	14
July 7/8	E	4

Table 20
 Striped Bass Larvae (Night)
 Mid-Depth
 No./1000m³

<u>Date</u>	<u>Station</u>	<u>No.</u>
June 8/9	A	79
June 8/9	B	74
June 8/9	C	6
June 8/9	D	7
June 8/9	E	12
June 8/9	F	19
June 8/9	G	44
June 22/23	A	167
June 22/23	C	162
June 22/23	D	175
June 22/23	E	45
June 22/23	F	341
June 22/23	G	96
July 7/8	A	52
July 7/8	B	16
July 7/8	C	8
July 7/8	G	20
July 21/22	D	7

Table 21
Striped Bass Larvae (Night)

Bottom
No./1000m³

Date	Station	No.
May 26/22	A	47
June 8/9	A	52
June 8/9	B	29
June 8/9	C	7
June 8/9	D	31
June 8/9	E	23
June 8/9	F	13
June 8/9	G	10
June 22/23	A	360
June 22/23	C	462
June 22/23	D	307
June 22/23	F	360
June 22/23	G	94
July 7/8	A	81
July 7/8	B	20
July 7/8	C	31
July 7/8	D	54
July 7/8	F	15
July 7/8	G	16
July 21/22	E	10