

DATE June, 1976

LOCATION Indian Point

PREPARED BY _____

SUBJECT _____

Daily Fish Counts From Intake Screens
Unit No. 2

Date	01	02	07	10	11	13	22	25	30	32	34	35	36	Total Number	Weight (lbs)
7	1		1			3	2	4	1	69	2	11		94	2.23
8	1			3		1		1		25		3		34	1.08
10		1				1				76	1	3		82	0.80
11		1	1							100	1	3		106	0.79
12		1					3	2		93	4	9		112	1.60
14	1		3		1		1			16	3	45	1	71	5.08
Totals	3	3	5	3	1	5	6	7	1	379	11	74	1	499	11.59

SEE ATTACHED SHEET FOR SPECIES IDENTIFICATION

 8111190269 760716
 PDR ADOCK 05000003
 R PDR

Daily Fish Counts From Intake Screens
Unit 3

DATE	01	02	03	04	05	06	07	10	11	12	13	14	15	18	19	22	23	25	28	29	30	32	34	35	40	82	92	93	96		Total Number	Total Wt (lbs)
1	7	3					1	3			4					6	1		2		1	39	7	28							102	5.45
2	8	2	1				3	3	1		6	1	1			13		1				47	7	34	1						129	9.61
3										NO		WASH		SCREE				UNDER	REPAIR													
4	22	13	3			1	4	4			28		1			54	2	2	3		3	296	10	70			1				517	26.00
5	4	10	1				2	5			32	1				38	2	2	1		1	258	21	62					1		439	16.28
6	7	1			1		3	2			7					16		1	2		2	65	12	29					1		149	10.24
7	3	1					6	3			1		1			13		1	1			20	15	32							97	5.34
8	3	3	1		1	1	2				2	1	1			21		4	1			25	5	29		1		1			102	7.19
9	5	2	1				2									16		1			3	19	5	23						77	7.24	
10	10	1	1				4	8			10					51		4	3		1	40	10	50							193	21.31
11	10	1	1		1	1	3	4			2					49		3	1		7	104	11	46			1			245	19.61	
12	3	2					1	8			2					19			2	1	4	19	5	25							91	10.36
13	4						1	3			5					12			1		1	18	2	36							83	8.94
14	1	1			1	1	2	12					1			12		1				5	5	38							80	9.32
15	1	1					2				1		1			15		2	1		2	2	3	51							82	9.95
16	1	4					5	6			7	1	1			36					5	37	19	87							209	20.97
17	8		1				6	5			10	1				21		1	1		4	27	8	61							154	13.59
18	7	5		1			3	7			11	1	1		1	35			2		1	74	8	47							204	9.43
19	3	2					2	1			1			1		14		1	1		1	8	4	43							82	* 4.75
20	4				1		1	3			1					11		2	1			4	2	50							80	10.65
21	1						3	1		1						15		5				5	6	67							104	13.58
22	1			5		1	1	4			3					11	22				1	8		66							123	13.99
23	3		1			1	1	3			15					15	12	2				4	2	116							161	19.45
24		1		20			3	3		3	1					15	9	1				29	6	84							175	14.87
25	5	13		138			3	3			7		2		2	22		6	1		2	39	14	93							350	19.99
26	12	11		238		1	2	5			10		1			13		3			1	52	6	80							435	15.77
27	3	1		44			4	1		1	2					7		1					4	40							117	8.31
28	5	3	1	65			3	3			3					11		2			1	3	3	30							133	9.39
29	13	2	4	122			3	1		1	5			1	1	18			1			19	1	77							269	16.67
30	14	2		53			3	3		1	3	1			1	21		2				105	4	84							297	19.79
TOTALS	168	85	16	686	5	7	78	106	1	7	164	7	10	2	5	600	3	88	28	1	41	1373	213	1578	1	1	2	1	2		5279	378.04

