



Ralph E. Beedle
Executive Vice President
Nuclear Generation

April 10, 1992
IPN-92-019

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
Application for Renewal of the State Pollutant
Discharge Elimination System (SPDES) Permit

Dear Sir:

Attachment I provides a copy of the application for renewal of the SPDES permit for the Indian Point Generating Station (Units 1 & 2 owned and operated by Consolidated Edison, and Unit 3 owned and operated by the Power Authority). This submittal satisfies the requirements of Section 3.2 of the Indian Point 3 Non-Radiological Environmental Protection Plan (Part I of Appendix B to the Facility Operating License) to provide the NRC with a copy of the renewal application at the time it is submitted to the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions, please contact Mr. P. Kokolakis.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'R. E. Beedle', written over a horizontal line.

Ralph E. Beedle
Executive Vice President
Nuclear Generation

cc: next page

9204160204 920410
PDR ADDCK 05000286
P PDR

ADD: NRR/DEEP/PRPB11

COO1
Ltr - Encl.

cc: U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Resident Inspector's Office
Indian Point 3
U.S. Nuclear Regulatory Commission
P.O. Box 337
Buchanan, New York 10511

Mr. Nicola F. Conicella, Project Manager
Project Directorate I-1
Division of Reactor Projects I/II
U.S. Nuclear Regulatory Commission
Mail Stop 14B2
Washington, D.C. 20555

50-286

PASNY

INDIAN POINT 3

APPLICATION FOR RENEWAL OF STATE POLLUTANT
DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT

REC'D W/LTR DTD 04/10/92....9204160204

-NOTICE-

THE ATTACHED FILES ARE OFFICIAL
RECORDS OF THE INFORMATION &
REPORTS MANAGEMENT BRANCH.
THEY HAVE BEEN CHARGED TO YOU
FOR A LIMITED TIME PERIOD AND
MUST BE RETURNED TO THE RE-
CORDS & ARCHIVES SERVICES SEC-
TION P1-22 WHITE FLINT. PLEASE DO
NOT SEND DOCUMENTS CHARGED
OUT THROUGH THE MAIL. REMOVAL
OF ANY PAGE(S) FROM DOCUMENT
FOR REPRODUCTION MUST BE RE-
FERRED TO FILE PERSONNEL.

-NOTICE-

ATTACHMENT I TO IPN-92-019

APPLICATION FOR RENEWAL OF THE STATE POLLUTANT DISCHARGE
ELIMINATION SYSTEM (SPDES) PERMIT



Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N.Y. 10003

April 3, 1992

HAND DELIVERED

Ms. Margaret Duke
Regional Permit Administrator
New York State Department of
Environmental Conservation
Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: **SPDES Permit Renewal Application**
Indian Point Generating Station
SPDES Permit No. NY 0004472

Dear Ms. Duke:

Enclosed are five copies of a SPDES permit renewal application for the Indian Point Generating Station. This application is submitted jointly by Consolidated Edison Company of New York, Inc. (Con Edison), the owner and operator of Units 1 and 2, and the New York Power Authority (Power Authority), the owner and operator of Unit 3.

The application consists of:

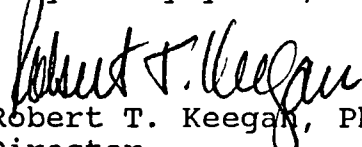
- an Application Form 1 for Con Edison and an Application Form 1 for the Power Authority;
- a combined Application Form 2C for Con Edison and the Power Authority;
- a combined DEC Supplement to Application Form 2C for Con Edison and the Power Authority;
- separate Industrial Chemical Survey Forms for Con Edison and the Power Authority; and
- a combined Form 2F for Con Edison and the Power Authority for stormwater discharges.

Also enclosed is a check in the amount of \$300.00 to cover the permit application fee.

Con Edison has for several years challenged the scope of the Department's permitting authority over intake screens within the SPDES permit process. The Department's lack of authority stems from the absence of the EPA "standards" specified in Section 316(b) of the federal Clean Water Act, 33 U.S.C. § 1326(b). In the current Indian Point permit renewal process, Con Edison and the Power Authority view the information requested in Question 10 of the Department's Supplement to EPA Form 2C of the Indian Point SPDES renewal application, pertaining to cooling water intake screens, as beyond the Department's SPDES permitting authority in light of 6 NYCRR § 704.5 ("in connection with point source thermal discharges..."). Nevertheless, in the interest of allowing the regulatory process for this permit renewal to move forward, responses to the Department's Question 10 have been provided. The responses to Question 10 do not waive either Con Edison's or the Power Authority's right to object to the Department's authority to impose cooling water intake structure conditions in the context of a SPDES permit. We therefore expressly reserve our right to contest intake structure regulatory authority in any proceedings relating to this application which are subsequently conducted.

If you have any questions, please contact me (212-460-4833) or Mr. John Kahabka of the Power Authority (914-681-6308).

Very truly yours,


Robert T. Keegan, Ph.D.
Director

Water and Waste Management
Environmental Affairs

cc: John Kahabka, NYPA
Supervisor
Environmental Program
Nuclear Generation

cc: Document Control Desk (Docket Nos. 50-03, 50-247)
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Stephen A. Varga
Director
Division of Reactor Projects
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

FORM <div style="font-size: 2em; font-weight: bold;">1</div>	 EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px;"> NY0004472 </div>																																																						
II. POLLUTANT CHARACTERISTICS <div style="border: 1px solid black; padding: 5px;"> <p>INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">MARK "X"</th> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">MARK "X"</th> </tr> <tr> <th>YES</th> <th>NO</th> <th>FORM ATTACHED</th> <th>YES</th> <th>NO</th> <th>FORM ATTACHED</th> </tr> </thead> <tbody> <tr> <td>A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)</td> <td></td> <td>X</td> <td></td> <td>B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)</td> <td>X</td> <td></td> <td>X</td> <td>D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)</td> <td>X</td> <td></td> <td></td> <td>F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)</td> <td></td> <td>X</td> <td></td> <td>H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)</td> <td></td> <td>X</td> <td></td> <td>J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table> </div>		SPECIFIC QUESTIONS	MARK "X"			SPECIFIC QUESTIONS	MARK "X"			YES	NO	FORM ATTACHED	YES	NO	FORM ATTACHED	A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X		C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X		E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X		G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X		I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		GENERAL INSTRUCTIONS <p>If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.</p>	
SPECIFIC QUESTIONS	MARK "X"			SPECIFIC QUESTIONS	MARK "X"																																																				
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED																																																		
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X																																																			
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X																																																			
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X																																																			
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X																																																			
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X																																																			
<div style="border: 1px solid black; padding: 10px; width: 100%;"> PLEASE PLACE LABEL IN THIS SPACE </div>																																																									
III. NAME OF FACILITY <div style="border: 1px solid black; padding: 2px;"> 1 SKIP Indian Point Unit Nos. 1 and 2 </div>																																																									
IV. FACILITY CONTACT <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">A. NAME & TITLE (last, first, & title)</th> <th style="width: 40%;">B. PHONE (area code & no.)</th> </tr> <tr> <td>2 Keegan, Robert, Ph.D., Director</td> <td>212 460 4833</td> </tr> </table>				A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)	2 Keegan, Robert, Ph.D., Director	212 460 4833																																																		
A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)																																																								
2 Keegan, Robert, Ph.D., Director	212 460 4833																																																								
V. FACILITY MAILING ADDRESS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">A. STREET OR P.O. BOX</th> <th style="width: 40%;">B. CITY OR TOWN</th> <th style="width: 10%;">C. STATE</th> <th style="width: 10%;">D. ZIP CODE</th> </tr> <tr> <td>3 Con Edison, 4 Irving Place, Room 300</td> <td>New York</td> <td>NY</td> <td>10003</td> </tr> </table>				A. STREET OR P.O. BOX	B. CITY OR TOWN	C. STATE	D. ZIP CODE	3 Con Edison, 4 Irving Place, Room 300	New York	NY	10003																																														
A. STREET OR P.O. BOX	B. CITY OR TOWN	C. STATE	D. ZIP CODE																																																						
3 Con Edison, 4 Irving Place, Room 300	New York	NY	10003																																																						
VI. FACILITY LOCATION <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER</th> <th style="width: 10%;">B. COUNTY NAME</th> <th style="width: 10%;">C. CITY OR TOWN</th> <th style="width: 10%;">D. STATE</th> <th style="width: 10%;">E. ZIP CODE</th> <th style="width: 10%;">F. COUNTY CODE (if known)</th> </tr> <tr> <td>5 Broadway and Bleakley Avenue</td> <td>Westchester</td> <td>Buchanan</td> <td>NY</td> <td>10511</td> <td></td> </tr> </table>				A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)	5 Broadway and Bleakley Avenue	Westchester	Buchanan	NY	10511																																											
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)																																																				
5 Broadway and Bleakley Avenue	Westchester	Buchanan	NY	10511																																																					

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
C	1	2	3	C	4	5	6
9	1	1	1	7			
(specify) Electric Power Generation				(specify)			
C. THIRD				D. FOURTH			
C	7			C	7		
(specify)				(specify)			

VIII. OPERATOR INFORMATION

A. NAME												B. Is the name listed in Item VIII-A also the owner?						
C	8	Consolidated Edison Co., of New York, Inc.										<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO					
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)														D. PHONE (area code & no.)				
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify) P = PRIVATE														C	A	212	460	4833
E. STREET OR P.O. BOX																		
4 Irving Place, Room 300																		
F. CITY OR TOWN												G. STATE	H. ZIP CODE	IX. INDIAN LAND				
C	B	New York										NY	10003	Is the facility located on Indian lands?				
														<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO			

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
C	T	I	NY0004472							C	T	I							
9	N									9	P								
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
C	T	I								C	T	I	(specify)						
9	U									9			SEE ATTACHMENT 1						
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
C	T	I								C	T	I	(specify)						
9	R									9									

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements. SEE FIGURES 1-9

XII. NATURE OF BUSINESS (provide a brief description)

This facility generates electricity by means of a steam driven turbine generator with the steam produced by a pressurized water reactor system. The steam is condensed in surface condensers using Hudson River water as the cooling medium. The condensate is recycled for steam production.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME & OFFICIAL TITLE (type or print)		B. SIGNATURE	C. DATE SIGNED
Raymond R. Kimmel, Asst. Vice Pres. Environmental Affairs & Fuel Supply		See Attachment 2 for revised certification and signature	

COMMENTS FOR OFFICIAL USE ONLY

C	15	16
C		

EPA I.D. NUMBER
NY0004472

ATTACHMENT 1
CON EDISON
EPA FORM 1
GENERAL INFORMATION
CONSOLIDATED PERMITS PROGRAM

X. Existing Environmental Permits

E. Others (Specify)
C5522011504

Certificate to Operate an Air Contamination
Source issued by DEC

NYD991304411

EPA Hazardous Waste Generator and TSDF
ID Number

03-2140

Major Petroleum Storage Facility License
issued by DEC

507199

Petroleum Bulk Storage Registration
Certificate issued by DEC

3-000107

Hazardous Substance Bulk Storage Registration
Certificate issued by DEC

EPA I.D. NUMBER
NY0004472

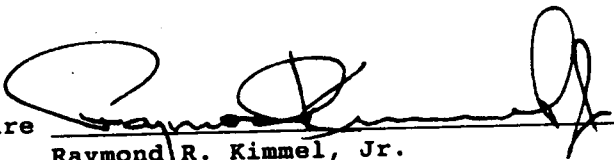
ATTACHMENT 2

CON EDISON
EPA FORM 1
GENERAL INFORMATION
CONSOLIDATED PERMITS PROGRAM

XIII. Certification*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

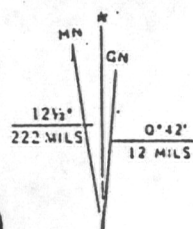
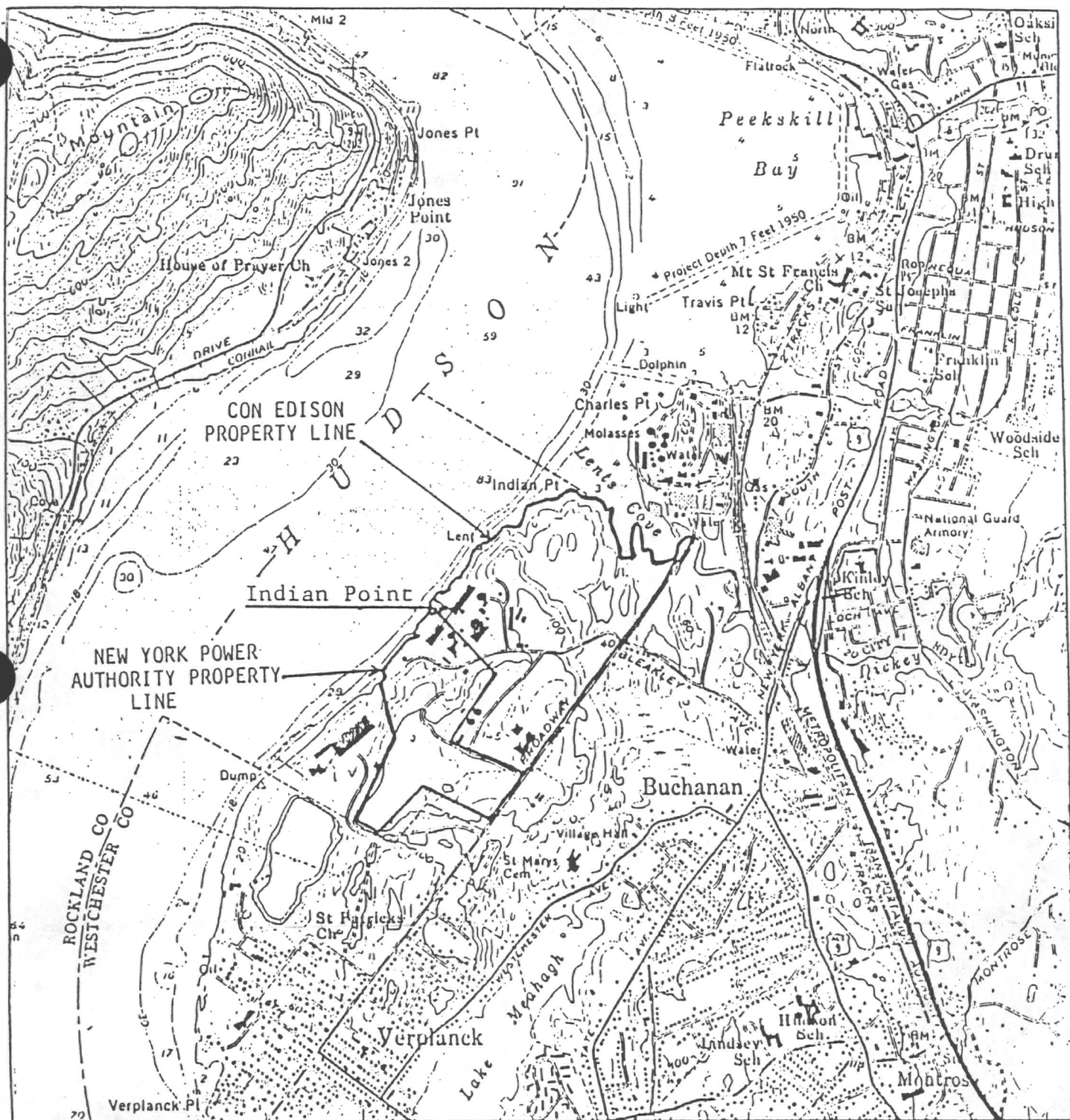


Raymond R. Kimmel, Jr.
Assistant Vice President
Environmental Affairs & Fuel Supply

Date

3/24/92

*The certification statement on EPA Form 1, dated October 1980, was revised in accordance with revised regulations (40 CFR 122.22(d)) published by EPA on September 1, 1983 (Federal Register, Volume 48, Number 171, page 39619).



