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INDIAN POINT NUCLEAR GENERATING STATION
UNIT NOS. 1, 2, & 3

ANNUAL ENVIRONMENTAL OPERATING REPORT

PART A

JANUARY 1, 1979 - DECEMBER 31, 1979

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Non Radiological Effluent Releases

The following report provides the data pursuant to section 5.6.1.1 Part A, of Appendix B to Facility Operating License for Indian Point Units 1, 2 & 3 dated December 12, 1975. As amended through amendments 25, 53 and 25 for Units 1, 2 & 3, respectively.

Indian Point Nuclear Generating Station
Unit Nos. 1, 2 and 3
Annual Environmental Operating Report
Part A
for the period January 1, 1979 - December 31, 1979

Introduction

This Annual Environmental Operating Report is submitted in accordance with Section 5.6.1 of the Environmental Technical Specification Requirements for Units 1, 2 and 3 at the Indian Point Station. The report consists of two parts, a summary which includes interpretations and evaluations of the results of the non-radiological environmental monitoring programs, and a compilation of the relevant data.

The summary is presented in four sections: A. Thermal Discharges and Hydraulics, B. Chlorination of Cooling Water, C. Chemical Discharge and Water Quality, and D. Listing of Non-routine Reportable Environmental Occurrences.

SUMMARY

A. Thermal Discharges and Hydraulics

Data on daily maximum, minimum and average temperature measurements of the water in the intake and discharge canal are contained in the tables entitled "Unit 1, 2, 3 Circulating Water Temp." which are found on pages 44 through 55.

The ETSR limit for maximum temperature of the water discharge is 98F when all circulating and service water pumps are operating. This limit was met on all dates. However, on August 21 and August 22, the daily average discharge temperatures were 94.4F and 95.0F; on these two dates the instantaneous maximum temperatures were 100F and 98.5F, respectively. These discharge temperatures occurred when Unit 2 was off, and when two circulator pumps at Unit 3 were shut down. Therefore, the ETSR limit was not exceeded.

Data on the delta T across the cooling water system (CWS) are listed in the tables entitled "Average ΔT and Total Heat Released to River" which are found in pages 18 through 21.

Delta T, which is a function of generated load, circulating water flow volume, ranging from 0F to 39.7F on February 21, 1979. On that date, Unit 2 had three circulators off and three operating at 60% flow, while Unit 3 had initially five circulators operating at 60% flow and one circulator off. At 17:06 circulator 31 was shut down leaving four circulators operating at Unit 3. As provided in §2.1.1.1 (g), the delta Ts specified in §2.1.1 may be exceeded when one, or more, circulating water pumps is shut off.

Data on the rate of temperature change across the cooling water system are found in the table entitled "Record of Rate of Change of ΔT Across Condensers", page 26. The seven instances when the discharge temperature decreased more than 7F per hour occurred when either Unit 2 or Unit 3 tripped off line.

Data on condenser flow rates and changes in flow rates including date and time of day when the change occurred are found in the tables entitled "Unit 1 River Water Discharge" pages 56 through 67, "Unit 2 River Water Discharge" pages 68 through 103, and "Unit 3 River Water Discharge", pages 104 through 139.

Unit 2 operated at 60% (reduced) flow from January 1, 1979 to April 18, 1979. From April 19 to June 15 the unit operated at 100% flow with all six circulators in full operation. From June 16 to September 16 the unit was down and accordingly the circulator water pumps were shut off. On September 17 unit was returned to service and the circulating water flow was 100% unless otherwise noted. From December 10 until the end of the year, reduced flow operation was in effect.

Unit 3 operated at 60% flow from January 1, 1979 to April 6, 1979. From April 6 to September 14 all six circulators were in full operation. From September 14 until the end of the report period the unit was not operating, and accordingly the circulating water pumps were out of service.

Data on the total thermal energy in BTU released through the discharge outfall are contained in the tables entitled "Average ΔT and Heat Released to River", pages 18 through 21. In addition, data on the average release rate of energy through the discharge outfall in BTU per hour are contained in the tables entitled "Average Heat Release Rate" pages 22 through 25.

The method initially prescribed in the ETSR for determining the hourly rate at which heat is rejected to the river, was found to be unsuitable and was amended. (Amendment No. 22,47,22 dated February 15, 1979 for Units 1, 2 and 3)

Prior to that amendment, using the initial method, on January 27, 1979 a discharge rate in excess of the limit was indicated. Using a more appropriate method, which was later permitted by an amendment to the ETSR for all such computations, it was determined that the limit was not exceeded on that date or at any other time during the report period.

Data on the calculated intake velocity for each of the intakes at each of the units are contained in the tables entilted "Intake Velocity (ft/sec)" pages 28 through 39. The formulae for calculating the intake velocity are presented on page 27.

The intake velocity was at or below 1.89fps during the reporting period. With winter reduced flow, the intake velocity was reported to be 1.13fps. 1.13fps is less than the 60% maximum intake velocity as required under conditions of reduced flow.

Data on the flow rate per intake are contained in the tables entitled "Unit 1 River Water Discharge" pages 56 through 67, "Unit 2 River Water Discharge" pages 68 through 103, and "Unit 3 River Water Discharge" pages 104 through 139. At 100% flow, the design flow rate is 140,000gpm per circulating water pump at Unit 1 and 140,000gpm per circulating water pump at Units 2 and 3.

Data on discharge velocity and head differential are

contained in the tables entitled "Head Differential and Discharge Velocity" pages 40 through 43. The data regarding the position of discharge gates are contained in the tables entitled "Discharge Gate Adjustments" pages 140 through 150.

The procedure for calculating discharge velocity as identified in the ETSR at Section 1.5.3 is also presented on page 27.

The head differentials reported generally ranged from 18 to 20 inches, or 1.50 to 1.67 feet, which is within the levels specified in the ETSR at Section 2.2.2.1. Based on the computational procedure for calculating exit velocity, a head differential of at least 1.64 feet is required to obtain a discharge velocity of 10.0 fps as specified in the ETSR at Section 2.2.2.1. Whereas the specified head differential was maintained* throughout the reporting period, the calculated discharge velocity is slightly below that specified in the ETSR. However, based on biological studies reported elsewhere (Letter of Wm. Cahill, Jr. to A. Schwencer, NRC dated January 28, 1980) there has been no adverse environmental impacts associated with this slight deviation. Further, thermal survey results, also reported in Wm. Cahill, Jr.'s letter dated January 28, 1980, the discharge of heated effluent has not resulted in any contravention of the 4.0F isotherm limits as specified in the NYSDEC Water Quality Certificate as a result of this slight deviation from the specified minimum discharge velocity.

B. Chlorination of Cooling Water

During the period of January 1 through December 31 there were no occasions on which it was necessary to chlorinate the condensers at either Unit 2 or Unit 3. Accordingly, no sodium hypochlorite was utilized for this purpose. The sewage treatment facility for the station began operating during 1979 and chlorination of the effluent which was released into the discharge canal began in June. The amount of chlorine used is listed in a table entitled, "Chemical Inventory of Discharges-Indian Point Site LBS/Month 1979" found on page 4.

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*On the two occasions (July 23 and September 2, 1979) that the measured head differential was less than 1.5 feet (18 inches), Unit 2 was out of service and Unit 3 was operating at 610 mwe. The discharge temperature on these dates did not exceed 90F.

C. Chemical Discharges and Water Quality

The date and time at which samples were taken and analyzed relative to table 2.3-1 of the ETSR was standardized to be every Wednesday at 9:30 A.M.

The results of the applicable analyses performed relative to table 2.3-1 of the ETSR are presented in the tables entitled "Chemical Discharges and Water Quality Limited Effluent Monitoring" found on pages 6 through 17. Morpholine is no longer used at the Indian Point Station. No lithium hydroxide was discharged during 1979 (see page 4). Residual chlorine was not measured as no condenser chlorination occurred during 1979. Soda ash and sulfuric acid were not directly discharged. The amount of sodium hydroxide discharged by month is listed in the table found on page 4.

The monthly amounts of the chemicals which are released on a sustained basis are identified in the table entitled "Chemical Inventory of Discharges-Indian Point Site" page 4.

Outfall pH conditions ranged from a low of 6.7 to a high of 7.9, well within the limits of 6.0-9.0 units specified in the ETSR. Most importantly, little change was reported in pH as water passed through the CWS. The maximum change in pH was 0.3 units reported on one occasion.

Phosphate releases are limited to 2,280 pounds per month at the site. Actual usage ranged from a low of 63 pounds in June and in July to a high in February of 340 pounds per month. The low usage of phosphate is reflected in only five reports of an increase of phosphate concentration in the discharge canal. These reports ranged from 0.05 to 0.1 ppm compared to a maximum concentration permitted of 1.5 ppm.

Whereas the release of hydrazine is not generally anticipated, it may be released with steam generator blowdown at a concentration not to exceed 0.1 ppm. The maximum concentration reported was 0.05 ppm.

The greatest monthly usage of Boron occurred during February and averaged approximately 180 pounds per day, well below the limit of 600 pounds per day.

Chromium was not used during the year but 8.0 pounds were inadvertently discharged in January. Maximum sustainted release of 30 pounds per day per unit at Unit 2 and Unit 3 is permitted. Effluent concentration is limited to 0.05 ppm. On the days sampled and reported here the limit was never exceeded.

Chlorine demand at the plant intakes, as reported here in 50 samples, with two exceptions, ranged from 0.4 ppm to 1.2 ppm. On March 7, chlorine demand was reported to be 16.0 ppm and on December 26, 5.0 ppm. Statistically, these high values are not representative. The median of the 50 samples is 0.7 ppm. The mean of the 50 samples equals 1.1. But if the two non-representative samples of 5.0 and 16.0 are not included in the analysis, the mean of the remaining 48 samples is 0.73. The standard deviations are 2.2 (n=50) and 2.0 (n=48), respectively. At least 97.5% of the time chlorine demand would be expected to be less than 5.0 ppm.

Turbidity was observed to decrease as well as increase in the CWS. In the sample of 50 observations reported here, conditions, expressed as Jackson candle units, showed improvement (decreased turbidity) 12 times in a range from one to five units. Turbidity increased 32 times in a range from zero to five units, four times in a range from 6-10 units, one time in a range of 11-15 units and one time greater than 25 units. The median value of the turbidity is in the range between zero and five units. The mean is 1.9 units. Approximately 95% of the time the change in turbidity is expected to range from -1.9 to 5.7 units.

Dissolved oxygen concentration changes in the CWS ranged from an increase of 3.3 ppm to a decrease of 4.0 ppm. Nine increases average 0.8 ppm. Forty decreases average 1.3 ppm. On two occasions there was no difference in dissolved oxygen concentrations between intake and outlet samples. The lowest outlet sample value recorded, 5.9 ppm, was the same as the corresponding inlet sample value. The small changes in dissolved oxygen are not significant.

Conductivity changes of an order of magnitude were observed during the reporting period. Conductivity is a function of river water conductivity. Changes in the CWS are relatively small and not considered significant.

During the reporting period there were no observed occurrences of any adverse effects on Hudson River biota as a result of the discharge of chemicals from the Indian Point Station. Further, the results of the monitoring programs indicated that chemical discharge concentrations were within applicable limits.

The non-radioactive solid waste material collected at the intake screens and disposed of as solid waste in accordance with local regulations amounted to approximately 4500 cubic feet.

All chemical, thermal and hydraulic sampling locations were as described in the ETSR and the minimum discharge canal flow rate during chemical discharge was 10^5gpm.

D. Listing of Non-routine Reportable Environmental Occurrences

In this reporting period there were no non-routine reportable environmental occurrences.

CHEMICAL INVENTORY OF DISCHARGES-INDIAN POINT SITE
LBS./MONTH 1979

	Boric Acid	= (Cr04) Chromium	(2) NaOH	Soda Ash	(2) H2S04	(5) Sodium Hypochlorite NaOCl	(3) Chlorine
Jan.	3472	8.0*	10920	None	25980	None	None
Feb.	5053	None	10550	None	24980	None	None
March	1073	None	11650	None	29560	None	None
April	2586	None	11100	None	29340	None	None
May	2278	None	9830	None	24320	None	None
June	728	None	11280	None	28650	None	3.24
July	725	None	5820	None	15260	None	4.23
Aug.	554	None	10190	None	22900	None	4.3
Sept.	2689	None	12910	None	32940	None	4.4
Oct.	1429	None	9100	None	23440	None	3.1
Nov.	388	None	6000	None	11380	None	2.0
Dec.	930	None	7460	None	17540	None	2.7

	Disodium Phosphate	(4) Hydrazine	(1) Cyclo	** Detergent	LiOH	Drewgard "100"
Jan.	84	.5	None	18	None	25
Feb.	340	.5	None	14.5	None	None
March	252	.45	None	18.8	None	25
April	336	.6	None	14	None	17
May	126	.66	None	13	None	42
June	63	.55	None	41	None	None
July	63	.25	None	64	None	25
Aug.	210	-	None	70	None	None
Sept.	231	3.0	None	41	None	None
Oct.	168	4.2	None	13	None	33
Nov.	273	.2	None	None	None	None
Dec.	147	.2	None	None	None	33

NOTES:

(1) Cyclohexylamine is not used at Indian Point Station.

(2) The quantities recorded were used to regenerate the cations, mixed beds, package units and to neutralize the regenerative wastes. None of the recorded quantities were discharged directly to the environment.

(3) Unit 3 started treatment of their sewer system as of June 1979.

(4) The quantities reported were from the steam generator blowdowns.

(5) No condenser chlorinations performed in 1979.

* The discharge of chromate was the result of a leak in the station air compressor.

** As of September 1978, there were no discharges of detergent from the laundry waste system. The amount reported is not discharged to the environment.

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

January 19 79

Date	Jan. 3		Jan. 10		Jan. 24		Jan. 31			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.6	7.5	7.6	7.7	7.3	7.0	7.4	7.6		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.20	.13	.20	.20	.15	.16	<.01	<.01		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.8		.6				.6			
Turbidity-Candle Units Jackson	18	>45	9	8			10	9		
Dissolved Oxygen mg/l	11.8	9.4	12.0	13.0	14.9	13.6	12.5	9.1		
Detergent mg/l	<0.1	<0.1								
Conductivity per (2) micromhos/cm @25°c	2650	620	350	222			1605	1830		

NOTES: (1) Not used at Indian Point Station at this time.

(2) Boron and conductivity varies with the mixture of ocean water and fresh water in the Hudson River.

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

February 19 79

Date	Feb. 7		Feb. 14		Feb. 21		Feb. 28			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.2	7.3	7.4	7.4	7.4	7.4	6.8	6.7		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	<.005	<.005	<.005	.010	.02	.01	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.05	.05	.10	.10	.18	.10	.20	.23		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.7		.6		.6		.6			
Turbidity-Candle Units Jackson	10	9	8	7	13	13	5	4		
Dissolved Oxygen mg/l	14.2	12.6	>15.0	>15.0	11.7	11.0	17.5	10.8		
Detergent mg/l	<.01	<.01								
Conductivity per (2) micromhos/cm @25°c	192	194	1380	1390	1240	2090	340	285		

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

March 1979

Date	March 7		March 14		March 21		March 28			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	6.9	6.9	7.3	7.5	7.6	7.6	7.6	7.6		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	.02	.02	<.005	<.005	.01	.01	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.02	.03	.05	.05	.05	<.01	<.01	<.01		
Chromium mg/l	.01	.01	<.005	<.005	.03	.03	<.005	<.005		
Chlorine Demand mg/l	16		.6		.5		.5			
Turbidity-Candle Units Jackson	8	8	23	32	22	17	8	11		
Dissolved Oxygen mg/l	11.9	10.8	13.7	9.7	12.0	13.0	11.0	10.3		
Detergent mg/l	.01	.01								
Conductivity per (2) micromhos/cm @25°c	1797	1990	1675	1620	156	158	182	185		

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

April 1979

Date	April 4		April 11		April 18		April 25			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.6	7.6	7.4	7.3	7.6	7.5	7.3	7.5		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	<.005	<.005	.015	.015	.005	.005	.009	.009		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.04	.04	<.01	<.01	<.01	<.01	<.01	<.01		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.6		.7		.8		.6			
Turbidity-Candle Units Jackson	8	18	8	8	6	5	3	2		
Dissolved Oxygen mg/l	12.0	8.8	10.0	9.4	10.0	9.3	11.0	9.0		
Detergent mg/l	<0.1	<0.1								
Conductivity per (2) micromhos/cm @25°c	185	185	150	145	165	163	211	214		

NOTES:

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent Monitoring

May 1979

Date	May 2		May 9		May 16		May 23		May 31	
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.6	7.8	7.4	7.5	7.4	7.2	7.3	7.4	7.2	7.3
Phosphate mg/l	.1	.1	<.1	<.1	<.1	<.1	<.1	<.1	.2	.2
Hydrazine mg/l	.06	.06	<.005	<.005	<.005	<.005	<.005	<.005	.009	.011
Cyclohexylamine mg/l (1)										•
Boron mg/l (2)	.01	.05	<.01	<.01	.02	.02	.03	.03	< .01	<.01
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.055	<.005
Chlorine Demand mg/l	.5		.7		.7		.6		.7	
Turbidity-Candle Units Jackson	2	3	3	2	1	2	5	6	5	5
Dissolved Oxygen mg/l	10.7	9.2	9.1	8.8	9.5	7.9	9.9	8.3	8.0	7.7
Detergent mg/l	<.01	<.01								
Conductivity per (2) micromhos/cm @25°c	176	175	180	207	455	480	224	242	204	225