SEE ATTACHED SHEET FOR SPECIES IDENTIFICATION
* TOTAL WEIGHT DOES NOT INCLUDE WEIGHT OF WHITE PERCH COLLECTED

SPECIES CODE LIST

01	Alewife	51	Clupeid Larvae
02	Bay Anchovy	52	Morone Larvae
03	American Shad	53	Grass Pickerel
04	Bluefish	54	Sea Horse
05	Bluegill	55	Logperch
06	Brown Bullhead	56	Trout Perch
07	Pumpkinseed	57	Northern Hogsucker
08	Black Crappie	58	Fathead Minnow
09	Carp	59	Cyprinid, Unidentified
10	American Eel	60	Morone (Unidentified)
11	Goldfish	61	Redfin Pickerel
12	Golden Shiner	62	Tautog
13	Hogchoker	63	Four Bearded Rockling
14	Tessellated Darter	64	Striped Cuskeel
15	Banded Killifish	65	Centrarchidae Larvae
16	Emerald Shiner (<u>Notropis antheroides</u>)	66	King Fish
17	Largemouth Bass	67	Spot
18	Mummichog	68	Moonfish
19	Atlantic Menhaden	69	Brook Stickleback
20	Minnow Unidentified	70	Sturgeon Unidentified
21	Chain Pickerel	71	Northern Porgy
22	Blueback Herring	72	Winter Flounder
23	White Sucker	73	Tidewater Silverside
24	Atlantic Silverside	74	Sea Lamprey
25	Rainbow Smelt	75	Gizzard Shad
26	Smallmouth Bass	76	Silver Hake
27	Shortnose Sturgeon	77	Striped Mullet
28	Spottail Shiner (<u>Notropis hudsonius</u>)	78	Threespine Stickleback
29	Atlantic Sturgeon	79	Brown Trout
30	Striped Bass	80	Butterfish
31	Fourspine Stickleback	81	White Crappie
32	Atlantic tomcod	82	Brook Trout
33	Unidentified at time of capture	83	Northern Pike
34	White Catfish	84	Green Sunfish
35	White Perch	85	Silver Perch
36	Yellow Perch	86	Northern Puffer
37	Satinfin Shiner (<u>Notropis analostanus</u>)	87	Blacknose Dace
38	Rock Bass	88	Bridle Shiner (N. bifrenatus)
39	Northern Pipefish	89	Cyprinidae I
40	Redbreast Sunfish	90	Cutlips Minnow
41	Atlantic Needlefish (Silver Gar)	91	Yearling Striped Bass
42	Crevalle Jack	92	Yearling Blueback Herring
43	Silvery Minnow	93	Yearling American Shad
44	Fallfish	94	Yearling Alewife
45	Weakfish	95	Yearling White Perch
46	Comely Shiner (N. amoenus)	96	Centrarchid Unidentified
47	Common Shiner (N. cornutus)	97	Spotfin Shiner
48	Mimic Shiner (N. volcellus)	98	Squirrel Hake, Red Hake (U. chuss)
49	Lookdown	99	Others
50	Clupeid Unidentified		

DATA SHEET

DATE June, 1976

LOCATION _____

PREPARED BY _____

SUBJECT _____

Chemical Discharges

Date	ppm Boron	ppm LiOH	Date	ppm Boron	ppm LiOH
1	.03	$< 1 \times 10^{-4}$	16	(2)	(2)
2	.02		17	(2)	(2)
3	.02		18	(2)	(2)
4	.01		19	$< .01$	$< 1 \times 10^{-4}$
5	.01		20	$< .01$	
6	.01		21	$< .01$	
7	.02		22	$< .01$	
8	.01		23	.01	
9	.02		24	.01	
10	.02		25	.01	
11	.02		26	.01	
12	.02		27	.02	
13	.02		28	.01	
14	.01		29	.01	
15	(2)	(2)	30	(2)	(2)

Notes: (1) The Boron and LiOH concentrations were calculated by the following formula;

$$\text{Diluted ppm} = \frac{(\text{ppm of tank}) (\text{gpm, Disch. Rate})}{100,000 \text{ gpm}^{\text{a}}}$$

* In many cases the recirculation water flow was much greater, than the 100,000 gpm used in the calculation.

(2) No discharges

Indian Point Station

CHEMICAL DISCHARGES

June , 19 76

		June 2		June 9		June 16		June 23		June 30	
		IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH		7.6	7.6	7.6	7.5	7.7	7.6	7.6	7.7	7.6	7.6
Chromium mg/l		< .003	< .003	< .003	< .003	< .003	< .003	< .003	< .003	< .003	< .003
Boron mg/l (1)		.14	.26	.04	.03	< .01	.02	< .01	< .01	< .01	.10
Phosphate mg/l (4)		< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Hydrazine mg/l		< .005	< .005	< .005	< .005	< .005	< .005	< .005	< .005	< .005	< .005
Cyclohexylamine mg/l (2)											
Lithium Hydroxide (1)											
Chlorine mg/l (3)											
Tot. Susp. Solids mg/l		25	26	24	26	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Oxygen mg/l		9.4	8.4	10.0	9.4	10.0	7.6	8.7	7.2	8.7	7.9

NOTES:

(1) The boron and LiOH calculated values are attached.