1980 AND 1981 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Scale 1:24,000

1000 0 Feet

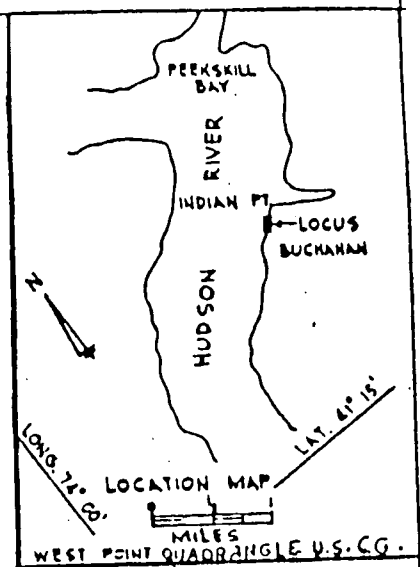
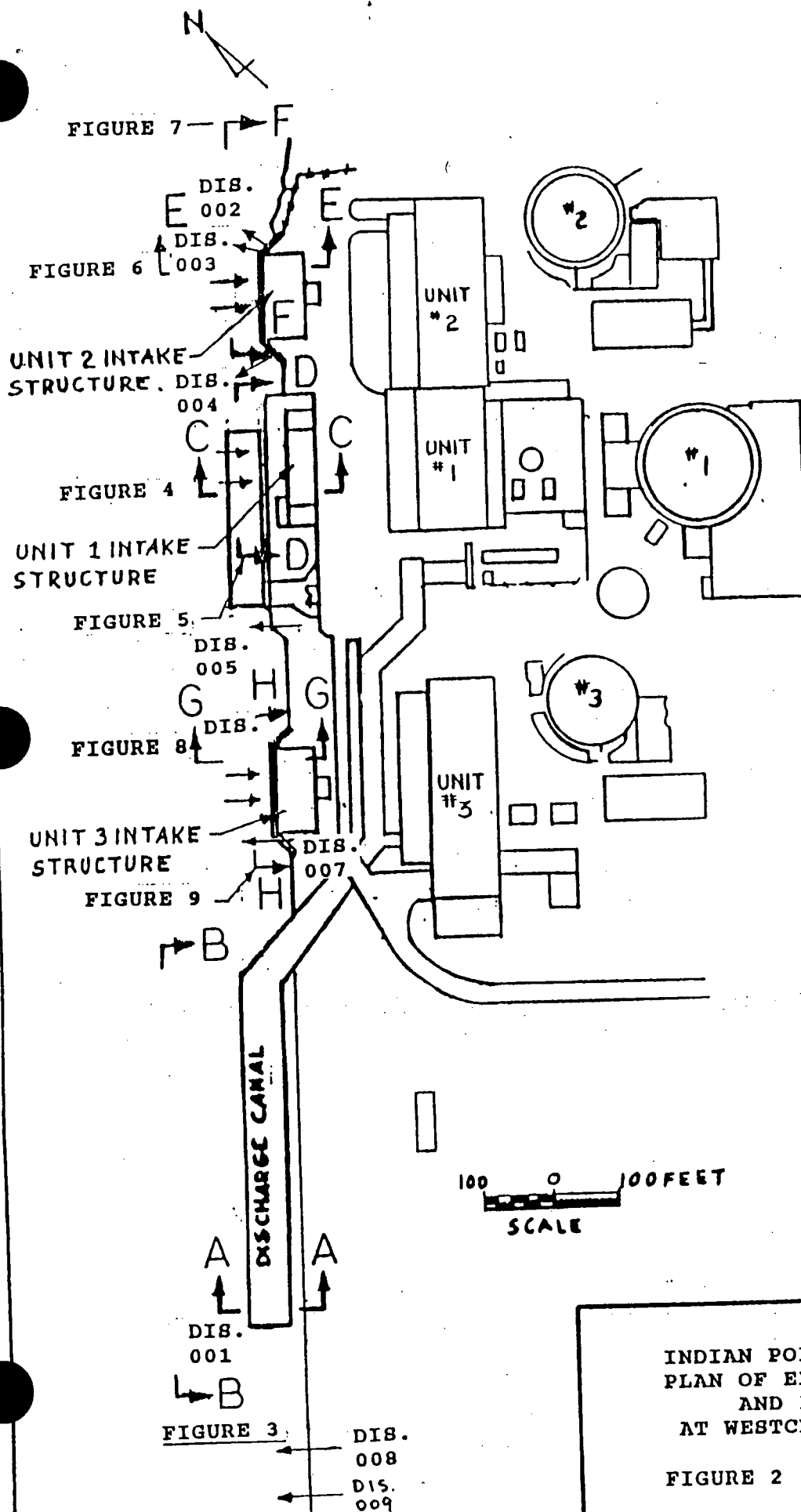
0 1000

INDIAN POINT GENERATING STATION
AT WESTCHESTER COUNTY, N.Y.
TOPOGRAPHICAL MAP

USGS Map Peekskill, N.Y.

FIGURE 1

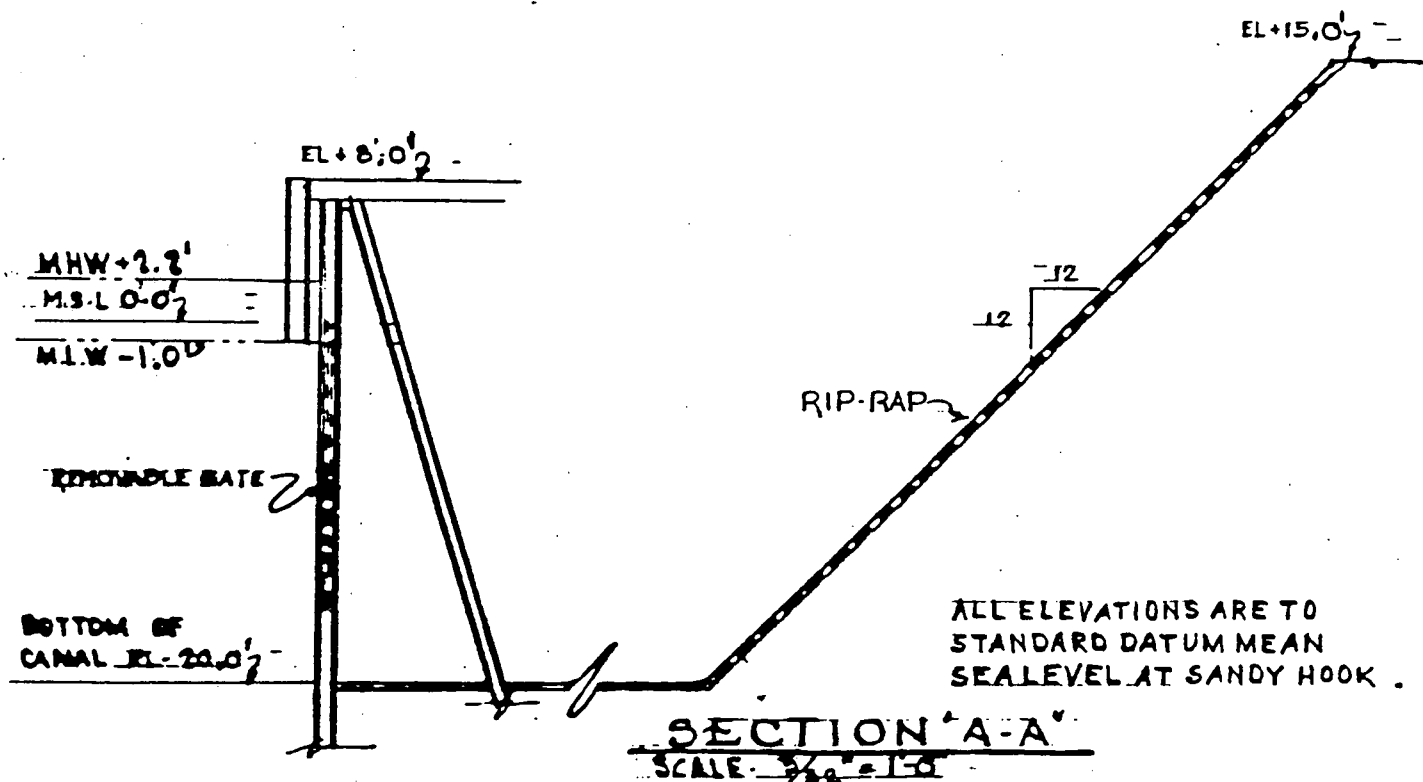
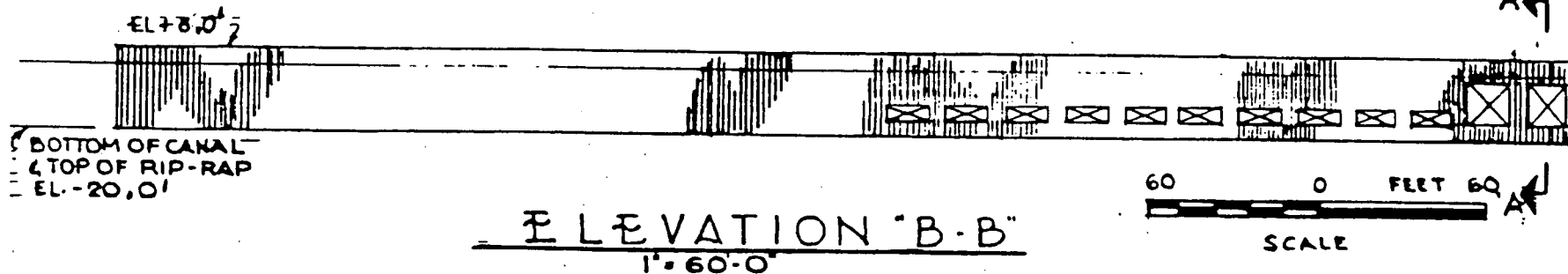
JAN 1992



INDIAN POINT GENERATING STATION
PLAN OF EXISTING DISCHARGE CANAL
AND INTAKE STRUCTURES
AT WESTCHESTER COUNTY, N.Y.

FIGURE 2

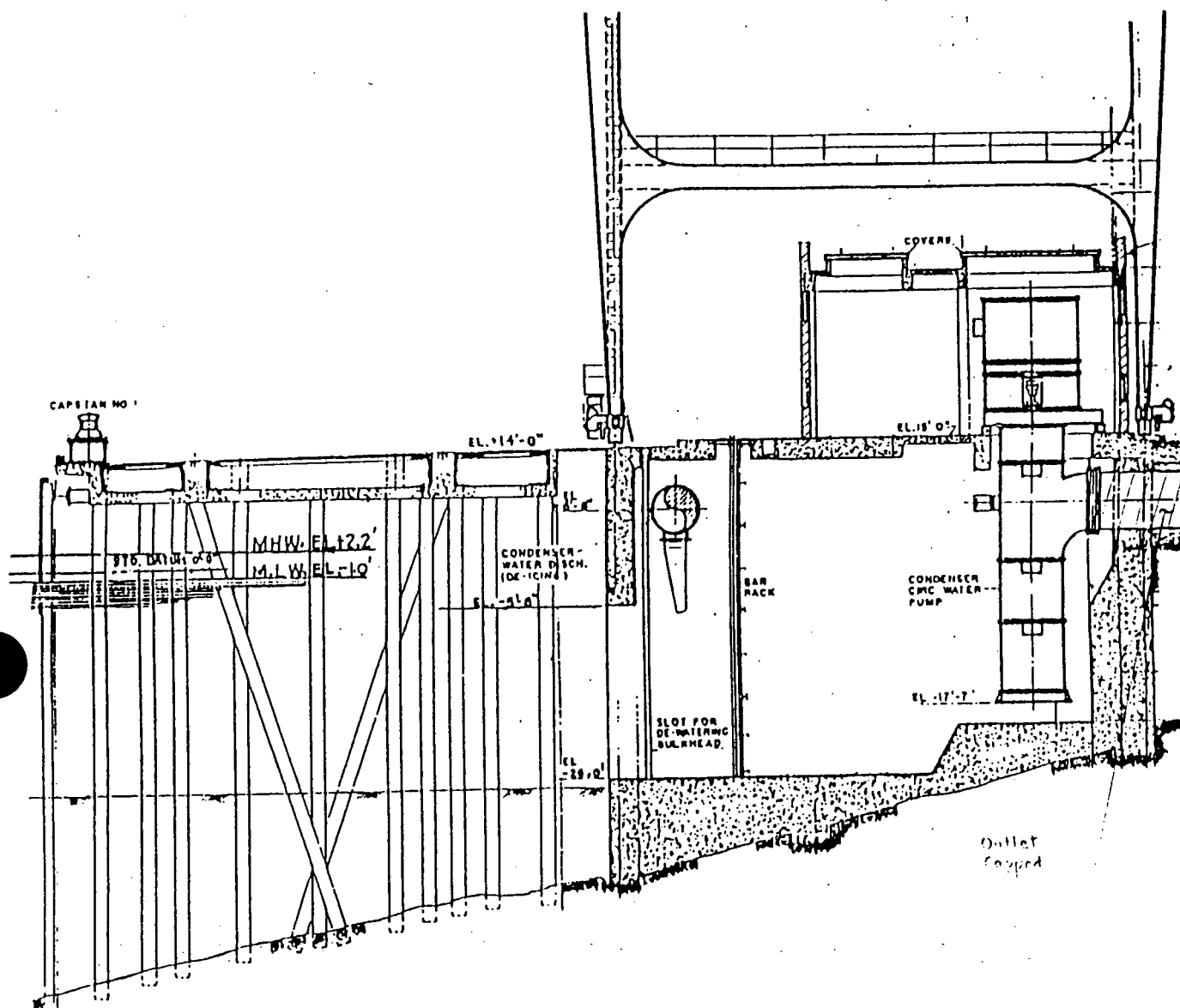
JAN 1992



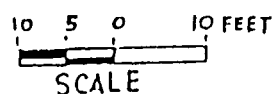
INDIAN POINT GENERATING STATION
ELEVATION OF EXISTING DISCHARGE CANAL
AT WESTCHESTER COUNTY, N.Y.

FIGURE 3

JAN 1992



SECTION C-C

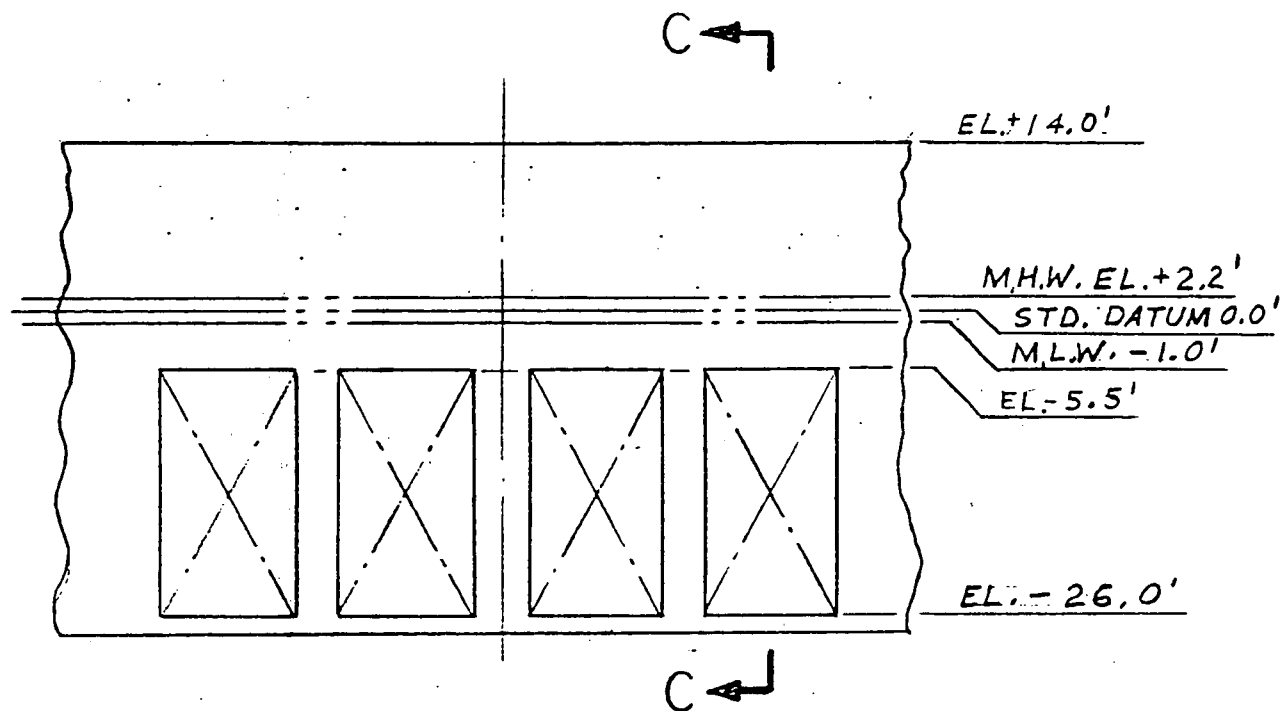


ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK.

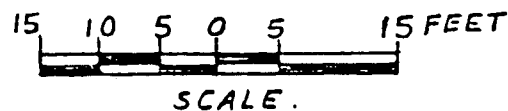
INDIAN POINT GENERATING STATION
UNIT NO. 1
SECTION OF EXISTING INTAKE TUNNEL
AT WESTCHESTER COUNTY, N.Y.