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

June 1979

Date	June 6		June 13		June 20		June 27			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.4	7.2	7.2	7.3	7.7	7.6	7.6	7.7		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	<.01	<.01	.14	.15	<.01	<.01	<.01	<.01		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.7		.9		.7		.8			
Turbidity-Candle Units Jackson	6	7	5	9	3	4	14	12		
Dissolved Oxygen mg/l	8.5	8.0	9.0	7.5	7.8	7.6	6.7	5.8		
Detergent mg/l	<.01	<.01								
Conductivity per (2) micromhos/cm @25°c	172	220	1100	1250	435	415	460	478		

NOTES: (1) See January

(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

July 1979

Date	July 4		July 11		July 18		July 25			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.7	7.5	7.6	7.5	7.5	7.5	7.6	7.5		
Phosphate mg/l	.15	.15	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	.006	.008	<.005	<.005	<.005	<.005	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.03	.03	.03	.03	.20	.20	<.01	<.01		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.9		.8		1.2		1.1			
Turbidity-Candle Units Jackson	8	16	6	6	4	4	3	3		
Dissolved Oxygen mg/l	6.7	6.9	7.1	7.5	8.5	7.7	6.1	6.3		
Detergent mg/l	< 0.1	< 0.1								
Conductivity per (2) micromhos/cm @25°c	675	900	3800	3900	4830	5160	4320	4650		

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

August 1979

Date	August 1		August 8		August 15		August 22		August 29	
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	8.0	7.9	7.7	7.8	7.8	7.9	7.5	7.5	7.6	7.7
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.30	.26	<.1	<.1
Hydrazine mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.42	.41	.38	.41	.30	.30	.28	.28	.25	.25
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Chlorine Demand mg/l	1.1		.8		.9		.9		.9	
Turbidity-Candle Units Jackson	3	5	8	5	2	2	2	2	5	3
Dissolved Oxygen mg/l	7.8	7.4	5.9	5.9	5.8	6.2	7.7	6.8	8.4	7.4
Detergent mg/l	<0.1	<0.1								
Conductivity per (2) micromhos/cm @25°c	3750	4450	6000	5200	5300	6025	5450	6000	5700	5500

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

September 19 79

Date	Sept. 5		Sept. 12		Sept. 19		Sept. 26			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.8	7.6	7.7	7.6	7.8	7.8	7.6	7.7		
Phosphate mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
Hydrazine mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.30	.30	.30	.30	.09	.11	.24	.25		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.8		.8		1.0		1.0			
Turbidity-Candle Units Jackson	3	6	5	8	5	10	5	7		
Dissolved Oxygen mg/l	8.3	7.3	8.4	7.8	8.5	8.0	8.5	8.7		
Detergent mg/l	<0.1	< 0.1								
Conductivity per (2) micromhos/cm @25°c	4750	5750	1742	1760	1200	2150	1000	1040		

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

October 1979

Date	Oct. 3		Oct. 10		Oct. 17		Oct. 24		Oct. 31	
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.4	7.5	7.6	7.6	7.8	7.8	7.6	7.7	7.5	7.6
Phosphate mg/l	<.1	<.1	<.1	<.1	.2	.3	.3	.4	<.1	<.1
Hydrazine mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	.013	.007
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	.15	.14	.13	.06	.16	.18	.16	.17	<.01	<.01
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Chlorine Demand mg/l	.9		.8		.6		.5		.6	
Turbidity-Candle Units Jackson	3	6	1	4	3	4	8	8	4.5	5.5
Dissolved Oxygen mg/l	8.6	9.2	9.0	8.1	9.5	7.9	9.7	8.2	11.0	8.6
Detergent mg/l	<.01	<.01								
Conductivity per (2) micromhos/cm @25°c	4200	3775	1650	1260	245	240	785	825	850	1230

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

November 19 79

Date	Nov. 7		Nov. 14		Nov. 21		Nov. 28			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.4	7.5	7.7	7.8	7.5	7.6	7.6	7.8		
Phosphate mg/l	0.2	0.25	<.1	<.1	.12	.19	.19	.12		
Hydrazine mg/l	.009	.008	.016	.016	.007	.008	<.005	<.005		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	<.01	<.01	.17	.17	<.01	<.01	.28	.18		
Chromium mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005		
Chlorine Demand mg/l	.7		.7		.6		.6			
Turbidity-Candle Units Jackson	3	8	3	4	7	6	7	8		
Dissolved Oxygen mg/l	12.3	8.8	10.0	9.2	10.4	10.1	8.7	8.5		
Detergent mg/l	<.01	<.01								
Conductivity per (2) micromhos/cm @25°c	492	363	1345	1860	2460	2473	2210	2000		

NOTES: (1) See January
(2) See January

CHEMICAL DISCHARGES AND WATER

Quality Limited Effluent
Monitoring

December 19 79

Date	Dec. 5		Dec. 12		Dec. 19		Dec. 26			
ITEM	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH @ 25°c	7.5	7.6	7.6	7.7	7.6	7.6	7.4	7.5		
Phosphate mg/l	< .1	< .1	< .1	< .1	< .1	< .1	.25	.3		
Hydrazine mg/l	< .005	< .005	.008	.008	< .005	< .005	.01	.01		
Cyclohexylamine mg/l (1)										
Boron mg/l (2)	< .01	< .01	< .01	< .01	.14	.14	.37	.27		
Chromium mg/l	< .005	< .005	< .005	< .005	< .005	< .005	< .005	< .005		
Chlorine Demand mg/l	.60		.6		.4		5			
Turbidity-Candle Units Jackson	6.5	12	1	11	2.1	2.1	3.0	11.0		
Dissolved Oxygen mg/l	12.3	12.6	12.2	10.6	12.9	10.5	12.3	10.5		
Detergent mg/l	< .01	< .01								
Conductivity per (2) micromhos/cm @25°c	2500	2250	201	202	2100	2125	3450	1860		

NOTES: (1) See January
(2) See January

Average ΔT & Total Heat

Released to River

	January, 1979		February, 1979		March, 1979	
Date	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU
1	23.4	276.4	32.7	378.7	27.4	323.7
2	25.6	302.4	33.9	373.1	27.7	327.2
3	26.3	310.7	32.2	380.4	25.7	303.6
4	26.5	313.0	32.9	388.6	26.5	304.2
5	27.0	314.3	32.7	386.3	27.6	308.1
6	19.1	225.6	31.8	375.6	25.9	307.5
7	23.6	278.8	30.6	361.5	30.3	359.7
8	23.5	277.6	30.3	358.4	25.5	302.6
9	20.9	246.9	30.6	362.1	19.2	228.0
10	18.0	212.6	30.7	363.9	15.3	181.7
11	25.3	298.9	30.5	362.1	25.8	306.3
12	26.5	314.6	30.1	357.4	27.0	320.6
13	26.4	313.4	30.2	358.6	27.2	323.0
14	25.7	305.1	29.6	351.4	27.1	321.8
15	26.6	315.8	22.1	262.4	26.3	312.3
16	26.6	316.3	22.3	264.8	27.7	328.6
17	26.7	318.6	32.2	373.5	27.8	330.1
18	26.9	320.9	34.8	368.9	28.0	332.5
19	26.1	309.9	36.2	345.4	27.1	321.8
20	26.7	308.9	37.3	331.3	17.2	172.5
21	25.7	305.1	39.7	340.3	20.6	176.8
22	26.8	318.2	37.6	350.0	18.6	166.8
23	28.4	337.2	27.5	326.6	20.0	179.3
24	30.2	358.6	25.1	298.0	19.8	178.4
25	30.4	360.9	27.8	330.1	19.0	181.1
26	31.4	372.3	25.3	300.4	29.4	176.5
27	34.8	413.2	26.8	318.2	29.3	222.5
28	30.6	363.3	18.4	218.6	29.9	349.1
29	30.4	360.2		Σ9586.6	27.7	348.5
30	30.1	356.1				349.6
31	31.5	372.1				313.5
		Σ9797.2				Σ8657.9

Average ΔT & Total Heat

Released to River

	April, 1979		May, 1979		June, 1979	
Date	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU
1	32.0	328.8	17.3	326.4	18.0	328.8
2	31.5	328.8	17.4	328.8	19.2	331.2
3	30.1	331.2	17.7	328.8	19.3	328.8
4	27.0	326.4	17.5	328.8	19.2	331.2
5	24.7	328.8	16.3	328.8	19.2	331.2
6	21.8	326.4	17.7	328.8	19.1	331.2
7	22.0	328.8	17.6	326.4	19.2	331.2
8	21.7	326.4	17.3	328.8	19.0	328.8
9	21.9	328.8	17.2	328.8	17.9	328.8
10	18.7	264.0	17.5	328.8	17.7	328.8
11	18.2	266.4	16.7	328.8	17.9	328.8
12	17.5	252.0	17.0	328.8	17.4	326.4
13	18.6	288.0	17.0	328.8	17.2	324.0
14	18.1	288.0	17.1	328.8	17.1	319.2
15	18.2	285.6	17.1	328.8	16.7	304.8
16	18.3	288.0	16.6	328.8	12.0	170.4
17	17.6	288.0	16.3	328.8	14.4	170.4
18	17.0	288.0	16.3	328.8	14.9	170.4
19	16.6	285.6	16.0	328.8	15.3	170.4
20	13.5	288.0	16.3	328.8	14.4	170.4
21	17.0	288.0	16.5	328.8	15.3	170.4
22	17.0	288.0	16.6	328.8	15.0	170.4
23	13.6	225.6	16.6	328.8	15.0	170.4
24	12.5	218.4	16.4	328.8	15.0	170.4
25	17.5	288.0	15.5	316.8	14.4	170.4
26	17.3	288.0	15.6	326.4	10.5	122.4
27	17.2	288.0	16.1	328.8	9.9	122.4
28	17.1	297.6	16.6	328.8	10.4	122.4
29	17.2	302.4	18.2	328.8	10.6	122.4
30	17.3	319.2	17.6	328.8	10.8	122.4
31		Σ8839.2	17.7	328.8		Σ20857.0
				Σ10831.2		

Average ΔT & Total Heat

Released to River

	July, 1979		August, 1979		September, 1979	
Date	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU
1	11.0	122.4	13.9	134.3	3.5	46.4
2	10.5	122.4	13.8	134.5	0.4	0
3	10.4	122.4	14.4	136.9	0	0
4	10.3	122.4	14.7	139.6	10.2	77.3
5	10.2	122.4	15.2	139.4	17.2	131.7
6	9.9	122.4	14.5	139.6	7.1	52.6
7	9.8	122.4	15.0	144.9	15.7	137.2
8	9.8	122.4	7.5	78.5	16.5	141.0
9	9.9	122.4	1.1	0	19.5	142.8
10	11.1	122.4	11.2	127.6	18.7	141.8
11	11.7	122.4	12.7	117.9	16.6	140.5
12	11.7	122.4	12.6	119.3	13.2	126.0
13	11.3	123.7	12.6	119.9	9.7	143.3
14	11.5	122.0	12.2	120.1	8.5	122.1
15	12.6	123.7	12.5	119.9	0	0
16	12.1	123.6	12.5	117.4	1.5	55.7
17	11.9	123.5	6.5	49.3	.9	57.5
18	12.8	123.1	4.9	73.7	5.1	15.5
19	11.2	123.3	16.8	164.8	6.2	35.4
20	10.7	175.7	18.2	160.8	4.3	55.5
21	10.7	124.0	19.7	154.0	3.3	55.5
22	12.2	124.9	19.5	146.9	0.9	.0
23	12.4	125.2	18.5	147.1	8.5	20.8
24	11.7	124.8	19.8	150.4	8.9	86.0
25	12.8	125.5	19.6	152.7	10.1	88.7
26	10.5	124.6	24.8	153.1	11.7	106.5
27	10.9	128.3	24.5	152.9	14.6	133.1
28	11.4	133.7	24.0	153.3	16.0	198.6
29	11.3	119.4	23.1	153.0	14.5	200.1
30	12.1	133.6	15.5	152.5	13.8	199.2
31	13.6	134.2	11.9	132.6		
		Σ3659.9		Σ3987.5		Σ2710.8

Average ΔT & Total Heat

Released to River

	October, 1979		November, 1979		December, 1979	
Date	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU	ΔT °F	10^9 BTU
1	13.1	132.0	17.9	157.4	8.0	66.8
2	16.7	131.4	16.6	141.6	2.4	27.7
3	19.4	140.9	11.4	106.4	0.9	0
4	16.3	129.4	11.3	104.8	0.7	0
5	17.9	149.1	13.4	119.9	0.3	0
6	12.9	111.7	18.0	153.1	1.5	0
7	18.9	152.2	18.0	155.1	1.5	0
8	18.3	156.7	17.8	154.8	2.1	28.9
9	16.3	156.4	17.9	156.3	12.2	114.8
10	15.1	156.7	18.2	156.7	13.3	113.0
11	15.1	156.8	17.9	156.6	13.4	109.9
12	15.3	156.6	18.0	156.9	20.0	136.1
13	10.1	157.2	17.9	156.5	18.6	157.0
14	15.0	156.8	18.0	156.9	19.3	157.0
15	22.1	157.5	20.1	157.0	18.8	157.0
16	23.0	158.1	22.7	157.2	21.3	157.5
17	18.2	158.0	23.8	152.5	23.2	157.5
18	18.4	158.0	27.5	157.5	28.0	157.5
19	20.1	158.2	21.5	157.2	29.7	157.7
20	20.7	158.4	22.6	156.3	29.8	157.7
21	20.0	157.8	22.7	157.3	28.1	157.6
22	19.7	156.8	23.0	157.4	26.8	157.6
23	20.2	157.8	22.8	157.0	22.4	157.2
24	18.9	157.9	23.0	157.0	21.2	157.9
25	22.3	158.1	23.0	157.0	18.6	152.7
26	22.4	158.3	23.1	157.9	10.8	82.6
27	22.2	158.7	19.5	140.4	20.5	136.3
28	23.2	155.6	0	0	20.3	149.6
29	23.0	157.8	1.2	0	13.1	118.8
30	21.1	157.5	1.4	0	13.6	117.7
31	17.7	155.0			14.7	130.8
		Σ4723.4		Σ8778.1		Σ3374.9

Average Heat Release Rate

Date	January, 1979 10^9 BTU/HR	February, 1979 10^9 BTU/HR	March, 1979 10^9 BTU/HR
1	11.5	15.8	13.5
2	12.6	15.5	13.6
3	12.9	15.8	13.5
4	13.0	16.2	13.5
5	13.1	16.1	13.6
6	9.4	15.7	13.5
7	11.6	15.1	13.5
8	11.6	14.9	13.6
9	10.3	15.1	10.4
10	8.9	15.2	8.5
11	12.5	15.1	13.5
12	13.1	14.9	13.5
13	13.1	14.9	13.6
14	12.7	14.6	13.6
15	13.2	10.9	13.6
16	13.2	11.0	13.6
17	13.3	15.6	13.6
18	13.4	15.4	13.6
19	12.9	14.4	12.8
20	12.9	13.8	6.6
21	12.7	14.2	6.6
22	13.3	14.6	6.5
23	14.0	13.6	6.5
24	14.9	12.4	6.5
25	15.0	13.8	6.5
26	15.5	12.5	6.5
27	17.2	13.3	9.1
28	15.1	9.1	14.2
29	15.0		13.7
30	14.8		13.1
31	15.5		11.3

Average Heat Release Rate

Date	April, 1979 10^9 BTU/HR	May, 1979 10^9 BTU/HR	June, 1979 10^9 BTU/HR
1	13.7	13.6	13.7
2	13.7	13.7	13.7
3	13.7	13.6	13.7
4	13.6	13.6	13.7
5	13.6	13.6	13.7
6	13.6	13.7	13.7
7	13.6	13.5	13.7
8	13.6	13.6	13.7
9	13.6	13.6	13.7
10	11.0	13.7	13.6
11	11.0	13.7	13.6
12	10.5	13.7	13.6
13	11.9	13.7	13.5
14	11.9	13.7	13.3
15	11.9	13.7	12.7
16	11.9	13.7	7.1
17	11.9	13.6	8.8
18	11.9	13.6	7.1
19	11.9	13.7	7.1
20	11.9	13.7	7.1
21	11.9	13.6	7.1
22	11.9	13.7	7.1
23	9.3	13.7	7.1
24	9.1	13.7	7.1
25	11.9	13.1	6.7
26	11.9	13.5	5.1
27	11.9	13.7	5.1
28	12.4	13.7	5.1
29	12.5	13.7	5.1
30	13.2	13.7	5.1
31		13.6	

Average Heat Release Rate

Date	July, 1979 10^9 BTU/HR	August, 1979 10^9 BTU/HR	September, 1979 10^9 BTU/HR
1	5.1	5.6	1.9
2	5.1	5.6	1.9
3	5.1	5.7	3.2
4	5.1	5.8	3.2
5	5.1	5.8	5.5
6	5.1	5.8	2.2
7	5.1	6.0	5.7
8	5.1	3.2	5.9
9	5.1	0	5.9
10	5.1	5.3	5.9
11	5.1	4.9	5.9
12	5.1	5.0	5.3
13	5.2	5.0	6.0
14	5.1	5.0	5.1
15	5.2	5.0	0
16	5.2	4.9	2.3
17	5.1	2.1	2.4
18	5.1	3.1	0
19	5.1	6.9	1.4
20	5.2	6.7	2.3
21	5.2	6.4	2.3
22	5.2	6.1	0
23	5.2	6.1	0
24	5.2	6.3	3.6
25	5.2	6.4	3.7
26	5.2	6.4	4.4
27	5.3	6.4	5.5
28	5.6	6.4	8.3
29	5.0	6.4	8.3
30	5.6	6.4	8.3
31	5.6	5.5	

Average Heat Release Rate

Date	October, 1979 10^9 BTU/HR	November, 1979 10^9 BTU/HR	December, 1979 10^9 BTU/HR
1	5.5	6.6	2.8
2	5.5	5.9	1.2
3	5.9	4.4	0
4	5.4	4.4	0
5	6.2	5.0	0
6	4.7	6.4	0
7	6.3	6.5	0
8	6.5	6.5	1.2
9	6.5	6.5	4.8
10	6.5	6.5	4.7
11	6.5	6.5	4.6
12	6.5	6.5	5.7
13	6.5	6.5	6.5
14	6.5	6.5	6.5
15	6.6	6.5	6.5
16	6.6	6.6	6.6
17	6.6	6.4	6.6
18	6.6	6.6	6.6
19	6.6	6.6	6.6
20	6.6	6.5	6.6
21	6.6	6.6	6.6
22	6.5	6.6	6.6
23	6.6	6.5	6.6
24	6.6	6.5	6.6
25	6.6	6.5	6.4
26	6.6	6.6	3.4
27	6.6	5.9	5.7
28	6.5	0	6.2
29	6.6	0	5.0
30	6.6	0	4.9
31	6.5		5.5

RECORD OF RATE OF CHANGE ACROSS CONDENSERS

DATE	TEMP. CHANGE		ΔT	REASONS
04/10/79	67°	58°	9	Unit 3 trip while @ 950 MWe.
04/12/79	65°	56°	9	Unit 2 trip while @ 860 MWe.
04/23/79	65.5	56.5	9	Unit 2 trip while @ 860 MWe.
08/08/79	97.0	82.0	15	Unit 3 trip while @ 700 MWe.
08/17/79	87.0	76.5	11	Unit 3 trip while @ 500 MWe.
09/06/79	94.5	85.0	9	Unit 3 trip while @ 600 MWe.
12/02/79	59.0	47.5	11.5	Unit 2 trip while @ 760 MWe.

