RETURN TO REGULATORY CENTRAL FILES
ROOM 015

INDIAN POINT UNIT NO. 2
INDIAN POINT UNIT NO. 3

NEAR-FIELD EFFECTS OF ONCE-THROUGH COOLING SYSTEM OPERATION ON HUDSON RIVER BIOTA

APPENDICES 1.1 and 1.2

RETURN TO REGULATORY CENTRAL FILES
ROOM 015

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
POWER AUTHORITY OF THE STATE OF NEW YORK

JULY 1977

Docket # 50-247
Control # 7
Date 7/29/77 of Document:
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8110280219 770731
PDR ADOCK 05000247
P PDR

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INDIAN POINT UNIT NO. 2
INDIAN POINT UNIT NO. 3

NEAR-FIELD EFFECTS OF ONCE-THROUGH COOLING SYSTEM OPERATION ON HUDSON RIVER BIOTA

APPENDICES 1.1 and 1.2

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
POWER AUTHORITY OF THE STATE OF NEW YORK

JULY 1977

INDIAN POINT UNIT NO. 2
INDIAN POINT UNIT NO. 3

NEAR-FIELD EFFECTS OF ONCE-THROUGH COOLING SYSTEM OPERATION ON HUDSON RIVER BIOTA

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
POWER AUTHORITY OF THE STATE OF NEW YORK

JULY 1977

APPENDICES 1.1 and 1.2

APPENDIX 1.1

AVERAGE DAILY PLANT POWER OUTPUT
OF INDIAN POINT UNIT NO. 2
1974 - 1976

DAILY PLANT POWER OUTPUT

I. MONTH April, 1974

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	519	25	0
2	640	26	0
3	642	27	0
4	628	28	0
5	659	29	194
6	572	30	500
7	79	31	–
8	349		
9	531		
10	578		
11	387		
12	405		
13	392		
14	393		
15	570		
16	746		
17	737		
18	563		
19	0		
20	0		
21	0		
22	0		
23	0		
24	0		

DAILY PLANT POWER OUTPUT

II. MONTH May, 1974

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	538	25	526
2	561	26	461
3	173	27	503
4	0	28	561
5	45	29	656
6	151	30	567
7	507	31	744
8	531		
9	579		
10	438		
11	0		
12	0		
13	32		
14	0		
15	0		
16	0		
17	0		
18	0		
19	0		
20	0		
21	92		
22	453		
23	280		
24	632		

DAILY PLANT POWER OUTPUT

III. MONTH June, 1974

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	242	25	61
2	206	26	684
3	732	27	856
4	739	28	846
5	706	29	865
6	519	30	849
7	497	31	—
8	570		
9	685		
10	514		
11	722		
12	639		
13	617		
14	510		
15	0		
16	0		
17	264		
18	427		
19	583		
20	644		
21	359		
22	574		
23	665		
24	436		

DAILY PLANT POWER OUTPUT

IV. MONTH July, 1974

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	822	25	855
2	293	26	641
3	592	27	0
4	68	28	0
5	501	29	0
6	516	30	0
7	671	31	0
8	689		
9	799		
10	805		
11	806		
12	766		
13	604		
14	596		
15	593		
16	601		
17	599		
18	785		
19	838		
20	838		
21	794		
22	792		
23	0		
24	470		

DAILY PLANT POWER OUTPUT

V. MONTH August, 1974

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	0	25	469
2	0	26	592
3	0	27	551
4	0	28	464
5	0	29	327
6	0	30	418
7	519	31	255
8	152		
9	562		
10	432		
11	422		
12	659		
13	737		
14	741		
15	793		
16	818		
17	733		
18	685		
19	669		
20	700		
21	855		
22	711		
23	845		
24	526		

DAILY PLANT POWER OUTPUT

VI. MONTH April, 1975

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	0	25	848
2	0	26	850
3	0	27	735
4	70	28	810
5	0	29	666
6	197	30	845
7	122	31	—
8	680		
9	649		
10	656		
11	657		
12	646		
13	604		
14	543		
15	284		
16	346		
17	856		
18	843		
19	809		
20	615		
21	821		
22	855		
23	865		
24	848		

DAILY PLANT POWER OUTPUT

VII. MONTH May, 1975

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	841	25	838
2	678	26	839
3	0	27	838
4	0	28	840
5	601	29	837
6	818	30	845
7	818	31	843
8	852		
9	857		
10	852		
11	847		
12	858		
13	853		
14	856		
15	849		
16	854		
17	777		
18	418		
19	448		
20	723		
21	847		
22	840		
23	849		
24	844		

DAILY PLANT POWER OUTPUT

VIII MONTH June, 1975

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	664	25	814
2	366	26	831
3	444	27	575
4	816	28	761
5	840	29	826
6	845	30	656
7	847	31	–
8	837		
9	833		
10	843		
11	842		
12	842		
13	834		
14	873		
15	797		
16	840		
17	846		
18	842		
19	468		
20	843		
21	839		
22	837		
23	815		
24	840		

DAILY PLANT POWER OUTPUT

IX. MONTH July, 1975

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	821	25	803
2	815	26	809
3	828	27	807
4	818	28	759
5	728	29	0
6	717	30	0
7	713	31	0
8	778		
9	768		
10	759		
11	812		
12	700		
13	298		
14	524		
15	82		
16	625		
17	634		
18	744		
19	814		
20	707		
21	530		
22	811		
23	801		
24	818		

DAILY PLANT POWER OUTPUT

X. MONTH August, 1975

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	0	25	697
2	0	26	821
3	0	27	838
4	0	28	841
5	0	29	642
6	0	30	559
7	0	31	637
8	0		
9	0		
10	0		
11	470		
12	340		
13	429		
14	131		
15	462		
16	730		
17	310		
18	639		
19	688		
20	717		
21	708		
22	291		
23	36		
24	329		

DAILY PLANT POWER OUTPUT

XI. MONTH ~~April, May, June~~, July, August, 1976

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	0	25	0
2	0	26	0
3	0	27	0
4	0	28	0
5	0	29	0
6	0	30	0
7	0	31	0
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	0		
17	0		
18	0		
19	0		
20	0		
21	0		
22	0		
23	0		
24	0		

APPENDIX 1.2

SUMMARY OF CIRCULATING WATER PUMP
OPERATION OF INDIAN POINT UNIT NO. 2
1974 - 1976

Unit II River Water Discharge

March, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1	-	-	0	-	-	-	0	-	10.0
2	-	-	0	-	-	-	0	-	10.0
3	-	-	0	-	-	-	0	-	10.0
4	-	-	0	-	-	-	0	-	12.5
5	-	-	0	-	-	-	0	-	15.0
6	-	-	0	-	-	-	0	-	15.0
7	-	-	0	-	-	-	0	-	15.0
8	-	-	0	-	-	-	0	-	15.0
9	-	-	0	-	-	-	0	-	15.0
10	-	-	0	-	-	-	0	-	10.0
11	-	-	0	-	-	-	0	-	10.0
12	-	-	0	-	-	-	0	-	10.0
13	-	-	0	-	-	-	0	-	60.7
14	1150	-	12^{10}	60	-	-	0	-	136.6
15	-	-	24	60	-	-	0	-	178.0
16	-	-	24	60	-	-	0	-	178.0
17	-	-	24	60	-	-	0	-	178.0
18	-	-	24	60	-	-	0	-	178.0
19	-	-	24	60	-	-	0	-	171.3
20	-	-	24	60	-	-	0	-	182.0
21	-	-	24	60	0413	-	19^{47}	60	402.5
22	-	-	24	60	-	-	24	60	435.0
23	-	-	24	60	-	-	24	60	435.0
24	-	-	24	60	-	-	24	60	435.0
25	-	-	24	60	-	-	24	60	409.3
26	-	-	24	60	-	-	24	60	426.4
27	-	-	24	60	-	-	24	60	394.2
28	-	1120	11^{20}	60	-	-	24	60	395.6
29	-	-	0	-	-	-	24	60	326.0
30	-	-	0	-	-	-	24	60	352.5
31	-	-	0	-	-	-	24	60	356.0

March 1974 Data (Continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
2	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
3	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
4	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
5	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
6	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
7	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
8	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
9	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
10	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
11	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
12	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	-
13	-	-	0	-	-	-	0	-	-	-	0	-	0930	-	14^{30}	60
14	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
15	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
16	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
17	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
18	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
19	-	-	0	-	-	-	0	-	-	-	0	-	0830	0635	22^{05}	60
20	-	-	0	-	-	-	0	-	-	-	0	-	-	-	24	60
21	0215	-	21^{45}	60	-	-	0	-	0248	-	21^{12}	60	-	-	24	60
22	-	-	24	60	-	-	0	-	-	-	24	60	-	-	24	60
23	-	-	24	60	-	-	0	-	-	-	24	60	-	-	24	60
24	-	1145	11^{45}	60	1145	-	12^{15}	60	-	-	24	60	-	-	24	60
25	-	-	0	-	-	-	24	60	-	-	24	60	1135	0415	16^{40}	60
26	-	-	0	-	-	-	24	60	-	-	24	60	-	2133	21^{33}	60
27	-	-	0	-	-	-	24	60	-	-	24	60	1305	-	10^{55}	60
28	-	-	0	-	-	-	24	60	-	-	24	60	-	-	24	60
29	-	-	0	-	-	-	24	60	-	-	24	60	-	1525	15^{25}	60
30	-	-	0	-	-	-	24	60	-	-	24	60	0100	-	23^{00}	60
31	-	-	0	-	-	-	24	60	-	-	24	60	-	-	24	60