FIGURE 4

JAN 1992



ELEVATION D-D

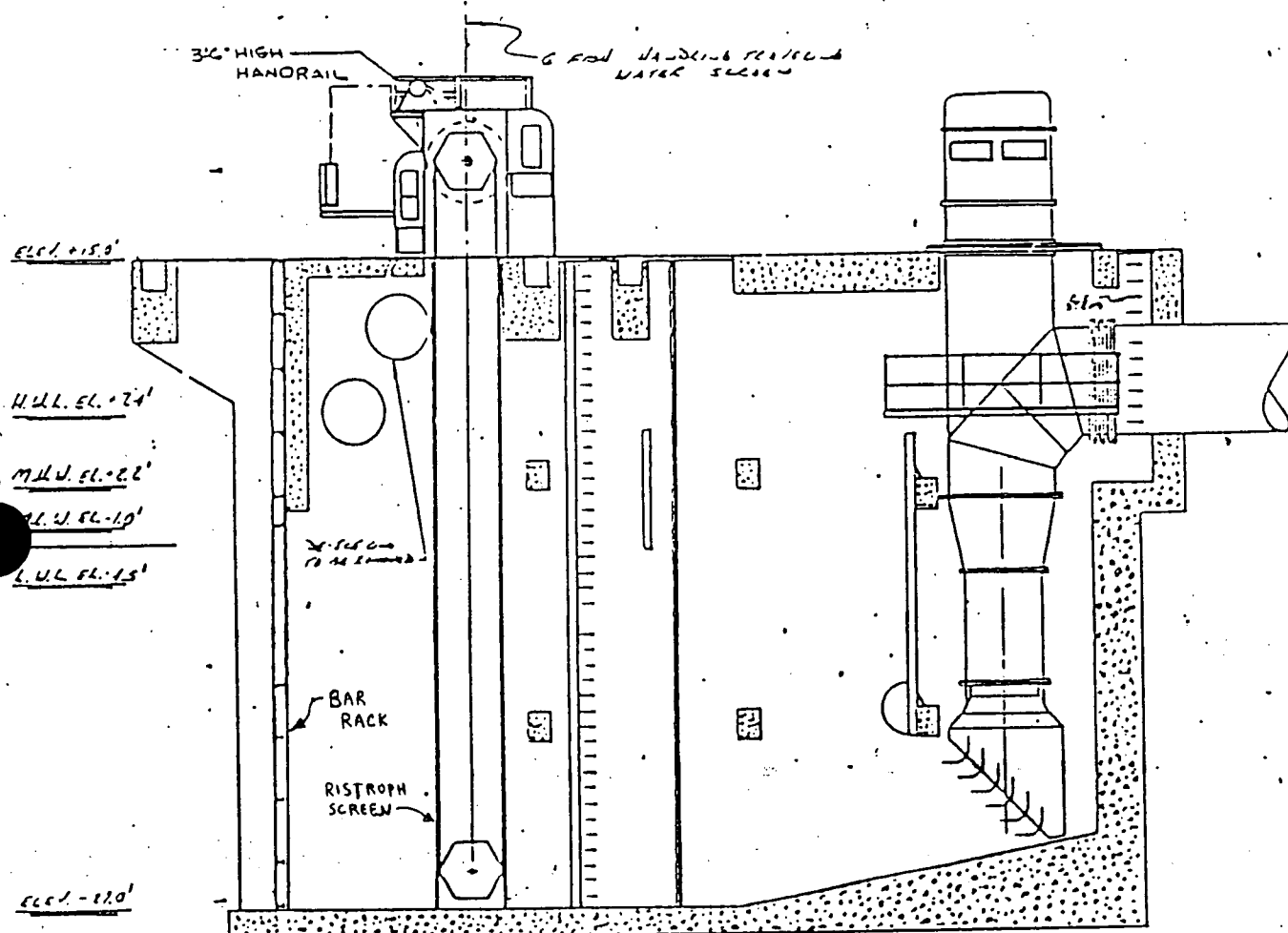


ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK.

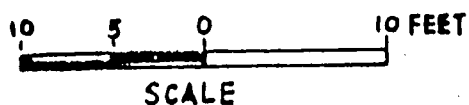
INDIAN POINT GENERATING STATION
UNIT NO. 1
ELEVATION OF EXISTING INTAKE STRUCTURE
AT WESTCHESTER COUNTY, N.Y.

FIGURE 5

JAN 1992



SECTION E-E

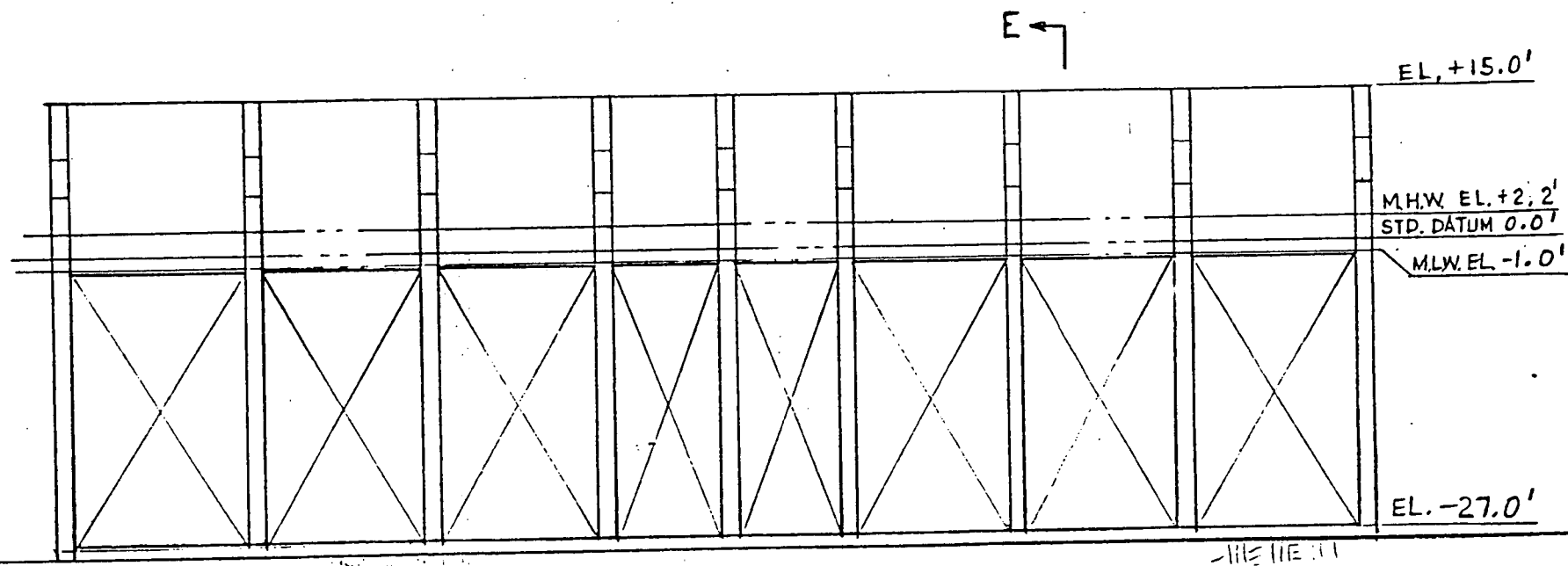


ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK.

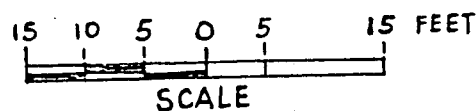
INDIAN POINT GENERATING STATION
UNIT NO. 2
SECTION OF EXISTING INTAKE TUNNEL
AT WESTCHESTER COUNTY, N.Y.

FIGURE 6

JAN 1992



ELEVATION F-F

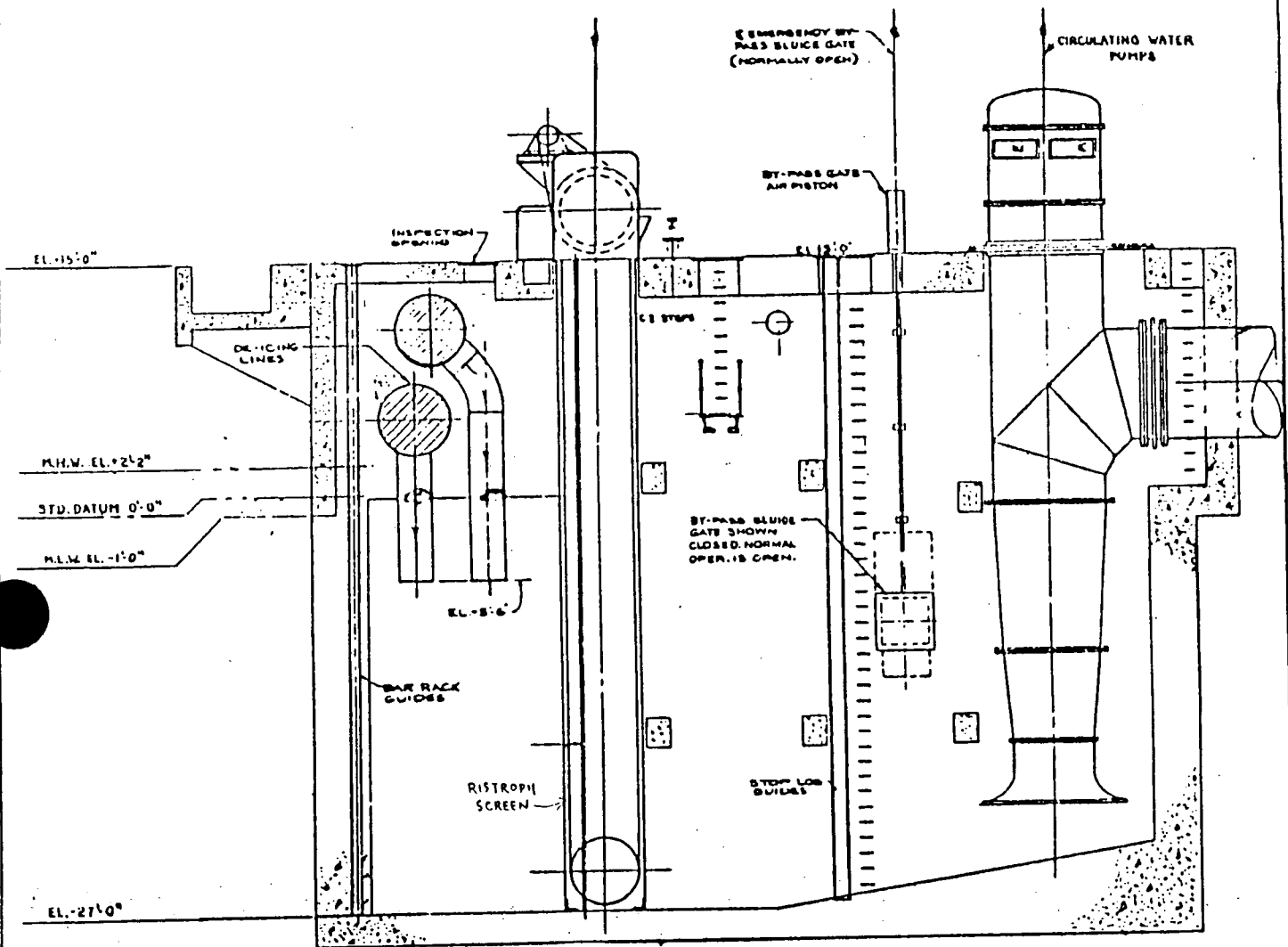


ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK

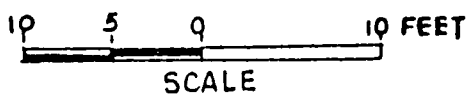
INDIAN POINT GENERATING STATION
UNIT NO. 2
ELEVATION OF EXISTING INTAKE STRUCTURE
AT WESTCHESTER COUNTY, N.Y.

FIGURE 7

JAN 1992



SECTION G-G

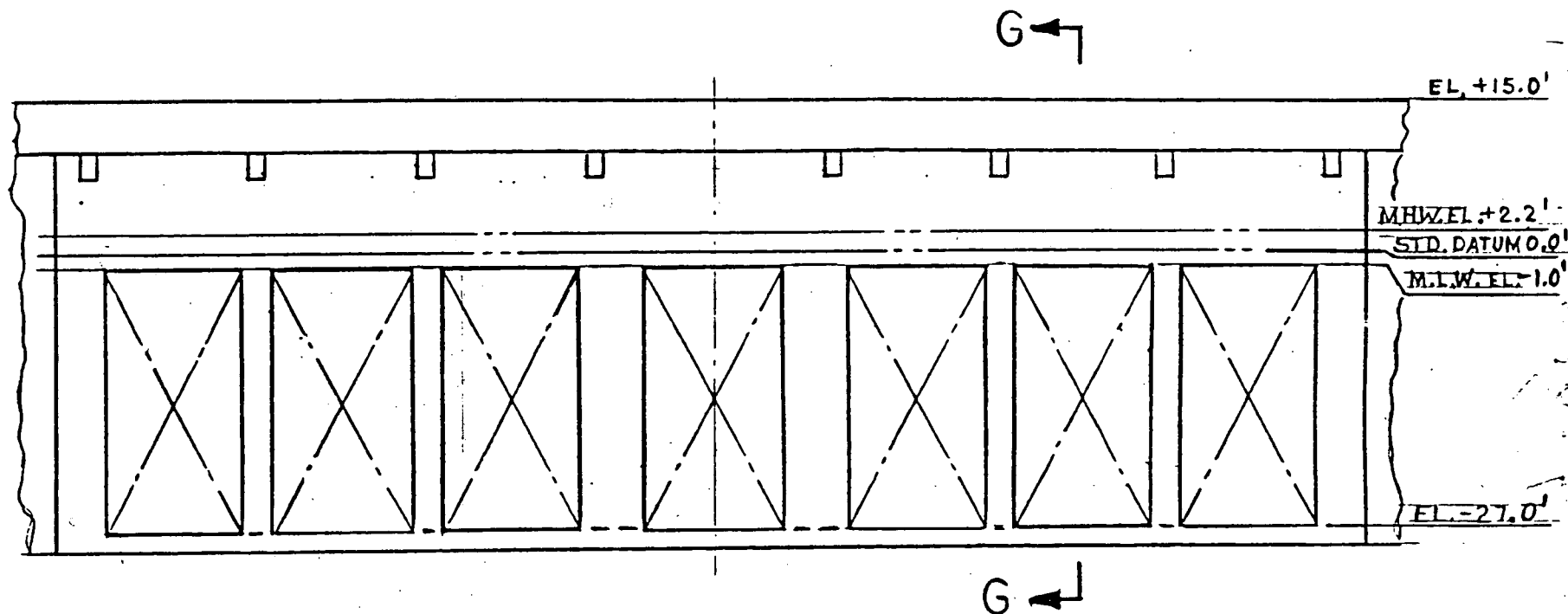


ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK

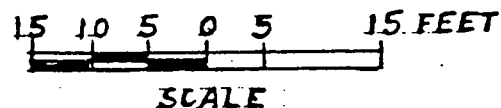
INDIAN POINT GENERATING STATION
UNIT NO. 3
SECTION OF EXISTING INTAKE TUNNEL
AT WESTCHESTER COUNTY, N.Y.

FIGURE 8

JAN 1992



ELEVATION H-H



ALL ELEVATIONS ARE TO
STANDARD DATUM MEAN
SEA LEVEL AT SANDY HOOK.

INDIAN POINT GENERATING STATION
UNIT NO. 3
ELEVATION OF EXISTING INTAKE STRUCTURE
AT WESTCHESTER COUNTY, N.Y.