Intake Velocity

The intake velocity is a calculated value based on the volumetric flow rate and the projected area of the outer fixed screens which is available for cooling water flow. For Unit No. 1 the intake velocity Vi is calculated as

$$Vi = \frac{Qc}{AsxRf}$$ (Ref. Tech. Specs. Sec. 1.5.1)

where Qc = flow rate in gpm obtained from the capacity of the circulating water pumps

As = projected area of the opening of the frame of the outer fixed screens at Units 1 & 2

Rf = fraction of projected area available for volumetric flow.

For Unit No. 1, $Vi = \frac{Qc}{107{,}280\ Ft^2}$

For Unit Nos. 2 & 3, $Vi = \frac{Qc}{74{,}202\ Ft^2}$

The approach velocity, Va, is calculated in a similar fashion but the projected area for circulator water flow is measured 24 inches from the outer fixed screens at Units 1 & 2 and the traveling screens at Unit No. 3.

It is given by $Va = \frac{Qc}{Af}$ (Ref. Tech. Spec. Sec. 1.5.2)

where Af = average cross sectional area in ft^2, 24 inches from intake forebay opening to river.

For Unit No. 1 $Va = \frac{Qc}{249{,}560\ Ft^2}$

For Unit No. 2 & 3 $Va = \frac{Qc}{172{,}408\ Ft^2}$

Head Loss and Discharge Velocity

The discharge velocity Vvc, is a calculated value derived from the following equation:

$$Vvc = C\sqrt{2gh}$$ (Tech. Specs. Sec. 1.5.3.)

where C = velocity discharge coefficient, 0.95
g = acceleration of gravity 32 ft/sec^2
h = height in ft of discharge canal water above river level.

The discharge velocity is the velocity at the vena contracta of the water jets issuing from the discharge ports.

Indian Point Station

January, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
2	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
3	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
4	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
5	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
6	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
7	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
8	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
9	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
10	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
11	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
12	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
13	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
14	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
15	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
16	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
17	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
18	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
19	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
20	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
21	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
22	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
23	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
24	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
25	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
26	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
27	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
28	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
29	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
30	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
31	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13

Indian Point Station

February, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
2	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
3	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
4	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
5	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
6	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
7	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
8	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
9	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
10	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
11	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
12	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
13	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
14	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
15	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
16	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
17	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
18	0	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
19	0	0	0	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13	0	1.13	1.13
20	0	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
21	0	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
22	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
23	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
24	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
25	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
26	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
27	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
28	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13

Indian Point Station

March, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
2	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
3	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
4	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
5	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
6	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
7	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
8	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
9	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
10	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
11	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
12	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
13	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
14	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
15	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
16	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
17	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
18	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
19	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
20	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
21	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	0	0	1.13
22	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
23	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
24	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
25	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
26	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
27	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	0	0	0	1.13
28	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
29	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
30	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
31	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13

Indian Point

April,1979

Intake Velocity (ft/sec)

Date	Unit I 11	12	Unit II 21	22	23	24	25	26	Unit III 31	32	33	34	35	36
1	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
2	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0	1.13	1.13
3	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13/1.89	1.13	0	1.13	1.13
4	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.13	1.89	1.13/1.89	1.13
5	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.13/1.89	1.89	1.89	1.13
6	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.89	1.89	1.89	1.89	1.89
7	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.89	1.89	1.89	1.89	1.89
8	0	1.30	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.89	1.89	1.89	1.89	1.89
9	0	0	1.13	1.13	1.13	1.13	1.13	1.13	1.89	1.89	1.89	1.89	1.89	1.89
10	0	0	1.13	1.13	1.13	1.13	1.13	1.13/1.89	1.89	1.89	1.89	1.89	1.89	1.89
11	0	0	1.13	1.13	1.13	1.13	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
12	0	0	1.13	1.13	1.13	1.13/1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
13	0	0	1.13	1.13/1.89	1.13	1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
14	0	0	1.13	1.89	1.13	1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
15	0	0	1.13	1.89	1.13	1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
16	0	0	1.13/1.89	1.89	1.13	1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
17	0	0	1.89	1.89	1.13/1.89	1.89	1.13	1.89	1.89	1.89	1.89	1.89	1.89	1.89
18	0	0	1.89	1.89	1.89	1.89	1.13/1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
19	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
20	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
21	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
22	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
23	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
24	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
25	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
26	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
27	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
28	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
29	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
30	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89

Indian Point Station

May, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
2	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
3	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
4	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
5	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
6	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
7	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
8	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
9	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
10	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
11	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
12	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
13	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
14	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
15	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
16	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
17	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
18	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
19	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
20	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
21	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
22	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
23	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
24	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
25	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
26	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
27	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
28	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
29	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
30	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
31	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89

Indian Point Station

June, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
2	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0
3	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0
4	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0
5	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0
6	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
7	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89
8	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89
9	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89
10	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89
11	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89
12	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
13	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
14	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
15	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
16	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
17	1.89	0	1.89	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89
18	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
19	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
20	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
21	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
22	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
23	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
24	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
25	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
26	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
27	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
28	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
29	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
30	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89

Indian Point Station

July, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
2	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
3	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
4	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
5	1.89	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
6	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
7	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
8	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
9	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
10	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
11	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
12	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
13	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
14	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
15	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
16	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
17	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
18	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
19	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
20	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
21	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
22	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
23	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
24	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
25	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
26	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
27	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
28	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
29	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
30	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
31	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89

Indian Point Station

August, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	12	Unit II 21	22	23	24	25	26	Unit III 31	32	33	34	35	36
1	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
2	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
3	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
4	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
5	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
6	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
7	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
8	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
9	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
10	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
11	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
12	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
13	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
14	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
15	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
16	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
17	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
18	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
19	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
20	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
21	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
22	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
23	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
24	0	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
25	0	0	0	0	0	0	0	0	1.89	0	1.89	0	1.89	1.89
26	0	0	0	0	0	0	0	0	1.89	0	1.89	0	1.89	1.89
27	0	0	0	0	0	0	0	0	1.89	0	1.89	0	1.89	1.89
28	0	1.89	0	0	0	0	0	0	1.89	0	1.89	0	1.89	1.89
29	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
30	0	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89
31	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89

Indian Point Station

September, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	Unit I 12	Unit II 21	Unit II 22	Unit II 23	Unit II 24	Unit II 25	Unit II 26	Unit III 31	Unit III 32	Unit III 33	Unit III 34	Unit III 35	Unit III 36
1	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	0	0	1.89
2	0	1.89	0	0	0	0	0	0	0	0	1.89	0	0	0
3	0	1.89	0	0	0	0	0	0	0	1.89	1.89	1.89	1.89	0
4	0	1.89	0	0	0	0	0	0	0	1.89	0	1.89	1.89	1.89
5	0	1.89	0	0	0	0	0	0	1.89	1.89	0	1.89	1.89	1.89
6	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
7	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	0	1.89	1.89
8	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	0	1.89	1.89
9	0	1.89	0	0	0	0	0	0	1.89	0	1.89	0	1.89	1.89
10	0	1.89	0	0	0	0	0	0	1.89	1.89	1.89	1.89	1.89	1.89
11	0	1.89	0	0	0	0	0	0	1.89	0	1.89	1.89	1.89	1.89
12	0	1.89	1.89	0	0	1.89	1.89	0	1.89	0	1.89	1.89	1.89	1.89
13	0	1.89	1.89	1.89	1.89	1.89	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89
14	0	1.89	0	1.89	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
15	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89	1.89	1.89	1.89	1.89
16	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89	0	1.89	0	1.89
17	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	1.89	0	1.89	0	1.89
18	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	1.89	0	0
19	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	1.89	0	0
20	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
21	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
22	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
23	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
24	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
25	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
26	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
27	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
28	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0	0
29	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
30	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0

Indian Point Station

October, 1979

Intake Velocity (ft/sec)

	Unit I		Unit II						Unit III					
Date	11	12	21	22	23	24	25	26	31	32	33	34	35	36
1	0	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
2	0	0	1.89	1.89	1.89	1.89	0	1.89	0	0	0	0	0	0
3	0	0	1.89	1.89	1.89	1.89	0	1.89	0	0	0	0	0	0
4	0	0	1.89	1.89	1.89	1.89	0	1.89	0	0	0	0	0	0
5	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
6	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
7	0	0	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0	0
8	0	0	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0	0
9	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
10	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
11	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
12	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
13	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
14	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
15	0	0	1.89	1.89	1.89	1.89	1.89	1.89	0	0	0	0	0	0
16	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
17	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
18	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
19	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
20	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
21	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
22	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
23	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
24	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
25	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
26	0	0	1.89	0	1.89	0	1.89	1.89	0	0	0	0	0	0
27	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
28	0	0	1.89	0	0	1.89	1.89	1.89	0	0	0	0	0	0
29	0	0	1.89	0	0	1.89	1.89	1.89	0	0	0	0	0	0
30	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
31	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0

Indian Point Station

November, 1979

Intake Velocity (ft/sec)

Date	Unit I 11	12	Unit II 21	22	23	24	25	26	Unit III 31	32	33	34	35	36
1	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
2	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
3	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
4	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
5	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
6	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
7	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
8	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
9	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
10	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
11	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
12	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
13	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
14	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
15	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
16	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
17	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
18	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
19	0	0	1.89	0	1.89	1.89	1.89	1.89	0	0	0	0	0	0
20	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
21	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
22	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
23	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
24	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
25	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
26	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
27	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
28	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
29	0	0	1.89	0	0	1.89	0	1.89	0	0	0	0	0	0
30	0	0	1.89	0	0	1.89	0	0	0	0	0	0	0	0

Indian Point Station

December, 1979

Intake Velocity (ft/sec)

	Unit I		Unit II						Unit III					
Date	11	12	21	22	23	24	25	26	31	32	33	34	35	36
1	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
2	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
3	0	0	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
4	0	0	0	0	1.89	0	0	1.89	0	0	0	0	0	0
5	0	1.89	0	0	0	0	0	0	0	0	0	0	0	0
6	0	1.89	1.89	0	1.89	0	0	0	0	0	0	0	0	0
7	0	1.89	1.89	0	1.89	0	0	0	0	0	0	0	0	0
8	0	1.89	1.89	0	1.89	1.89	0	1.89	0	0	0	0	0	0
9	0	1.89	1.89	0	1.89	1.89	1.13	1.89	0	0	0	0	0	0
10	0	0	1.89	0	1.89	1.89	1.13	1.89	0	0	0	0	0	0
11	0	0	1.89	0	1.89	1.89	1.13	1.89	0	0	0	0	0	0
12	0	0	1.89	0	1.89	1.89	1.13	1.89	0	0	0	0	0	0
13	0	0	1.89	1.13	1.89	1.89	1.13	1.89	0	0	0	0	0	0
14	0	0	1.89	1.13	1.89/1.13	1.89	1.13	1.89/1.13	0	0	0	0	0	0
15	0	0	1.89	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
16	0	0	1.89	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
17	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
18	0	0	1.89	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
19	0	0	0	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
20	0	0	0	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
21	0	0	0	1.13	1.13	1.89	1.13	1.13	0	0	0	0	0	0
22	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
23	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
24	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
25	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
26	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
27	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
28	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
29	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
30	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0
31	0	0	1.89	1.13	1.13	1.89	1.13	0	0	0	0	0	0	0

Head Differential & Discharge Velocity

	January, 1979		February, 1979		March, 1979	
Date	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)
1	19	9.6	19	9.6	19	9.6
2	19	9.6	19	9.6	19	9.6
3	19	9.6	18	9.3	19	9.6
4	19	9.6	20	9.8	19	9.6
5	19	9.6	20	9.8	19	9.6
6	19	9.6	19	9.6	19	9.6
7	19	9.6	19	9.6	21	10.1
8	19	9.6	19	9.6	21	10.1
9	19	9.6	19	9.6	20	9.8
10	19	9.6	19	9.6	20	9.8
11	19	9.6	20	9.8	19	9.6
12	20	9.8	20	9.8	18	9.3
13	18	9.3	20	9.8	18	9.3
14	18	9.3	20	9.8	18	9.3
15	18	9.3	20	9.8	18	9.3
16	18	9.3	19	9.6	18	9.3
17	18	9.3	19	9.6	18	9.3
18	18	9.3	19	9.6	20	9.8
19	19	9.6	19	9.6	20	9.8
20	19	9.6	18	9.3	18	9.3
21	19	9.6	18	9.3	19	9.6
22	18	9.3	19	9.6	20	9.8
23	19	9.6	19	9.6	20	9.8
24	18	9.3	19	9.6	20	9.8
25	18	9.3	19	9.6	20	9.8
26	19	9.6	19	9.6	20	9.8
27	19	9.6	19	9.6	20	9.8
28	19	9.6	19	9.6	18	9.3
29	19	9.6	-	-	19	9.6
30	19	9.6	-	-	19	9.6
31	19	9.6	-	-	20	9.8

Head Differential & Discharge Velocity

	April, 1979		May, 1979		June, 1979	
Date	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)
1	18	9.3	21	10.1	20	9.8
2	20	9.8	19	9.6	20	9.8
3	18	9.3	20	9.8	19	9.6
4	18	9.3	20	9.8	19	9.6
5	18	9.3	19	9.6	19	9.6
6	19	9.6	19	9.6	19	9.6
7	19	9.6	19	9.6	18	9.3
8	19	9.6	18	9.3	18	9.3
9	20	9.8	18	9.3	18	9.3
10	21	10.1	18	9.3	18	9.3
11	21	10.1	18	9.3	20	9.8
12	22	10.3	18	9.3	19	9.6
13	20	9.8	19	9.6	19	9.6
14	19	9.6	19	9.6	20	9.8
15	20	9.8	19	9.6	21	10.1
16	19	9.6	19	9.6	20	9.8
17	21	10.1	19	9.6	20	9.8
18	19	9.6	20	9.8	19	9.6
19	19	9.6	21	10.1	20	9.8
20	19	9.6	21	10.1	20	9.8
21	19	9.6	20	9.8	19	9.6
22	21	10.1	30	*	19	9.6
23	20	9.8	28	*	19	9.6
24	20	9.8	30	*	19	9.6
25	20	9.8	20	9.8	19	9.6
26	20	9.8	20	9.8	19	9.6
27	20	9.8	20	9.8	19	9.6
28	20	9.8	20	9.8	21	10.1
29	20	9.8	20	9.8	20	9.8
30	21	10.1	20	9.8	19	9.6
31			20	9.8		

*Con Edison in conjunction with Aquatic Test to investigate mixing characteristic of discharge structor.