Unit II River Water Discharge

April, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1	-	-	0	-	-	-	24	60	356.0
2	-	-	0	-	-	-	24	60	356.0
3	-	-	0	-	-	-	24	60	356.0
4	-	-	0	-	-	-	24	60	356.0
5	-	-	0	-	-	-	24	60	356.0
6	-	-	0	-	-	-	24	60	351.0
7	-	-	0	-	-	-	24	60	272.0
8	-	-	0	-	-	-	24	60	279.0
9	-	-	0	-	-	-	24	60	321.0
10	-	-	0	-	-	-	24	60	362.7
11	-	-	0	-	-	-	24	60	397.7
12	1835	2232	3^{57}	60	-	-	24	60	411.2
13	-	-	0	-	-	-	24	60	435.0
14	-	-	0	-	-	-	24	60	435.0
15	-	-	0	-	-	-	24	60	435.0
16	0835	-	15^{25}	60	-	-	24	60	459.5
17	-	-	24	60	-	-	24	60	435.0
18	-	-	24	60	-	-	24	60	449.2
19	-	2000	20^{00}	60	-	2000	20^{00}	60	450.8
20	-	-	0	-	-	-	0	-	104.0
21	-	-	0	-	-	-	0	-	104.0
22	-	-	0	-	-	-	0	-	104.0
23	-	-	0	-	-	-	0	-	133.2
24	-	-	0	-	-	-	0	-	226.6
25	1753	-	6^{07}	100	-	-	0	-	151.8
26	-	-	24	100	0830	-	15^{30}	100	356.7
27	-	-	24	100	-	-	24	100	435.0
28	-	-	24	100	-	-	24	100	496.0
29	-	-	24	100	-	-	24	100	719.5
30	-	-	24	100	-	-	24	100	720.0

April 1974 Data (continued)

Date	CIRCULATOR 23 On	CIRCULATOR 23 Off	CIRCULATOR 23 Hrs	CIRCULATOR 23 %Flow	CIRCULATOR 24 On	CIRCULATOR 24 Off	CIRCULATOR 24 Hrs	CIRCULATOR 24 %Flow	CIRCULATOR 25 On	CIRCULATOR 25 Off	CIRCULATOR 25 Hrs	CIRCULATOR 25 %Flow	CIRCULATOR 26 On	CIRCULATOR 26 Off	CIRCULATOR 26 Hrs	CIRCULATOR 26 %Flow
1	–	–	0	–	–	–	24	60	–	–	24	60	–	–	24	60
2	–	–	0	–	–	–	24	60	–	–	24	60	–	–	24	60
3	–	–	0	–	–	–	24	60	–	–	24	60	–	–	24	60
4	–	–	0	–	–	–	24	60	–	–	24	60	–	–	24	60
5	–	–	0	–	–	–	24	60	–	–	24	60	–	–	24	60
6	–	–	0	–	–	–	24	60	–	–	24	60	–	2235	22^{35}	60
7	–	–	0	–	–	–	24	60	–	–	24	60	–	–	0	–
8	–	–	0	–	–	–	24	60	–	–	24	60	2035	–	3^{25}	60
9	–	–	0	–	–	–	24	60	1920	1045	15^{25}	60	–	–	24	60
10	0210 2045	0215	3^{20}	60	–	–	24	60	–	–	24	60	–	–	24	60
11	1320	0240	13^{20}	60	–	–	24	60	–	–	24	60	–	–	24	60
12	–	–	24	60	2350	1035	13^{15}	60	–	–	24	60	–	–	24	60
13	–	–	24	60	–	–	24	60	–	–	24	60	–	–	24	60
14	–	–	24	60	–	–	24	60	–	–	24	60	–	–	24	60
15	–	–	24	60	–	–	24	60	–	–	24	60	–	–	24	60
16	–	–	24	60	–	1525	15^{25}	60	–	–	24	60	–	–	24	60
17	–	–	24	60	–	–	0	–	–	–	24	60	–	–	24	60
18	–	–	24	60	2020	–	3^{40}	60	–	–	24	60	–	–	24	60
19	–	2000	20^{00}	60	–	1905	19^{05}	60	–	2000	20^{00}	60	–	–	24	60
20	–	–	0	–	–	–	0	–	–	–	0	–	–	–	24	60
21	–	–	0	–	–	–	0	–	–	–	0	–	–	–	24	60
22	–	–	0	–	–	–	0	–	–	–	0	–	–	–	24	60
23	–	–	0	–	1540	–	8^{24}	60	–	–	0	–	–	–	24	60
24	0958	–	14^{02}	60	–	2100	21^{00}	60	–	–	0	–	–	–	24	60
25	–	1753	17^{53}	60	–	–	0	–	–	–	0	–	–	1055	10^{55}	60
26	–	–	0	–	–	–	0	–	0500	–	19^{00}	100	–	–	0	–
27	–	–	0	–	–	–	0	–	–	–	24	100	–	–	0	–
28	1842	–	5^{18}	100	–	–	0	–	–	–	24	100	1842	–	5^{18}	100
29	–	–	24	100	–	–	0	–	–	–	24	100	–	–	24	100
30	–	–	24	100	–	–	0	–	–	–	24	100	–	–	24	100

Unit II River Water Discharge

May, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	
1	18:30	14:15	19:45	100	-	-	24:00	100	694.0
2	-	11:30	11:30	100	-	-	24:00	100	642.1
3	-	-	0	100	-	11:30	11:30	100	356.2
4	-	-	0	100	15:35	-	08:25	100	309.6
5	-	-	0	100	-	-	24:00	100	570.0
6	-	-	0	100	-	-	24:00	100	570.0
7	-	-	0	100	-	-	24:00	100	575.0
8	14:50	-	09:10	100	-	-	24:00	100	581.3
9	-	-	24:00	100	-	-	24:00	100	575.9
10	-	19:15	19:15	100	-	-	24:00	100	630.9
11	-	-	0	100	-	-	24:00	100	299.0
12	-	-	0	100	-	-	24:00	100	300.0
13	07:10	23:40	16:30	100	-	23:40	23:40	100	582.7
14	-	-	0	100	-	-	0	100	229.1
15	-	-	0	100	-	-	0	100	215.0
16	-	-	0	100	-	-	0	100	160.0
17	-	-	0	100	-	-	0	100	160.0
18	17:40	-	06:20	100	18:40	-	05:40	100	285.9
19	-	-	24:00	100	-	-	24:00	100	720.0
20	-	-	24:00	100	-	-	24:00	100	720.0
21	-	-	24:00	100	-	-	24:00	100	720.0
22	-	-	24:00	100	-	-	24:00	100	786.3
23	-	-	24:00	100	-	-	24:00	100	720.0
24	-	-	24:00	100	-	-	24:00	100	720.0
25	-	-	24:00	100	-	-	24:00	100	720.0
26	-	-	24:00	100	-	-	24:00	100	720.0
27	-	-	24:00	100	-	-	24:00	100	784.6
28	-	-	24:00	100	-	-	24:00	100	860.0
29	-	-	24:00	100	-	-	24:00	100	860.0
30	-	-	24:00	100	-	-	24:00	100	860.0
31	-	-	24:00	100	-	-	24:00	100	860.0

May 1974 Data (continued)

Date	CIRCULATOR 23 On	Off	Hrs	%Flow	CIRCULATOR 24 On	Off	Hrs	%Flow	CIRCULATOR 25 On	Off	Hrs	%Flow	CIRCULATOR 26 On	Off	Hrs	%Flow
1	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
2	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
3	-	11:30	11:30	100	-	-	0	100	-	-	24:00	100	-	11:30	11:30	100
4	14:56	-	09:07	100	-	-	0	100	-	-	24:00	100	14:35	-	09:07	100
5	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
6	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
7	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
8	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	16:00	16:00	100
9	-	-	24:00	100	20:02	21:32	01:30	100	-	-	24:00	100	19:07	-	04:53	100
10	-	19:16	19:16	100	-	-	0	100	-	-	24:00	100	-	19:17	19:17	100
11	-	-	0	100	-	-	0	100	-	-	24:00	100	-	-	0	100
12	-	-	0	100	-	-	0	100	-	-	24:00	100	-	-	0	100
13	07:25	-	16:35	100	-	-	0	100	-	23:40	23:40	100	07:37	23:40	16:03	100
14	-	-	24:00	100	12:10	-	11:50	100			0				0	
15	-	-	24:00	100	-	09:25	09:25	100			0				0	
16	-	-	24:00	100	-	-	0	100			0				0	
17	-	-	24:00	100	-	-	0	100			0				0	
18	-	-	24:00	100	-	-	0	100	19:05	-	04:55	100	19:20	-	04:40	100
19	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
20	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
21	-	-	24:00	100	-	-	0	100	-	-	24:00	100	-	-	24:00	100
22	-	-	24:00	100	13:30	-	10:30	100	-	13:31	13:31	100	-	-	24:00	100
23	-	-	24:00	100	-	-	24:00	100			0		-	-	24:00	100
24	-	-	24:00	100	-	-	24:00	100			0		-	-	24:00	100
25	-	-	24:00	100	-	-	24:00	100			0		-	-	24:00	100
26	-	-	24:00	100	-	-	24:00	100			0		-	-	24:00	100
27	-	-	24:00	100	-	-	24:00	100	12:56	-	11:04	100	-	-	24:00	100
28	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100
29	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100
30	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100
31	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100	-	-	24:00	100