FIGURE 9

JAN 1992

<div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center; margin-right: 10px;">FORM 1 GENERAL</div><div style="text-align: center; margin-right: 10px;">EPA</div><div style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <small>(Read the "General Instructions" before starting.)</small></div></div>		I. EPA I.D. NUMBER	
		F NY0004472	
<div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center; margin-right: 10px;">C. LABEL ITEMS A. I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION</div><div style="text-align: center; flex-grow: 1;">PLEASE PLACE LABEL IN THIS SPACE</div></div>		GENERAL INSTRUCTIONS <small>If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.</small>	
II. POLLUTANT CHARACTERISTICS			
<p>INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.</p>			
SPECIFIC QUESTIONS		SPECIFIC QUESTIONS	
MARK 'X'		MARK 'X'	
YES NO FORM ATTACHED		YES NO FORM ATTACHED	
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	
16 17 18		19 20 21	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	
22 23 24		25 26 27	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	
28 29 30		31 32 33	
Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	
34 35 36		37 38 39	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	
40 41 42		43 44 45	
III. NAME OF FACILITY			
C SKIP Indian Point Unit No. 3			
13 14 15 16 17 18 19 20			
IV. FACILITY CONTACT			
A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)	
C 2 Kahabka, John - Supervisor		914 681 6308	
13 14 15 16 17 18 19 20		41 42 43 44 45 46 47 48	
V. FACILITY MAILING ADDRESS			
A. STREET OR P.O. BOX			
C 3 123 Main Street			
13 14 15 16 17 18 19 20			
B. CITY OR TOWN		C. STATE	D. ZIP CODE
C 4 White Plains		NY	10601
13 14 15 16 17 18 19 20		21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
VI. FACILITY LOCATION			
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER			
C 5 Broadway and Bleakley Avenue			
13 14 15 16 17 18 19 20			
B. COUNTY NAME			
Westchester			
41 42 43 44 45 46 47 48			
C. CITY OR TOWN		D. STATE	E. ZIP CODE
C 6 Buchanan		NY	10511
13 14 15 16 17 18 19 20		21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND									
(specify) 7 Electric Power Generation										(specify) 7									
C. THIRD										D. FOURTH									
(specify) 7										(specify) 7									

VIII. OPERATOR INFORMATION

A. NAME										B. Is the name listed in Item VIII-A also the owner?									
8 New York Power Authority										<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)										D. PHONE (area code & no.)									
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify) P = PRIVATE										S (specify) A 914 681 6401									
E. STREET OR P.O. BOX																			
123 Main Street																			

F. CITY OR TOWN										G. STATE		H. ZIP CODE		IX. INDIAN LAND									
B White Plains										NY		10601		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
9 N NY0004472										9 P									
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
9 U										(specify) SEE ATTACHMENT 1									
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
9 H										(specify)									

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements. SEE FIGURES 1-9 of CON EDISON'S APPL. FORM 1

XII. NATURE OF BUSINESS (provide a brief description)

This facility generates electricity by means of a steam driven turbine generator with the steam produced by a pressurized water reactor system. The steam is condensed in surface condensers using Hudson River water as the cooling medium. The condensate is recycled for steam production.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)										B. SIGNATURE										C. DATE SIGNED									
John J. Kelly, Director, Rad. and Environmental Support										See Attachment 2 for revised certification and signature																			

COMMENTS FOR OFFICIAL USE ONLY

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

EPA I.D. NUMBER
NY0004472

ATTACHMENT 1

NEW YORK POWER AUTHORITY
EPA FORM 1
GENERAL INFORMATION
CONSOLIDATED PERMITS PROGRAM

X. Existing Environmental Permits

E. Others (Specify)

NYD085503746

EPA Hazardous Waste Generator and TSDF
ID Number

166367

Petroleum Bulk Storage Registration
Certificate issued by DEC

3-000071

Hazardous Substance Bulk Storage Registration
Certificate issued by DEC

Certificate to Operate an Air Contamination
Source (application submitted to DEC in 3/89)

EPA I.D. NUMBER
NY0004472

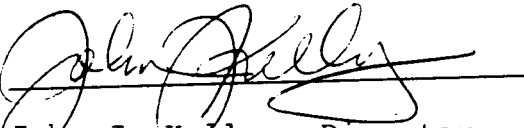
ATTACHMENT 2

NEW YORK POWER AUTHORITY
EPA FORM 1
GENERAL INFORMATION
CONSOLIDATED PERMITS PROGRAM

XIII. Certification*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature



John J. Kelly Director
Radiological and Environmental
Support

Date

3/26/92

*The certification statement on EPA Form 1, dated October 1980, was revised in accordance with revised regulations (40 CFR 122.22(d)) published by EPA on September 1, 1983 (Federal Register, Volume 48, Number 171, page 39619).

Please print or type in the unshaded areas only.

FORM
2C
NPDESU.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	41	16	7	73	57	19	Hudson River
002	41	16	17	73	56	53	Hudson River
003	41	16	17	73	56	53	Hudson River
004	41	16	16	73	56	57	Hudson River
005	41	16	12	73	57	17	Hudson River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. SEE EXHIBIT 1

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	Cooling water and low Volume Wastes	See Exhibit 2 for average and maximum flow information for all discharges and waste sources	Discharge to Surface water	4A
	The following waste streams contribute to 001:			
	001B-Steam Generator Blowdown (Con Edison and NYPA)		Flash Tank-cooling and partial evaporation	XX
	001C Unit No.2 Primary Waste Disposal System Effluent (Con Edison)		Filtration (Pre) Ion Exchange Filtration (Post)	XX 2J XX
	001D-Unit No.3 Primary Waste Disposal System Effluent (NYPA)		Filtration (Pre) Ion Exchange Filtration (Post)	XX 2J XX

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Please print or type in the unshaded areas only.

NY0004472

FORM
2C
NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
007	41	16	10	73	57	19	Hudson River
008	41	16	4	73	57	26	Hudson River
009	41	16	3	73	57	26	Hudson River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	8. DESCRIPTION	5. LIST CODES FROM TABLE 2C-1
	001E-Make-up Water Ion Exchanger Regeneration Waste (Con Edison and NYPA) and Ultrafiltration system wastes (NYPA) *		None	
	001G-Service Boiler Blowdown (Con Edison and NYPA) *		None	
	001I-Condenser and Service Cooling Water (Con Edison and NYPA)		None	
	001J-Secondary Floor and Equipment Drainage (Con Edison and NYPA) *		None	
	001K-Unit No. 2 Make-up Water Filter Backwash (Con Edison)		Sedimentation	1U
	*See Footnote #7 in Exhibit 2, EPA Form 2C			

Please print or type in the unshaded areas only.

NY0004472

FORM
2C
NPDESU.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
	001L-Unit No.3 Condensate		Neutralization	2K
	Polisher/Make-up			
	Demineralizer Filter			
	Backwash and Ion Ex-changer Regeneration			
	wastes (NYPA)			
	001M-Uncontaminated Storm		None	
	Water Runoff			
	(Con Edison and NYPA)			
	With the exception of Outfall 003, the following discharges consist solely of uncontaminated stormwater runoff:			
002	Yard Storm Drainage-Northeast of Unit No.2		Discharge to Surface Water	4A
	screenwell structure			
003	Yard Storm Drainage-East of Unit No.2 Screenwell		Discharge to Surface Water	4A
	structure. Also, Unit No.2			
	Service Water Strainers			
	Backwash.			

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Please print or type in the unshaded areas only.

NY0004472

FORM
2C
NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

[illegible]

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

On additional sheets if necessary.				
1. OUT-FALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
004	Yard Storm Drainage-North-east of Unit No.1 Screenwell Structure		Discharge to Surface Water	4A
005	Yard Storm Drainage-Condensate Polisher Facility for Unit No.3		Discharge to Surface Water	4A
007	Yard Storm Drainage-near Unit No.3 Intake Structure		Discharge to Surface Water	4A
008	Yard Storm Drainage-Unit No.3 Warehouse Area		Discharge to Surface Water	4A
009	Yard Storm Drainage-Unit No.3 Warehouse Area		Discharge to Surface Water	4A

OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?
☐ YES (complete the following table) ☐ NO (go to Section III)

☐ YES (complete the following table)

OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DUR- ATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	There are no seasonal discharges. Intermittent discharges are described in Exhibit 3.							

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?
☒ YES (complete Item III-B) ☐ NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
☐ YES (complete Item III-C) ☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.
☐ YES (complete the following table) ☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. RE-REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NONE			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below)☒ NO (go to Item VI-B)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (Identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Camo Laboratories, Inc.	367 Violet Avenue Poughkeepsie, New York 12601	(914)473-9200	All except pH, temperature and TRC

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)

Raymond R. Kimmel, Asst. Vice Pres., Env. Affairs & Fuel Supply

John J. Kelly, Dir. Rad. and Enviro. Support

C. SIGNATURE

[Handwritten signatures of Raymond R. Kimmel and John J. Kelly]

B. PHONE NO. (area code & no.)

(212)460-2211

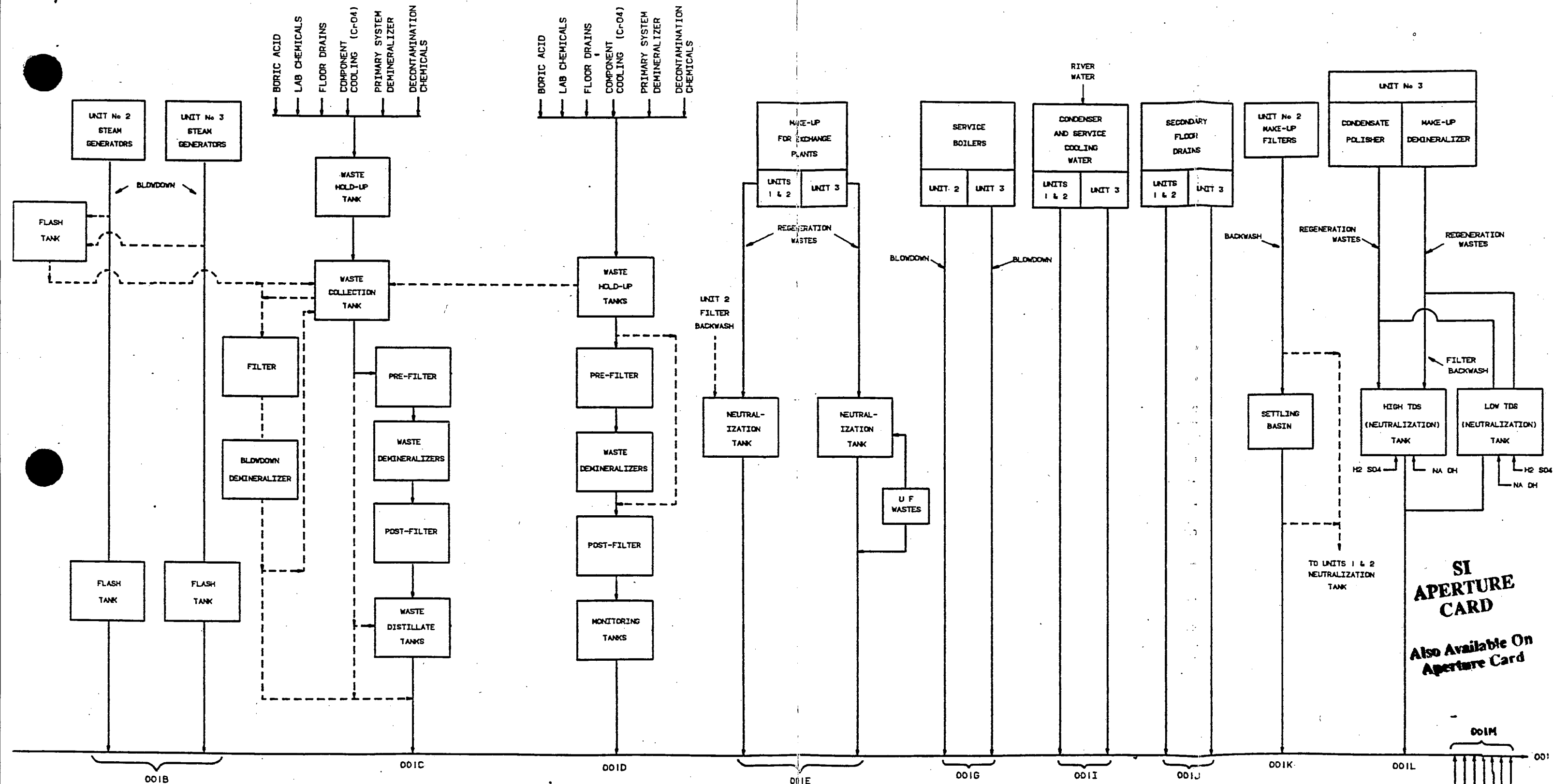
(914)681-6298

D. DATE SIGNED

8/26/92 / 3/31/92

UNIT-2 PRIMARY WASTES

UNIT-3 PRIMARY WASTES



NOTES

1 -UNLESS SPECIFIED OTHERWISE,
THE SOURCE OF ALL WASTE
STREAMS IS CITY WATER

SOLID LINE - NORMAL FLOW PATH

3 -DASHED LINE - ALTERNATE FLOW PATH

4 -AVG AND MAX FLOW VALUES ARE
PRESENTED IN EXHIBIT 2

INDIAN POINT GENERATING STATION SPDES NO. NY0004472 SCHEMATIC OF WASTEWATER DISCHARGES

Exhibit No 1

9204160204-01

EXHIBIT 2**ITEM II. B. TO APPLICATION FORM 2C
DISCHARGE AND WASTE STREAM FLOW
INDIAN POINT GENERATING STATION
SPDES NO. NY0004472**

<u>Discharge/Waste Stream Description</u>	<u>Responsible Utility</u>	<u>Average (1) Flow (MGD)</u>	<u>Maximum (2) Flow (MGD)</u>
001B-Steam Generator Blowdown ⁽³⁾			
Unit No. 2	Con Edison	0.36	0.80
Unit No. 3	NYPA	0.36	0.80
001C Unit No. 2 Primary Waste Disposal System Effluent ⁽³⁾	Con Edison	0.02	0.05
001D Unit No. 3 Primary Waste Disposal System Effluent	NYPA	0.01	0.02
001E Make-Up Water Ion Exchanger Regeneration Wastes			
Unit No. 2	Con Edison	0.02	0.04
Unit No. 3 (Includes Ultrafiltration System Waste)	NYPA	0.02	0.09
001G Service Boiler Blowdown			
Unit No. 2	Con Edison	.05	0.06
Unit No. 3	NYPA	.01	0.03
001I Condenser and Service Cooling Water ⁽⁴⁾			
Unit Nos. 1 and 2	Con Edison	1,276	1,299
Unit No. 3	NYPA	1,253	1,253

EXHIBIT 2

ITEM II. B. TO APPLICATION FORM 2C
DISCHARGE AND WASTE STREAM FLOW
INDIAN POINT GENERATING STATION
SPDES NO. NY0004472

<u>Discharge/Waste Stream Description</u>	<u>Responsible Utility</u>	<u>Average Flow (MGD)</u> (1)	<u>Maximum Flow (MGD)</u> (2)
001J Secondary Floor and Equipment Drainage Unit Nos. 1 and 2 Unit No. 3	Con Edison NYPA	0.02 0.02	0.06 0.06
001K Unit No. 2 Make-Up Water Filter Backwash	Con Edison	0.06	0.11
001L Unit No. 3 Condensate Polisher/Make-up Water Demineralizer Filter Backwash and Ion Exchanger Regeneration Wastes	NYPA	0.12	0.29
001M Uncontaminated Stormwater Runoff ⁽⁵⁾⁽⁷⁾ Unit Nos. 1 and 2 (12 acres) Unit No. 3 (77.8 acres)	Con Edison NYPA	0.04 0.11	1.39 4.77
001 - Total		2,530	2,561

EXHIBIT 2

ITEM II. B. TO APPLICATION FORM 2C
DISCHARGE AND WASTE STREAM FLOW
INDIAN POINT GENERATING STATION
SPDES NO. NY0004472

<u>Discharge/Waste Stream Description</u>	<u>Responsible Utility</u>	<u>Average (1) Flow (MGD)</u>	<u>Maximum (2) Flow (MGD)</u>
002 Uncontaminated Stormwater Runoff (0.4 acres) ⁽⁵⁾	Con Edison	0.001	0.049
003 Uncontaminated Stormwater Runoff (0.6 acres) ⁽⁵⁾ and Unit No. 2 Service Water Strainers Backwash ⁽⁶⁾	Con Edison	1.039	1.639
004 Uncontaminated Stormwater Runoff (1.9 acres) ⁽⁵⁾	Con Edison	0.006	0.263
005 Uncontaminated Stormwater Runoff (0.2 acres) ⁽⁵⁾	NYPA	0.001	0.025
007 Uncontaminated Stormwater Runoff (0.6 acres) ⁽⁵⁾	NYPA	0.001	0.037
008 Uncontaminated Stormwater Runoff (0.2 acres) ⁽⁵⁾	NYPA	0.001	0.027
009 Uncontaminated Stormwater Runoff (35 acres) ⁽⁵⁾	NYPA	0.038	1.663

EXHIBIT 2

ITEM II. B. TO APPLICATION FORM 2C
DISCHARGE AND WASTE STREAM FLOW
INDIAN POINT GENERATING STATION
SPDES NO. NY0004472

Footnotes

1. Except where specified otherwise, average flows represent the highest expected monthly average.
2. Except where specified otherwise, maximum flows represent the highest expected daily value.
3. There are a total of eight steam generators, four for Unit No. 2 and four for Unit No. 3. The flow values presented for waste streams 001B and 001C reflect normal operations, in which blowdown from all Unit No. 2 steam generators is discharged via 001B and not treated in Con Edison's primary waste disposal system (001C). If necessary, steam generator blowdown may be treated in either Con Edison's blowdown demineralizer train or Con Edison's waste demineralizer train and discharged via waste stream 001C. It is expected that blowdown from no more than two of the eight steam generators will required such treatment at any time. In such case, the maximum flow of waste stream 001C would increase by 0.40 MGD.
4. Average flows for all units and maximum flow for Unit No. 3 assume all Unit Nos. 2 and 3 condenser cooling water and service cooling water pumps are operating at full flow and a typical Unit No. 1 service water flow of 16,000 gpm (23 MGD). Maximum flow for Unit Nos. 1 and 2 reflects the operation of both service water pumps at Unit No. 1.
5. Average stormwater flows are based on an average annual rainfall of 42 inches (0.115 inches/day). Maximum stormwater flows are based on a once in 10 years, 24-hour rainfall of 5 inches. Both the average and maximum flow values are based on specified estimated drainage areas. A runoff coefficient of 0.22 is used for unpaved areas and a coefficient of 1.0 is used for paved areas. See EPA Form 2F for additional information required for stormwater discharges.
6. The strainers trap any silt/debris which pass through the Unit No. 2 service water bay intake screens. Six pump at 180 gpm each are used to pump Hudson River water to backwash the strainers to remove the trapped silt/debris. Typically, four of the six pumps are in operation.
7. All stormwater collected within the area designated as 001M (see Fig. 1 of EPA Form 2F) discharges to the discharge canal via several outfall pipes. Some of these pipes also convey internal process waste streams. Internal waste streams which are mixed with stormwater before entering the discharge canal are 001E, 001G, and 001J.