Head Differential & Discharge Velocity

	July, 1979		August, 1979		September, 1979	
Date	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)	Loss in.	Velocity (ft/sec)
1	19	9.6	19	9.6	18	9.3
2	19	9.6	18	9.3	14	8.8
3	19	9.6	19	9.6	19	9.6
4	20	9.8	19	9.6	20	9.8
5	19	9.6	20	9.8	19	9.6
6	19	9.6	19	9.6	20	9.8
7	19	9.6	19	9.6	18	9.3
8	21	10.1	19	9.6	18	9.3
9	20	9.8	19	9.6	19	9.6
10	19	9.6	19	9.6	20	9.8
11	21	10.1	19	9.6	19	9.6
12	21	10.1	20	9.8	19	9.6
13	19	9.6	20	9.8	20	9.8
14	21	10.1	20	9.8	19	9.6
15	21	10.1	20	9.8	18	9.3
16	20	9.8	20	9.8	19	9.6
17	19	9.6	20	9.8	19	9.6
18	19	9.6	20	9.8	19	9.6
19	19	9.6	20	9.8	19	9.6
20	19	9.6	19	9.6	19	9.6
21	19	9.6	18	9.3	18	9.3
22	20	9.8	18	9.3	20	9.8
23	16	9.1	18	9.3	19	9.6
24	20	9.8	19	9.6	19	9.6
25	20	9.8	19	9.6	18	9.3
26	19	9.6	18	9.3	19	9.6
27	19	9.6	18	9.3	18	9.3
28	19	9.6	19	9.6	18	9.3
29	19	9.6	19	9.6	19	9.6
30	19	9.6	21	10.1	18	9.3
31	19	9.6	20	9.8		

Head Differential & Discharge Velocity

Date	October, 1979 Loss in.	October, 1979 Velocity (ft/sec)	November, 1979 Loss in.	November, 1979 Velocity (ft/sec)	December, 1979 Loss in.	December, 1979 Velocity (ft/sec)
1	18	9.3	18	9.3	18	9.3
2	19	9.6	18	9.3	18	9.3
3	18	9.3	18	9.3	18	9.3
4	18	9.3	19	9.6	20	9.8
5	18	9.3	19	9.6	20	9.8
6	19	9.6	19	9.6	19	9.6
7	20	9.8	20	9.8	19	9.6
8	19	9.6	20	9.8	18	9.3
9	19	9.6	20	9.8	18	9.3
10	19	9.6	20	9.8	18	9.3
11	19	9.6	18	9.3	18	9.3
12	19	9.6	18	9.3	18	9.3
13	20	9.8	18	9.3	18	9.3
14	19	9.6	18	9.3	18	9.3
15	19	9.6	18	9.3	18	9.3
16	18	9.3	18	9.3	18	9.3
17	17	9.2	18	9.3	18	9.3
18	18	9.3	19	9.6	18	9.3
19	18	9.3	18	9.3	18	9.3
20	18	9.3	19	9.6	18	9.3
21	18	9.3	21	10.1	18	9.3
22	18	9.3	21	10.1	18	9.3
23	19	9.6	19	9.6	18	9.3
24	21	10.1	19	9.6	18	9.3
25	19	9.6	18	9.3	18	9.3
26	19	9.6	18	9.3	18	9.3
27	18	9.3	18	9.3	18	9.3
28	18	9.3	18	9.3	18	9.3
29	19	9.6	18	9.3	18	9.3
30	18	9.3	18	9.3	18	9.3
31	18	9.3			18	9.3

Indian Point Station

January, 1979

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	38.0	40.0	39.2	63.5	67.0	66.2
2	38.0	41.5	39.5	61.5	68.0	65.1
3	35.0	39.0	36.2	61.0	65.5	62.5
4	32.0	38.5	34.3	58.0	65.0	60.8
5	32.0	37.5	34.4	58.5	67.4	61.4
6	32.0	36.0	33.6	51.0	54.0	52.7
7	33.0	38.0	35.1	57.0	61.0	58.7
8	34.0	38.0	34.8	57.0	62.0	58.3
9	31.5	33.0	32.2	43.0	60.0	53.1
10	32.0	35.5	33.0	44.0	62.5	51.0
11	32.5	36.0	33.5	51.0	64.0	58.8
12	32.5	36.0	34.0	58.0	63.5	60.5
13	32.5	36.0	33.8	58.0	63.5	60.2
14	32.5	37.5	34.3	58.0	64.0	60.0
15	32.0	35.0	33.1	58.0	62.5	59.7
16	32.5	36.0	33.7	59.0	64.0	60.3
17	32.5	36.5	34.0	58.5	64.5	60.7
18	32.5	35.0	33.3	59.0	63.5	60.2
19	32.0	36.5	33.8	58.0	63.5	59.9
20	32.5	35.5	33.6	58.0	64.0	60.3
21	32.5	36.5	34.6	58.5	63.0	60.3
22	33.0	36.0	33.3	58.5	63.0	60.1
23	33.0	37.0	34.3	60.0	67.0	62.7
24	32.5	36.5	34.5	62.0	67.5	64.7
25	33.0	37.0	34.3	63.0	69.0	64.7
26	32.5	36.5	33.7	62.5	70.0	65.1
27	32.5	37.0	34.0	65.5	73.0	68.8
28	32.5	37.0	33.8	62.5	68.5	64.4
29	32.5	36.0	33.4	62.0	68.0	63.8
30	33.0	37.0	33.9	62.5	67.5	64.0
31	32.5	37.0	34.0	63.5	71.0	65.5

Indian Point Station

February, 1979

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	33.0	41.0	34.4	64.0	72.0	67.1
2	33.0	36.0	34.1	61.5	75.0	68.0
3	32.5	37.0	33.9	61.0	71.0	66.1
4	33.0	37.0	34.5	65.5	71.5	67.4
5	32.0	34.5	33.0	63.5	68.5	65.7
6	32.0	35.0	33.1	63.5	67.5	64.9
7	33.0	36.5	34.2	62.5	68.0	64.8
8	33.0	36.5	34.0	62.5	68.5	64.3
9	33.0	36.5	33.7	63.0	67.5	64.3
10	32.5	37.0	34.2	63.5	68.5	64.9
11	33.0	35.5	33.9	62.5	66.5	64.4
12	33.0	36.0	34.0	63.0	66.5	64.1
13	32.5	35.5	33.8	62.5	67.5	64.0
14	32.5	35.5	33.8	61.5	65.5	63.4
15	32.5	36.0	34.0	49.0	64.0	56.1
16	32.5	35.0	33.7	49.0	62.0	56.0
17	32.0	36.0	33.7	62.0	70.5	65.9
18	33.0	36.0	34.4	65.0	72.0	69.2
19	33.0	40.0	35.0	69.0	74.0	71.2
20	32.5	38.0	34.7	70.0	76.0	72.0
21	32.0	38.5	34.7	69.5	82.5	74.4
22	33.0	38.0	34.7	61.0	82.5	72.3
23	33.0	41.5	35.2	60.8	66.5	62.7
24	33.0	37.0	35.0	61.0	66.0	61.0
25	33.0	37.0	34.4	60.0	65.5	62.2
26	33.0	36.5	34.5	48.0	64.5	59.8
27	33.0	36.5	34.3	56.0	65.0	61.1
28	33.0	37.0	34.0	47.0	64.5	52.4

Indian Point Station

March, 1979

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	32.0	36.5	34.1	59.5	65.5	61.5
2	32.5	38.0	33.7	57.0	65.5	61.4
3	34.0	37.5	35.7	58.5	65.0	61.4
4	34.5	37.0	35.3	59.0	65.0	61.8
5	34.5	38.0	35.2	60.0	67.5	62.8
6	35.0	37.5	35.4	60.0	65.0	61.3
7	34.0	36.0	34.2	64.0	65.5	64.5
8	33.5	34.5	33.7	59.0	60.0	59.2
9	32.5	35.5	33.7	45.5	62.5	52.9
10	32.5	35.5	34.0	45.5	57.5	57.5
11	34.0	37.0	35.2	57.0	65.0	61.0
12	34.5	39.0	36.0	60.5	67.0	63.0
13	34.5	38.5	36.2	60.5	66.5	63.4
14	35.5	38.5	37.4	61.0	66.5	64.5
15	35.5	40.0	36.5	60.5	68.0	62.8
16	34.5	39.0	37.0	62.0	67.5	64.7
17	36.0	39.0	37.6	62.0	72.0	65.4
18	37.0	39.5	38.1	63.5	69.0	66.1
19	37.0	39.5	38.4	55.5	69.0	65.5
20	38.0	40.5	39.4	51.5	60.5	56.6
21	38.5	40.0	39.5	57.0	62.0	60.1
22	38.5	41.0	39.8	57.0	60.5	58.4
23	38.5	41.0	39.8	57.5	62.5	59.8
24	39.5	42.0	40.7	58.5	63.0	60.6
25	40.5	42.0	41.2	59.0	64.0	61.4
26	40.5	42.5	41.5	59.5	63.5	61.3
27	40.5	42.0	41.4	54.0	71.0	60.4
28	40.0	42.5	41.4	69.0	73.0	70.8
29	41.5	43.0	42.0	70.0	74.0	71.9
30	41.0	44.0	42.4	67.5	75.5	71.7
31	43.0	44.5	43.7	68.0	76.5	71.4

Indian Point Station
April, 1979

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	44.0	45.5	44.6	75.5	78.0	76.6
2	45.0	45.5	45.4	76.0	78.5	76.9
3	44.0	46.5	45.5	72.5	79.5	75.6
4	44.5	46.0	45.5	70.0	75.0	72.5
5	43.5	46.5	45.4	68.0	72.0	70.1
6	42.0	45.0	43.6	64.0	67.0	65.4
7	41.5	45.0	43.1	63.5	67.5	65.1
8	42.0	44.0	43.4	62.0	66.0	65.1
9	42.0	44.5	43.3	63.5	67.0	65.2
10	42.0	45.5	43.4	53.5	69.5	62.1
11	40.0	45.0	43.1	57.5	64.5	61.3
12	43.0	45.0	44.2	55.5	64.5	61.7
13	44.0	46.0	44.9	62.0	65.0	63.5
14	44.0	46.0	45.2	62.5	64.0	63.3
15	44.0	46.0	44.9	62.0	64.0	63.1
16	44.0	45.5	44.8	61.5	64.5	63.1
17	44.0	46.0	45.1	60.5	65.5	62.7
18	44.0	47.0	45.3	60.5	64.5	62.3
19	44.0	45.5	44.9	61.0	62.5	61.5
20	44.0	45.5	44.8	57.0	59.0	58.3
21	45.0	46.0	45.5	61.0	63.5	62.5
22	45.5	47.0	46.3	62.0	64.5	63.3
23	46.0	48.0	47.2	55.0	65.5	60.8
24	47.0	48.0	47.6	55.5	65.0	60.1
25	48.0	48.5	48.0	64.5	66.0	65.5
26	48.5	49.0	48.8	65.5	67.0	66.1
27	49.0	50.0	49.7	66.0	68.0	66.9
28	50.0	52.0	50.8	67.0	69.0	67.9
29	51.0	53.5	51.5	67.5	71.0	68.7
30	51.0	53.0	52.2	69.0	70.0	69.5

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	53.0	55.0	53.7	70.0	73.0	71.0
2	53.0	55.0	54.5	70.5	73.0	71.9
3	54.0	55.5	55.1	71.5	73.5	72.8
4	55.0	57.0	56.3	72.0	75.0	73.8
5	56.0	58.0	57.2	65.0	75.5	73.5
6	57.0	58.0	57.7	74.5	76.5	75.4
7	57.0	59.5	58.3	75.0	76.5	75.9
8	57.5	60.5	59.4	75.5	78.5	76.7
9	59.0	61.0	60.0	76.0	79.0	77.2
10	59.0	61.5	60.4	77.0	80.5	77.9
11	60.5	62.0	61.3	77.5	79.0	78.0
12	61.0	62.5	61.8	77.0	79.5	78.8
13	61.5	63.0	62.3	78.0	80.0	79.3
14	61.0	63.5	62.4	78.3	80.5	79.4
15	62.5	64.0	63.1	79.5	81.0	80.2
16	63.5	66.0	64.5	79.5	83.0	81.1
17	64.0	66.0	65.2	80.0	83.0	81.5
18	64.5	66.0	65.4	81.0	83.0	81.7
19	64.5	66.5	65.8	80.5	83.0	81.8
20	65.0	67.0	66.2	81.0	84.0	82.5
21	66.0	67.0	66.6	81.5	84.0	83.1
22	66.0	67.0	66.8	82.0	84.5	83.4
23	66.0	67.0	66.9	82.0	84.5	83.5
24	66.0	67.0	66.8	81.5	84.0	83.2
25	65.0	67.0	66.1	79.5	83.0	81.5
26	63.0	66.0	64.7	79.0	81.5	80.3
27	63.0	63.0	63.0	79.0	79.5	79.1
28	63.0	65.0	63.7	78.0	84.0	80.3
29	63.0	65.5	64.6	80.5	84.0	82.8
30	63.5	65.0	64.5	81.0	83.0	82.1
31	64.0	66.0	65.0	81.0	83.5	82.7

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	65.0	67.0	66.0	82.0	86.5	84.0
2	66.0	67.0	66.7	85.0	87.0	85.9
3	66.0	68.0	67.1	85.5	87.5	86.4
4	66.5	68.0	67.5	85.5	87.5	86.7
5	67.0	70.0	68.1	86.0	89.0	87.3
6	67.0	69.5	68.5	86.0	88.5	87.6
7	67.5	70.0	68.8	86.5	90.0	88.0
8	68.0	70.0	69.6	87.0	90.5	88.6
9	68.5	70.0	69.8	86.0	89.5	87.7
10	69.0	70.0	69.9	86.0	88.5	87.6
11	69.0	70.5	70.0	87.0	88.5	87.9
12	69.0	70.5	70.0	86.0	89.0	87.4
13	69.0	70.5	70.0	86.0	88.5	87.2
14	69.5	70.5	70.1	86.5	88.0	87.2
15	70.0	71.5	70.7	87.0	90.0	87.4
16	70.5	72.0	71.4	81.0	86.5	83.4
17	71.5	73.0	72.3	84.0	89.0	86.7
18	72.0	74.0	73.1	86.0	89.5	88.0
19	71.5	74.0	73.0	86.5	89.0	88.3
20	71.0	73.5	72.5	85.0	88.5	86.9
21	72.0	74.0	73.1	87.0	89.5	88.4
22	72.5	74.0	73.3	87.0	89.5	88.3
23	73.0	74.0	73.4	87.0	90.0	88.4
24	72.0	74.0	72.9	87.0	89.0	87.9
25	71.5	74.0	72.6	85.0	89.0	87.0
26	71.5	73.0	72.5	81.5	84.0	83.0
27	72.5	73.0	73.0	82.0	83.5	82.9
28	72.5	73.5	73.0	82.5	84.0	83.4
29	73.0	74.0	73.1	83.0	84.0	83.7
30	73.0	74.0	73.7	84.0	85.0	84.5

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	73.5	74.0	74.0	84.0	85.5	85.0
2	73.5	75.0	74.2	83.0	86.5	84.7
3	74.0	75.5	74.4	84.0	87.0	84.8
4	73.5	75.0	74.1	83.5	85.5	84.4
5	73.0	75.0	73.8	83.0	85.5	84.0
6	72.0	74.5	73.2	81.5	85.0	85.0
7	72.5	74.5	73.5	82.5	85.0	83.3
8	72.5	74.5	73.6	82.5	84.5	83.4
9	73.0	74.5	73.6	83.0	84.5	83.5
10	72.5	73.5	72.8	82.5	84.5	83.9
11	73.5	75.0	74.0	85.0	86.5	85.7
12	74.0	75.0	74.6	85.5	87.0	86.3
13	74.0	77.0	75.3	86.5	87.0	86.6
14	75.0	78.0	76.9	88.0	89.0	88.4
15	76.0	77.5	77.0	89.0	90.0	89.6
16	77.0	78.5	77.4	88.5	91.0	89.5
17	77.0	79.0	78.1	88.5	91.5	90.0
18	72.0	76.5	74.4	84.0	88.5	87.2
19	77.5	79.5	78.1	88.5	91.0	89.3
20	78.0	79.5	78.9	88.0	90.5	89.6
21	78.0	79.5	79.1	88.5	90.5	89.8
22	78.5	80.5	79.4	88.5	94.0	91.6
23	78.5	80.5	79.9	90.0	93.5	92.3
24	79.0	80.5	79.9	89.0	94.0	91.6
25	79.0	81.0	80.2	92.0	94.0	93.0
26	80.0	81.0	80.8	90.0	92.0	91.3
27	80.0	81.5	81.0	90.5	93.0	91.9
28	80.5	81.5	81.3	91.5	93.5	92.7
29	80.5	82.0	81.3	91.5	93.5	92.6
30	80.0	82.0	81.0	91.0	95.0	93.1
31	79.0	82.0	80.7	93.0	96.0	94.3

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	80.0	82.5	81.1	94.0	96.5	95.0
2	81.5	82.0	81.7	95.0	97.0	95.5
3	80.5	82.0	81.2	95.0	96.5	95.6
4	80.0	82.0	81.1	95.0	97.0	95.8
5	81.0	82.5	81.0	95.5	98.0	96.2
6	81.0	82.5	81.5	95.0	97.0	96.0
7	80.0	81.5	80.8	94.5	97.0	95.8
8	80.0	82.0	81.1	81.0	97.0	88.6
9	80.5	81.0	80.8	80.5	86.0	81.9
10	80.0	81.0	80.3	86.0	94.0	91.5
11	78.5	80.5	79.5	91.5	94.0	92.2
12	77.0	80.0	78.7	90.0	92.5	91.3
13	77.0	79.5	77.9	89.0	92.5	90.5
14	76.5	78.5	77.5	88.5	90.5	89.7
15	75.5	78.5	77.0	88.0	91.0	89.5
16	75.0	78.0	76.0	87.5	90.5	88.5
17	75.0	76.5	75.8	75.0	88.0	82.3
18	75.0	76.5	75.5	75.0	91.5	80.4
19	74.5	76.0	75.3	89.5	95.0	92.1
20	74.0	77.5	75.2	91.5	95.5	93.4
21	73.5	76.5	74.7	93.0	100.0	94.4
22	74.0	77.0	75.5	92.5	98.5	95.0
23	74.0	77.5	75.7	92.5	95.5	94.2
24	74.5	76.0	75.2	90.0	96.0	92.3
25	75.0	76.5	75.8	95.5	96.2	95.7
26	75.5	76.5	76.1	95.6	97.0	96.3
27	76.0	77.0	76.5	96.2	97.5	96.8
28	76.0	77.5	77.0	92.3	97.5	95.2
29	77.0	78.5	77.9	91.0	94.0	93.2
30	77.5	79.0	78.1	93.0	95.0	93.6
31	77.5	79.0	78.2	88.5	93.0	90.1