(2) Cyclohexylamine is no longer used at Indian Point

(3) No chlorinations performed during the month of June

(4) Phosphate treatment of the House Service Boilers has been suspended, in lieu of Chelant treatment. The Chelant is being used on an experimental basis.

DATA SHEET

NO. _____

DATE June, 1976

LOCATION _____

PREPARED BY _____

SUBJECT _____

Unit No. 3 Electrical Output

Kilowatts

Date	Minimum*		Maximum *		Average **				Gross Kilowatt Hrs.		
1		0	110	000	45	417			1	090	000
2		0	700	000	337	083			8	090	000
3		0	700	000	468	333			11	240	000
4	100	000	695	000	575	000			13	800	000
5	685	000	700	000	668	750			16	050	000
6	520	000	700	000	661	667			15	880	000
7	670	000	700	000	670	417			16	090	000
8	440	000	700	000	623	333			14	960	000
9		0	700	000	397	083			9	530	000
10	190	000	700	000	644	583			15	470	000
11		0	710	000	459	167			11	020	000
12		0		0		0					0
13		0		0		0					0
14		0		0		0					0
15		0	430	000	275	000			6	600	000
16	430	000	680	000	626	667			15	040	000
17	670	000	690	000	664	167			15	940	000
18	690	000	690	000	670	417			16	090	000
19	400	000	700	000	533	750			12	810	000
20	245	000	400	000	398	333			9	560	000
21		0	700	000	200	833			4	820	000
22	700	000	860	000	767	500			18	420	000
23	760	000	880	000	822	500			19	740	000
24	875	000	975	000	889	583			21	350	000
25	880	000	990	000	965	833			23	180	000
26		0	1000	000	514	583			12	350	000
27		0		0		0					0
28		0	540	000	345	375			8	289	000
29	175	000	540	000	523	750			12	570	000
30		0	540	000	426	083			10	226	000

* Operating Gauge Reading

** More Accurate Watthour - Meter Reading

DATA SHEET

DATE _____

LOCATION June, 1976

PREPARED BY _____

SUBJECT _____

Site Thermal Discharges - °F

Date	Inlet			Outlet		
	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	58.9	59.7	59.3	59.0	65.2	61.8
2	58.6	59.5	59.2	59.2	74.6	67.6
3	58.8	59.8	59.3	60.5	75.2	72.1
4	58.8	59.9	59.4	72.1	76.1	74.8
5	59.0	60.8	59.8	73.4	75.8	74.6
6	59.2	61.1	60.2	72.9	75.8	74.7
7	59.7	61.3	60.6	73.9	77.8	75.5
8	59.9	62.0	60.8	73.0	81.0	76.2
9	60.2	63.0	61.5	62.8	77.5	72.8
10	61.0	63.3	62.3	69.5	77.7	76.4
11	61.9	63.1	63.1	64.0	78.5	75.1
12	62.5	63.9	63.2	62.8	64.3	63.4
13	62.9	63.3	63.1	63.0	63.7	63.3
14	63.0	63.5	63.3	63.3	64.5	63.7
15	63.2	65.2	63.7	63.9	78.0	74.6
16	64.2	67.8	67.1	78.0	85.0	83.4
17	67.7	67.8	67.8	84.1	86.0	85.0
18	67.7	67.9	67.8	85.1	86.6	85.6
19	67.7	67.9	67.8	81.6	87.0	83.6
20	67.8	68.2	67.9	79.0	82.2	82.0
21	68.0	69.0	68.2	68.8	89.0	76.9
22	68.1	69.0	68.6	88.0	91.6	89.3
23	68.4	69.1	68.8	87.6	93.2	89.0
24	68.6	69.1	68.8	88.0	90.6	89.0
25	69.0	69.2	69.1	90.0	91.8	90.7
26	69.4	70.3	69.9	72.1	92.0	81.8
27	70.1	72.0	71.5	71.9	72.6	72.2
28	71.2	72.8	72.3	72.2	85.1	81.0
29	72.4	73.2	72.6	79.9	85.0	84.6
30	72.9	73.2	73.0	74.0	85.5	84.0