EXHIBIT 3

**ITEM II. C. TO APPLICATION FORM 2C
INTERMITTENT DISCHARGES
INDIAN POINT GENERATING STATION
SPDES NO. NY0004472**

Waste Stream	Discharge	Frequency	Flow Rate	Duration	Max. Volume	Daily	Flow (Gal)
	Ave.	Max.	(gpm)	(Minutes)	Per Discharge (Gal)	Avg.	Max.
001C-Unit No. 2 Primary Waste Disposal System Effluent (Con Edison)	1/2days	2/day	50-250	100-500	25,000	20,000	50,000
001D-Unit No. 3 Primary Waste Disposal System Effluent (NYPA)	12/month	2/day	62 avg.	138 avg.	10,200	8,600	20,400
001E-Make-up Water Ion Regeneration Wastes Exchange Plant Con Edison NYPA	1/2day	2/day	150	133	20,000	20,000	40,000
	5/week	4/day	400-800	28-56	22,500	22,500	90,000
001K-Unit No. 2 Make-up Water Filter Backwash (Con Edison)							
Prefilter Backwash	4/day	8/day	300	15-30	9,000	36,000	72,000
Carbon Filter Backwash	2/day	4/day	350	30	10,500	21,000	42,000
001L-Unit No. 3 Condensate Polisher/Make-up Water Demineralizer Filter Backwash and Ion Exchanger Regeneration Wastes (NYPA)	2/day	5/day	311 avg.	112 avg.	58,875	118,000	294,000

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NY0004472

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO
001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1)	(2) MASS	(1)	(2) MASS	(1)	(2) MASS				(1)	(2) MASS	
	CONCENTRATION		CONCENTRATION		CONCENTRATION					CONCENTRATION		
a. Biochemical Oxygen Demand (BOD)	< 3	< 63,901					1	PPM	LBS/DAY	< 5	< 106,418	2
b. Chemical Oxygen Demand (COD)	5	106,502					1	"	"	46	979,049	2
c. Total Organic Carbon (TOC)	4.7	100,112					1	"	"	5.7	121,317	2
d. Total Suspended Solids (TSS)	33	702,912					1	"	"	31	659,794	2
e. Ammonia (as N)	0.04	852					1	"	"	0.08	1,703	2
f. Flow (1)	VALUE 2,554		VALUE 2,530		VALUE 1361		CONT	MGD	-	VALUE 2552		CONT
g. Temperature (winter) (2)	VALUE 20.3 (68.6)		VALUE 17.5 (63.5)		VALUE 13.1 (55.6)		CONT	°C (°F)		VALUE 2.4 (36.3)		CONT
h. Temperature (summer) (3)	VALUE 39.2 (102.5)		VALUE 36.4 (97.5)		VALUE 33.5 (92.4)		CONT	°C (°F)		VALUE 25.4 (77.7)		CONT
i. pH (4)	MINIMUM 6.9	MAXIMUM 8.8	MINIMUM 7.2	MAXIMUM 8.1			144	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)	X		25	532,509					1	PPM	LBS/DAY	25	532,092	2
b. Chlorine, (5) Total Residual	X		0.20	4,260	0.13	2,743			1034	PPM	LBS/DAY	< 0.1	< 2,128	8
c. Color	X		10	-					1	PT-CO	-	5	-	2
d. Fecal Coliform (6)	X		-	-							-	-	-	
e. Fluoride (16984-48-8)	X		0.2	4,260					1	PPM	LBS/DAY	0.2	4,258	2
f. Nitrate-Nitrite (as N)	X		< 0.02	< 426					1	PPM	LBS/DAY	0.15	3,193	2

ITEM V-8		UED FROM FRONT		3. EFFLUENT						4. UNITS		5. INTAKE (Annual)			
1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		a. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	
	3. SE- LIEVED PRE- SENT	D. SE- LIEVED AB- SENT	(1) CONCENTRATION	(2) MASS (7)	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS (7)		
g. Nitrogen, Total Organic (as N)	X		< 2.0	< 42,600					1	PPM	LBS/DAY	< 1.0	< 21,284	2	
h. Oil and Grease	X		< 3.0	< 63,901					4	PPM	LBS/DAY	< 2.0	< 42,567	8	
i. Phosphorus (as P), Total (7723-14-0)	X		< 0.01	-					1	PPM	-	< 0.01	-	2	
j. Radioactivity															
(1) Alpha, Total	X		< 3	-					1	PCi/L	-	< 3	-	2	
(2) Beta, Total	X		4.6	-					1	PCi/L	-	5.9	-	2	
(3) Radium, Total	X		< 2	-					1	PCi/L	-	< 2	-	2	
(4) Radium 226, Total	X		< 8	-					1	PCi/L	-	< 1	-	2	
k. Sulfate (as SO ₄) (14808-79-8)	X		280	6.0x10 ⁶					1	PPM	LBS/DAY	360	7.7x10 ⁶	2	
l. Sulfide (as S)	X		< 0.05	-					1	PPM	-	< 0.05	-	2	
m. Sulfite (as SO ₃) (14265-45-3)	X		< 0.6	-					4	PPM	-	< 0.6	-	8	
n. Surfactants	X		0.2	4,260					1	PPM	LBS/DAY	0.2	4,257	2	
o. Aluminum, Total (7429-90-5)	X		0.1	2,130					1	PPM	LBS/DAY	0.1	2,128	2	
p. Barium, Total (7440-39-3)	X		< 0.1	-					1	PPM	-	< 0.1	-	2	
q. Boron, Total (7440-42-8)	X		0.7	14,910					1	PPM	LBS/DAY	0.7	14,899	2	
r. Cobalt, Total (7440-48-4)	X		< 0.01	-					1	PPM	-	< 0.01	-	2	
s. Iron, Total (7439-89-6)	X		0.16	3,408					1	PPM	LBS/DAY	0.27	5,747	2	
t. Magnesium, Total (7439-95-4)	X		153	3.3x10 ⁶					1	PPM	LBS/DAY	111	2.4x10 ⁶	2	
u. Molybdenum, Total (7439-98-7)	X		< 0.01	-					1	PPM	-	< 0.01	-	2	
v. Manganese, Total (7439-96-5)	X		0.02	426					1	PPM	LBS/DAY	0.02	426	2	
w. Tin, Total (7440-31-5)	X		< 1.5	-					1	PPM	-	< 1.5	-	2	
x. Titanium, Total (7440-32-6)	X		< 1	-					1	PPM	-	< 1	-	2	

CONTINUE ON PAGE V - 3

NY0004472

001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table per page.															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS (7)	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS (7)	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.06	-					1	PPM	-	<0.06	-	2
2M. Arsenic, Total (7440-38-2)	X			<0.005	-					1	PPM	-	<0.005	-	2
3M. Beryllium, Total, 7440-41-7)	X			<0.005	-					1	PPM	-	<0.005	-	2
4M. Cadmium, Total (7440-43-9)	X			<0.005	-					1	PPM	-	<0.005	-	2
5M. Chromium, Total (7440-47-3)	X			<0.01	-					1	PPM	-	<0.01	-	2
6M. Copper, Total (7440-50-8)	X			<0.01	-					1	PPM	-	<0.01	-	2
7M. Lead, Total (7439-92-1)	X			<0.005	-					1	PDM	-	<0.005	-	2
8M. Mercury, Total (7439-97-6)	X			<0.0002	-					1	PDM	-	<0.0002	-	2
9M. Nickel, Total (7440-02-0)	X			<0.05	-					1	PDM	-	<0.05	-	2
10M. Selenium, Total (7782-49-2)	X			<0.015	-					1	PPM	-	<0.015	-	2
11M. Silver, Total (7440-22-4)	X			<0.01	-					1	PPM	-	<0.01	-	2
12M. Thallium, Total (7440-28-0)	X			<0.05	-					1	PPM	-	<0.05	-	2
13M. Zinc, Total (7440-66-6)	X			0.01	213					1	PPM	LBS/DAY	0.03	639	2
14M. Cyanide, Total (57-12-5)	X			<0.02	-					4	PPM	-	<0.02	-	8
15M. Phenols, Total	X			<0.01	<213					4	PPM	LBS/DAY	0.01	213	8

DIOXIN

2,3,7,8-Tetra-
chlorodibenzo-P-
Dioxin (1764-01-6)

X

DESCRIBE RESULTS

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST INC. RE- QUI- RED	B. DE- LIVERED PRE- SENT	C. DE- LIVERED AD- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVG. VALUE (if available)		F. NO. OF ANAL- YSES	A. CONCENTRATION	B. MASS	G. LONG TERM AVERAGE VALUE		H. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			<100	-					1	PPB	-	<100	-	2
2V. Acrylonitrile (107-13-1)	X			<100	-					1	PPB	-	<100	-	2
3V. Benzene (71-43-2)	X			<5	-					1	PPB	-	<5	-	2
4V. Bis (Chloro- methyl) Ether (542-88-1)	X			<10	-					1	PPB	-	<10	-	2
5V. Bromoform (75-25-2)	X			<5	-					1	PPB	-	<5	-	2
6V. Carbon Tetrachloride (56-23-5)	X			<5	-					1	PPB	-	<5	-	2
7V. Chlorobenzene (108-90-7)	X			<5	-					1	PPB	-	<5	-	2
8V. Chlorodi- bromomethane (124-48-1)	X			<5	-					1	PPB	-	<5	-	2
9V. Chloroethane (75-00-3)	X			<10	-					1	PPB	-	<10	-	2
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X			<10	-					1	PPB	-	<10	-	2
11V. Chloroform (67-66-3)	X			<5	-					1	PPB	-	<5	-	2
12V. Dichloro- bromomethane (75-27-4)	X			<5	-					1	PPB	-	<5	-	2
13V. Dichloro- difluoromethane (75-71-8)	X			<5	-					1	PPB	-	<5	-	2
14V. 1,1-Dichloro- ethane (75-34-3)	X			<5	-					1	PPB	-	<5	-	2
15V. 1,2-Dichloro- ethane (107-06-2)	X			<5	-					1	PPB	-	<5	-	2
16V. 1,1-Dichloro- ethylene (75-35-4)	X			<5	-					1	PPB	-	<5	-	2
17V. 1,2-Dichloro- propane (78-87-5)	X			<5	=					1	PPB	-	<5	-	2
18V. 1,3-Dichloro- propylene (542-75-6)	X			<5	=					1	PPB	-	<5	-	2
19V. Ethylbenzene (100-41-4)	X			<5	-					1	PPB	-	<5	-	2
20V. Methyl Bromide (74-83-9)	X			<10	-					1	PPB	-	<10	-	2
21V. Methyl Chloride (74-87-3)	X			<10	-					1	PPB	-	<10	-	2

CONTINUE ON PAGE

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) NY0004472

OUTFALL NUMBER 001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE V-4															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST-ING RE-QUIR-ED	B. BE- LIEVED PRE- SENT	C. BE- LIEVED AS- SENT	A. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	A. CONCENT- TRATION	B. MASS	F. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS (7)	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENT- TRATION	(2) MASS (7)	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			4	85					1	PPB	LBS/DAY	4	85	2
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)	X			<5	-					1	PPB	-	<5	-	2
24V. Tetrachloro- ethylene (127-18-4)	X			<5	-					1	PPB	-	<5	-	2
25V. Toluene (108-88-3)	X			<5	-					1	PPB	-	<5	-	2
26V. 1,2-Trans- Dichloroethylene (156-60-5)	X			<5	-					1	PPB	-	<5	-	2
27V. 1,1,1-Tri- chloroethane (71-55-6)	X			<5	-					1	PPB	-	<5	-	2
28V. 1,1,2-Tri- chloroethane (79-00-5)	X			<5	-					1	PPB	-	<5	-	2
29V. Trichloro- ethylene (79-01-6)	X			<5	-					1	PPB	-	<5	-	2
30V. Trichloro- fluoromethane (75-69-4)	X			<5	-					1	PPB	-	<5	-	2
31V. Vinyl Chloride (75-01-4)	X			<10	-					1	PPB		<10		2
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chloropheno (95-57-8)	X			<10	-					1	PPB	-	<10	-	2
2A. 2,4-Dichloro- phenol (120-83-2)	X			<10	-					1	PPB	-	<10	-	2
3A. 2,4-Dimethyl- phenol (105-67-9)	X			<10	-					1	PPB	-	<10	-	2
4A. 4,6-Dinitro-O- Cresol (534-52-1)	X			<50	-					1	PPB	-	<50	-	2
5A. 2,4-Dinitro- phenol (51-28-5)	X			<50	-					1	PPB	-	<50	-	2
6A. 2-Nitrophenol (88-75-5)	X			<10	-					1	PPB	-	<10	-	2
7A. 4-Nitrophenol (100-02-7)	X			<10	-					1	PPB	-	<10	-	2
8A. P-Chloro-M- Cresol (59-50-7)	X			<10	-					1	PPB	-	<10	-	2
9A. Pentachloro- phenol (87-86-5)	X			<50	-					1	PPB	-	<50	-	2
10A. Phenol (108-95-2)	X			<10	-					1	PPB	-	<10	-	2
11A. 2,4,6-Tri- chlorophenol (88-06-2)	X			<10	-					1	PPB	-	<10	-	2

CONTINUED FROM THE FRONT

CONTINUED FROM THE FRONT				3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			A. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL-YES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL-YES
	A. TEST-ING RE-QUIRED	B. DE-LIVERED PRE-SENT	C. DE-LIVERED AS-SENT	(1) CONCENTRATION	(2) MASS (7)	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS (7)	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<10	-					1	PPB	-	<10	-	2
2B. Acenaphthylene (208-96-8)	X			<10	-					1	PPB	-	<10	-	2
3B. Anthracene (120-12-7)	X			<10	-					1	PPB	-	<10	-	2
4B. Benzidine (92-87-5)	X			<40	-					1	PPB	-	<40	-	2
5B. Benzo (a) Anthracene (56-55-3)	X			<10	-					1	PPB	-	<10	-	2
6B. Benzo (a) Pyrene (50-32-8)	X			<10	-					1	PPB	-	<10	-	2
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			<10	-					1	PPB	-	<10	-	2
8B. Benzo (ghi) Perylene (191-24-2)	X			<10	-					1	PPB	-	<10	-	2
9B. Benzo (k) Fluoranthene (207-08-9)	X			<10	-					1	PPB	-	<10	-	2
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			<10	-					1	PPB	-	<10	-	2
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			<10	-					1	PPB	-	<10	-	2
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			<10	-					1	PPB	-	<10	-	2
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X			<10	<213					1	PPB	LBS/DAY	15	319	2
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<10	-					1	PPB	-	<10	-	2
15B. Butyl Benzyl Phthalate (85-68-7)	X			<10	-					1	PPB	-	<10	-	2
16B. 2-Chloronaphthalene (91-58-7)	X			<10	-					1	PPB	-	<10	-	2
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X			<10	-					1	PPB	-	<10	-	2
18B. Chrysene (218-01-9)	X			<10	-					1	PPB	-	<10	-	2
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			<10	-					1	PPB	-	<10	-	2
20B. 1,2-Dichlorobenzene (95-50-1)	X			<10	-					1	PPB	-	<10	-	2
21B. 1,3-Dichlorobenzene (541-73-1)	X			<10	-					1	PPB	-	<10	-	2