Unit II River Water Discharge

June, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH. GPM x 10³
1	-	-	2400	100	-	-	2400	100	860.0
2	-	-	2400	100	-	-	2400	100	860.0
3	-	-	2400	100	-	11^{10}	11^{10}	100	770.0
4	-	-	2400	100	-	-	0	0	725.0
5	-	-	2400	100	1833	-	5^{22}	100	756.2
6	-	-	2400	100	-	-	2400	100	860.0
7	-	-	2400	100	-	-	2400	100	860.0
8	-	-	2400	100	-	-	2400	100	860.0
9	-	-	2400	100	-	-	2400	100	860.0
10	-	-	2400	100	-	-	2400	100	860.0
11	-	-	2400	100	-	-	2400	100	860.0
12	-	-	2400	100	-	-	2400	100	860.0
13	-	-	2400	100	-	-	2400	100	860.0
14	-	2241	22^{41}	100	-	-	2400	100	774.2
15	-	-	0	0	-	-	2400	100	300.0
16	-	-	0	0	-	-	2400	100	324.4
17	0030	-	23^{30}	100	-	-	2400	100	845.2
18	-	-	2400	100	-	-	2400	100	860.0
19	-	-	2400	100	-	-	2400	100	798.4
20	-	1430	1430	100	-	-	2400	100	664.6
21	1145	-	1215	100	-	-	2400	100	725.1
22	1903	1230	1230	100	-	-	2400	100	750.1
23	-	1415	1415	100	-	-	2400	100	383.1
24	0725	-	1635	100	-	2148	2148	100	605.8
25	-	-	2400	100	0820	-	1540	100	656.0
26	-	-	2400	100	-	-	2400	100	791.4
27	-	-	2400	100	-	-	2400	100	860.0
28	-	-	2400	100	-	-	2400	100	838.9
29	-	-	2400	100	-	-	2400	100	790.8
30	-	2007	2007	100	-	-	2400	100	837.3

June 1974 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
2	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
3	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
4	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
5	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
6	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
7	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
8	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
9	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
10	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
11	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
12	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
13	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
14	-	2241	22^{41}	100	-	-	2400	100	-	2241	22^{41}	100	-	1315	13^{15}	100
15	-	-	0	0	-	-	2400	100	-	-	0	0	-	-	0	0
16	-	-	0	0	-	-	2400	100	-	-	0	0	1950	-	4^{10}	100
17	0048	-	23^{12}	100	-	-	2400	100	0115	-	22^{45}	100	-	-	2400	100
18	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
19	-	1326	13^{26}	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
20	-	-	0	0	-	-	2400	100	-	-	2400	100	-	-	2400	100
21	1122	-	1238	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
22	-	1907	1907	100	-	-	2400	100	-	1935	1935	100	1130	0830	2100	100
23	-	-	0	0	-	-	2400	100	-	-	0	0	-	-	0	0
24	1440	-	0920	100	-	2148	2148	100	1456	-	0907	100	-	2148	2148	100
25	-	1220	1220	100	0730	-	1630	100	-	-	2400	100	0730	-	1630	100
26	1145	-	1215	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
27	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
28	-	1840	1840	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
29	1335	-	1025	100	-	-	2400	100	-	-	2400	100	-	-	2400	100
30	-	-	2400	100	-	-	2400	100	-	-	2400	100	-	-	2400	100

Unit II River Water Discharge

July, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH. GPM x 10^3
1	11^{33}	-	12^{27}	100	-	-	24	100	792.6
2	-	-	24	100	-	-	24	100	860.0
3	-	-	24	100	-	-	24	100	860.0
4	-	-	24	100	-	-	24	100	752.8
5	-	-	24	100	-	-	24	100	703.4
6	-	-	24	100	-	-	24	100	860.0
7	-	-	24	100	-	-	24	100	860.0
8	-	-	24	100	-	-	24	100	860.0
9	-	-	24	100	-	-	24	100	860.0
10	-	-	24	100	-	-	24	100	860.0
11	-	-	24	100	-	-	24	100	860.0
12	-	-	24	100	-	-	24	100	860.0
13	-	13^{30}	13^{30}	100	-	-	24	100	798.8
14	-	-	-	100	-	-	24	100	593.8
15	14^{53}	-	9^{07}	100	-	-	24	100	633.2
16	-	-	24	100	-	-	24	100	720.3
17	-	-	24	100	-	-	24	100	720.0
18	-	-	24	100	-	16^{50}	16^{50}	100	722.8
19	-	-	24	100	01^{20}	-	22^{40}	100	839.0
20	16^{25}	14^{05} 20^{45}	18^{25}	100	20^{45}	16^{25}	19^{40}	100	720.0
21	12^{12}	-	11^{48}	100	20^{24}	12^{39}	16^{15}	100	669.1
22	-	-	24	100	-	-	24	100	709.5
23	-	-	24	100	-	-	24	100	860.0
24	-	-	24	100	-	-	24	100	860.0
25	-	-	24	100	-	-	24	100	860.0
26	-	-	24	100	-	-	24	100	860.0
27	-	08^{10}	08^{10}	100	-	08^{10}	08^{10}	100	398.0
28	-	-	-	100	-	-	-	100	160.0
29	-	-	-	100	-	-	-	100	165.0
30	-	-	-	100	-	-	-	100	165.0
31	14^{55}	-	9^{05}	100	-	-	-	100	222.0

July 1974 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
2	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
3	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
4	-	14^{45}	14^{45}	100	-	-	24	100	-	-	24	100	-	14^{45}	14^{45}	100
5	13^{25}	-	10^{35}	100	-	-	24	100	-	-	24	100	13^{25}	-	10^{35}	100
6	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
7	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
8	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
9	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
10	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
11	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
12	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
13	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
14	-	-	24	100	-	-	24	100	-	-	24	100	-	19^{30}	19^{30}	100
15	-	-	24	100	-	-	24	100	-	-	24	100	-	-	-	100
16	-	-	24	100	-	-	24	100	-	-	24	100	-	-	-	100
17	-	-	24	100	-	-	24	100	-	18^{45}	18^{45}	100	18^{45}	-	5^{15}	100
18	-	-	24	100	-	-	24	100	16^{15}	-	7^{45}	100	-	-	24	100
19	-	-	24	100	-	-	24	100	-	-	24	100	-	21^{45}	21^{45}	100
20	-	-	24	100	-	-	24	100	-	-	24	100	14^{05}	-	9^{55}	100
21	20^{29}	12^{12} 21^{45}	13^{28}	100	-	-	24	100	-	21^{45}	21^{45}	100	-	-	24	100
22	12^{48}	-	11^{12}	100	-	-	24	100	13^{00}	-	11	100	-	-	24	100
23	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
24	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
25	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
26	-	-	24	100	-	-	24	100	-	-	24	100	-	-	24	100
27	-	-	24	100	-	08^{10}	8^{10}	100	-	08^{10}	8^{10}	100	-	08^{10}	8^{10}	100
28	-	-	24	100	-	-	-	100	-	-	-	100	-	-	-	100
29	-	-	24	100	-	-	-	100	-	-	-	100	-	-	-	100
30	-	-	24	100	-	-	-	100	-	-	-	100	-	-	-	100
31	-	-	24	100	-	-	-	100	-	-	-	100	-	-	-	100

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Unit 2 River Water Discharge

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1	-	-	24	100%		-	-	100%	301.8
2	-	-	24		-	-	-		301.3
3	-	-	24		-	-	-		305.0
4	-	16^{20}	7^{40}		-	-	-		209.7
5	-	-	-		-	-	-		165.0
6	0853 1050	19^{00}	10^{37}		10^{17}	-	13^{43}		466.5
7	-	-	24		-	-	24		860.0
8	-	-	24		-	-	24		865.0
9	-	-	24		50^{30}	-	23^{30}		766.7
10	-	-	24		-	-	24		725.0
11	-	-	24		-	-	24		739.7
12	-	-	24		-	-	24		803.9
13	20^{50}	20^{15}	23^{25}		21^{42}	21^{10}	23^{28}		800.6
14	22^{15}	18^{00}	19^{45}		-	23^{00}	23^{00}		820.1
15	-	-	24		03^{25}	-	20^{35}		828.2
16	-	-	24		-	-	24		860.0
17	-	-	24		-	-	24		860.0
18	-	-	24		-	-	24		814.0
19	-	-	24		-	-	24		795.0
20	-	-	24		-	-	24		860.0
21	-	-	24		-	-	24		860.0
22	-	-	24		-	-	24		860.0
23	-	-	24		-	-	24		860.0
24	-	-	24		-	-	24		848.4
25	-	-	24		-	-	24		835.4
26	-	-	24		-	-	24		860.0
27	-	-	24		-	-	24		860.0
28	-	-	24		-	-	24		860.0
29	-	-	24		-	-	24		860.0
30	-	-	24		-	-	24		860.0
31	-	-	24		-	-	24		860.0