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	77.5	78.5	78.0	78.0	88.5	81.5
2	77.5	78.0	77.6	78.0	78.0	78.0
3	78.0	78.0	78.0	78.0	78.0	78.0
4	77.5	78.5	78.0	78.5	91.0	88.2
5	78.0	78.0	78.0	92.5	97.0	95.2
6	78.0	78.5	78.2	80.0	97.5	85.3
7	78.0	78.5	78.2	91.0	95.5	93.9
8	77.0	78.5	77.4	93.0	97.0	93.9
9	76.0	77.5	76.6	96.0	97.0	96.1
10	75.0	76.5	75.9	93.0	96.5	94.6
11	76.0	77.0	76.4	91.5	94.0	93.0
12	76.0	77.0	76.5	87.0	93.0	89.7
13	76.5	77.0	76.6	85.5	87.5	86.3
14	77.0	77.0	77.0	78.0	88.0	85.5
15	76.5	77.0	76.6	76.0	78.0	76.4
16	76.0	76.0	76.0	77.5	77.5	77.5
17	73.5	74.0	73.9	73.5	76.0	74.8
18	73.5	74.5	73.9	73.5	81.0	79.0
19	73.5	74.5	73.9	78.0	85.0	80.1
20	72.5	74.0	73.4	77.5	78.0	77.7
21	73.0	73.5	73.2	73.5	78.0	76.5
22	73.0	73.5	73.0	72.0	78.0	73.9
23	72.0	73.0	72.4	78.5	84.5	80.9
24	70.0	72.0	70.4	78.0	83.0	79.3
25	70.0	72.0	70.4	72.0	86.5	80.5
26	69.5	73.0	70.7	81.0	85.0	82.4
27	69.5	71.5	70.5	81.0	87.0	85.1
28	69.5	74.5	70.5	86.0	88.0	86.5
29	70.0	72.0	70.5	84.0	87.5	85.0
30	70.0	71.5	70.4	83.5	85.5	84.2

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	69.0	71.5	70.1	80.0	85.5	83.2
2	69.5	71.0	70.1	80.0	92.5	86.8
3	69.5	71.5	70.5	89.0	92.0	89.9
4	70.5	72.0	70.9	83.0	89.0	87.2
5	70.0	71.5	70.7	87.0	90.5	88.6
6	69.0	71.0	69.9	80.0	88.0	82.8
7	68.5	70.0	69.2	87.5	89.0	88.1
8	67.5	70.0	69.0	86.0	89.0	87.3
9	66.5	69.5	67.8	81.5	87.0	84.1
10	65.0	67.0	66.4	80.0	82.5	81.5
11	65.0	66.0	65.6	80.0	82.0	80.7
12	64.5	65.0	64.9	79.5	81.0	80.2
13	68.5	69.5	69.2	78.5	80.0	79.3
14	62.0	64.0	63.2	77.0	79.0	78.2
15	61.5	63.0	62.1	81.5	86.0	84.2
16	61.0	62.0	61.7	84.0	85.0	84.7
17	61.0	61.5	61.4	78.5	80.0	79.6
18	61.0	61.0	61.0	78.5	80.0	79.4
19	60.5	61.0	60.9	78.5	85.5	81.0
20	61.0	61.5	61.1	79.0	84.5	81.8
21	60.0	60.0	60.0	78.5	81.0	80.0
22	60.5	60.5	60.5	79.0	81.0	80.2
23	60.5	61.0	60.6	79.0	82.0	80.8
24	60.5	65.0	61.9	79.0	85.5	80.8
25	61.0	62.0	61.8	83.0	85.0	84.1
26	61.0	62.0	61.4	82.5	85.0	83.8
27	60.0	61.5	60.8	80.0	84.0	83.0
28	59.0	60.5	59.6	82.5	83.5	83.5
29	59.0	60.0	59.3	81.0	83.5	82.3
30	58.5	60.0	59.3	76.0	83.0	80.4
31	58.0	59.5	58.9	74.5	78.0	76.6

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	58.0	59.0	58.9	76.0	77.5	76.8
2	58.0	59.0	58.5	67.0	77.0	75.1
3	57.5	59.0	58.5	68.5	72.5	69.5
4	57.0	58.0	57.2	67.5	69.0	68.5
5	56.0	57.0	56.5	67.0	75.5	69.9
6	55.5	56.5	56.2	73.0	75.0	74.2
7	55.0	56.5	56.0	73.0	75.0	74.0
8	55.0	56.5	55.9	73.0	74.5	73.7
9	55.0	56.5	55.8	73.0	74.0	73.7
10	55.0	56.5	56.1	73.5	75.0	74.3
11	55.0	57.0	55.6	73.0	74.0	73.5
12	55.0	56.0	55.4	72.5	74.0	73.4
13	54.0	56.0	55.1	72.0	74.0	73.0
14	53.5	56.0	54.6	71.0	74.5	72.6
15	53.0	57.0	54.8	71.0	79.5	74.9
16	52.5	56.5	53.9	75.5	79.0	76.6
17	52.0	55.0	53.5	71.0	84.0	77.3
18	53.0	55.0	53.5	80.0	83.5	81.0
19	52.5	53.5	53.0	71.0	76.0	74.5
20	52.5	53.0	53.0	75.0	77.0	75.6
21	52.0	53.5	52.7	74.0	76.0	74.4
22	52.0	53.0	52.4	74.5	76.5	75.4
23	52.0	53.0	52.4	74.0	76.0	75.2
24	52.0	52.5	52.3	74.0	76.5	75.3
25	52.0	52.5	52.4	74.0	76.5	75.4
26	52.0	54.5	53.2	74.0	78.0	76.3
27	52.0	53.0	52.6	52.0	76.0	72.1
28	52.0	52.0	52.0	52.0	52.0	52.0
29	51.0	52.0	51.3	49.5	50.5	50.1
30	50.0	50.5	50.1	48.0	49.0	48.7

UNIT 1, 2, 3 CIRCULATING WATER TEMP.

	INLET			OUTLET		
DATE	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	48.5	49.5	49.1	47.5	69.5	57.1
2	48.0	49.0	48.3	46.0	68.5	50.7
3	46.0	47.5	46.7	45.0	46.0	45.8
4	46.0	47.0	46.3	44.5	50.5	47.0
5	45.5	46.5	46.0	44.5	50.5	45.7
6	46.0	46.0	46.0	44.0	45.0	44.5
7	44.0	46.0	44.5	46.0	46.0	46.0
8	45.0	46.0	45.8	44.0	60.0	47.9
9	45.0	47.5	46.0	58.0	62.5	58.2
10	45.0	46.0	45.8	58.0	60.0	59.1
11	45.5	47.0	46.4	59.0	61.0	59.8
12	46.0	47.5	46.6	66.0	67.5	66.6
13	46.0	48.5	46.9	63.5	68.0	65.5
14	45.0	49.0	46.8	63.0	71.0	66.1
15	44.5	51.5	46.8	63.0	71.5	65.6
16	45.0	51.0	47.2	67.5	70.0	68.5
17	44.0	48.0	45.7	67.5	72.0	68.9
18	42.5	48.5	44.6	68.0	77.0	72.6
19	43.0	45.5	43.6	69.0	75.0	73.3
20	42.5	48.0	43.4	71.0	74.5	73.2
21	42.0	49.0	44.3	71.0	74.0	72.4
22	42.0	43.0	42.7	64.0	73.5	69.5
23	42.0	43.5	43.0	64.0	67.0	65.4
24	42.0	48.0	44.1	64.0	67.0	65.3
25	43.5	48.0	46.1	55.0	66.0	64.7
26	43.0	47.0	44.7	53.5	60.0	55.5
27	41.0	46.0	44.0	53.0	73.5	64.5
28	40.0	48.0	42.9	58.0	67.0	63.2
29	43.5	48.0	45.6	57.0	61.0	58.7
30	41.0	47.0	45.1	57.0	60.5	58.7
31	40.0	46.0	42.5	57.0	64.0	57.5

Indian Point Station

January, 1979

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			0	0			0	0	19
2			0	0			0	0	19
3			0	0			0	0	19
4			0	0			0	0	19
5			0	0			0	0	19
6			0	0			0	0	19
7			0	0			0	0	19
8			0	0			0	0	19
9			0	0			0	0	19
10			0	0			0	0	19
11			0	0			0	0	19
12			0	0			0	0	19
13			0	0			0	0	19
14			0	0			0	0	19
15			0	0			0	0	19
16			0	0			0	0	19
17			0	0			0	0	19
18			0	0			0	0	19
19			0	0			0	0	19
20			0	0			0	0	19
21			0	0			0	0	19
22			0	0			0	0	19
23			0	0			0	0	19
24			0	0			0	0	19
25			0	0			0	0	19
26			0	0			0	0	19
27			0	0			0	0	19
28			0	0			0	0	19
29			0	0			0	0	19
30			0	0			0	0	19
31			0	0			0	0	19

Indian Point Station

February, 1979

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			0	0			0	0	19
2			0	0			0	0	19
3			0	0			0	0	19
4			0	0			0	0	19
5			0	0			0	0	19
6			0	0			0	0	19
7			0	0			0	0	19
8			0	0			0	0	19
9			0	0			0	0	19
10			0	0			0	0	19
11			0	0			0	0	19
12			0	0			0	0	19
13			0	0			0	0	19
14			0	0			0	0	19
15			0	0			0	0	19
16			0	0			0	0	19
17			0	0			0	0	19
18			0	0			0	0	19
19			0	0			0	0	19
20			0	0			0	0	19
21			0	0			0	0	19
22			0	0			0	0	19
23			0	0			0	0	19
24			0	0			0	0	19
25			0	0			0	0	19
26			0	0			0	0	19
27			0	0			0	0	19
28			0	0			0	0	19

Indian Point Station

March, 1979

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			0	0			0	0	19
2			0	0			0	0	19
3			0	0			0	0	19
4			0	0			0	0	19
5			0	0			0	0	19
6			0	0			0	0	19
7			0	0			0	0	19
8			0	0			0	0	19
9			0	0			0	0	19
10			0	0			0	0	19
11			0	0			0	0	19
12			0	0			0	0	19
13			0	0			0	0	19
14			0	0			0	0	19
15			0	0			0	0	19
16			0	0			0	0	19
17			0	0			0	0	19
18			0	0			0	0	19
19			0	0			0	0	19
20			0	0			0	0	19
21			0	0			0	0	19
22			0	0			0	0	19
23			0	0			0	0	19
24			0	0			0	0	19
25			0	0			0	0	19
26			0	0			0	0	19
27			0	0			0	0	19
28			0	0			0	0	19
29			0	0			0	0	19
30			0	0			0	0	19
31			0	0			0	0	19

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0	1715	1810	055	100	24.6
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	%FLOW	ON	OFF	HRS.	%FLOW	GPM X 10^3
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0			0	0	19.0
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0
31			0	0			0	0	19.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH. GPM X 10^3
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW	
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0			0	0	19.0
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17	0930		1430	100			0	0	103.6
18			24	100			0	0	159.0
19			24	100			0	0	159.0
20			24	100			0	0	159.0
21			24	100			0	0	159.0
22			24	100			0	0	159.0
23			24	100			0	0	159.0
24			24	100			0	0	159.0
25			24	100			0	0	159.0
26			24	100			0	0	159.0
27			24	100			0	0	159.0
28			24	100			0	0	159.0
29			24	100			0	0	159.0
30			24	100			0	0	159.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			0	0	159.0
2			24	100			0	0	159.0
3			24	100			0	0	159.0
4			24	100			0	0	159.0
5		1440	1440	100	1440		0920	100	159.0
6			0	0			24	100	159.0
7			0	0			24	100	159.0
8			0	0			24	100	159.0
9			0	0			24	100	159.0
10			0	0		0130	0130	100	27.4
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0
31			0	0			0	0	19.0

Indian Point Station
August, 1979
Permit No. - NY0004472

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0			0	0	19.0
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0	1220		11:40	100	87.6
29			0	0			24	100	159.0
30			0	0			24	100	159.0
31			0	0			24	100	159.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			24	100	159.0
2			0	0			24	100	159.0
3			0	0			24	100	159.0
4			0	0			24	100	159.0
5			0	0			24	100	159.0
6			0	0			24	100	159.0
7			0	0			24	100	159.0
8			0	0			24	100	159.0
9			0	0			24	100	159.0
10			0	0			24	100	159.0
11			0	0			24	100	159.0
12			0	0			24	100	159.0
13			0	0			24	100	159.0
14			0	0			24	100	159.0
15			0	0			24	100	159.0
16			0	0			24	100	159.0
17			0	0			24	100	159.0
18			0	0			24	100	159.0
19			0	0			24	100	159.0
20			0	0			24	100	159.0
21			0	0			24	100	159.0
22			0	0			24	100	159.0
23			0	0			24	100	159.0
24			0	0			24	100	159.0
25			0	0			24	100	159.0
26			0	0			24	100	159.0
27			0	0			24	100	159.0
28			0	0			24	100	159.0
29			0	0			24	100	159.0
30			0	0			24	100	159.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0		1735	1735	100	121.2
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0			0	0	19.0
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	18.1
18			0	0			0	0	17.5
19			0	0			0	0	17.5
20			0	0			0	0	17.5
21			0	0			0	0	18.9
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0
31			0	0			0	0	19.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0			0	0	19.0
6			0	0			0	0	19.0
7			0	0			0	0	19.0
8			0	0			0	0	19.0
9			0	0			0	0	19.0
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0

UNIT 1 RIVER WATER DISCHARGE

	CIRCULATOR 11				CIRCULATOR 12				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	19.0
2			0	0			0	0	19.0
3			0	0			0	0	19.0
4			0	0			0	0	19.0
5			0	0	0305		2055	100	140.8
6			0	0			24	100	159.0
7			0	0			24	100	159.0
8			0	0			24	100	159.0
9			0	0		0410	0410	100	42.8
10			0	0			0	0	19.0
11			0	0			0	0	19.0
12			0	0			0	0	19.0
13			0	0			0	0	19.0
14			0	0			0	0	19.0
15			0	0			0	0	19.0
16			0	0			0	0	19.0
17			0	0			0	0	19.0
18			0	0			0	0	19.0
19			0	0			0	0	19.0
20			0	0			0	0	19.0
21			0	0			0	0	19.0
22			0	0			0	0	19.0
23			0	0			0	0	19.0
24			0	0			0	0	19.0
25			0	0			0	0	19.0
26			0	0			0	0	19.0
27			0	0			0	0	19.0
28			0	0			0	0	19.0
29			0	0			0	0	19.0
30			0	0			0	0	19.0
31			0	0			0	0	19.0

Indian Point Station

January, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	519
2			24	60			24	60	519
3			24	60			24	60	519
4			24	60			24	60	519
5			24	60			24	60	505
6			24	60			24	60	519
7			24	60			24	60	519
8			24	60			24	60	519
9			24	60			24	60	519
10			24	60			24	60	519
11			24	60			24	60	519
12			24	60			24	60	524
13			24	60			24	60	524
14			24	60			24	60	524
15			24	60			24	60	524
16			24	60			24	60	525
17			24	60			24	60	529
18			24	60			24	60	529
19			24	60			24	60	524
20			24	60			24	60	524
21			24	60			24	60	524
22			24	60			24	60	524
23			24	60			24	60	524
24			24	60			24	60	524
25			24	60			24	60	524
26			24	60			24	60	523
27			24	60			24	60	524
28			24	60			24	60	524
29			24	60			24	60	522
30			24	60			24	60	521
31			24	60			24	60	519

Indian Point Station

January, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31			24	60			24	60

Indian Point Station

January, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5	1812	1400	1948	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31			24	60			24	60

Indian Point Station

February, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	500
2			24	60			24	60	452
3			24	60			24	60	519
4			24	60			24	60	519
5			24	60			24	60	519
6			24	60			24	60	519
7			24	60			24	60	519
8			24	60			24	60	520
9			24	60			24	60	521
10			24	60			24	60	522
11			24	60			24	60	524
12			24	60			24	60	524
13			24	60			24	60	524
14			24	60			24	60	524
15			24	60			24	60	524
16			24	60			24	60	524
17		1736	1736	60			24	60	501
18			0	0			24	60	440
19			0	0			24	60	414
20			0	0			24	60	337
21			0	0			24	60	274
22	1500		900	60			24	60	362
23			24	60			24	60	524
24			24	60			24	60	524
25			24	60			24	60	524
26			24	60			24	60	524
27			24	60			24	60	524
28			24	60			24	60	525

Indian Point Station

February, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20		1758	1758	60			24	60
21			0	0			24	60
22	1517		843	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60

Indian Point Station

February, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60		1827	1827	60
2			24	60	1915		445	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60		1632	1632	60
20		0741	741	60	0737		1623	60
21			0	0			24	60
22	1607		753	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60