CONTINUE ON PAGE V-7

CONTINUE ON PAGE V-7

NY0004472

001

CONTINUED FROM PAGE V-6

CONTINUED FROM PAGE 4-3															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST- ING. RE- QUI- RE	B. SE- LIVED SENT	C. SE- LIVED SENT	8. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		U. NO. OF ANAL- YSES	A. CON- CENT- RATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS (7)	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CON- CENTRATION	(2) MASS (7)	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichloro- benzene (106-46-7)	X			<10	-					1	PPB	-	<10	-	2
23B. 3,3'-Dichloro- benzidine (91-94-1)	X			<20	-					1	PPB	-	<20	-	2
24B. Diethyl Phthalate (84-66-2)	X			<10	-					1	PPB	-	<10	-	2
25B. Dimethyl Phthalate (131-11-3)	X			<10	-					1	PPB	-	<10	-	2
26B. Di-N-Butyl Phthalate (84-74-2)	X			<10	-					1	PPB	-	<10	-	2
27B. 2,4-Dinitro- toluene (121-14-2)	X			<10	-					1	PPB	-	<10	-	2
28B. 2,6-Dinitro- toluene (606-20-2)	X			<10	-					1	PPB	-	<10	-	2
29B. Di-N-Octyl Phthalate (117-84-0)	X			<10	-					1	PPB	-	<10	-	2
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X			<10	-					1	PPB	-	<10	-	2
31B. Fluoranthene (206-44-0)	X			<10	-					1	PPB	-	<10	-	2
32B. Fluorene (86-73-7)	X			<10	-					1	PPB	-	<10	-	2
33B. Hexachlorobenzene (118-74-1)	X			<10	-					1	PPB	-	<10	-	2
34B. Hexa- chlorobutadiene (87-68-3)	X			<10	-					1	PPB	-	<10	-	2
35B. Hexachloro- cyclopentadiene (77-47-4)	X			<10	-					1	PPB	-	<10	-	2
36B. Hexachloro- ethane (67-72-1)	X			<10	-					1	PPB	-	<10	-	2
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<10	-					1	PPB	-	<10	-	2
38B. Isophorone (78-59-1)	X			<10	-					1	PPB	-	<10	-	2
39B. Naphthalene (91-20-3)	X			<10	-					1	PPB	-	<10	-	2
40B. Nitrobenzene (98-95-3)	X			<10	-					1	PPB	-	<10	-	2
41B. N-Nitro- sodimethylamine (62-75-9)	X			<10	-					1	PPB	-	<10	-	2
42B. N-Nitrosodi- N-Propylamine (621-64-7)	X			<10	-					1	PPB	-	<10	-	2
CONTINUE ON REVERSE															

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

CONTINUED FROM THE FRONT				3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	E. CON- CENTR- ATION	F. MASS	G. LONG TERM AVERAGE VALUE		H. NO. OF ANAL- YSES
	A. TEST INC. RE- QUIR- ED	B. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	(1) CONCENTRATION		(2) MASS		(1) CONCENTRATION					(2) MASS		
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro- sodiphenylamine (86-30-6)	X			<10	-					1	PPB	-	<10	-	2
44B. Phenanthrene (85-01-8)	X			<10	-					1	PPB	-	<10	-	2
45B. Pyrene (129-00-0)	X			<10	-					1	PPB	-	<10	-	2
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	X			<10	-					1	PPB	-	<10	-	2
GC/MS FRACTION - PESTICIDES (8)															
1P. Aldrin (309-00-2)		X													
2P. α -BHC (319-84-6)		X													
3P. β -BHC (319-85-7)		X													
4P. γ -BHC (58-89-9)		X													
5P. δ -BHC (319-86-8)		X													
6P. Chlordane (57-74-9)		X													
7P. 4,4'-DDT (50-29-3)		X													
8P. 4,4'-DDE (72-55-9)		X													
9P. 4,4'-DDD (72-54-8)		X													
10P. Dieldrin (60-57-1)		X													
11P. α -Endosulfan (115-29-7)		X													
12P. β -Endosulfan (115-29-7)		X													
13P. Endosulfan Sulfate (1031-07-8)		X													
14P. Endrin (72-20-8)		X													
15P. Endrin Aldehyde (7421-93-4)		X													
16P. Heptachlor (76-44-2)		X													

PAGE V-8

CONTINUE ON PAGE V-9

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

NY0004472

001

Form Approved.

OMB No 2040-0086

Approval expires 7-31-88

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. RELIEVED PRESENT	C. RELIEVED ABSENT	8. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		U. NO. OF ANALYSES	8. CONCENTRATION	D. MASS	8. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)		X													
18P. PCB-1242 (53469-21-9)		X													
19P. PCB-1254 (11097-69-1)		X													
20P. PCB-1221 (11104-28-2)		X													
21P. PCB-1232 (11141-16-5)		X													
22P. PCB-1248 (12672-29-6)		X													
23P. PCB-1260 (11096-82-5)		X													
24P. PCB-1016 (12674-11-2)		X													
25P. Toxaphene (8001-35-2)		X													

PAGE V-9

FOOTNOTES
ITEM V. TO APPLICATION FORM 2C
INTAKE AND EFFLUENT CHARACTERISTICS
INDIAN POINT GENERATING STATION UNIT NOS. 2 AND 3
SPDES PERMIT NO. NY0004472

1. The maximum daily effluent flow value is based on the operation of all condenser cooling water and service water pumps at Unit Nos. 1, 2 and 3 and the process flows specified in Exhibit 2. The maximum 30-day effluent flow value is based on the same assumption as above, except that only one of the two service water pumps is in operation. The long term average effluent flow value is based on operating data from January 1, 1989 to October 31, 1991. The long term average intake flow is approximately equal to the long term average discharge flow of 1,361 MGD. However, for consistency of intake and discharge mass value computations, the maximum daily discharge value of 2,554 MGD less the process flows, or 2,552 MGD is reported for the long term average intake flow and is used to calculate the intake mass values.
2. The maximum daily temperature value, maximum 30-day temperature value, and long term average temperature value (intake and discharge) for the winter months (January, February, and March) are based on 1989 to 1991 continuous intake and discharge temperature monitoring data.
3. The maximum daily temperature value, maximum 30-day temperature value, and long term average temperature value (intake and discharge) for the summer months (July, August, and September) are based on 1989 to 1991 continuous intake and discharge temperature monitoring data.
4. The minimum and maximum daily pH values and minimum and maximum 30-day pH values are based on monthly pH monitoring data for the period January 1989 to October 1991, inclusive.
5. The indicated effluent total residual chlorine (TRC) concentrations are based on monitoring data for the period from January 1989 to October 1991, inclusive. The average of the maximum daily values reported each month during the period from January 1989 through October 1991 is reported here as the maximum 30-day value.
6. The presence of this pollutant in the discharge would be solely due to its presence in the intake water.
7. Mass is not calculated where both the intake and discharge concentrations for a given pollutant are non-detectable.
8. The analysis of pesticides (GC/MS Fraction - Pesticides) is not required for steam electric power plants (See Form 2C Instructions, Table 2C-2). The presence of pesticides in the discharge would be solely due to their presence in the intake water.

INDIAN POINT GENERATING STATION
UNIT NOS. 2 AND 3
SPDES PERMIT NO. NY0004472

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
Form 2C Application Supplement
Steam Generating Facility (SIC 4911)

1. Facility Description:

Type of Plant: X Baseload Peaking Steam

Capacity Factor :

<u>Unit No.</u>	<u>1990</u>	<u>1991</u>	<u>1992 (Projected)</u>
2	66.5	47.5	87
3	59.3	87.2	74

Retirement Date: The NRC operating licenses for the Station will expire after the SPDES renewal permit, which is the subject of this application.

2. Thermal Discharges - Provide the following information, and specify which outfall(s) it relates to:

- a. Discharge temperatures. Include 5% and 1% exceedance and maximum.

For Outfall 001, based on DMR data from January 1989 to October 1991:

o Maximum	102.5°F
o 1% Exceedance	99.0°F
o 5% Exceedance	97.8°F

- b. Range of measured discharge temperature differentials above receiving water. Include maximum differential for winter and summer.

For Outfall 001, based on DMR data from January 1989 to October 1991:

	<u>Minimum</u>	<u>Maximum</u>
o Winter (January, February, March)	0.0°F	34.6°F
o Summer (July, August, September)	0.0°F	23.6°F

- c. Type of cooling used (that is, once-through, cooling towers, etc.)

Once-through cooling for all units.

- d. Discharge and intake configuration in plan and profile, showing fluctuations in water levels due to seasonal conditions and tidal variations. Include distance from shore in drawing.

See EPA Form 1 for Unit Nos 1 and 2, Figures 2-9.

- e. Maximum rate of temperature change at the point of discharge (planned and emergency shutdown).

<u>Condition</u>	<u>Maximum Rate of Temperature Change</u>
Planned Shutdown	5.5°F/hour
Emergency Shutdown	13.8°F/hour

- f. Chemical additives: (list any not included in ICS)

See Table 1 "Indian Point Generating Station Chemical Additives", which includes all chemicals approved for use at the Station. The chemicals were either identified in previous permit applications or were approved for use by DEC during the term of the permit. Although some of the approved chemicals have not been used in the last few years, they may be used in the future.

- g. Steam condenser tube material and feedwater heater tube material.

<u>Unit</u>	<u>Steam Condenser Tube Material</u>	<u>Feedwater Heater Tube Material</u>
2	Titanium and Admiralty Brass	Stainless Steel, Copper-Nickel and Admiralty Brass
3	Titanium	Stainless Steel

3. Material Storage - For any runoff or leachate from any material storage and disposal areas (such as: coal and ash piles, sludge storage, etc.) or drainage from any contaminated yard areas (transformer areas) attach a brief description of types and quantities of materials stored, size of storage area, design and actual flows, type of treatment, wastewater characteristics (include metals, pH, sulfides) and show the location of any discharge points on the site drawing required by Form 2C.

Indicate the handling method for ash and pyrites.

No contaminated runoff. See EPA Form 2F for stormwater discharge information.

4. Effluent Source - For each of the outfalls described in Form 2C, indicate the wastewater substreams that comprise the discharge (i.e., floor drains, bottom ash transport water, cooling tower blowdown, etc.). (Section 2C-II).

See EPA Form 2C, Item II and Form 2C, Exhibit Nos. 1 and 2.

5. Sludge Removal and Disposal - if sludge is created as a result of processing or treatment, describe quantities produced per year and briefly indicate how and where it will be disposed of.

All radioactive waste treatment sludge is removed and disposed of in accordance with Nuclear Regulatory Commission regulations. No other sludge generated.

6. Plant Fuel - Indicate the types and quantities of fuel(s) burned per year. Include sulfur content.

<u>Unit No. 2</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Uranium Dioxide	*	*	*
No. 6 Fuel Oil (gallons)**	22,287,525	1,321,979	1,171,656
No. 2 Fuel Oil (gallons)**	1,741,312	169,506	519,118

* Fuel usage, effluents and disposal are regulated by the Nuclear Regulatory Commission pursuant to the Federal Atomic Energy Act.

** No. 6 fuel oil contains 0.37% sulfur by weight and No. 2 fuel oil contains 0.20% sulfur by weight).

<u>Unit No. 3</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Uranium Dioxide	*	*	*
No. 6 Fuel Oil (gallons)**	not avail.	418,000	101,000
No. 2 Fuel Oil (gallons)**	not avail.	6,000	6,000

* Fuel usage, effluents and disposal are regulated by the Nuclear Regulatory Commission pursuant to the Federal Atomic Energy Act.

** No. 6 fuel oil contains 0.37% sulfur by weight and No. 2 fuel oil contains 0.30% sulfur by weight).

7. Discharge Termination - Locate on site drawing or flow diagram any discharge points which have been sealed or cut since the effective date of the existing permit.

Internal waste stream 001A was terminated in September 1989. The discharge pipe leading from the Sewage Treatment Plant to the discharge canal was sealed. In addition, the stormwater discharge previously identified as Outfall 006 has been terminated. The site area previously served by Outfall 006 now discharges any stormwater via Outfall 007.

8. Studies and Reports - During the permit period currently in effect, did you conduct any aquatic monitoring programs either at this facility or in the associated waterbody.

☒ Yes ☐ No If yes, provide the title of each study and/or report describing the study.

See Attachment A for list of reports/studies.

9. Permit Violations - Summarize any permit violations during the period of this permit and indicate any corrective actions to eliminate them and the probability of recurrence.

Con Edison and NYPA reported all excursions above permit limitations in the monthly Discharge Monitoring Reports (DMRs). The cause and corrective action for these excursions were provided in Non-compliance Reports submitted with the DMRs. During the period from October 1, 1987 to October 31, 1991, there were 66 permit limit excursions at the Station. All but three of these exceedances occurred at the Sewage Treatment Plant (Outfall 001A), which has been closed since September 1989. Sewage from the Station is now connected to the Village of Buchanan sanitary sewer system. The remaining three permit exceedances are summarized below:

<u>Date</u>	<u>Outfall</u>	<u>Parameter</u>	<u>Cause</u>	<u>Corrective Action</u>
3/89	Combined Waste Streams 001B, C, D, E, G, K & L	Total Suspended Solids	Sample collected during unit startup	Commencement of more representative sampling protocols
8/91	001J	Oil & Grease	Equipment leak at NYPA's Unit No. 3 floor drains	Leak repaired
9/91	001J	Oil & Grease	Equipment leak at NYPA's Unit No. 3 floor drains	Leak repaired

These exceedances are not expected to be a recurring problem.

10. Cooling Water Intake:

- a. During the permit period currently in effect, did you make any changes to the location, design, operation, construction or capacity of the cooling water intake?

☒ Yes ☐ No If yes, provide description below.

At the Unit No. 1 intake, new dual flow screens were installed at the service water intake bay, replacing the old screens. The conventional traveling screens at the condenser cooling water intake bay were removed. At the Unit No. 2 and Unit No. 3 intake, the conventional traveling screens were replaced by Ristroph screens.

- b. During the permit for which you are applying, do you anticipate any changes to the location, design, operation, construction, or capacity of the cooling water intake?

☐ Yes ☒ No If yes, provide description below.

- c. With respect to condenser cooling water intake screens, when was the last time (approximate) screens at this facility received a major overhaul (major defined as one in which part costs exceed \$10,000)?

The Ristroph screens were installed at the Unit No. 3 intake in October 1990 and at the Unit No. 2 intake in June, 1991.

- d. Do you anticipate the need to overhaul any of the condenser cooling water intake screens during the next 5 years?

X Yes ___ No If yes, describe the anticipated work.

Each Ristroph screen (Unit 2 and Unit 3) will receive one maintenance overhaul during the next 5 years.

- e. Provide a brief summary of the quantities of intake cooling system spare parts such as chains, screen baskets, and bushings that are currently on hand, their approximate cost and the reorder level for each.

See Attachment B.

TABLE 1
INDIAN POINT GENERATING STATION
CHEMICAL ADDITIVES
SPDES PERMIT NY0004472

Name of Substance	Annual Usage		Unit	Amount On Hand
	1990	1991		
Aluminum Sulfate	12,560	11,896	lbs	910
Ammonium Hydroxide (30%)	2,240	3,360	lbs	740
Betz Corr-Shield 736	0	0	-	0
Boric Acid	163,273	110,443	lbs	67,140
Calgon C-8	0	3,000	lbs	250
Cyclohexylamine	0	0	-	0
Disodium Phosphate	480	238	lbs	400
Drewgard 100	3	6	gals	100
Drewgard 315	0	0	-	0
Hydrazine (35%)	3,642	3,207	gals	1,950
Laundry Detergent	0	0	-	0
Lithium Hydroxide	72	72	lbs	148
Mogul WS 144	0	0	-	0
Morpholine	102,400	102,400	lbs	5,000
Nalco 8325	6,000	6,000	lbs	4,800
Nalco 39m	<100	460	lbs	1,100
Potassium Chromate	21	20	lbs	20
Potassium Dichromate	3	0	lbs	5
Potassium Hydroxide (45%)	345	345	lbs	95
Sodium Carbonate	780	650	lbs	3,700
Sodium Hydroxide (50%)	54,877	53,973	gals	7,260
Sodium Sulfite	0	0	-	0
Sulfuric Acid	58,177	58,440	gals	14,400
Sodium Hypochlorite	37,978	86,130	gals	21,150
Surfactant	20	20	lbs	50
Trisodium Phosphate	0	0	-	0

ATTACHMENT A

Aquatic/Biological Monitoring Reports: October 1987 - Present

1. FINAL REPORTS

I. Impingement

- A. Indian Point Monitoring
- B. Impingement Special Studies

II. Entrainment

- A. Indian Point Monitoring
- B. Entrainment Special Studies

III. Fish Stock Assessment

- A. General
- B. Striped Bass
- C. White Perch
- D. Atlantic Tomcod
- E. Gear Evaluation

IV. Striped Bass Hatchery

- A. Hatchery Production
- B. Hatchery Evaluation

V. Outage and Flow Restriction Evaluation

VI. Miscellaneous

2. STUDIES IN PROGRESS

3. SETTLEMENT AGREEMENT ANNUAL REPORTS

1. FINAL REPORTS

I. Impingement

A. Indian Point Monitoring

Hudson River Ecological Study in the Area of Indian Point.
1990 Annual Report.
EA Engineering, Science, and Technology, October 1991.

Hudson River Ecological Study in the Area of Indian Point.
1989 Annual Report.
Lawler, Matusky & Skelly Engineers, July 1990.

Hudson River Ecological Study in the Area of Indian Point.
1988 Annual Report.
EA Engineering, Science, and Technology, November 1989.

Hudson River Ecological Study in the Area of Indian Point.
1987 Annual Report.
EA Engineering, Science, and Technology, July 1988.