August 1974 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1	-	-	24	100%	-	-	-	100%	-	-	-	100%	-	-	-	100%
2	-	-	24		-	-	-		-	-	-		-	-	-	
3	-	-	24		-	-	-		-	-	-		-	-	-	
4	-	-	24		-	-	-		-	-	-		-	-	-	
5	-	-	24		-	-	-		-	-	-		-	-	-	
6	-	-	24		10^{17}	-	13^{43}		10^{35}		13^{25}		09^{32}	-	14^{28}	
7	-	-	24		-	-	24		-	-	24		-	-	24	
8	-	-	24		-	-	24		-	-	24		-	-	24	
9	-	-	24		-	-	24		-	-	24		20^{37}	1215 2140	13^{18}	
10	-	-	24		-	-	24		-	-	24		-	-	-	
11	-	-	24		-	-	24		-	-	24		21^{35}	-	2^{25}	
12	-	14^{23}	14^{23}		-	-	24		-	-	24		-	-	24	
13	0744	2205	14^{56}		-	-	24		-	-	24		-	-	24	
14	2210 0000	2245 -	24		02^{05}	01^{30}	23^{25}		03^{05}	02^{35}	23^{30}		04^{30}	04^{00}	23^{30}	
15	0802	04^{00}	21^{58}		-	-	24		-	-	24		-	-	24	
16	-	-	24		-	-	24		-	-	24		-	-	24	
17	-	-	24		-	-	24		-	-	24		-	-	24	
18	-	16^{07}	16^{07}		-	-	24		-	-	24		-	-	24	
19	10^{25}	-	13^{35}		-	-	24		-	-	24		-	-	24	
20	-	-	24		-	-	24		-	-	24		-	-	24	
21	-	-	24		-	-	24		-	-	24		-	-	24	
22	-	-	24		-	-	24		-	-	24		-	-	24	
23	-	-	24		-	-	24		-	-	24		-	-	24	
24	-	-	24		-	-	24		0315	0235 2530	2250		0235 0350	0221 0315	23^{11}	
25	03^{05}	01^{22}	22^{17}		-	-	24		02^{30}	-	21^{30}		-	-	24	
26	-	-	24		-	-	24		-	-	24		-	-	24	
27	-	-	24		-	-	24		-	-	24		-	-	24	
28	-	-	24		-	-	24		-	-	24		-	-	24	
29	-	-	24		-	-	24		-	-	24		-	-	24	
30	-	-	24		-	-	24		-	-	24		-	-	24	
31	-	-	24		-	-	24		-	-	24		-	-	24	

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Unit 2 River Water Discharge

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM X10^3
1	-	-	24	100%	-	-	24	100%	860.0
2	-	-	24		-	-	24		860.0
3	-	-	24		-	-	24		860.0
4	-	-	24		-	-	24		860.0
5			24				24		859.2
6			24				24		855.0
7		01^{45}	1:45			01^{45}	1:45		335.8
8			0				0		298.2
9			0				0		305.0
10	01^{50}		22:10		02^{00}		22:00		811.6
11			24				24		860.0
12			24				24		836.7
13			24				24		860.0
14			24				24		860.0
15			24				24		860.0
16			24				24		783.7
17	04^{30}	00:35	20:05				24		814.3
18			24		03:45	01:00	21:15		828.3
19	06:25	01:50	19.25				24		666.5
20			24				24		720.0
21			24				24		720.0
22			24				24		720.0
23			24				24		720.0
24			24				24		720.0
25			24				24		722.4
26			24				24		720.0
27			24				24		720.0
28			24				24		720.0
29			24				24		720.0
30			24			13:15	13:15		533.0

September 1974 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1	-	-	24	100%	-	-	24	100%								
2	-	-	24		-	-	24		-	-	24	100%	-	-	24	100%
3	-	-	24		-	-	24		-	-	24		-	-	24	
4	-	-	24		-	-	24		-	-	24		-	-	24	
5			24				24		-	-	24		-	-	24	
6			24				24				24				24	
7			24			01 45	1 45				24				24	
8			24				0				24			01 45	1 45	
9			24				0				24				0	
10			24		02:10		12:50				24				0	
11			24				24				24		02:23		21:37	
12	17:07	13:07	20				24				24				24	
13			24				24				24				24	
14			24				24				24				24	
15			24				24				24				24	
16			24			07:45	7:45				24				24	
17			24				0				24				24	
18			24				0				24		04:30	00:35	20:05	
19			24				0		03:45	01:00	21:15				24	
20			24				0				24		06:25	01:50	19:25	
21			24				0				24				24	
22			24				0				24				24	
23			24				0				24				24	
24			24				0				24				24	
25			24				0				24				24	
26			24				0				24				24	
27			24				0				24				24	
28			24				0				24				24	
29			24				0				24				24	
30		13:15	13:15				0				24				24	
31											24			13:15	13:15	
											24				24	

Unit 2 River Water Discharge

October, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			24	100%			0	100%	305.0
2			24	100%			0	100%	305.0
3			24	100%			0	100%	305.0
4			24	100%			0	100%	305.0
5			24	100%			0	100%	163.5
6			24	100%			0	100%	160.0
7			24	100%			0	100%	160.0
8			24	100%			0	100%	160.0
9			24	100%			0	100%	155.8
10			24	100%			0	100%	155.0
11			24	100%	05^{30}		18^{30}	100%	510.0
12			24	100%			24	100%	718.9
13			24	100%			24	100%	720.0
14			24	100%			24	100%	720.0
15			24	100%			24	100%	720.0
16			24	100%			24	100%	708.3
17			24	100%			24	100%	720.0
18			24	100%			24	100%	716.8
19			24	100%			24	100%	720.0
20			24	100%			24	100%	720.0
21			24	100%			24	100%	720.0
22			24	100%			24	100%	720.0
23			24	100%			24	100%	720.0
24			24	100%			24	100%	720.0
25			24	100%			24	100%	720.0
26			24	100%			24	100%	708.3
27			24	100%			24	100%	716.3
28			24	100%			24	100%	715.0
29			24	100%			24	100%	715.0
30			24	100%			24	100%	715.0
31			24	100%			24	100%	715.0

October 1974 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1			0	100%			0	100%			24	100%			0	100%
2			0	100%			0	100%			24	100%			0	100%
3			0	100%			0	100%			24	100%			0	100%
4			0	100%			0	100%			24	100%			0	100%
5			0	100%			0	100%		00^{35}	00^{35}	100%			0	100%
6			0	100%			0	100%			0	100%			0	100%
7			0	100%			0	100%			0	100%			0	100%
8			0	100%			0	100%			0	100%			0	100%
9			0	100%			0	100%			0	100%			0	100%
10			0	100%			0	100%			0	100%			0	100%
11	05^{30}		18^{30}	100%			0	100%	05^{57}		18^{03}	100%	05^{57} 21^{30}	09^{45}	6^{18}	100%
12			24	100%			0	100%			24	100%			24	100%
13			24	100%			0	100%			24	100%			24	100%
14			24	100%			0	100%			24	100%			24	100%
15			24	100%			0	100%			24	100%			24	100%
16			24	100%			0	100%			24	100%	08^{05}	06^{05}	22	100%
17			24	100%			0	100%			24	100%			24	100%
18			24	100%			0	100%			24	100%	06^{48}	06^{15}	23^{27}	100%
19			24	100%			0	100%			24	100%			24	100%
20			24	100%			0	100%			24	100%			24	100%
21			24	100%			0	100%			24	100%			24	100%
22			24	100%			0	100%			24	100%			24	100%
23			24	100%			0	100%			24	100%			24	100%
24			24	100%			0	100%			24	100%			24	100%
25			24	100%			0	100%			24	100%			24	100%
26			24	100%			0	100%			24	100%			24	100%
27			24	100%			0	100%			24	100%			24	100%
28			24	100%			0	100%			24	100%			24	100%
29			24	100%			0	100%			24	100%			24	100%
30			24	100%			0	100%			24	100%			24	100%
31			24	100%			0	100%			24	100%			24	100%

Unit 2 River Water Discharge

Nov., 1974

Date	CIRCULATOR #21 On	Off	Hrs	%Flow	CIRCULATOR #22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			24	100%			24	100%	684.2
2	17^{40}	07^{10}	13^{30}	100%/60%		17^{41}	17^{41}	100%	614.8
3			24	60%	04^{20}		19^{40}	60%	475.9
4	20^{08}	18^{35}	22^{27}	60%			24	60%	476.2
5			24	60%			24	60%	491.0
6			24	60%			24	60%	414.4
7			24	60%			24	60%	435.0
8			24	60%			24	60%	440.0
9	18^{15}	11^{58}	17^{43}	60%		03^{50}	3^{50}	60%	122.9
10			24	60%			0	60%	267.0
11			24	60%	0^{50}		23^{10}	60%	358.9
12			24	60%			24	60%	435.0
13			24	60%			24	60%	435.0
14			24	60%			24	60%	435.0
15			24	60%			24	60%	440.0
16			24	60%			24	60%	440.0
17			24	60%			24	60%	440.0
18			24	60%			24	60%	440.0
19			24	60%			24	60%	440.0
20			24	60%			24	60%	440.0
21			24	60%			24	60%	440.0
22			24	60%			24	60%	440.0
23			24	60%		04^{42}	4^{42}	60%	363.4
24	05^{40}	04^{20}	22^{40}	60%			0	60%	334.5
25			24	60%			0	60%	351.0
26			24	60%			0	60%	351.0
27			24	60%			0	60%	351.0
28			24	60%			0	60%	351.0
29			24	60%			0	60%	351.0
30			24	60%			0	60%	351.0

November 1974 Data (continued)