Indian Point Station

March, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	519
2			24	60			24	60	519
3			24	60			24	60	519
4		1607	1607	60			24	60	491
5	1615		745	60			24	60	465
6			24	60			24	60	524
7			24	60			24	60	524
8			24	60			24	60	524
9			24	60			24	60	524
10			24	60			24	60	524
11			24	60			24	60	524
12			24	60			24	60	524
13			24	60			24	60	524
14			24	60			24	60	524
15			24	60			24	60	524
16			24	60			24	60	523
17			24	60			24	60	524
18			24	60			24	60	524
19			24	60			24	60	524
20			24	60			24	60	524
21			24	60			24	60	524
22			24	60			24	60	524
23			24	60			24	60	524
24			24	60			24	60	524
25			24	60			24	60	524
26			24	60			24	60	524
27			24	60			24	60	523
28			24	60			24	60	519
29			24	60			24	60	521
30			24	60			24	60	519
31			24	60			24	60	519

Indian Point Station

March, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31			24	60			24	60

Indian Point Station

March, 1979

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31			24	60			24	60

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	60			24	60	519.0
2			24	60			24	60	519.0
3			24	60			24	60	519.0
4			24	60			24	60	519.0
5			24	60			24	60	519.0
6			24	60			24	60	519.0
7			24	60			24	60	522.3
8			24	60			24	60	524.0
9			24	60			24	60	524.0
10			24	60			24	60	483.7
11			24	60			24	60	581.6
12			24	60			24	60	560.9
13			24	60	1540	745	1605	60/100	632.8
14			24	60			24	100	697.0
15			24	60			24	100	697.0
16	1435	832	5:57	60/100			24	100	697.8
17			24	100			24	100	743.4
18			24	100			24	100	796.4
19			24	100			24	100	855.9
20			24	100			24	100	861.3
21			24	100			24	100	855.0
22			24	100			24	100	858.3
23			24	100			24	100	860.0
24			24	100			24	100	865.0
25			24	100			24	100	865.0
26			24	100			24	100	863.5
27			24	100			24	100	860.0
28			24	100			24	100	855.2
29			23	100			23	100	855.0
30			24	100			24	100	855.0
31									

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60	1825	0800	1335	60/100
13			24	60			24	100
14			24	60			24	100
15			24	60			24	100
16			24	60			24	100
17	1640	0852	1612	60/100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			23	100			23	100
30			24	100			24	100
31								

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60	2018	0635	1017	60/100
11			24	60			24	100
12			24	60			24	100
13			24	60			24	100
14			24	60			24	100
15			24	60			24	100
16			24	60			24	100
17			24	60			24	100
18	1730	0930	16	60/100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			23	100			23	100
30			24	100			24	100
31								

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	%FLOW	ON	OFF	HRS.	%FLOW	GPM X 10^3
1			24	100			24	100	855.0
2			24	100			24	100	855.0
3			24	100			24	100	855.0
4			24	100			24	100	855.0
5			24	100			24	100	855.0
6			24	100			24	100	855.0
7			24	100			24	100	855.0
8			24	100			24	100	858.3
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			24	100			24	100	860.0
14			24	100			24	100	860.0
15			24	100			24	100	860.0
16			24	100			24	100	860.0
17			24	100			24	100	860.0
18			24	100			24	100	858.4
19			24	100			24	100	855.0
20			24	100			24	100	855.0
21			24	100			24	100	855.0
22			24	100			24	100	855.0
23			24	100			24	100	859.6
24			24	100			24	100	865.0
25			24	100			24	100	865.0
26			24	100			24	100	865.0
27			24	100			24	100	865.0
28			24	100			24	100	865.0
29			24	100			24	100	865.0
30			24	100			24	100	865.0
31			24	100			24	100	865.0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW	GPM X 10^3
1			24	100			24	100	865.0
2			24	100			24	100	865.0
3			24	100			24	100	865.0
4			24	100			24	100	865.0
5			24	100			24	100	865.0
6			24	100			24	100	870.0
7			24	100			24	100	870.0
8		1135	1135	100			24	100	797.2
9	0441		1919	100			24	100	835.0
10			24	100			24	100	870.0
11			24	100			24	100	870.0
12			24	100			24	100	870.0
13			24	100			24	100	870.0
14			24	100			24	100	870.0
15			24	100			24	100	870.0
16			24	100		0930	0930	100	648.4
17		0945	0945	100			0	0	195.2
18			0	0			0	0	30.0
19			0	0			0	0	30.0
20			0	0			0	0	30.0
21			0	0			0	0	30.0
22			0	0			0	0	30.0
23			0	0			0	0	30.0
24			0	0			0	0	30.0
25			0	0			0	0	30.0
26			0	0			0	0	30.0
27			0	0			0	0	30.0
28			0	0			0	0	30.0
29			0	0			0	0	30.0
30			0	0			0	0	30.0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9	1922	1757	2235	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16		0930	1430	100		0930	1430	100
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	24
15			24	100			24	24
16		0930	0930	100			24	24
17			0	0		0945	0945	100
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	29.5
2			0	0			0	0	26.8
3			0	0			0	0	22.1
4			0	0			0	0	20.2
5			0	0			0	0	26.3
6			0	0			0	0	24.7
7			0	0			0	0	25.0
8			0	0			0	0	22.1
9			0	0			0	0	25.0
10			0	0			0	0	25.0
11			0	0			0	0	25.0
12			0	0			0	0	25.0
13			0	0			0	0	25.0
14			0	0			0	0	25.0
15			0	0			0	0	25.0
16			0	0			0	0	25.0
17			0	0			0	0	21.7
18			0	0			0	0	20.0
19			0	0			0	0	20.0
20			0	0			0	0	20.0
21			0	0			0	0	20.0
22			0	0			0	0	20.0
23			0	0			0	0	20.0
24			0	0			0	0	20.0
25			0	0			0	0	20.0
26			0	0			0	0	20.0
27			0	0			0	0	20.0
28			0	0			0	0	20.0
29			0	0			0	0	20.0
30			0	0			0	0	20.0
31			0	0			0	0	20.0

Indian Point Station
July, 1979
Permit No. - NY0004472

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

Indian Point Station
July, 1979
Permit No. - NY0004472

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	20.0
2			0	0			0	0	19.8
3			0	0			0	0	20.0
4			0	0			0	0	20.0
5			0	0			0	0	20.0
6			0	0			0	0	20.0
7			0	0			0	0	19.0
8			0	0			0	0	20.0
9			0	0			0	0	23.6
10			0	0			0	0	24.4
11			0	0			0	0	25.0
12			0	0			0	0	25.0
13			0	0			0	0	25.0
14			0	0			0	0	25.0
15			0	0			0	0	25.0
16			0	0			0	0	25.0
17			0	0			0	0	24.9
18			0	0			0	0	23.8
19			0	0			0	0	25.0
20			0	0			0	0	25.0
21			0	0			0	0	23.1
22			0	0			0	0	23.4
23			0	0			0	0	25.0
24			0	0			0	0	25.0
25			0	0			0	0	25.0
26			0	0			0	0	25.0
27			0	0			0	0	25.0
28			0	0			0	0	25.0
29			0	0			0	0	25.0
30			0	0			0	0	25.0
31			0	0			0	0	24.5

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

Indian Point Station
August, 1979
Permit No. - NY0004472

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

Indian Point Station
September, 1979
Permit No. - NY0004472

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	25.0
2			0	0			0	0	25.0
3			0	0			0	0	27.9
4			0	0			0	0	20.0
5			0	0			0	0	20.0
6			0	0			0	0	20.0
7			0	0			0	0	20.0
8			0	0			0	0	23.8
9			0	0			0	0	30.0
10			0	0			0	0	29.6
11			0	0			0	0	30.0
12	0505		1655	100			0	0	150.4
13		2137	2137	100	2120		240	100	420.7
14			0	0	0221	0120	2259	100	392.6
15	1420		940	100			24	100	576.0
16			24	100			24	100	870.0
17			24	100			24	100	870.0
18			24	100			24	100	870.0
19			24	100			24	100	831.4
20			24	100			24	100	870.0
21			24	100			24	100	870.0
22			24	100			24	100	870.0
23			24	100			24	100	870.0
24			24	100			24	100	869.0
25		0833	833	100			24	100	777.1
26	1521		839	100			24	100	757.7
27			24	100			24	100	785.2
28			24	100			24	100	725.0
29			24	100			24	100	825.0
30			24	100			24	100	865.0

Indian Point Station
September, 1979
Permit No. - NY0004472

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	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	2022	2327	305	100
13	0433	2300	2007	100	2235		125	100
14		0100	0	0	0000	1715	100	100
15	1740		620	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	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	2337		0023	100			0	0
13	1835		0	0	0250		2110	100
14	0629	1715	1651	100		0500	500	100
15			24	100	1812		548	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100	2330	1750	1820	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100		1015	1015	100
28			24	100			0	0
29			24	100	0540		1720	100
30			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			24	100	837.0
2			24	100			24	100	725.0
3			24	100			24	100	725.0
4			24	100			24	100	725.0
5			24	100			24	100	825.8
6			24	100			24	100	789.4
7			24	100			24	100	725.0
8			24	100			24	100	725.0
9			24	100			24	100	811.8
10			24	100			24	100	865.0
11			24	100			24	100	865.0
12			24	100			24	100	861.6
13			24	100			24	100	860.0
14			24	100			24	100	860.0
15			24	100		0840	840	100	770.4
16			24	100			0	0	720.0
17			24	100			0	0	720.0
18			24	100			0	0	717.5
19			24	100			0	0	671.6
20			24	100			0	0	661.8
21			24	100			0	0	715.0
22			24	100			0	0	715.0
23			24	100			0	0	715.0
24			24	100			0	0	710.8
25			24	100			0	0	575.0
26			24	100			0	0	575.0
27			24	100			0	0	575.0
28			25	100			0	0	575.0
29			24	100			0	0	575.0
30			24	100			0	0	677.2
31			24	100			0	0	715.0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19	2313	1541	1628	100			24	100
20	0940	0025	1445	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100		0005	0005	100
26			24	100			0	0
27		1430	1430	100	1415		945	100
28			0	0			25	100
29			0	0			24	100
30	1730		630	100			24	100
31			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1		1908	1908	100			24	100
2			0	0			24	100
3			0	0			24	100
4			0	0			24	100
5	0650		1710	100			24	100
6			24	100		1055	1055	100
7			24	100			0	0
8			24	100			0	0
9			24	100	0908		1452	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24	0615	0525	2310	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			25	100			25	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			0	0	715.0
2			24	100			0	0	715.0
3			24	100			0	0	705.2
4			24	100			0	0	715.0
5			24	100			0	0	715.0
6			24	100			0	0	715.0
7			24	100			0	0	715.0
8			24	100			0	0	715.0
9			24	100			0	0	715.0
10			24	100			0	0	715.0
11			24	100			0	0	715.0
12			24	100			0	0	715.0
13			24	100			0	0	715.0
14			24	100			0	0	715.0
15			24	100			0	0	652.0
16			24	100			0	0	715.1
17			24	100			0	0	526.9
18			24	100			0	0	524.0
19			24	100			0	0	611.4
20			24	100			0	0	575.0
21			24	100			0	0	575.0
22			24	100			0	0	575.0
23			24	100			0	0	575.0
24			24	100			0	0	575.0
25			24	100			0	0	575.0
26			24	100			0	0	577.0
27			24	100			0	0	581.6
28			24	100			0	0	300.2
29			24	100			0	0	300.0
30			24	100			0	0	200.0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100		1340	1340	100
18			24	100	0313		2047	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28		0145	145	100		0145	145	100
29			0	0	1040		1320	100
30			0	0			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100	1105	0920	2215	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15		1312	1312	100			24	100
16			0	0			24	100
17	0612 1229	0638 1440	137	100			24	100
18			0	0			24	100
19	0807	1427	627	100			24	100
20			0	0			24	100
21			0	0			24	100
22			0	0			24	100
23			0	0			24	100
24			0	0			24	100
25			0	0			24	100
26			0	0			24	100
27			0	0			24	100
28			0	0			24	100
29			0	0		1040	1040	100
30			0	0			0	0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 21				CIRCULATOR 22				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			0	0	571.6
2			24	100			0	0	580.4
3		0137	0137	100			0	0	317.5
4			0	0			0	0	143.8
5			0	0			0	0	15.7
6	0334		2026	100			0	0	256.8
7			24	100			0	0	295.9
8			24	100			0	0	418.2
9			24	100			0	0	611.4
10			24	100			0	0	659.0
11			24	100			0	0	659.0
12			24	100			0	0	659.0
13			24	100	1230		1130	60	743.0
14			24	100			24	60	648.7
15			24	100			24	60	607.5
16			24	100			24	60	547.0
17			24	100			24	60	547.0
18		0505	0505	100			24	60	454.0
19			0	0			24	60	407.8
20			0	0			24	60	407.0
21			0	0			24	60	407.8
22	1416		0944	100			24	60	464.4
23			24	100			24	60	547.0
24			24	100			24	60	547.0
25			24	100			24	60	547.0
26		2055	2055	100			24	60	456.6
27	1400		1000	100			24	60	465.8
28			24	100			24	60	547.0
29			24	100			24	60	547.0
30			24	100			24	60	547.0
31			24	100			24	60	547.0

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 23				CIRCULATOR 24			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1	0034		2326	100			24	100
2			24	100			24	100
3			24	100		0137	0137	100
4		1105	1105	100			0	0
5			0	0			0	0
6	0335		2025	100			0	0
7			24	100			0	0
8			24	100	1325		1035	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14	1435	0928	1853	100/60			24	100
15			24	60			24	100
16			24	60			24	100
17			24	60			24	100
18			24	60			24	100
19			24	60			24	100
20			24	60			24	100
21			24	60			24	100
22			24	60			24	100
23			24	60			24	100
24			24	60			24	100
25			24	60			24	100
26			24	60			24	100
27			24	60			24	100
28			24	60			24	100
29			24	60			24	100
30			24	60			24	100
31			24	60			24	100

UNIT 2 RIVER WATER DISCHARGE

	CIRCULATOR 25				CIRCULATOR 26			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			0	0	0034		2326	100
2			0	0			24	100
3			0	0			24	100
4			0	0		1105	1105	100
5			0	0			0	0
6			0	0			0	0
7			0	0			0	0
8			0	0	1325		1035	100
9	1745		0615	60			24	100
10			24	60			24	100
11			24	60			24	100
12			24	60			24	100
13			24	60			24	100
14			24	60	2225	1530	1705	100/60
15			24	60			24	60
16			24	60	0850	0852	0002	60
17			24	60			0	0
18			24	60	0955	1500	0505	60
19		1705	1705	60	1650		0710	60
20	2302		0058	60		2302	2302	60
21			24	60	1415	1435	0020	60
22			24	60			0	0
23			24	60			0	0
24			24	60			0	0
25			24	60			0	0
26	2140	0100	0320	60			0	0
27			24	60			0	0
28			24	60			0	0
29			24	60			0	0
30			24	60			0	0
31			24	60			0	0

Indian Point Station

January, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	445
2			24	60			24	60	445
3			24	60			24	60	445
4			24	60			24	60	445
5			24	60			24	60	445
6			24	60			24	60	445
7			24	60			24	60	445
8			24	60			24	60	445
9			24	60			24	60	445
10			24	60			24	60	445
11			24	60			24	60	445
12			24	60			24	60	445
13			24	60			24	60	445
14			24	60			24	60	445
15			24	60			24	60	445
16			24	60			24	60	445
17			24	60			24	60	445
18			24	60			24	60	445
19			24	60			24	60	445
20			24	60	2043	1333	1650	60	420
21			24	60			24	60	445
22			24	60			24	60	445
23			24	60			24	60	445
24			24	60			24	60	445
25			24	60			24	60	445
26			24	60			24	60	445
27			24	60			24	60	445
28			24	60			24	60	445
29			24	60			24	60	445
30			24	60			24	60	445
31			24	60			24	60	445

Indian Point Station

January, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			0	0
2			24	60			0	0
3			24	60			0	0
4			24	60			0	0
5			24	60			0	0
6			24	60			0	0
7			24	60			0	0
8			24	60			0	0
9			24	60			0	0
10			24	60			0	0
11			24	60			0	0
12			24	60			0	0
13			24	60			0	0
14			24	60			0	0
15			24	60			0	0
16			24	60			0	0
17			24	60			0	0
18			24	60			0	0
19			24	60			0	0
20			24	60			0	0
21			24	60			0	0
22			24	60			0	0
23			24	60			0	0
24			24	60			0	0
25			24	60			0	0
26			24	60			0	0
27			24	60			0	0
28			24	60			0	0
29			24	60			0	0
30			24	60			0	0
31			24	60			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31			24	60			24	60

Indian Point Station

February, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	445
2			24	60			24	60	445
3			24	60			24	60	445
4			24	60			24	60	445
5			24	60			24	60	445
6			24	60			24	60	445
7			24	60			24	60	445
8			24	60			24	60	445
9			24	60			24	60	445
10			24	60			24	60	445
11			24	60			24	60	445
12			24	60			24	60	445
13			24	60			24	60	445
14			24	60			24	60	445
15			24	60			24	60	445
16			24	60			24	60	445
17			24	60			24	60	445
18			1750	60			24	60	423
19			0	60			24	60	361
20	1753		607	60			24	60	383
21		1706	1706	60			24	60	421
22	1438		922	60			24	60	394
23			24	60			24	60	445
24			24	60			24	60	445
25			24	60			24	60	445
26			24	60			24	60	445
27			24	60			24	60	445
28			24	60			24	60	445