Hudson River Ecological Study in the Area of Indian Point.
1986 Annual Report.
Normandeau Associates, Inc., August 1987.

B. Impingement Special Studies.

Letter Report on Live Fish Studies for Siting the Indian Point
Unit 2 Ristroph Screen Fish Return Line Discharge.
Consolidated Edison, December 1990.

Indian Point Units 2 and 3 Ristroph Screen Fish Return System
Prototype Evaluation and Siting Study.
Consolidated Edison, July 1990.

Letter Report on Evaluation of Indian Point Impingement Systematic
Sampling Designs. Consolidated Edison, 1990.

Survival of Fish Impinged on a Ristroph - Type Traveling Screen
at Indian Point Generating Station. Summer and Fall, 1985.
Consolidated Edison, June 1986.

II. Entrainment

A. Indian Point Monitoring

Indian Point Generating Station Entrainment Abundance Program.
1987 Annual Report.
Normandeau Associates, Inc., May 1988.

B. Entrainment Special Studies

Addendum To Evaluation of Entrainment Abundance Sampling Designs.
Schwager, S.J., G. Casella, D.S. Robson, W.D. Youngs, February 1990.

Indian Point Generating Station 1988 Entrainment Survival Study.
EA Engineering, Science, and Technology, August 1989.

III. Fish Stock Assessment

A. General

1989 Year Class Report for the Hudson River Estuary Monitoring Program.
EA Engineering, Science, and Technology, March 1991.

1988 Year Class Report for the Hudson River Estuary Monitoring Program.
EA Engineering, Science, and Technology, August 1990.

1986 and 1987 Year Class Report for the Hudson River Estuary Monitoring Program.
Lawler, Matusky & Skelly Engineers, June 1989.

1985 Year Class Report for the Hudson River Estuary Monitoring Program.
Versar, Inc., October 1987.

B. Striped Bass

Robustness of the Hudson River Striped Bass Autoregressive Model and Hudson River Striped Bass Indices of Abundance.
Coastal Environmental Services, Inc., July 1991.

Hudson River Striped Bass Tag Recovery Program.
March 1987 - February 1988.
Hudson River Foundation, October 1989.

Hudson River Striped Bass Stock Assessment Workshop Final Report.
Volume 1 and Volume 2.
Coastal Environmental Services, Inc., March 1989.

1986 Hudson River Striped Bass Tag Recovery Program.
Hudson River Foundation, April 1988.

III. Fish Stock Assessment

C. White Perch

Hudson River Estuary White Perch Adult and Subadult Stock Assessment Study. Fall 1988.
Lawler, Matusky & Skelly Engineers, October 1989.

Hudson River Estuary White Perch Adult and Subadult Stock Assessment Study. Fall 1987.
Lawler, Matusky & Skelly Engineers, August 1988.

D. Atlantic Tomcod

Abundance and Stock Characteristics of the Atlantic Tomcod Spawning Population in the Hudson River, Winter 1989-90.
Normandeau Associates, Inc., May 1991.

Abundance and Stock Characteristics of the Atlantic Tomcod Spawning Population in the Hudson River, Winter 1988-89.
Normandeau Associates, Inc., November 1990.

Abundance and Stock Characteristics of the Atlantic Tomcod (Microgadus tomcod) Spawning Population in the Hudson River, Winter 1987-1988.
Normandeau Associates, Inc., September 1988.

Abundance and Stock Characteristics of the Atlantic Tomcod (Microgadus tomcod) Spawning Population in the Hudson River, Winter 1985-1986.
Normandeau Associates, Inc., September 1987.

E. Gear Evaluation

Evaluation of Hudson River Beach Seine Programs Conducted By the New York State Utilities and the New York Department of Environmental Conservation.
Versar, Inc., February 1988.

IV. Striped Bass Hatchery

A. Hatchery Production

Hudson River Striped Bass Hatchery. 1990 Overview.
EA Engineering, Science, and Technology, May 1991.

Hudson River Striped Bass Hatchery. 1989 Overview.
EA Engineering, Science, and Technology, April 1990.

Hudson River Striped Bass Hatchery. 1988 Overview.
EA Engineering, Science, and Technology, April 1989.

Hudson River Striped Bass Hatchery. 1987 Overview.
EA Engineering, Science, and Technology, January 1988.

Hudson River Striped Bass Hatchery. 1986 Overview.
EA Engineering, Science, and Technology, 1987.

Hudson River Striped Bass Hatchery. 1985 Overview.
EA Engineering, Science, and Technology, 1986.

B. Hatchery Evaluation

1988-89 Hudson River Striped Bass Hatchery Evaluation
Normandeau Associates, Inc., January 1990.

Distribution of Hatchery Striped Bass in the Hudson River, 1987.
Lawler, Matusky & Skelly Engineers, June 1989.

Distribution of Hatchery Striped Bass in the Hudson River.
Lawler, Matusky & Skelly Engineers, October 1988.

1987-88 Hudson River Striped Bass Hatchery Evaluation.
Normandeau Associates, Inc., July 1988.

V. Outage and Flow Restriction Evaluation

Assessment of Mitigation Value of Outage and Flow Reduction.
Phase IV Final Report.
Coastal Environmental Services, Inc., April 1991.

ETM/EIM Applications for Outage Evaluation at Three Hudson River
Generating Stations.
Lawler, Matusky & Skelly Engineers, February 1988.

Evaluating the Effectiveness of Outages: Phase III Report.
Versar, Inc., November 1987.

VI. Miscellaneous

Workplans for Projecting Ecological Consequences and Assessing
Economic Benefits and Costs of Potential Alternative Actions to
Mitigate Power Plant Impacts On Hudson River Fish Populations.
Coastal Environmental Services, Inc., July 1991.

2. STUDIES IN PROGRESS

- 1990 Year Class Report for the Hudson River Estuary Monitoring Program.
- Hudson River Striped Bass Hatchery. 1991 Overview.
- Indian Point Unit 2 Ristroph Screen Return Line Siting and Prototype Evaluation Study.

3. SETTLEMENT AGREEMENT ANNUAL REPORTS

Con Edison's Settlement Agreement Annual Reports:

1986 - October 31, 1986.
1987 - October 30, 1987.
1988 - November 1, 1988.
1989 - October 27, 1989.
1990 - October 26, 1990.

New York Power Authority's Settlement Agreement Annual Reports

1986 - October 30, 1986.
1987 - October 30, 1987.
1988 - October 25, 1988.
1989 - October 26, 1989.
1990 - November 1, 1990.

ATTACHMENT B
INTAKE SCREENS SPARE PARTS
UNIT NO. 2

52 EA.	BASKET ASSEMBLIES.....	\$147,500
208 FT.	CARRIER CHAIN ASSEMBLIES WITH BASKET.....	\$ 58,954
	ATTACHMENT ANGLE	
52 -	SETS OF BASKET FASTENERS.....	\$ 3,557
1 -	DRIVE CHAIN.....	\$ 2,472
1 -	DRIVE SPROCKET WITH SHEAR PIN HUB AND.....	\$ 1,064
	LEVER	
1 -	DRIVEN SPROCKET.....	\$ 2,450
2 -	HEADSHAFT ANTI-FRICTION TAKE UP BEARINGS....	\$ 8,466
12 -	SPROCKET TOOTH INSERTS.....	\$ 630
2 -	HEADSHAFT TAKE-UP SUSPENSION SYSTEMS.....	\$ 7,548
12 -	NORMAL DRIVE SHEAR PINS.....	\$ 102
12 -	BALANCED DRIVE SHEAR PINS.....	\$ 102
12 -	TEST SHEAR PINS.....	\$ 102
13 -	SPRAY NOZZLES - FISH.....	\$ 992
26 -	SPRAY NOZZLES - DEBRIS.....	\$ 1,984
2 -	FOOT SPROCKET ASSEMBLIES.....	\$ 8,780
2 -	FOOTSHAFT SLEEVES.....	\$ 462
104 EA.	CARRIER CHAIN ROUND PARTS (PINS, ..	\$ 25,032
	ROLLERS, BUSHINGS)	
1 -	SET OF FRONT AND REAR DEBRIS SHIELDS.....	\$ 9,201
1 -	ONE MOTOR/REDUCER.....	\$ 30,887
2 -	STOODY BUSHINGS AND SLEEVES.....	\$ 2,600
1 -	SET OF REPLACEABLE WEAR BARS.....	\$ 3,248
	=====	
	TOTAL PRICE FOR SPARE PARTS.....	\$316,133

ATTACHMENT B
INTAKE SCREENS SPARE PARTS
UNIT NO. 3

DESCRIPTION	QUANTITY	PART NUMBER	DRAWING NO.	S/P TOTAL	STATUS IN WEEKS
REDUCER NUTTALL 88Q	1	SPEC	H604825-166	25,189.00	14-16
COUPLING	1	SPEC	H604825-166	533.00	6-8
MOTOR 7 1/2 HP 2 SPEED	1	SPEC	H604825-166	5,165.00	14-16
DRIVE SPROCKET 7T-1245 W/SHEAR PIN HUB, W/BUSHING	1	H64825-170 MK 100	H604825-170	1,224.00	8-10
TEST SHEAR PIN	24	H604825-167 MK 100	H604825-167	816.00	2-4
RUN SHEAR PIN	48	H604825-167 MK100	H604825-167	1,632.00	2-4
BALANCE SHEAR PIN	24	H604825-167 MK 102	H604825-167	816.00	2-4
DRIVE CHAIN	1	841-28150	RX1245 59 PITCHES	2,472.00	6-8
BASKETS 12'-0"	52	H604825-112 MK 100	H604825-112	153,244.00	14-16
WEAR PAD ONLY UMW MAT'L	52	H604825-109 MK 100	H604825-109	857.00	4-6
CARRIER CHAIN	RH 52 PITCH LH 52 PITCH	H604825-125 MK 100 & 200	H604825-125	58,954.00	16-18
BASKET CH ATTACH BOLT 316 S.S.	416	H604825-254 IT.48	H604825-254	2,795.00	2-4
NYLOC NUT 216 S.S.	416	H604825-254 IT.49	H604825-254	988.00	2-4
FRONT DEBRIS HEADER	N/A				
REAR DEBIRS HEADER	N/A				
DUAL INSIDE FISH HEAD	N/A				
OUTSIDE FISH HEADER	N/A				
DEBRIS NOZZLES	40	403-50266-47	403-50266	1,984.00	14-16
FISH NOZZLES	40	SPEC		1,984.00	2-4
FISH NOZZLES-V-JET	40	901-83		226.00	2-4
PRESSURE SWITCH	1	H604825-182	H604825-182	753.00	6-8
GLOBE VALVE 3"	1	SPEC 902-9		927.00	
GLOBE VALVE 4"	1	SPEC 901-75		2,224.00	8-10
GLOBE VALVE 6"	1	SPEC 901-76		3,913.00	8-10
THIRD BALL VALVE 4"	2	SPEC		12,240.00	8-10

DESCRIPTION	QUANTITY	PART NUMBER	DRAWING NO.	S/P TOTAL	STATUS IN WEEKS
PRESS GAGE-DEBIRS	1	SPEC		746.00	6-8
PRESS GAGE-FISH	1	SPEC		746.00	6-8
TRD BALL VALVE 3"	1	SPEC		3,263.00	8-10
HEAD SECTION	N/A				
UPPER INT. SECTION	N/A				
INTERMEDIATE SECTION	N/A				
BOOT SECTION	N/A				
TRACK WEAR BARS FRAMES	1 SET	SEE PAGE 5		3,248.00	14-16
RH EXT SHOE	4	60352-U	70294	336.00	10-12
LH EXT SHOE	4	60352-V		336.00	10-12
HEADSHAFT 9" DIAMETER	1	H604825-118 MK 100		20,680.00	12-14
HEAD SPROCKETS W/INSERTS	2	H604825-113 MK 100	H604825-113	18,007.00	14-16
TOOTH INSERTS	24	H604825-129 MK 100	H604825-129	630.00	8-10
SHIELD PLATES	N/A				
ANTI-FRIC. T-U BEARING	4	603-81357-80	603-81357	8,466.00	14-16
ZERO SPEED INDICATOR LIMIT SWITCH	1	303-747-1	303-747	800.00	4-6
DRIVEN SPROCKET 37T-1245	1	H604825-115 MK 100	H604825-115	2,450.00	8-10
SO. END CAP	2	H604825-258 MK 101	H604825-259	133.00	6-8
KEYS HEAD SHAFT	4	H604825-117 IT.10 & 11	H604825-117	163.00	6-8
SUSPENSION SYSTEM	2	603-81378-80	603-81378	7,548.00	14-16
T.U. SCREWS 1 3/4 DIA.	2	H604825-117 IT.6	H604825-117	821.00	8-10
CAPSTAN	2	503-82087-83	503-82087	1,323.00	8-10
STUB SHAFT 2 15/16 DIA X 2'-4 1/2 FT SHAFT W/O LINER	4	H604825-116 IT.1	H604825-116	2,589.00	8-10
CENTER SHAFT	2			1,770.00	8-10

DESCRIPTION	QUANTITY	PART NUMBER	DRAWING NO.	S/P TOTAL	STATUS IN WEEKS
FOOT SPROCKETS	4	H604825-114 MK 100	H604825-114	8,780.00	14-16
FOOTSHAFT BEARINGS	4	365753-5	365753	462.00	10-12
COMPRESSION COUPLING	N/A				
SET COLLARS	4	603-219-200	603-219	146.00	6-8
UPPER FRONT HOUSING	N/A				
UPPER REAR HOUSING	N/A				
LOWER REAR HOUSING	N/A				
FRONT DEBRIS SHIELD	N/A	?			
REAR FLAP SEAL	N/A				
HEATER SCREEN	2	SPEC		6,201.00	6-8
CHAIN TENSION IND. LOAD CELL	1 SET	H604825-129	H604825-129	3,698.00	14-16
CHAIN GUARD	N/A				
CIRCUIT BREAKER H604825-891-3-9/10	2	FDB 3060 C370HMCPI	WEST CUTLER HAM	741.00	6-8
INDICATING METER -891-3-53	1	H604825-896-6		290.00	6-8
ELAPSE TIME METER -891-3-52	1	HK410A6	EAGLE SIGNAL	149.00	6-8
INDICATING METER -891-3-54	1	H604825-891-7		373.00	6-8
INDICATING LIGHT RED LENS -891-3-36	1	103-1331-403	DIALIGHT	127.00	6-8
INDICATING LIGHT BLUE LENS -891-3-36	1	103-1334-403	DIALIGHT	25.00	6-8
INDICATING LIGHT AMBER LENS -891-3-34	1	103-1333-403	DIALIGHT	25.00	6-8
INDICATING LIGHT WHITE LENS -891-3-35	1	103-1335-403	DIALIGHT	25.00	6-8
3 POSITION SEL. SWITCH -891-3-19	1	CR104PSG34891	G.E.	61.00	6-8
2 POSITION SEL. SWITCH -891-3-20	1	CR104PSG21891	G.E.	61.00	6-8
CONTROL POWER TRANS -891-3-30	1	E320	HEVI-DUTY	106.00	6-8
PLUG IN RELAYS -891-3-25	3	RH38-UL	IDEC	61.00	6-8
11 PIN BLADE SOCKETS	11	SR38-05	IDEC	37.00	6-8

DESCRIPTION	QUANTITY	PART NUMBER	DRAWING NO.	S/P TOTAL	STATUS IN WEEKS
TIME DELAY RELAY -891-3-26	1	RTE-BN1-AC120V	IDEC	231.00	6-8
TIME DELAY RELAY	1			77.00	6-8
11 PIN SOCKETS	11	RS3P-06	IDEC	40.00	6-8
600 V FUSE 25A -891-3-45	6	KTK-25	BUSSMAN	25.00	6-8
3A600V FUSE -891-3-47	6	FNQ-R3	BUSSMAN	17.00	6-8
600 V FUSE 1A -891-3-46	6	FNQ-R 8/10	BUSSMAN	17.00	6-8
LEVEL CONTROLLER	1 SET			10,178.00	6-8
TRANSDUCER -891-3-55	1	H604825-891-8		2,052.00	6-8
CAPILLARY BULB -891-3-56	1	H604825-891-9		648.00	6-8
HEATER CONTRACTOR	1	PART OF SCREEN		426.00	6-8
3KW RADIANT HEATER	1	HEATER		2,728.00	6-8
2 SPD SEP WINDING COIL	1	NA		1,061.00	6-8
ELECTRICAL COUNTER	1	NA		133.00	6-8
PANEL HEATER -891-3-49	1	OT-715	CHROMALOX	52.00	6-8
THERMOSTAT -891-3-50	1	WR-50	CHROMALOX	216.00	6-8
GFI RECEPTICAL -891-3-62	1	6599-X1	LEVITON	53.00	6-8
INDICATING LAMP GREEN -891-3-33	1	103-1332-403	DIALIGHT	50.00	6-8
IND. LIGHT -891-3-31	9	103-3101-05-103	DIALIGHT	55.00	6-8
BLUB -891-3-37	9	656 6W		15.00	6-8
UPPER BOOT WEAR BARS	1 SET	FRONT H604825-173-104 REAR H604825-173-105	H604825-173	480.00	12-16
INTER. WEAR BARS 4 REQ'D PER INTER 2 INTER - TOTAL 8	1 SET	H604825-173 MK 105	H604825-173	1,250.00	12-16
UPPER INTER WEAR BARS 4 REQ'D	1 SET	H604825-173	H604825-173	480.00	12-16
8 PIN SOCKET	4	891-3 ITEM 28		40.00	6-8
11 PIN BLADES SOCKET	7	891-3 ITEM 48		40.00	6-8
TOTAL				394,723.00	

NYSDEC SUPPLEMENTAL INSTRUCTIONS - ATTACHMENT

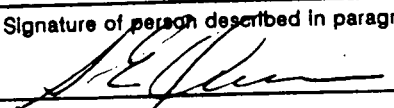
Your SPDES permit, when issued, may require you to periodically submit a Discharge Monitoring Report (DMR). The reports must be signed as follows:

1. for a corporation: by a responsible corporate officer. For the purposes of this section, a responsible corporate officer means:
 - (i) a president, secretary, treasurer, or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making function for the corporation, or
 - (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures; or
2. for a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. for a municipality, state, federal, or other public agency: by either a principal or executive officer or ranking elected official. A principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
4. a duly authorized representative of the person described in items (1), (2) or (3). A person is a duly authorized representative only if:
 - (i) the authorization is made in writing by a person described in paragraph (1), (2) or (3);
 - (ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - (iii) the written authorization is submitted to the Department.

