

50-247

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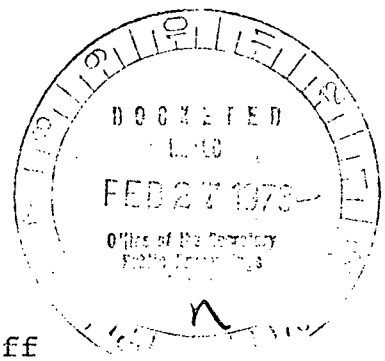
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February 23, 1973

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Secretary
U. S. Atomic Energy Commission
Washington, D. C. 20545

Attention: Public Proceedings Staff

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

Dear Sir:

Pursuant to the request of the Chairman of the Atomic Safety and Licensing Board in the above-referenced proceeding, Applicant transmits herewith copies of revised Tables 10, 11 and 19 of the testimony of John P. Lawler, Ph.D. on the "Effect of Entrainment and Impingement at Indian Point on the Population of the Hudson River Striped Bass, Modifications and Additions to Testimony of April 5, 1972," dated October 30, 1972 and incorporated into the transcript at Tr. 6254. Applicant requests that these revised tables be inserted in the copy of Dr. Lawler's testimony contained in the official docket for the above-referenced proceeding.

Very truly yours,

LEBOEUF, LAMB, LEIBY & MACRAE
Attorneys for Applicant

By Edward L. Cohen
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Enclosures

cc w/encs: See page 2.

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Honorable Louis J. Lefkowitz
Atomic Safety and Licensing Board Panel

TABLE 10

DETERMINATION OF "f₁" FACTOR FOR STRIPED BASS YOLK-SAC LARVAE1971 NYU Data*

(East and West Transects at Peekskill, Indian Point, and Stony Point)

Day Sampling, 5/3/71 to 7/30/71Relative Mean Concentration, #/TCM, for Sampling Period

<u>Depth**</u>	<u>West</u>	<u>East</u>
Surface	0.0	0.06
Mid-Depth	1.10	0.70
Mean, Upper West Quadrant:	0.55	Mean, Upper East Quadrant: 0.38
Mid-Depth	1.10	0.70
Bottom	5.23	5.07
Mean, Lower West Quadrant:	3.17	Mean, Lower East Quadrant: 2.89
Mean, Western Half:	1.86	Mean, Eastern Half: 1.64

Section Average Concentration: 1.75

$$f_1, \text{Daytime Basis} = 0.38/1.75 = 0.22$$

Night Sampling, 5/11/71 to 7/31/71Relative Mean Concentration, #/TCM, for Sampling Period

<u>Depth</u>	<u>West</u>	<u>East</u>
Surface	0.72	0.60
Mid-Depth	2.83	1.72
Mean, Upper West Quadrant:	1.78	Mean, Upper East Quadrant: 1.16
Mid-Depth	2.83	1.72
Bottom	1.28	3.67
Mean, Lower West Quadrant:	2.06	Mean, Lower East Quadrant: 2.70
Mean, Western Half:	1.92	Mean, Eastern Half: 1.93

Section Average Concentration: 1.93

$$f_1, \text{Nighttime Basis} = 1.16/1.93 = 0.60$$

$$f_1, \text{Daily Average Basis} = 0.625 \times 0.22 + 0.375 \times 0.60 = 0.36$$

*Gear - 1/2 meter, 500 micron plankton nets.

**Depths vary between 30 and 50 feet; mid-depth samples taken between 15 and 30 feet.



TABLE 11

DETERMINATION OF "f₁" FACTOR FOR STRIPED BASS LATER LARVAE

1971 NYU Data*

(East and West Transects at Peekskill, Indian Point, and Stony Point)

Day Sampling, 5/3/71 to 7/30/71Relative Mean Concentration, #/TCM, for Sampling Period

<u>Depth**</u>	<u>West</u>	<u>East</u>
Surface	0.38	0.63
Mid-Depth	54.08	32.52
Mean, Upper West Quadrant:	27.23	Mean, Upper East Quadrant: 16.57
Mid-Depth	54.08	32.52
Bottom	78.92	* 79.17
Mean, Lower West Quadrant:	66.50	Mean, Lower East Quadrant: 55.90
Mean, Western Half:	46.87	Mean, Eastern Half: 36.24

Section Average Concentration: 41.56

$$f_1, \text{ Daytime Basis} = 16.57/41.56 = 0.40$$

Night Sampling, 5/11/71 to 7/31/71Relative Mean Concentration, #/TCM, for Sampling Period

<u>Depth</u>	<u>West</u>	<u>East</u>
Surface	88.0	24.5
Mid-Depth	46.33	20.67
Mean, Upper West Quadrant:	67.2	Mean, Upper East Quadrant: 22.58
Mid-Depth	46.33	20.67
Bottom	79.33	24.77
Mean, Lower West Quadrant:	62.83	Mean, Lower East Quadrant: 22.72
Mean, Western Half:	65.00	Mean, Eastern Half: 22.65

Section Average Concentration: 43.83

$$f_1, \text{ Nighttime Basis} = 22.58/43.83 = 0.52$$

$$f_1, \text{ Daily Average Basis} = 0.625 f_1, \text{ day} + 0.375 f_1, \text{ night} = 0.44$$

*Gear - 1/2 meter, 500 micron plankton nets.

**Depths vary between 30 and 50 feet; mid-depth samples taken between 15 and 30 feet.

TABLE 19

ESTIMATION OF "f₂" FACTOR FOR EARLY JUVENILES

All Sampling Data Reported as Numbers of Total Serranids per Thousand Cubic Feet

DEPTH	DAY SAMPLING		NIGHT SAMPLING	
	EAST	EAST CHANNEL	EAST	EAST CHANNEL
0	1.24	2.57	2.56	4.60
10	1.97	2.36	7.59	8.71
20	<u>5.88</u>	<u>9.54</u>	<u>5.82</u>	<u>7.99</u>
Average	3.03	4.82	5.32	7.10
<u>Quadrant Average</u>		3.93		6.21
Intake Concentration		1.65		2.30

CALCULATION OF f₂

<u>Basis for Analysis</u>	<u>Unweighted</u>	<u>Day/Night Weighting</u>
East Shore	0.46	0.48
East Quadrant	0.40	0.40