Date	CIRCULATOR #23 On	Off	Hrs	%Flow	CIRCULATOR #24 On	Off	Hrs	%Flow	CIRCULATOR #25 On	Off	Hrs	%Flow	CIRCULATOR #26 On	Off	Hrs	%Flow
1			24	100%			-	100%		18^{45}	18^{45}	100%			24	100%
2			24	100%			-	100%	01^{03}		22^{57}	100%/60%	05^{30}	01^{15}	19^{45}	100%/60%
3			24	100%			-	100%			24				24	
4	21^{55}	21^{20}	23^{25}	100%			-	100%			24				24	
5			24	100%			-	100%			24				24	
6	21^{10}	09^{10}	12^{00}	100%/60%			-	100%			24				24	
7			24	60%			-	100%			24				24	
8			24	60%			-	100%			24				24	
9	18^{15}	11^{58}	17^{43}	60%			-	100%	18^{15}	11^{58}	17^{43}			03^{50}	3^{50}	
10			24	60%			-	100%			24				0	
11			24	60%			-	100%			24		0^{55}		23^{05}	
12			24	60%			-	100%			24				24	
13			24	60%			-	100%			24				24	
14			24	60%			-	100%			24				24	
15			24	60%			-	100%			24				24	
16			24	60%			-	100%			24				24	
17			24	60%			-	100%			24				24	
18			24	60%			-	100%			24				24	
19			24	60%			-	100%			24				24	
20			24	60%			-	100%			24				24	
21			24	60%			-	100%			24				24	
22			24	60%			-	100%			24				24	
23			24	60%			-	100%			24			22^{30}	22^{30}	
24	03^{50}	02^{47}	22^{57}	60%			-	100%	02^{27}	00^{47}	22^{20}		00^{40}		23^{20}	
25			24	60%			-	100%			24				24	
26			24	60%			-	100%			24				24	
27			24	60%			-	100%			24				24	
28			24	60%			-	100%			24				24	
29			24	60%			-	100%			24				24	
30			24	60%			-	100%			24				24	

Unit 2 River Water Discharge

December, 1974

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., CFM X 10³
1			24	60%			-	60%	351.0
2			24				-		351.0
3			24				-		351.0
4			24				-		351.0
5			24				-		303.2
6			24				-		267.0
7			24				-		267.0
8			24				-		267.0
9			24				-		267.0
10			24				-		267.0
11			24				-		267.0
12			24				-		267.0
13			24				-		267.0
14			24				-		267.0
15			24				-		267.0
16			24				-		267.0
17			24				-		267.0
18			24				-		267.0
19			24				-		267.0
20			24				-		267.0
21			24				-		267.0
22			24				-		267.0
23			24				-		267.0
24			24				-		267.0
25			24				-		267.0
26			24				-		267.0
27			24				-		267.0
28			24				-		269.1
29			24				-		267.0
30			24				-		267.0
31			24				-		

December 1974 Data (continued)

Date	CIRCULATOR 23 On	Off	Hrs	%Flow	CIRCULATOR 24 On	Off	Hrs	%Flow	CIRCULATOR 25 On	Off	Hrs	%Flow	CIRCULATOR 26 On	Off	Hrs	%Flow
1			24	60%			-	60%			24	60%			24	60%
2			24				-				24				24	
3			24				-				24				24	
4			24				-				24				24	
5			24				-				24			13:40	13:40	
6			24				-				24				-	
7			24				-				24				-	
8			24				-				24				-	
9			24				-				24				-	
10			24				-				24				-	
11			24				-				24				-	
12			24				-				24				-	
13			24				-				24				-	
14			24				-				24				-	
15			24				-				24				-	
16			24				-				24				-	
17			24				-				24				-	
18			24				-				24				-	
19			24				-				24				-	
20			24				-				24				-	
21			24				-				24				-	
22			24				-				24				-	
23			24				-				24				-	
24			24				-				24				-	
25			24				-				24				-	
26			24				-				24				-	
27			24				-				24				-	
28			24				-				24				-	
29			24				-				24				-	
30			24				-				24				-	
31			24				-				24				-	

Unit 2 River Water Discharge

January, 1975

Date	CIRCULATOR 21 On	Off	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			24	60%			-	60%	190.8
2			24	60%			-	60%	99.0
3			24	60%			-	60%	99.0
4			24	60%			-	60%	115.3
5			24	60%			-	60%	267.0
6			24	60%			-	60%	266.8
7			24	60%			-	60%	262.0
8			24	60%			-	60%	262.0
9			24	60%			-	60%	262.0
10			24	60%			-	60%	262.0
11			24	60%			-	60%	262.6
12			24	60%	11:05		12:55	60%	310.5
13			24	60%			24	60%	351.5
14			24	60%			24	60%	351.0
15			24	60%			24	60%	351.0
16			24	60%			24	60%	351.0
17			24	60%			24	60%	351.0
18			24	60%			24	60%	351.0
19			24	60%			24	60%	351.0
20			24	60%			24	60%	351.0
21			24	60%			24	60%	351.0
22			24	60%			24	60%	351.0
23			24	60%			24	60%	351.0
24			24	60%			24	60%	351.0
25			24	60%			24	60%	351.0
26			24	60%			24	60%	351.0
27			24	60%			24	60%	351.0
28			24	60%			24	60%	351.0
29			24	60%			24	60%	351.0
30			24	60%			24	60%	351.0
31			24	60%		07:50	7:50	60%	268.8

January 1975 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1		12:55	12:55	60%			-			12:55	12:55	60%			-	60%
2			-	60%			-				-	60%			-	60%
3	21:40		2:20	60%			-		21:40		2:20	60%			-	60%
4			24	60%			-				24	60%			-	60%
5			24	60%			-				24	60%			-	60%
6			24	60%			-				24	60%			-	60%
7			24	60%			-				24	60%			-	60%
8			24	60%			-				24	60%			-	60%
9			24	60%			-				24	60%			-	60%
10			24	60%			-				24	60%			-	60%
11			24	60%			-				24	60%			-	60%
12			24	60%			-				24	60%			-	60%
13			24	60%			-				24	60%			-	60%
14			24	60%			-				24	60%			-	60%
15			24	60%			-				24	60%			-	60%
16			24	60%			-				24	60%			-	60%
17			24	60%			-				24	60%			-	60%
18			24	60%			-				24	60%			-	60%
19			24	60%			-				24	60%			-	60%
20			24	60%			-				24	60%			-	60%
21			24	60%			-				24	60%			-	60%
22			24	60%			-				24	60%			-	60%
23			24	60%			-				24	60%			-	60%
24			24	60%			-				24	60%			-	60%
25			24	60%			-				24	60%			-	60%
26			24	60%			-				24	60%			-	60%
27			24	60%			-				24	60%			-	60%
28			24	60%			-				24	60%			-	60%
29			24	60%			-				24	60%			-	60%
30			24	60%			-				24	60%			-	60%
31		07:50	7:50	60%			-			07:50	7:50	60%			-	60%

Unit 2 River Water Discharge

February, 1975

Date	CIRCULATOR 21 ON	OFF	Hrs	%Flow	CIRCULATOR 22 On	Off	Hrs	%Flow	AVG. TOTAL UNIT DISCH., GPM x 10^3
1		14:45	14:45	60%			-	60%	99.0
2	22:12		01:48	60%	22:40		01:20	60%	116.4
3			24:00	60%			24:00	60%	351.0
4			24:00	60%			24:00	60%	352.9
5			24:00	60%			24:00	60%	356.0
6			24:00	60%			24:00	60%	356.0
7			24:00	60%			24:00	60%	356.0
8			24:00	60%			24:00	60%	356.0
9			24:00	60%			24:00	60%	356.0
10			24:00	60%			24:00	60%	356.0
11			24:00	60%			24:00	60%	356.0
12			24:00	60%			24:00	60%	356.0
13			24:00	60%			24:00	60%	356.0
14			24:00	60%			24:00	60%	356.0
15			24:00	60%			24:00	60%	356.0
16			24:00	60%			24:00	60%	356.0
17			24:00	60%			24:00	60%	356.0
18			24:00	60%			24:00	60%	356.0
19			24:00	60%			24:00	60%	356.0
20			24:00	60%			24:00	60%	356.0
21			24:00	60%			24:00	60%	356.0
22			24:00	60%			24:00	60%	356.0
24			24:00	60%			24:00	60%	356.0
25			24:00	60%			24:00	60%	356.0
26			24:00	60%			24:00	60%	356.0
27			24:00	60%			24:00	60%	356.0
28			24:00	60%			24:00	60%	356.0

February 1975 Data (continued)

	CIRCULATOR 23				CIRCULATOR 24				CIRCULATOR 25				CIRCULATOR 26			
Date	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow	On	Off	Hrs	%Flow
1			-	60%			-		14:45		09:15	60%			-	
2	22:13		01:47	60%			-				24:00	60%			-	
3			24:00	60%			-				24:00	60%			-	
4			24:00	60%			-				24:00	60%			-	
5			24:00	60%			-				24:00	60%			-	
6			24:00	60%			-				24:00	60%			-	
7			24:00	60%			-				24:00	60%			-	
8			24:00	60%			-				24:00	60%			-	
9			24:00	60%			-				24:00	60%			-	
10			24:00	60%			-				24:00	60%			-	
11			24:00	60%			-				24:00	60%			-	
12			24:00	60%			-				24:00	60%			-	
13			24:00	60%			-				24:00	60%			-	
14			24:00	60%			-				24:00	60%			-	
15			24:00	60%			-				24:00	60%			-	
16			24:00	60%			-				24:00	60%			-	
17			24:00	60%			-				24:00	60%			-	
18			24:00	60%			-				24:00	60%			-	
19			24:00	60%			-				24:00	60%			-	
20			24:00	60%			-				24:00	60%			-	
21			24:00	60%			-				24:00	60%			-	
22			24:00	60%			-				24:00	60%			-	
23			24:00	60%			-				24:00	60%			-	
24			24:00	60%			-				24:00	60%			-	
25			24:00	60%			-				24:00	60%			-	
26			24:00	60%			-				24:00	60%			-	
27			24:00	60%			-				24:00	60%			-	
28			24:00	60%			-				24:00	60%			-	