Indian Point Station

February, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			0	0
2			24	60			0	0
3			24	60			0	0
4			24	60			0	0
5			24	60			0	0
6			24	60			0	0
7			24	60			0	0
8			24	60			0	0
9			24	60			0	0
10			24	60			0	0
11			24	60			0	0
12			24	60			0	0
13			24	60			0	0
14			24	60			0	0
15			24	60			0	0
16			24	60			0	0
17			24	60			0	0
18			24	60			0	0
19			24	60			0	0
20			24	60			0	0
21			24	60			0	0
22			24	60			0	0
23			24	60			0	0
24			24	60			0	0
25			24	60			0	0
26			24	60			0	0
27			24	60			0	0
28			24	60			0	0

Indian Point Station

February, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20			24	60			24	60
21			24	60			24	60
22			24	60			24	60
23			24	60			24	60
24			24	60			24	60
25			24	60			24	60
26			24	60			24	60
27			24	60			24	60
28			24	60			24	60

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW	GPM x 10^3
1			24	60			24	60	445
2			24	60			24	60	445
3			24	60			24	60	445
4			24	60			24	60	445
5			24	60			24	60	445
6			24	60			24	60	445
7			24	60			24	60	445
8			24	60			24	60	445
9			24	60			24	60	445
10			24	60			24	60	445
11			24	60			24	60	445
12			24	60			24	60	445
13			24	60			24	60	445
14			24	60			24	60	445
15			24	60			24	60	445
16			24	60			24	60	445
17			24	60			24	60	445
18			24	60			24	60	445
19			24	60			24	60	445
20		430	430	60		1712	1712	60	292
21	1545		815	60			0	0	171
22			24	60			0	0	203
23			24	60			0	0	203
24			24	60			0	0	203
25			24	60			0	0	203
26			24	60			0	0	199
27			24	60	0300		2100	60	432
28			24	60			24	60	450
29			24	60			24	60	450
30			24	60		1938	1938	60	435
31			24	60	0530		1830	60	404

Indian Point Station

March, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			0	0
2			24	60			0	0
3			24	60			0	0
4			24	60			0	0
5			24	60			0	0
6			24	60			0	0
7			24	60			0	0
8			24	60			0	0
9			24	60			0	0
10			24	60			0	0
11			24	60			0	0
12			24	60			0	0
13			24	60			0	0
14			24	60			0	0
15			24	60			0	0
16			24	60			0	0
17			24	60			0	0
18			24	60			0	0
19			24	60			0	0
20			24	60			0	0
21		645	645	60			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27	0040		2320	60			0	0
28			24	60			0	0
29			24	60			0	0
30			24	60			0	0
31			24	60			0	0

Indian Point Station

March, 1979

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS.	% FLOW	ON	OFF	HRS.	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4			24	60			24	60
5			24	60			24	60
6			24	60			24	60
7			24	60			24	60
8			24	60			24	60
9			24	60			24	60
10			24	60			24	60
11			24	60			24	60
12			24	60			24	60
13			24	60			24	60
14			24	60			24	60
15			24	60			24	60
16			24	60			24	60
17			24	60			24	60
18			24	60			24	60
19			24	60			24	60
20		430	430	60			24	60
21			0	0			24	60
22			0	0			24	60
23			0	0			24	60
24			0	0			24	60
25			0	0			24	60
26			0	0			24	60
27	0127		2233	60			24	60
28			24	60			24	60
29			24	60			24	60
30			24	60			24	60
31	1555	812	1617	60			24	60

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	60			24	60	454.7
2			24	60			24	60	455.0
3			24	60	2210	0731	921	100/60	408.2
4		2050	2050	60			24	100	528.1
5	0604		1756	100			24	100	658.5
6			24	100			24	100	844.8
7			24	100			24	100	870.0
8			24	100			24	100	870.0
9			24	100			24	100	870.0
10			24	100			24	100	870.0
11			24	100			24	100	870.0
12			24	100			24	100	870.0
13			24	100			24	100	870.0
14			24	100			24	100	870.0
15			24	100			24	100	870.0
16			24	100			24	100	870.0
17			24	100			24	100	870.0
18			24	100			24	100	870.0
19			24	100			24	100	867.7
20			24	100			24	100	865.0
21			24	100			24	100	865.0
22			24	100			24	100	865.0
23			24	100			24	100	865.0
24			24	100			24	100	865.0
25			24	100			24	100	865.0
26			24	100			24	100	865.0
27			24	100			24	100	865.0
28			24	100			24	100	865.0
29			23	100			23	100	865.0
30			24	100			24	100	865.0
31									

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	60			0	0
2			24	60			0	0
3			24	60			0	0
4			24	60	1228		1132	100
5	2010	1234	1624	60/100	1208	608	1800	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			23	100			23	100
30			24	100			24	100
31								

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	60			24	60
2			24	60			24	60
3			24	60			24	60
4	2045	0715	1030	60/100			24	60
5			24	100		2012	2012	60
6			24	100	418		1942	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			23	100			23	100
30			24	100			24	100
31								

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS.	%FLOW	ON	OFF	HRS.	%FLOW	GPM X 10^3
1			24	100			24	100	865.0
2			24	100			24	100	865.0
3			24	100			24	100	865.0
4			24	100			24	100	865.0
5			24	100			24	100	865.0
6			24	100			24	100	865.0
7			24	100			24	100	865.0
8			24	100			24	100	865.0
9			24	100			24	100	865.0
10			24	100			24	100	865.0
11			24	100			24	100	865.7
12			24	100			24	100	866.6
13			24	100			24	100	865.0
14			24	100			24	100	865.0
15			24	100			24	100	865.0
16			24	100			24	100	865.0
17			24	100			24	100	865.0
18			24	100			24	100	865.0
19			24	100			24	100	865.0
20			24	100			24	100	865.0
21			24	100			24	100	865.0
22			24	100			24	100	865.0
23			24	100			24	100	865.0
24			24	100			24	100	865.0
25			24	100			24	100	865.0
26			24	100			24	100	865.0
27			24	100			24	100	865.0
28			24	100			24	100	811.8
29			24	100			24	100	743.3
30			24	100			24	100	865.0
31			24	100			24	100	865.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100		1445	1445	100
29			24	100	2100		0300	100
30			24	100			24	100
31			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW	GPM X 10^3
1			24	100			24	100	832.8
2			24	100			24	100	725.0
3			24	100			24	100	725.0
4			24	100			24	100	725.0
5			24	100			24	100	725.0
6			24	100			24	100	726.8
7			24	100			24	100	725.0
8			24	100			24	100	804.8
9			24	100			24	100	865.0
10			24	100			24	100	865.0
11			24	100			24	100	865.0
12			24	100			24	100	865.0
13			24	100			24	100	865.0
14			24	100			24	100	865.0
15			24	100			24	100	865.0
16			24	100			24	100	865.0
17			24	100			24	100	868.6
18			24	100			24	100	870.0
19			24	100			24	100	870.0
20			24	100			24	100	870.0
21			24	100			24	100	870.0
22			24	100			24	100	870.0
23			24	100			24	100	870.0
24			24	100			24	100	870.0
25			24	100			24	100	870.0
26			24	100			24	100	870.0
27			24	100			24	100	870.0
28			24	100			24	100	870.0
29			24	100			24	100	870.0
30			24	100			24	100	870.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	%FLOW	ON	OFF	HRS	%FLOW
1			24	100		1830	1830	100
2			24	100			0	0
3			24	100			0	0
4			24	100			0	0
5			24	100			0	0
6		1742	1742	100	1724		636	100
7			0	0			24	100
8	1025		1335	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			24	100	870.0
2			24	100			24	100	870.0
3			24	100			24	100	870.0
4			24	100			24	100	870.0
5			24	100			24	100	870.0
6			24	100			24	100	870.0
7			24	100			24	100	870.0
8			24	100			24	100	870.0
9			24	100			24	100	870.0
10			24	100			24	100	870.0
11			24	100			24	100	870.0
12			24	100			24	100	870.0
13			24	100			24	100	870.0
14			24	100			24	100	870.0
15			24	100			24	100	870.0
16			24	100			24	100	870.0
17			24	100			24	100	870.0
18			24	100			24	100	870.0
19			24	100			24	100	870.0
20			24	100			24	100	870.0
21			24	100			24	100	870.0
22			24	100			24	100	780.4
23			24	100			24	100	749.6
24			24	100			24	100	811.2
25			24	100			24	100	739.8
26			24	100			24	100	870.0
27			24	100			24	100	870.0
28			24	100			24	100	870.0
29			24	100			24	100	870.0
30			24	100			24	100	870.0
31			24	100			24	100	870.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22	1307	1102	2155	100		1322	1322	100
23			24	100	2038		322	100
24			24	100		1357	1357	100
25			24	100	2215		145	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
1			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22	1047	0807	2120	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29			24	100			24	100
30			24	100			24	100
31			24	100			24	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			24	100			24	100	870.0
2			24	100			24	100	873.4
3			24	100			24	100	868.4
4			24	100			24	100	865.0
5			24	100			24	100	865.0
6			24	100			24	100	865.0
7			24	100			24	100	865.0
8			24	100			24	100	865.0
9	1832	1252	1820	100			24	100	784.7
10			24	100			24	100	860.0
11			24	100			24	100	860.0
12			24	100			24	100	860.0
13			24	100			24	100	860.0
14			24	100			24	100	860.0
15			24	100			24	100	860.0
16			24	100			24	100	860.0
17			24	100			24	100	860.0
18			24	100			24	100	860.0
19			24	100			24	100	860.0
20			24	100			24	100	785.8
21			24	100		1603	1603	100	689.2
22			24	100	0543		1817	100	686.4
23			24	100			24	100	720.0
24			24	100		1111	1111	100	731.7
25			24	100			0	0	585.0
26			24	100			0	0	585.8
27			24	100			0	0	584.7
28			24	100			0	0	585.0
29		1241	1241	100	1119		1241	100	597.6
30			0	0			24	100	529.0
31	0309		2051	100			24	100	613.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100		1118	1118	100
21			24	100	1755	2030	235	100
22			24	100			0	0
23			24	100	0020	0031	0011	100
24			24	100	0000	1425	1425	100
25			24	100		0	0	0
26			24	100		0	0	0
27			24	100		0	0	0
28			24	100		0	0	0
29			24	100	1940		420	100
30			24	100			24	100
31			24	100		1657	1657	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			24	100
2			24	100			24	100
3			24	100			24	100
4			24	100			24	100
5			24	100			24	100
6			24	100			24	100
7			24	100			24	100
8			24	100			24	100
9	0845	0123	1638	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15			24	100			24	100
16			24	100			24	100
17			24	100			24	100
18			24	100			24	100
19			24	100			24	100
20			24	100			24	100
21			24	100			24	100
22			24	100			24	100
23			24	100			24	100
24			24	100			24	100
25			24	100			24	100
26			24	100			24	100
27			24	100			24	100
28			24	100			24	100
29		2212	2212	100	2210	2035	2225	100
30	1610		750	100		1729	1729	100
31		1342	1342	100	0515	0630	115	100

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1		1407	1407	100		1341	1341	100	267.2
2			0	0			0	0	165.0
3			0	0	2127		233	100	197.2
4			0	0			24	100	484.2
5	1511		849	100			24	100	636.8
6			24	100	1545	1202	2017	100	739.6
7			24	100			24	100	725.0
8			24	100		2110	2110	100	717.2
9			24	100			0	0	585.0
10			24	100	1239	1345	106	100	629.3
11			24	100			0	0	725.0
12			24	100			0	0	725.0
13			24	100	0518		1824	100	835.6
14		0945	0945	100			24	100	782.4
15			0	0			24	100	456.0
16			0	0			24	100	445.0
17			0	0		0934	934	100	282.0
18			0	0			0	0	170.0
19			0	0			0	0	101.4
20			0	0			0	0	30.0
21			0	0			0	0	25.0
22			0	0			0	0	24.3
23			0	0			0	0	15.0
24			0	0			0	0	10.0
25			0	0			0	0	10.6
26			0	0			0	0	10.0
27			0	0			0	0	10.0
28			0	0			0	0	10.0
29			0	0			0	0	10.0
30			0	0			0	0	10.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			24	100			0	0
2			24	100			0	0
3		1733	1733	100	2129		231	100
4			0	0			24	100
5	0124		0	0			24	100
6	1934	1223	1605	100		2040	2040	100
7			24	100			0	0
8			24	100			0	0
9			24	100			0	0
10			24	100	1730		630	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14		0051	0051	100			24	100
15			0	0			24	100
16			0	0			24	100
17			0	0			24	100
18			0	0			24	100
19			0	0		1212	1212	100
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

Indian Point Station
September, 1979
Permit No. - NY0027065

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW
1			0	0		1407	1407	100
2			0	0			0	0
3	1718		642	100			0	0
4			24	100	1712		648	100
5			24	100			24	100
6			24	100	1805	1223	1818	100
7			24	100			24	100
8			24	100			24	100
9			24	100			24	100
10			24	100			24	100
11			24	100			24	100
12			24	100			24	100
13			24	100			24	100
14			24	100			24	100
15		0051	0051	100			24	100
16			0	0			24	100
17			0	0		0934	934	100
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	10.0
2			0	0			0	0	10.0
3			0	0			0	0	10.0
4			0	0			0	0	10.0
5			0	0			0	0	10.0
6			0	0			0	0	10.0
7			0	0			0	0	10.0
8			0	0			0	0	10.0
9			0	0			0	0	10.0
10			0	0			0	0	10.0
11			0	0			0	0	10.0
12			0	0			0	0	10.0
13			0	0			0	0	10.0
14			0	0			0	0	10.0
15			0	0			0	0	10.0
16			0	0			0	0	10.0
17			0	0			0	0	10.0
18			0	0			0	0	10.0
19			0	0			0	0	10.0
20			0	0			0	0	10.0
21			0	0			0	0	10.0
22			0	0			0	0	10.0
23			0	0			0	0	10.0
24			0	0			0	0	10.0
25			0	0			0	0	10.0
26			0	0			0	0	10.0
27			0	0			0	0	10.0
28			0	0			0	0	10.0
29			0	0			0	0	10.0
30			0	0			0	0	10.0
31			0	0			0	0	10.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 103
1			0	0			0	0	8.4
2			0	0			0	0	5.0
3			0	0			0	0	5.0
4			0	0			0	0	5.0
5			0	0			0	0	5.0
6			0	0			0	0	5.0
7			0	0			0	0	5.0
8			0	0			0	0	9.6
9			0	0			0	0	7.2
10			0	0			0	0	5.0
11			0	0			0	0	5.5
12			0	0			0	0	5.2
13			0	0			0	0	5.0
14			0	0			0	0	5.0
15			0	0			0	0	5.6
16			0	0			0	0	5.0
17			0	0			0	0	5.0
18			0	0			0	0	5.0
19			0	0			0	0	5.0
20			0	0			0	0	5.0
21			0	0			0	0	5.0
22			0	0			0	0	5.0
23			0	0			0	0	5.0
24			0	0			0	0	5.0
25			0	0			0	0	5.0
26			0	0			0	0	5.0
27			0	0			0	0	5.0
28			0	0			0	0	5.0
29			0	0			0	0	5.0
30			0	0			0	0	5.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 31				CIRCULATOR 32				AVERAGE UNIT DISCH.
DATE	ON	OFF	HRS	% FLOW	ON	OFF	HRS	% FLOW	GPM x 10^3
1			0	0			0	0	5.0
2			0	0			0	0	5.0
3			0	0			0	0	5.0
4			0	0			0	0	5.0
5			0	0			0	0	5.0
6			0	0			0	0	5.0
7			0	0			0	0	5.0
8			0	0			0	0	5.0
9			0	0			0	0	5.0
10			0	0			0	0	5.0
11			0	0			0	0	5.0
12			0	0			0	0	5.0
13			0	0			0	0	5.0
14			0	0			0	0	5.0
15			0	0			0	0	5.0
16			0	0			0	0	5.0
17			0	0			0	0	5.0
18			0	0			0	0	5.0
19			0	0			0	0	5.0
20			0	0			0	0	5.0
21			0	0			0	0	5.0
22			0	0			0	0	5.0
23			0	0			0	0	5.0
24			0	0			0	0	5.0
25			0	0			0	0	5.0
26			0	0			0	0	5.0
27			0	0			0	0	5.0
28			0	0			0	0	7.0
29			0	0			0	0	10.0
30			0	0			0	0	10.0
31			0	0			0	0	10.0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 33				CIRCULATOR 34			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

UNIT 3 RIVER WATER DISCHARGE

	CIRCULATOR 35				CIRCULATOR 36			
DATE	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	0
14			0	0			0	0
15			0	0			0	0
16			0	0			0	0
17			0	0			0	0
18			0	0			0	0
19			0	0			0	0
20			0	0			0	0
21			0	0			0	0
22			0	0			0	0
23			0	0			0	0
24			0	0			0	0
25			0	0			0	0
26			0	0			0	0
27			0	0			0	0
28			0	0			0	0
29			0	0			0	0
30			0	0			0	0
31			0	0			0	0

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

NO.