DATE June, 1976LOCATION Indian Point

PREPARED BY _____

SUBJECT _____

River Water Discharges By Circulator*

Unit No. 2

Date	ON	OFF	HRS	% FLOW	AVG. TOTAL UNIT DISCHARGE, GPM x 10 ³
1			24	100	160.0
2			↓	↓	↓
3			↓	↓	↓
4			↓	↓	↓
5			↓	↓	↓
6			↓	↓	↓
7			↓	↓	↓
8		18 ⁰²	18 ⁰²		125.1
9	09 ¹⁷		14 ⁴³		111.7
10			24		160.0
11			↓	↓	↓
12			↓	↓	↓
13			↓	↓	↓
14		10 ³⁰	10 ³⁰		81.6
15			0		70.0
16			↓	↓	20.0
17			↓	↓	↓
18			↓	↓	↓
19			↓	↓	10.4
20			↓	↓	10.0
21			↓	↓	10.0
22			↓	↓	15.0
23			↓	↓	↓
24			↓	↓	↓
25			↓	↓	↓
26			↓	↓	↓
27			↓	↓	↓
28			↓	↓	↓
29			↓	↓	↓
30			↓	↓	↓

* Only #21 Circulator operating in June

DATA SHEET

NO. _____
DATE June, 1976
LOCATION Indian Point Sta.

PREPARED BY _____

SUBJECT

River Water Discharges By Circulator*
Unit No. 3

DATE	#31			#32			#33			#34			#35			#36			AVG. TOTAL UNIT DISCHARGE, GPM x 10 ³
	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	
1			24			0			24			0			0			24	440.2
2			↓			↓			↓	10 ⁰³		13 ⁵⁷			↓			↓	521.3
3			↓			↓			↓			24			↓			↓	580.0
4			↓			↓			↓			↓			↓			↓	
5			↓			↓			↓			↓			↓			↓	
6			↓			↓			↓			↓			↓			↓	
7			↓			↓			↓			↓			↓			↓	
8			↓			↓			↓			↓			↓			↓	
9			↓			↓			↓			↓			↓			↓	
10	22 ⁰⁰	21 ¹⁵	↓			↓			↓			↓			↓	22 ⁰⁰	21 ¹⁵	↓	551.3
11			23 ¹⁵			22 ⁰⁰			23 ¹⁵			21 ¹⁵			21 ¹⁵			23 ¹⁵	440.0
12			24			↓			24			0			↓			24	↓
13			↓			↓			↓			↓			↓			↓	543.2
14			↓			↓			↓			↓			↓			↓	580.0
15			↓			↓			↓	06 ²³		17 ³⁷			↓			↓	
16			↓			↓			↓			24			↓			↓	
17			↓			↓			↓			↓			↓			↓	
18			↓			↓			↓			↓			↓			↓	
19			↓			↓			↓			↓			↓			↓	
20			↓			↓			↓			↓			↓			↓	
21			↓			↓			↓	11 ⁴⁸	00 ⁵⁰	13 ⁰²			↓			↓	515.6
22			↓			↓			↓			24	17 ⁴⁰		6 ²⁰			↓	616.4
23			↓			↓			↓			↓	21 ¹⁴	16 ⁴⁰	19 ²⁶			↓	693.4
24			↓			↓			↓			↓			24			↓	720.0
25			↓			↓			↓			↓			24			↓	720.0
26			↓			↓			↓			↓			24			↓	607.0
27			↓			↓			↓			↓			24			↓	327.4
28			↓			↓			↓	04 ¹⁵	13 ⁵²	13 ⁵²	04 ¹⁵	13 ⁵²	13 ⁵²	02 ²⁰	02 ²⁰	↓	
29			↓			↓			↓	06 ³⁶	05 ⁰⁰	00 ⁴⁵	06 ³⁶	05 ⁰⁰	00 ⁴⁵	00 ³⁵	23 ²⁵	24 ²⁵	647.4
30			↓			↓			↓			24			24			22 ²⁵	720.0
			↓			↓			↓			24			24			22 ²⁵	710.2

* ALL OPERATING CIRCULATORS AT 100 % FLOW