March, 1975

SUBJECT

Unit No. 2
River Water Discharges
By Circulator*

	#21			#22			#23			#24			#25			#26			
DATE	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			24			24			24			0			24			0	356.0
2			24			24			24			0			24			0	358.8
3			24			24			24			0			24			0	346.0
4		11:15	11:15	20:40	16:20	19:40		11:15	11:15			0	20:40	16:20	19:40			0	216.5
5			0			24			0			0			24			0	178.0
6			0			24			0			0			24			0	178.0
7			0			24			0			0			24			0	178.0
8			0			24			0			0			24			0	178.0
9			0			24	19:28		04:32			0		19:28	19:28			0	178.0
10			0			24			24			0			0			0	178.0
11			0			24		19:55	19:55			0			0			0	163.7
12			0		21:18	21:18			0			0	21:18		02:42			0	163.7
13			0			0			0			0			24			0	94.0
14			0			0			0			0			24			0	94.0
15			0			0			0			0			24			0	94.0
16			0			0			0			0			24			0	94.0
17			0			0			0			0			24			0	94.0
18	17:00		07:00			0			0			0	17:00	10:15	17:15			0	96.4
19			24			0			0			0			24			0	183.0
20			24			0			0			0			24			0	183.0
21			24			0			0			0			24			0	183.0
22			24			0			0			0			24			0	183.0
23			24			0			0			0			24			0	181.5
24			24			0			0			0			24			0	178.0
25			24			0			0			0			24			0	178.0
26			24			0			0			0			24			0	178.0
27			24			0			0			0			24			0	183.5
28			24			0			0			0			24			0	184.8
29			24			0			0			0			24			0	178.0
30			24			0			0			0			24			0	178.8
31			24			0			0			0			24			0	183.0

* - All operating circulators at 60% Flow.

2 39 (psd) 6 71 Const.

April, 1975

SUBJECT

Unit No. 2
River Water Discharges
By Circulator

	#21			#22			#23			#24			#25			#26				
Date	On	Off	Hrs	On	Off	Hrs	On	Off	Hrs	On	Off	Hrs	On	Off	Hrs	On	Off	Hrs	Avg. Total Unit Discharge, GPM x 10^3	
1			24			0			0			0			24			0		183.0
2			24			0			0			0			24			0		183.0
3			24			0	22^{55}		01 05			0			24			0		184.4
4			24	08^{42}		15^{18}			24			0			24			0		371.6
5			24			24			24			0			24			0		402.0
6			24			24			24			0			24			0		402.0
7			24			24			24			0			24			0		402.0
8	22^{00}	11^{40}	13^{40}			24			24			0			24			0		370.5
9			24	11^{50}	08^{02}	20^{12}			24			0			24			0		333.1
10			24			24			24			0			24			0		514.0
11			24			24			24			0			24			0		514.0
12			24			24			24			0			24			0		514.0
13			24			24			24			0			24			0		514.0
14			24			24			24			0			24			0		514.0
15			24			24			24			0			24			0		514.0
16			24			24			24	15^{15}	15^{17}	00^{02}			24			0		514.2
17			24			24			24			0			24	14^{40}	15^{05}	00^{25}		516.4
18			24			24			24			0			24	03^{45}	03^{55}	12^{15}		588.7
19			24			24			24			0	20^{35}	09^{34}	12^{59}	11^{55}	21^{10}	21^{10}		611.9
20			24			24			24			0			24			0		575.0
21			24			24			24			0			24			0		575.0
22			24			24			24	14^{03}		09^{57}			24			0		633.0
23			24			24			24			24			24			0		715.0
24		13^{49}	13^{49}			24			24			24			24			0		655.7
25			0			24			24			24			24			0		577.9
26			0			24			24			24			24	10^{10}		13^{50}		660.7
27			0			24			24			24			24			24		720.0
28			0			24			24			24			24			24		720.0
29			0			24			24			24			24			24		720.0
30			0			24			24			24			24			24		720.0

May, 1975

Unit No. 2
River Water Discharge
By Circulator*

	#21			#22			#23			#24			#25			#26			
DATE	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			0			24			24			24			24			24	720.0
2									24			24			24			24	720.0
3								05 15	05 15		05 15	05 15		05 15	05 15		05 15	05 15	282.4
4							01 55		22 05	02 15		21 45	02 23		21 37	02 31		21 29	653.1
5									24			24			24			24	720.0
6											11 20	11 20							646.1
7												0							566.0
8										00 31		23 29							717.0
9												24							723.3
10																			725.0
11																			725.0
12																			725.0
13																			715.1
14																			715.0
15																			715.0
16																			715.0
17																			715.0
18																			714.6
19																			715.0
20																			718.2
21																			720.0
22																			720.0
23																			720.0
24																			720.0
25																			720.0
26																			722.6
27																			725.0
28																			725.0
29																			725.0
30																			803.9
31																			865.0

* ALL OPERATING CIRCULATORS AT 100% FLOW.

2-59 (cad) 6-71 Const

June, 1975

SUBJECT

Unit No. 2
River Water Discharges
By Circulator*

	#21			#22			#23			#24			#25			#26				
Date	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	AVG. TOTAL UNIT DISCH.,	GPM X 10^3
1			24			24			24			24			24			24		865.0
2	17:40	10:35	16:55	17:40	10:35	16:55	14:15	10:35	20:20	17:55	10:35	16:40	17:40	10:35	16:55	17:40	10:35	16:55		629.9
3			24			24			24			24			24			24		858.4
4			24			24			24			24			24			24		860.0
5	18:34	14:15	19:41			24			24			24			24			24		834.8
6			24			24			24			24			24			24		860.0
7			24			24			24			24			24			24		860.0
8			24			24			24			24			24			24		860.0
9			24			24			24			24			24			24		860.0
10			24			24			24			24			24			24		860.0
11			24			24			24			24			24			24		865.0
12			24			24			24			24			24			24		865.0
13		19:15	19:15			24			24			24			24			24		820.0
14	13:38		10:22			24	20:45	15:17	18:32			24			24			24		753.6
15			24			24			24			24			24			24		865.0
16			24			24			24			24			24			24		865.0
17			24			24			24			24			24			24		863.6
18			24			24			24			24			24			24		865.0
19			24			24			24			24			24			24		865.0
20			24			24			24			24			24			24		865.0
21			24			24			24			24			24			24		865.0
22			24			24			24			24			24			24		865.0
23			24			24			24			24			24			24		865.0
24			24			24			24			24			24			24		865.0
25			24			24			24			24			24			24		864.1
26			24			24			24			24			24			24		860.0
27			24			24			24			24			24			24		860.0
28			24			24			24			24			24			24		860.0
29			24			24			24			24			24			24		860.0
30			24			24			24			24			24			24		860.4

* - All operating circulators at 100% Flow

July, 1975

Unit No. 2
River Water Discharges
By Circulator*

Date	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCH., GPM X 10^3
1			24			24			24			24			24			24	865.0
2				20^{05}	09^{45}	13^{40}													804.7
3						24													865.0
4					01^{43}	01^{43}													735.0
5				23^{20}		00^{40}													728.9
6						24							11^{35}	10^{28}	22^{53}	21^{50}	11^{35}	13^{45}	773.7
7															24			24	865.0
8																			865.0
9																			865.0
10																			865.0
11																			865.3
12																			863.4
13																			860.0
14																			860.0
15																			860.6
16																			860.0
17																			860.0
18																			860.0
19																			860.0
20		17^{45}	17^{45}																823.5
21	00^{01}		23^{59}																859.9
22			24																860.0
23																			860.0
24																			860.0
25																			860.0
26																			860.0
27																			860.0
28																			860.0
29		08^{38}	08^{38}		17^{20}	17^{20}		08^{38}	08^{38}		09^{18}	09^{18}		08^{38}	08^{38}		17^{42}	17^{42}	432.7
30			-			-			-			-			-			-	27.9
31			-			-			-			-			-			-	25.0

* All Circulators at 100% Flow

August, 1975

Unit No. 2

River Water Discharges
By Circulator

DATE	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCH. GPMx10^3
1			0			0			0			0			0			0	25.0
2																			25.0
3																			25.0
4																			25.0
5																			25.0
6																			19.8
7																			15.0
8																			15.0
9																			25.0
10	11^{43}		12^{17}	14^{25}		09^{35}	13^{12}		10^{48}	14^{40}		09^{20}	13^{55}		10^{05}	13^{26}		10^{34}	390.5
11			24			24			24			24			24			24	861.7
12					16^{45}	16^{45}					16^{45}	16^{45}		16^{45}	16^{45}				738.1
13				08^{02}		15^{58}				08^{00}		16^{00}	07^{55}		16^{05}				724.3
14				22^{05}	15^{30}	17^{25}				22^{05}	15^{30}	17^{25}			24	22^{05}	15^{30}	17^{25}	744.8
15						24						24						24	860.0
16																			860.0
17																			860.0
18																			860.0
19																			860.0
20																			860.0
21																			860.0
22																			860.0
23		01^{53}	01^{53}								01^{53}	01^{53}					01^{53}	01^{53}	477.3
24	02^{45}		21^{15}							02^{45}		21^{15}				02^{45}		21^{15}	816.9
25			24									24						24	865.0
26																			865.0
27																			865.0
28																			865.0
29																			865.0
30																19^{35}	12^{50}	17^{15}	822.5
31																		24	865.0

* All Operating Circulators at 100% Flow

2-38 (pad) 6 71 Const.