DATA SHEET

DATE 1979

LOCATION

PREPARED BY

SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Jan.											
1		F	1/3	3/4	1/2	F	F	F	F	F	S
2		F	1/3	3/4	1/2	F	F	F	F	F	F
3		F	1/3	3/4	1/2	F	F	F	F	F	F
4		F	1/3	3/4	1/2	F	F	F	F	F	F
5		F	1/3	3/4	1/2	F	F	F	F	F	F
6		F	1/3	3/4	1/2	F	F	F	F	F	F
7		F	1/3	3/4	1/2	F	F	F	F	F	F
8		F	1/3	3/4	1/2	F	F	F	F	F	F
9		F	1/3	3/4	1/2	F	F	F	F	F	F
10		F	1/3	3/4	1/2	F	F	F	F	F	F
11		F	1/3	3/4	1/2	F	F	F	F	F	F
12		F	1/3	3/4	1/2	F	F	F	F	F	F
13		F	1/3	3/4	1/2	F	F	F	F	F	F
14		F	1/3	3/4	1/2	F	F	F	F	F	F
15		F	1/3	3/4	1/2	F	F	F	F	F	F
16		F	1/3	3/4	1/2	F	F	F	F	F	F
17		F	1/3	3/4	1/2	F	F	F	F	F	F
18		F	1/3	3/4	1/2	F	F	F	F	F	F
19		F	1/3	3/4	1/2	F	F	F	F	F	F
20		F	1/3	3/4	1/2	F	F	F	F	F	F
21		F	1/3	3/4	1/2	F	F	F	F	F	F
22		F	1/3	3/4	1/2	F	F	F	F	F	F
23		F	1/3	3/4	1/2	F	F	F	F	F	F
24		F	1/3	3/4	1/2	F	F	F	F	F	F
25		F	1/3	3/4	1/2	F	F	F	F	F	F
26		F	1/3	3/4	1/2	F	F	F	F	F	F
27		F	1/3	3/4	1/2	F	F	F	F	F	F
28		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
29		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
30		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
31		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
Feb.											
1		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
2		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
3		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
4		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
5		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
6		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

NO.

DATA SHEET

DATE 1979

LOCATION

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SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Feb.											
7		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
8		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
9		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
10		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
11		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
12		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
13		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
14		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
15		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
16		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
17		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
18		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
19		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
20		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
21		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
22		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
23		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
24		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
25		1/2	1/4	1/2	1/2	F	S	1/2	S	S	S
26		1/4	1/4	1/2	1/2	1/2	S	1/4	S	S	S
27		1/2	1/2	1/2	3/4	1/2	1/2	1/4	S	F	S
28		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
March											
1		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
2		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
3		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
4		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
5		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
6		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
7		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
8		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
9		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
10		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
11		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
12		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
13		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
14		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
15		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

NO.

DATA SHEET

DATE 1979

LOCATION

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DISCHARGE GATE ADJUSTMENTS

S = Closed

F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
March											
16		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
17		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
18		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
19		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
20		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
21		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
22		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
23		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
24		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
25		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
26		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
27		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
28		1/2	S	1/2	3/4	1/2	1/2	1/4	S	F	S
29		1/2	1/4	1/2	1/2	1/3	1/3	1/3	S	1/4	S
30		1/2	1/4	1/2	1/2	1/3	1/3	1/3	S	1/4	S
31		1/2	1/4	1/2	1/2	1/3	1/3	1/3	S	1/4	S
April											
1		F	1/3	F	F	F	F	F	F	1/3	1/10
2		F	1/3	F	F	F	F	F	F	1/3	1/10
3		F	1/3	F	F	F	F	F	F	1/3	1/10
4		F	1/3	F	F	F	F	F	F	1/3	1/10
5		F	S	F	F	F	F	F	F	F	F
6		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
7		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
8		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
9		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
10		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
11		S	S	1/2	1/2	1/2	1/2	1/2	S	F	F
12		S	S	3/4	3/4	1/2	1/2	1/2	S	F	F
13		S	S	3/4	3/4	1/2	1/2	1/2	S	F	F
14		S	S	3/4	3/4	1/2	1/2	1/2	S	F	F
15		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
16		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
17		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
18		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
19		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
20		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
21		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

NO.

DATA SHEET

DATE 1979

LOCATION

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SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
April											
22		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
23		S	1/2	3/4	3/4	1/2	1/2	F	S	F	F
24		S	F	1/2	1/2	1/2	1/2	F	S	F	F
25		F	S	1/2	1/2	1/2	1/2	F	S	F	F
26		F	S	1/2	1/2	1/2	1/2	F	S	F	F
27		F	S	1/2	1/2	1/2	1/2	F	S	F	F
28		F	S	1/2	1/2	1/2	1/2	F	S	F	F
29		F	S	1/2	1/2	1/2	1/2	F	S	F	F
30		F	S	1/2	1/2	1/2	1/2	F	S	F	F
May											
1		F	S	1/2	1/2	1/2	1/2	F	S	F	F
2		F	S	1/2	1/2	1/2	1/2	F	S	F	F
3		F	S	1/2	1/2	1/2	1/2	F	S	F	F
4		F	S	3/4	3/4	F	F	F	S	F	F
5		F	S	3/4	3/4	F	F	F	S	F	F
6		F	S	3/4	3/4	F	F	F	S	F	F
7		F	S	3/4	3/4	F	F	F	S	F	F
8		F	S	3/4	3/4	F	F	F	S	F	F
9		F	S	3/4	3/4	F	F	F	S	F	F
10		F	S	3/4	3/4	F	F	F	S	F	F
11		F	S	3/4	3/4	F	F	F	S	F	F
12		F	S	3/4	3/4	F	F	F	S	F	F
13		F	S	3/4	3/4	F	F	F	S	F	F
14		F	2/3	S	F	F	F	F	S	F	F
15		F	F	S	3/4	F	F	F	S	F	F
16		F	F	S	3/4	F	F	F	S	F	F
17		F	F	S	3/4	F	F	F	S	F	F
18		F	F	F	3/4	F	S	F	F	1/2	S
19		F	F	F	3/4	F	S	F	F	1/2	S
20		F	F	F	3/4	F	S	F	F	1/2	S
21		F	F	F	3/4	F	S	F	F	3/4	S
22		F	F	F	F	F	S	S	S	S	S
23		F	F	F	F	F	S	S	S	S	S
24		F	F	F	F	F	S	S	S	S	S
25		F	S	F	1/2	1/4	S	F	F	F	F
26		F	S	F	1/2	1/4	S	F	F	F	F
27		F	S	F	1/2	1/4	S	F	F	F	F
28		F	S	F	1/2	1/4	S	F	F	F	F

2-2 (PAD) 6/78 CONST.

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NO.

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LOCATION

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SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
May											
29		F	S	F	1/2	1/4	S	F	F	F	F
30		F	S	F	1/2	1/4	S	F	F	F	F
31		F	S	F	1/2	1/4	S	F	F	F	F
June											
1		F	S	F	1/2	1/4	S	F	F	F	F
2		F	S	F	1/2	1/4	S	F	F	F	F
3		F	S	F	1/2	1/4	S	F	F	F	F
4		F	S	F	3/4	1/2	S	F	F	F	F
5		F	S	F	3/4	1/2	S	F	F	F	F
6		F	S	F	3/4	1/2	S	F	F	F	F
7		F	S	F	3/4	1/2	S	F	F	F	F
8		F	S	F	3/4	1/2	S	F	F	F	F
9		F	S	F	3/4	1/2	S	F	F	F	F
10		F	S	F	3/4	1/2	S	F	F	F	F
11		F	S	F	1/4	S	F	F	F	F	F
12		F	S	F	F	1/4	S	F	F	F	F
13		F	S	F	F	1/4	S	F	F	F	F
14		F	S	F	F	1/4	S	F	F	F	F
15		F	S	F	F	1/4	S	F	F	F	F
16		F	S	F	F	1/4	S	F	F	F	F
17		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
18		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
19		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
20		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
21		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
22		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
23		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
24		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
25		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
26		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
27		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
28		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
29		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
30		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
July											
1		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4
2		1/4	S	F	3/4	S	S	1/2	1/2	1/2	3/4

2-2 (PAD) 6/78 CONST.

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DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
July											
3		1/2	S	F	3/4	1/2	S	S	S	S	S
4		F	S	F	F	1/4	S	S	S	S	S
5		F	S	F	F	1/4	S	S	S	S	S
6		F	S	F	F	1/4	S	S	S	S	S
7		F	S	F	F	1/4	S	S	S	S	S
8		F	S	F	F	1/4	S	S	S	S	S
9		F	S	F	F	1/4	S	S	S	S	S
10		F	S	F	F	1/4	S	S	S	S	S
11		1/4	S	1/4	1/2	1/4	S	S	1/4	S	S
12		1/4	S	1/4	1/2	1/4	S	S	1/4	S	S
13		1/4	S	1/4	1/6	1/4	S	S	1/4	S	S
14		1/4	S	1/4	1/2	1/4	S	S	1/4	S	S
15		1/4	S	1/4	1/2	1/4	S	S	1/4	S	S
16		1/4	S	1/4	1/2	3/8	S	S	1/4	S	S
17		1/4	S	1/4	1/2	3/8	S	S	1/4	S	S
18		1/4	S	1/4	1/2	3/8	S	S	1/4	S	S
19		1/4	S	1/4	1/2	3/8	S	S	1/4	S	S
20		1/2	S	1/2	1/2	1/4	S	S	S	S	S
21		1/2	S	1/2	3/4	1/2	S	S	S	S	S
22		1/2	S	1/2	3/4	1/2	S	S	S	S	S
23		1/2	S	1/2	3/4	1/2	S	S	S	S	S
24		1/3	S	1/4	1/2	1/3	S	S	1/8	1/8	1/8
25		1/3	S	1/4	1/2	1/3	S	S	1/8	1/8	1/8
26		1/3	S	1/2	1/2	1/3	S	1/4	1/4	S	1/4
27		1/3	S	1/2	1/2	1/3	S	1/4	1/4	S	1/4
28		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
29		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
30		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
31		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
Aug.											
1		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
2		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
3		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
4		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
5		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
6		1/2	1/4	3/4	3/4	1/2	S	1/2	1/2	S	S
7		1/2	S	2/3	3/4	1/3	S	1/2	1/2	1/3	1/3
8		2/3	S	2/3	3/4	1/3	S	1/2	1/2	1/2	1/2

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DATA SHEET

NO.

DATE 1979

LOCATION

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SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Aug.											
9		2/3	S	2/3	3/4	1/3	S	1/2	1/2	1/2	1/2
10		2/3	S	2/3	3/4	1/3	S	1/2	1/2	1/2	1/2
11		1/2	S	3/4	3/4	1/2	S	1/2	1/2	S	S
12		1/2	S	3/4	3/4	1/2	S	1/2	1/2	1/8	1/8
13		1/2	S	3/4	1/2	1/2	S	1/2	1/2	1/2	1/4
14		1/8	S	3/4	1/2	1/2	S	1/2	1/2	1/4	1/8
15		1/4	S	1/2	1/4	1/4	S	1/3	1/3	1/8	1/2
16		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	1/4
17		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	1/4
18		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	1/4
19		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	1/4
20		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	S
21		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	S
22		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	S
23		1/3	S	1/2	2/3	1/4	S	1/3	1/3	1/4	S
24		1/2	S	S	3/4	S	S	3/4	S	S	S
25		1/2	S	S	3/4	S	S	3/4	S	S	S
26		1/2	S	S	3/4	S	S	3/4	S	S	S
27		2/3	S	S	3/4	S	S	3/4	S	S	S
28		1/2	S	S	3/4	1/2	1/2	F	S	S	S
29		1/2	S	S	2/3	S	S	3/4	S	S	S
30		1/2	S	S	2/3	S	S	3/4	S	S	S
31		1/2	S	S	2/3	S	S	3/4	S	S	S
Sept.											
1		S	S	S	2/3	S	S	S	S	F	1/2
2		S	S	S	2/3	S	S	S	S	F	1/2
3		S	S	S	2/3	S	S	S	S	F	1/2
4		S	S	S	2/3	S	S	S	S	F	1/2
5		S	S	1/4	2/3	S	S	1/4	S	S	S
6		S	S	1/4	2/3	S	S	1/4	S	S	S
7		S	S	1/4	2/3	S	S	1/4	S	S	S
8		S	S	1/4	2/3	S	S	1/4	S	S	S
9		S	S	1/4	2/3	S	S	1/4	S	S	S
10		S	S	1/4	2/3	S	S	1/4	S	S	S
11		F	S	1/4	3/4	1/4	S	1/4	1/4	S	S
12		F	S	1/4	3/4	1/4	S	1/4	1/4	S	S
13		F	S	1/4	3/4	1/6	S	1/4	1/6	S	S
14		F	S	S	3/4	1/2	S	1/2	S	S	S

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

NO.

DATA SHEET

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LOCATION

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SUBJECT

DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Sept.											
15		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
16		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
17		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
18		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
19		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
20		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
21		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
22		F	S	1/3	3/4	1/3	S	1/3	S	1/3	S
23		F	F	F	3/4	S	S	1/4	S	S	S
24		F	F	F	3/4	S	S	1/4	S	S	S
25		F	F	F	3/4	S	S	1/4	S	S	S
26		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
27		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
28		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
29		F	S	1/2	2/3	1/2	S	1/2	S	1/2	S
30		3/4	S	1/2	3/4	1/2	S	1/2	S	1/2	S
Oct.											
1		F	S	1/2	3/4	1/2	S	1/2	S	1/2	S
2		F	S	1/2	3/4	1/2	S	1/2	S	1/2	S
3		3/4	S	S	3/4	S	S	F	S	S	S
4		3/4	S	S	3/4	S	S	F	S	S	S
5		3/4	S	S	3/4	S	S	F	S	S	S
6		3/4	S	S	3/4	S	S	F	S	S	S
7		3/4	S	S	3/4	S	S	F	S	S	S
8		3/4	S	S	3/4	S	S	F	S	S	S
9		3/4	S	S	3/4	S	S	F	S	S	S
10		3/4	S	S	3/4	S	S	F	S	S	S
11		3/4	S	S	3/4	S	S	F	S	S	S
12		3/4	S	S	3/4	S	S	F	S	S	S
13		3/4	S	S	3/4	S	S	F	S	S	S
14		3/4	S	S	3/4	S	S	F	S	S	S
15		3/4	S	S	3/4	S	S	F	S	S	S
16		3/4	S	S	3/4	S	S	F	S	S	S
17		3/4	S	S	3/4	S	S	F	S	S	S
18		3/4	S	S	3/4	S	S	F	S	S	S
19		3/4	S	S	3/4	S	S	F	S	S	S
20		3/4	S	S	3/4	S	S	F	S	S	S
21		3/4	S	S	3/4	S	S	F	S	S	S

2-2 (PAD) 6/78 CONST.

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S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Oct.											
22		3/4	S	S	3/4	S	S	F	S	S	S
23		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
24		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
25		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
26		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
27		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
28		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
29		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
30		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
31		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
Nov.											
1		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
2		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
3		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
4		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
5		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
6		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
7		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
8		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
9		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
10		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
11		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
12		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
13		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
14		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
15		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
16		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
17		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
18		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
19		1/2	S	S	1/2	S	S	1/2	S	1/4	S
20		1/2	S	S	1/2	S	S	1/2	S	1/4	S
21		1/2	S	S	1/2	S	S	1/2	S	1/4	S
22		1/2	S	S	1/2	S	S	1/2	S	1/4	S
23		1/2	S	S	1/2	S	S	1/2	S	1/4	S
24		1/2	S	S	1/2	S	S	1/2	S	1/4	S
25		1/2	S	S	1/2	S	S	1/2	S	1/4	S
26		1/2	S	S	1/2	S	S	1/2	S	1/4	S
27		1/2	S	S	1/2	S	S	1/2	S	1/4	S

2-2 (PAD) 6/78 CONST.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DATA SHEET

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DISCHARGE GATE ADJUSTMENTS

S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Nov.											
28		1/2	S	S	1/2	S	S	1/2	S	1/4	S
29		1/2	S	S	1/2	S	S	1/2	S	1/4	S
30		1/2	S	S	1/2	S	S	1/2	S	1/4	S

2-2 (PAD) 6/78 CONST.

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S = Closed
F = Open Fully

Date		1	2	3	4	5	6	7	8	9	10
Dec.											
1		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
2		F	S	1/2	2/3	1/2	1/2	1/2	S	1/2	S
3		3/4	S	1/2	3/4	1/2	S	1/2	S	1/2	S
4		F	S	1/2	3/4	1/2	S	1/2	S	1/2	S
5		3/4	S	S	3/4	S	S	F	S	S	S
6		3/4	S	S	3/4	S	S	F	S	S	S
7		3/4	S	S	3/4	S	S	F	S	S	S
8		3/4	S	S	3/4	S	S	F	S	S	S
9		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
10		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
11		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
12		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
13		3/4	S	S	3/4	S	S	F	S	S	S
14		3/4	S	S	3/4	S	S	F	S	S	S
15		3/4	S	S	3/4	S	S	F	S	S	S
16		3/4	S	S	3/4	S	S	F	S	S	S
17		F	S	1/2	3/4	1/2	S	1/2	S	1/2	S
18		3/4	S	1/2	3/4	1/2	S	1/2	S	1/2	S
19		F	S	1/2	2/3	1/2	S	1/2	S	1/2	S
20		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
21		F	S	2/3	3/4	2/3	S	2/3	S	2/3	S
22		F	S	1/2	2/3	1/2	S	1/2	S	1/2	S
23		3/4	S	1/2	3/4	1/2	S	1/2	S	1/2	S
24		F	S	1/2	3/4	1/2	S	1/2	S	1/2	S
25		3/4	S	S	3/4	S	S	F	S	S	S
26		3/4	S	S	3/4	S	S	F	S	S	S
27		3/4	S	S	3/4	S	S	F	S	S	S
28		3/4	S	S	3/4	S	S	F	S	S	S
29		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
30		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S
31		3/4	S	S	3/4	1/4	1/4	1/2	S	1/2	S

2-2 (PAD) 6/78 CONST.