September, 1975

UBJECT

RIVER WATER DISCHARGES BY CIRCULATOR
UNIT NO. 2

	#21			#22			#23			#24			#25			#26			
DATE	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	AVG. TOTAL UNIT DISCHARGE, GPM x 1
1			24			24			24			24			24			24	865.0
2																			
3																			
4																			
5																			
6																			
7																			862.5
8		10^{15}	10^{15}														03^{45}	03^{45}	661.7
9	01^{18}		22^{42}													01^{47}		22^{13}	842.0
10			24															24	860.0
11			24										21^{45}	18^{18}	20^{33}			24	828.2
12		22^{40}	22^{40}		22^{40}	22^{40}				14^{18}	2240 1340	22^{02}		22^{40}	22^{40}		17^{52}	17^{52}	789.4
13			0			0						0			0			0	160.0
14	18^{30}		05^{30}	16^{58}		07^{02}				17^{02}		06^{58}	18^{30}		05^{30}			0	305.9
15			24			24						24			24	23^{20}		00^{40}	723.9
16																		24	860.0
17																			860.0
18																			860.0
19														10^{10}	10^{10}				779.3
20															0				720.0
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28				22^{50}	07^{56}	09^{06}				23^{00}	07^{56}	08^{56}							531.9
29						24						24							715.0
30						24						24							715.0

November, 1975

River Water Discharges By Circulator*
Unit No. 2

DATE	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVERAGE TOTAL DISCHARGE, GPM	UNIT x 10^3
1			24			24			24			24			0			24	720.0	
2			24			↓			24			↓			↓			↓	720.0	
3		1530	1530			↓		1655	1655			↓			↓			↓	629.1	
4			0			↓			0			↓			↓		1300	1300	275.8	
5	1916		0444			↓			0			↓			↓	1008 0630	0720	1442	413.2	
6			24			↓		1108	1252			↓			↓			24	655.0	
7			↓			↓			24			↓			↓			↓	720.0	
8			↓			↓			↓			↓			↓			↓	↓	
9			↓			↓			↓			↓			↓			↓	↓	
10			↓			↓			↓			↓			↓			↓	↓	
11			↓			↓			↓			↓			↓			↓	↓	
12			↓			↓			↓			↓			↓			↓	↓	
13			↓			↓			↓			↓			↓			↓	↓	
14		1055	1055		1055	1055			↓		1055	1055			↓		1055	1055	414.2	
15			0			0			↓			0			↓			0	160.9	
16	1435		0925	1435		0925			↓	1435		0925			↓	1435		0925	379.7	
17			24			24			↓			24			↓			24	720.0	
18			↓			↓			↓			↓			↓			↓	↓	
19			↓			↓			↓			↓			↓			↓	↓	
20		1330	1330			↓			↓			↓			↓			↓	658.7	
21	1250		1110			↓			↓			↓			↓			↓	645.1	
22			24			↓			↓			↓			↓			↓	720.0	
23			↓			↓			↓			↓			↓			↓	↓	
24			↓			↓			↓			↓			↓			↓	↓	
25			↓			↓			↓			↓			↓			↓	↓	
26			↓			↓			↓			↓			↓			↓	↓	
27			↓			↓			↓			↓			↓			↓	↓	
28			↓			↓			↓			↓			↓			↓	↓	
29			↓			↓			↓			↓			↓			↓	↓	
30			↓			↓			↓			↓			↓			↓	↓	

* ALL OPERATING CIRCULATORS AT 100% FLOW

DATA SHEET

DATE January, 1976

LOCATION Indian Point

Unit No. 2 River Water Discharges

By Circulator *

DATE	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCHARGE, GPM x 10^3
1			24			24			24			24			24			24	524.0
2			↓			↓			↓			↓			↓			↓	524.0
3			↓			↓			↓			↓			↓			↓	524.0
4			↓			↓			↓			↓			↓			↓	520.5
5	05^{55}	0^{45}	18^{50}		05^{55}	5^{55}		00^{45}	0^{45}			↓	0555	0^{45}	18^{50}		05^{55}	5^{55}	274.9
6			24	906		14^{54}	09^{07}		14^{53}			↓			24	9^{05}		14^{55}	339.5
7			↓			24			24			↓			↓			24	519.0
8			↓			↓			↓			↓			↓			↓	522.8
9			↓			↓			↓			↓			↓			↓	507.2
10			↓			↓			↓			↓			↓			↓	513.8
11			↓			↓			↓			↓			↓			↓	519.0
12			↓			↓			↓			↓			↓			↓	519.0
13			↓			↓			↓			↓			↓			↓	519.0
14			↓			↓			↓			↓			↓			↓	519.0
15			↓			↓			↓			↓			↓			↓	519.0
16			↓			↓			↓			↓			↓			↓	519.0
17			↓			↓			↓			↓			↓			↓	519.0
18			↓			↓			↓			↓			↓			↓	457.5
19		06^{25}	6^{25}			↓			↓			↓			↓			↓	435.0
20			0			↓			↓			↓			↓			↓	435.0
21			↓			↓			↓			↓			↓		1745	17^{45}	413.1
22			↓			↓			↓			↓			↓	16^{05}		755	405.9
23	16^{13}		7^{47}			↓			↓			↓			↓			24	519.0
24			24			↓			↓			↓			↓			↓	519.0
25			↓			↓			↓			↓			↓			↓	519.0
26			↓			↓			↓			↓			↓			↓	522.3
27			↓			↓			↓			↓			↓			↓	502.7
28			↓		1755	17^{55}			↓			↓			↓			↓	440.0
29			↓			0			↓		0134	1^{34}			↓		01^{34}	1^{34}	288.4
30			↓			↓			↓			0			↓			0	272.0
31			↓			↓			↓						↓				

* All Operating Circulators At 60% Flow

DATA SHEET

Date February, 1976

Indian Point

River Water Discharges By Circulator*

Unit No. 2

DATE	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCHARGE, GPM x 10^3
1						24			24			0			24			0	272.0
2						24			24			0			24			0	272.0
3						24			24			0			24			0	272.0
4	18^{05}		555	18^{06}	04^{05}	559			24	18^{07}		5^{53}			24	18^{08}		5^{52}	280.6
5			24			24			24			24			24			24	519.0
6			24			24			24			24			24		23^{05}	23^{05}	512.8
7			24			24			24			24			24	23^{17}		0^{43}	490.5
8			24			24			24			24			24			24	514.0
9	03^{15}	02^{35}	23^{20}			24			24			24			24			24	511.5
10			24			24			24			24			24			24	514.0
11	15^{55}	09^{35}	17^{40}			24			24			24			24			24	492.2
12			24			24			24			24			24			24	514.0
13			24			24			24			24			24			24	514.0
14			24			24			24			24			24			24	514.0
15			24			24			24			24			24			24	514.0
16			24			24			24			24			24			24	514.0
17			24			24			24			24			24			24	514.0
18			24			24			24			24			24			24	514.0
19			24			24			24			24			24			24	514.0
20			24			24			24			24			24			24	514.0
21			24			24			24			24			24			24	514.0
22			24			24			24			24			24			24	514.0
23			24			24			24			24			24			24	490.0
24			24			24			24			24			24			24	514.0
25			24			24			24			24			24			24	470.4
26			24			24		17^{50}	17^{50}			24			24		17^{50}	17^{50}	448.3
27			24			24	09^{34}		14^{26}			24			24	09^{35}		14^{25}	519.0
28			24			24			24			24			24			24	
29			24			24													

* ALL OPERATING CIRCULATORS AT 60% FLOW

DATA SHEET

March, 1976
Indian Point
Station

River Water Discharges By Circulator
Unit No. 2 *

Date	#21 On	#21 Off	#21 Hrs	#22 On	#22 Off	#22 Hrs	#23 On	#23 Off	#23 Hrs	#24 On	#24 Off	#24 Hrs	#25 On	#25 Off	#25 Hrs	#26 On	#26 Off	#26 Hrs	Average Total Unit Discharge, GPMx10^3
1			24			24			24			24			24			24	519.2
2																			519.0
3																			↓
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			↓
14							14^{30}	14^{00}	23^{30}										517.3
15									24										519.0
16																			↓
17																			
18	11^{40}	07^{25}	07^{25}																461.0
19	18^{23}	13^{35}	07^{32}																462.0
20			24																524.0
21																			↓
22																			
23																			
24		08^{30}	08^{30}																469.8
25	16^{17}		07^{43}																467.0
26																			524.0
27																			↓
28																			
29																			521.7
30			0																440.0
31			0		15^{55}	15^{55}		15^{55}	15^{55}		09^{00}	09^{00}		15^{55}	15^{55}		09^{55}	09^{55}	236.8

* All Operating Circulators at 60% Flow

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DATA SHEET

DATE April, 1976

LOCATION Indian Point Station

PREPARED BY

SUBJECT

River Water Discharges By Circulator*

Unit No. 2

#21

Date		ON	OFF	HRS		AVG. TOTAL UNIT DISCH., GPM x 10^3			
1				0		25.0			
2						25.0			
3						21.7			
4						20.0			
5						20.0			
6						20.0			
7						20.0			
8						20.0			
9						20.0			
10						20.0			
11						20.0			
12						20.0			
13						20.0			
14						20.0			
15						17.7			
16						15.0			
17						15.0			
18						15.0			
19		17^{40}		6^{20}		36.8			
20				24		99.0			
21				24		99.0			
22			19^{20}	19^{20}		83.0			
23				0		15.0			
24				0		15.0			
25				0		15.0			
26				0		15.0			
27				0		15.0			
28				0		15.0			
29				0		15.0			
30				0		15.0			

* ALL OTHER CIRCULATORS SHUTDOWN FOR THE MONTH.

INDIAN POINT UNIT NO. 2

ALL CIRCULATORS SHUTDOWN IN

MAY, JULY AND AUGUST, 1976

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DATA SHEET

DATE June, 1976

LOCATION 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

PREPARED BY

SUBJECT

DATE September, 1976

LOCATION Indian Point Station

River Water Discharges By Circulator*

Unit No. 2

	#21			#22			#23			#24			#25			#26			
DATE	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	ON	OFF	HRS	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			0			0			0			0			0			0	20.0
2																			20.0
3																			16.4
4																			15.0
5																			15.0
6																			17.3
7																			20.0
8																			20.0
9																			22.3
10																			25.0
11																			25.0
12																			25.0
13																			25.0
14																			25.0
15				09^{35}		14^{25}													109.0
16						24													165.0
17																			165.0
18																			165.0
19										06^{08}		17^{52}				05^{47}		18^{13}	375.0
20												24						24	445.0
21												24						24	445.0
22							16^{55}		7^{05}		16^{55}	16^{55}	12^{06}		11^{54}		12^{06}	12^{06}	445.0
23	12^{12}		11^{48}						24	10^{00}	17^{20}	7^{20}		11^{51}	11^{51}	11^{51}		12^{09}	557.0
24			24					00^{00}	0			0			0		07^{45}	7^{45}	349.8
25				19^{43}	14^{26}	15^{33}	14^{25}	18^{20}	5^{05}			0			0	14^{25}		9^{35}	344.3
26					20^{50}		19^{22}	19^{32}		12^{15}		11^{45}	08^{40}	15^{13}	7^{47}		08^{40}	8^{40}	329.4
27						0	23^{18}		0^{42}		01^{00}	1^{00}	22^{46}		24			0	445.6
28									24			0			21^{47}			0	427.4
29							21^{57}	18^{37}	24	18^{37}	18^{54}	0^{17}	16^{58}	14^{45}	24	14^{10}	14^{30}	0^{20}	424.6
30									20^{40}			0	01^{40}	00^{59}	23^{19}	00^{58}	01^{41}	0^{43}	440.0
									24										

* ALL OPERATING CIRCULATORS AT 100% FLOW

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DATA SHEET

DATE October, 1976

LOCATION Indian Point

PREPARED BY

SUBJECT

River Water Discharges By Circulator*
Unit No. 2

Date	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCHARGE, GPM x 10^3
1			24			0			24			0			24	1515/ 2347	1611	1149	449.8
2										1409	1423	014						24	581.4
3										1319	1535	216							592.6
4												0							580.0
5				1825		535						0							612.2
6						24	0425	0410	2345	0410	0425	015							720.0
7							0730	0723	2353	0723	0730	007							720.0
8							0328	0308	2340	0308	0328	020							720.0
9									24	2330		030							722.8
10							0050	0015	2325		0050	050				0911/ 0950/ 2215	0908/ 0945/ 1800	1937	696.2
11									24			0					24		720.0
12										2253		107					0840	840	637.4
13	1300	1027	2127									24						0	704.6
14			24									24							720.0
15										2140	1855	2115							704.6
16												24							720.0
17														1840	1840	1840		520	720.0
18								1727	1727						0			24	682.2
19		1744	1744				1703		657				1743		617			24	620.6
20			0						24						24		1940	1940	694.7
21																		0	580.0
22																			579.8
23																			580.0
24	2015		345		2015	2015	2015	1730	2115					1113	1113	1112		1248	563.0
25	2010	1535	1925	0340		2020			24				1112		1248	1535	1112	1937	720.9
26	1425	1350/ 1430	1355	1430	1425	2355									24			24	800.7
27			0			24											1457	1457	667.2
28																		0	580.0
29																			580.0
30								0638	638					0638	0638				377.0
31									0						0				300.0

* ALL OPERATING CIRCULATORS AT 100% FLOW

DATA SHEET

DATE November, 1976
LOCATION Indian Point Sta.

River Water Discharges By Circulator
Unit No. 2

DATE	#21 ON	#21 OFF	#21 HRS	#22 ON	#22 OFF	#22 HRS	#23 ON	#23 OFF	#23 HRS	#24 ON	#24 OFF	#24 HRS	#25 ON	#25 OFF	#25 HRS	#26 ON	#26 OFF	#26 HRS	AVG. TOTAL UNIT DISCH., GPM x 10^3
1			0			24			0			24			0			0	300.0
2			0			24			0			24			0			0	300.0
3			0			24			0			24			0			0	300.0
4			0			24			0			24			0			0	300.0
5			0			24			0			24			0			0	300.0
6			0			24			0			24			0			0	300.0
7			0			24			0			24			0			0	300.0
8			0			24			0			24			0			0	300.0
9			0			24			0			24			0			0	300.0
10			0		07^{05}	7^{05}			0		07^{05}	7^{05}			0			0	104.0
11			0			0			0			0			0			0	20.0
12			0			0			0			0			0			0	20.0
13			0			0			0			0			0			0	20.0
14			0			0			0			0			0			0	20.0
15			0			0			0			0			0			0	20.0
16			0			0			0			0			0			0	20.0
17			0			0			0			0			0			0	20.0
18			0			0			0			0			0			0	20.0
19			0			0			0			0			0			0	20.0
20			0			0			0			0			0			0	20.0
21			0			0			0			0			0			0	20.0
22			0			0			0			0			0			0	20.0
23			0			0			0			0			0			0	20.0
24			0			0			0			0			0			0	20.0
25			0			0			0			0			0			0	20.0
26			0			0			0			0			0			0	20.0
27			0			0			0			0			0			0	20.0
28	17^{35}/ 18^{40}	18^{35}/ 19^{35}	1^{55}	18^{35}	19^{35}	100	20^{38}	21^{25}	047			0	22^{10}	22^{45}	0^{35}	22^{40}		1^{20}	39.3
29			0			0			0			0			0	01^{55}	0045/ 0215	1^{05}	24.2
30			0			0			0			0			0	01^{15}	02^{55}	140	25.1

NOTE: STARTING ON NOV. 28, OPERATING CIRCULATORS AT 60% FLOW.

INDIAN POINT STATION

RIVER WATER DISCHARGES BY CIRCULATOR* UNIT NO. 2

DECEMBER 1976

	#21			#22			#23			#24			#25			#26			AVERAGE TOTAL UNIT
DATE	ON	OFF	HOURS	ON	OFF	HOURS	ON	OFF	HOURS	ON	OFF	HOURS	ON	OFF	HOURS	ON	OFF	HOURS	DISCHARGE, GPM X 10^3
1			0			0			0			0			0			0	20.0
2			0			0			0			0			0			0	20.0
3			0			0			0			0			0	1342	1810	4:28	36.0
4			0			0			0			0			0			0	20.0
5			0			0			0			0			0			0	20.0
6			0			0			0			0			0			0	20.0
7			0			0			0			0			0			0	20.0
8			0			0			0			0			0			0	20.0
9			0			0	1425		9:35			0	2025		3:35	2003		3:57	79.6
10	1015/ 2010	1625	10:00	1012		13:48			24	1245/ 2010	1800	9:05			24	2010	1625	20:15	373.6
11			24			24			24			24			24			24	524.0
12			24			24			24			24			24			24	524.0
13			24			24			24			24	1355	1325	23:30	1020	0945	23:25	520.6
14			24			24			24			24			24			24	524.0
15			24			24		2225	22:25			24			24			24	516.1
16			24			24			0			24			24			24	440.0
17			24			24			0			24			24			24	440.0
18			24			24			0			24			24			24	435.0
19			24			24			0			24			24			24	435.0
20			24			24			0			24			24			24	435.0
21			24			24			0			24			24			24	435.0
22			24			24			0			24			24			24	435.0
23	1312	0912	20:00			24			0			24			24			24	420.7
24			24		0525	5:25			0			24			24			24	370.3
25			24			0			0			24			24			24	351.0
26		2253	22:53			0			0		2253	22:53		2300	23:00		0650	6:50	275.7
27	0153		22:07			0			0	0155		22:05	0156		22:04	13:20		10:40	339.8
28			24			0			0			24			24			24	356.0
29			24			0			0			24			24			24	356.0
30			24			0			0			24			24			24	356.0
31	0250	0120	22:30			0			0	0252	0145	22:53	0400	0255	22:55	0405	0255	22:50	339.2

* All Operating Circulators At 60% Flow.