Changes to authorization: If an authorization under paragraph (4) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (4) must be submitted to the Department prior to or together with any reports to be signed by an authorized representative.

THE TABLE BELOW MUST BE COMPLETED AND FILED WITH YOUR APPLICATION. The person identified on the first line will be listed in Part I of the issued permit under the DMR MAILING ADDRESS section and must be a person described in paragraph (1), (2), (3) or (4). The table may be used to designate an authorized representative as described in paragraph (4).

THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT.

Name and/or Title of person responsible for signing and submitting DMR's:		Phone:	
General Manager, Nuclear Power Generation		(914) 526-5221	
Mailing Name: *			
Robert T. Keegan, Director, Water and Waste Management			
Mailing Address:	City:	State:	Zip Code:
4 Irving Place, Room 300	New York	NY	10003
Name of person described in paragraph (1), (2) or (3):		Title:	
Stephen Quinn		General Manager Nuclear Power Generation	
Signature of person described in paragraph (1), (2), or (3):			Date:
			3/26/92

Failure to submit this completed page with your application will result in your application being declared incomplete. This will delay issuance of your permit and authorization to discharge.

NEW YORK POWER AUTHORITY

NYSDEC SUPPLEMENTAL INSTRUCTIONS - ATTACHMENT

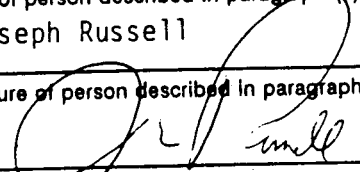
Your SPDES permit, when issued, may require you to periodically submit a Discharge Monitoring Report (DMR). The reports must be signed as follows:

1. for a corporation: by a responsible corporate officer. For the purposes of this section, a responsible corporate officer means:
 - (i) a president, secretary, treasurer, or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making function for the corporation, or
 - (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures; or
2. for a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. for a municipality, state, federal, or other public agency: by either a principal or executive officer or ranking elected official. A principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
4. a duly authorized representative of the person described in items (1), (2) or (3). A person is a duly authorized representative only if:
 - (i) the authorization is made in writing by a person described in paragraph (1), (2) or (3);
 - (ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - (iii) the written authorization is submitted to the Department.

Changes to authorization: If an authorization under paragraph (4) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (4) must be submitted to the Department prior to or together with any reports to be signed by an authorized representative.

THE TABLE BELOW MUST BE COMPLETED AND FILED WITH YOUR APPLICATION. The person identified on the first line will be listed in Part I of the issued permit under the DMR MAILING ADDRESS section and must be a person described in paragraph (1), (2), (3) or (4). The table may be used to designate an authorized representative as described in paragraph (4).

THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT.

Name and/or Title of person responsible for signing and submitting DMR's:		Phone:	
General Manager, Nuclear Power Generation, Con Edison		(914) 526-5221	
Mailing Name: *			
Robert T. Keegan, Director, Water and Waste Management, Con Edison			
Mailing Address:	City:	State:	Zip Code:
4 Irving Place, Room 300	New York	NY	10003
Name of person described in paragraph (1), (2) or (3):		Title:	
Joseph Russell		Resident Manager Indian Point Unit 3, NYPA	
Signature of person described in paragraph (1), (2), or (3):			Date:
			3/23/92

Failure to submit this completed page with your application will result in your application being declared incomplete. This will delay issuance of your permit and authorization to discharge.

DISCHARGE MONITORING REPORTS

* The General Manager, Nuclear Power Generation, at Con Edison's Indian Point Unit Nos. 1 and 2 will sign all DMR's for the entire site, including the New York Power Authority's (NYPA) Indian Point Unit No.3. However, all monthly DMR forms should be sent to Robert T. Keegan of Con Edison, the facility contact identified in Item IV of Con Edison's EPA Form 1. All other correspondence related to this SPDES permit should be sent to Robert T. Keegan of Con Edison and John M. Kahabka of NYPA, The designated facility contact identified in Item IV of NYPA's EPA Form 1.

INDUSTRIAL CHEMICAL SURVEY

PART I.

Please refer to
attached table

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: INDUSTRIAL CHEMICAL SURVEY.

COMPANY NAME Consolidated Edison Company of New York, Inc.		SIC CODE (if known) 4931	OFFICE USE ONLY
COMPANY MAILING ADDRESS 4 Irving Place, Room 300	CITY New York	STATE NY	ZIP CODE 10003
PLANT NAME (if different) Indian Point Generating Station Units 1 and 2	CONTACT NAME Robert T. Keegan	TELEPHONE Area (212) 460-4833	
PLANT ADDRESS (if different) Street Broadway and Bleakley Ave	CITY Buchanan	STATE NY	ZIP CODE 10511
PRINCIPAL BUSINESS OF PLANT Electric Generation			

NOTE: (If parent company, give name and addresses of all divisions, subsidiaries, etc. located in New York State. A separate questionnaire is to be completed and submitted for each.)

PART II
Discharge Information

WATER	1. Does your plant discharge liquid wastes to a municipally owned sanitary sewer system? Name of System <u>Village of Buchanan</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Is your facility permitted to discharge liquid wastes under a State (SPDES) or Federal (NPDES) permit? Permit Number <u>0004472</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	3. Do you discharge liquid wastes in any other manner? Explain _____	
	If any of the above are "Yes": a. Do you discharge process or chemical wastes - (i.e. water used in manufacturing including direct contact cooling water and scrubber water)? b. Do you discharge non-contact cooling water? c. Do you discharge collected storm drainage only? d. Do you discharge sanitary wastes only?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
AIR	1. Does your facility have sources of possible emissions to the atmosphere?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	2. Enter Location and Facility Code as shown on your Air Pollution Control Application for Permits and Certification (If applicable) <u>See EPA Form 1, Item X</u> 5 5 2 2 0 1 1 5 0 4	
SOLID & CONCENTRATED LIQUID WASTES	1. List Name and Address of Firm (Including yourself) removing wastes other than office and cafeteria refuse. Name <u>See Attachment A to Industrial Chemical Survey</u> Address _____ City _____ State _____ Zip Code _____ Name _____ Address _____ City _____ State _____ Zip Code _____	Active <input type="checkbox"/> Inactive <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	2. List Location(s) of Landfill(s) owned and used by your facility. 1 <u>None</u> 2 _____	
PESTICIDES	1. Does this facility: Manufacture Pesticides or Pesticide Product Ingredients? Produce Pesticides or Pesticide Product Ingredients? Formulate Pesticides? Repackage Pesticides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBSTANCES OF CONCERN
(Refer to attached TABLE I)

[illegible][illegible]

SIGNATURE (Owner, Partner, or Officer)

DATE _____

3	24	95
---	----	----

NAME (Printed or Typed) _____

TITLE Assistant Vice President

5. Internal Affairs & Equip Supply

ATTACHMENT A
INDUSTRIAL CHEMICAL SURVEY
CON EDISON
INDIAN POINT GENERATING STATION
UNIT NOS. 1 & 2

List of Firms Removing Waste*

1. IT Environmental Services
7 Cragwood Road
Avenal, New Jersey
2. Chemical Waste Disposal Corp
42-14 19th Ave
Astoria, New York
3. Chemical Waste Management
11700 S. Stoney Island Ave
Chicago, Illinois
4. APF Carting, Inc.
Lincoln Place
Mt. Kisco, New York
5. PASCAP Metal Hauling
4250 Boston Road
Bronx, New York
6. Fred Cook, Inc.
P.O. Box 71
Montrose, New York

*Transporters of radioactive waste material are not identified since disposal of such material is regulated by the Nuclear Regulatory Commission pursuant to the Federal Atomic Energy Act. Transporters of other materials may change from year to year depending on contractual arrangements.

INDUSTRIAL CHEMICAL SURVEY

PART I.

Please refer to
attached table

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: INDUSTRIAL CHEMICAL SURVEY.

COMPANY NAME New York Power Authority		SIC CODE (If known) 4931	OFFICE USE ONLY	
COMPANY MAILING ADDRESS 123 Main Street		CITY White Plains	STATE New York	ZIP CODE 10601
PLANT NAME (If different) Indian Point Generating Station Unit No. 3	CONTACT NAME John Kahabka		TELEPHONE Area (914) 681-6308	
PLANT ADDRESS (If different) Street Broadway and Bleakley Avenue	CITY Buchanan	STATE New York	ZIP CODE 10511	
PRINCIPAL BUSINESS OF PLANT Electric Generation				

NOTE: (If parent company, give name and addresses of all divisions, subsidiaries, etc. located in New York State. A separate questionnaire is to be completed and submitted for each.)

PART II
Discharge Information

WATER	1. Does your plant discharge liquid wastes to a municipally owned sanitary sewer system? Name of System <u>Village of Buchanan</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
	2. Is your facility permitted to discharge liquid wastes under a State (SPDES) or Federal (NPDES) permit? Permit Number <u>0004472</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
	Do you discharge liquid wastes in any other manner? <u>Explain</u>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
	If any of the above are "Yes": a. Do you discharge process or chemical wastes - (i.e. water used in manufacturing including direct contact cooling water and scrubber water)? b. Do you discharge non-contact cooling water? c. Do you discharge collected storm drainage only? d. Do you discharge sanitary wastes only?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
AIR	1. Does your facility have sources of possible emissions to the atmosphere?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
	2. Enter Location and Facility Code as shown on your Air Pollution Control Application for Permits and Certification (If applicable)		see note in Attachment A														
SOLID & CONCENTRATED LIQUID WASTES	1. List Name and Address of Firm (Including yourself) removing wastes other than office and cafeteria refuse.		Active <input type="checkbox"/> Inactive <input type="checkbox"/>														
	<table border="1"> <tr> <td>Name</td> <td colspan="3">See Attachment A</td> </tr> <tr> <td>Address</td> <td>City</td> <td>State</td> <td>Zip Code</td> </tr> <tr> <td>Name</td> <td colspan="3"></td> </tr> <tr> <td>Address</td> <td>City</td> <td>State</td> <td>Zip Code</td> </tr> </table>			Name	See Attachment A			Address	City	State	Zip Code	Name				Address	City
Name	See Attachment A																
Address	City	State	Zip Code														
Name																	
Address	City	State	Zip Code														
PESTICIDES	2. List Location(s) of Landfill(s) owned and used by your facility.		Active <input type="checkbox"/> Inactive <input type="checkbox"/>														
	<table border="1"> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> </table>			1		2											
1																	
2																	
Does this facility:																	
Manufacture Pesticides or Pesticide Product Ingredients?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
Produce Pesticides or Pesticide Product Ingredients?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
Formulate Pesticides?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
Repackage Pesticides?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
2. EPA Establishment Number			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														

SUBSTANCES OF CONCERN
(Refer to attached TABLE I)

[illegible]

If you use chemicals of unknown composition, list trade name or other identification, name of supplier and complete information.					PURPOSE OF USE (State whether produced, reacted, blended, packaged, distributed, or longer used, etc.)
NAME OF SUBSTANCE	AVERAGE ANNUAL USAGE	AMOUNT NOW ON HAND	(LBS.) CAL. LB.		SUPPLIER
See Table 1 of Form 2C Application Supplement					

NATURAL ORDER. PART. of Officers

DATE 3/21/42-

Printed or Typed

John Kelly

FILE

~~Director Rad. and Enviro. Support~~

ATTACHMENT A
INDUSTRIAL CHEMICAL SURVEY
NEW YORK POWER AUTHORITY
INDIAN POINT GENERATING STATION
UNIT NO. 3

List of Firms Removing Waste*:

1. Rollins Environmental Services
US 322 & I295
Bridgeport, New Jersey
2. APTUS
Highway 169
Coffeyville, Kansas
3. Chemical Waste Management
11700 S. Stoney Island Avenue
Chicago, Illinois

*Transporters of radioactive waste material are not identified since disposal of such material is regulated by the Nuclear Regulatory Commission pursuant to the Federal Atomic Energy Act. Transporters of other materials may change from year to year depending on contractual arrangements.

**NYPA applied for a Certificate to Operate an Air Contamination Source from DEC in March 1989. A certificate has not been issued.

Form
2F
NPDES



United States Environmental Protection Agency
Washington, DC 20460

**Application for Permit To Discharge Stormwater
Discharges Associated with Industrial Activity**

Paperwork Reduction Act Notice
Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

[illegible]

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (name)
001M	41	16	07	73	57	19	Hudson River
002	41	16	17	73	56	53	" "
003	41	16	17	73	56	53	" "
004	41	16	16	73	56	57	" "
005	41	16	12	73	57	17	" "
007	41	16	10	73	57	19	" "
008	41	16	04	73	57	26	" "
009	41	16	03	73	57	26	" "

II. Improvements

<p>1. Improvements</p> <p>A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.</p>		<p>No</p>	<p>4 Final</p>
---	--	-----------	----------------

[illegible]

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

II. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present area used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff; materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility. See Figure 1 to EPA Form 2F

Page 1 of 3

Continue on Page

IV. Narrative Description of Pollutant Sources

- A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
	See Attachments 1A and 1B to EPA Form 2F				

- B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed, in the last three years, to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

See Attachments 2A and 2B to EPA Form 2F

- C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F.1
	None other than the containment devices and management practices discussed in Item IV.B.	

V. Nonstormwater Discharges

- A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
See Attachment 3 to EPA Form 2F		

- B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test:

Review of drawings and visual inspections of outfalls during dry weather.
Inspections conducted on 6/20/91, 10/15/91, and 11/12/91 for Con Edison outfalls and 2/13/92, 2/28/92, and 3/2/92 for NYPA outfalls.

VI. Significant Leaks or Spills

- Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

See Attachments 4A and 4B to EPA Form 2F

Continued from Page 2

Discharge Information

B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.

Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E: Potential discharges not covered by analysis - Is any pollutant listed in Table 2F-2 a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (list all such pollutants below)

☒ No (go to Section IX)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (list all such pollutants below)

☒ No (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Camo Laboratories, Inc.	367 Violet Avenue Poughkeepsie, N.Y. 12601	(914)473-9200	All except pH and TRC

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name & Official Title (type or print)

Raymond R. Kimmel, Jr., Asst Vice Pres., Env. Affairs & Fuel Supply

John J. Kelly, Director Rad. and Enviro. Support

C. Signature

B. Area Code and Phone No

(212)460-2211

(914) 681-6298

D. Date Signed

3/26/92 / 3 31 92

NY0004472

Approval expires 5-31-92

II. Discharge Information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. (1)

Instructions for additional details: (1)						
Pollutant and CAS Number (if available)	Maximum Values (include units) (mg/l)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants *
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	< 2	< 2			1	
Biological Oxygen Demand (BOD5)	21	7			1	
Chemical Oxygen Demand (COD)	97	75			1	
Total Suspended Solids (TSS)	23	30			1	
Total Kjeldahl Nitrogen	1.9	3.4			1	
Nitrate plus Nitrite Nitrogen	0.44	0.38			1	
Total Phosphorus	0.5	0.03			1	
pH	Minimum 6.6	Maximum 6.6	Minimum	Maximum		

Part B. List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each pollutant. See the instructions for additional details and requirements. (1)

[illegible]

Continue on Reverse

[illegible]

* See note on p. VII-1

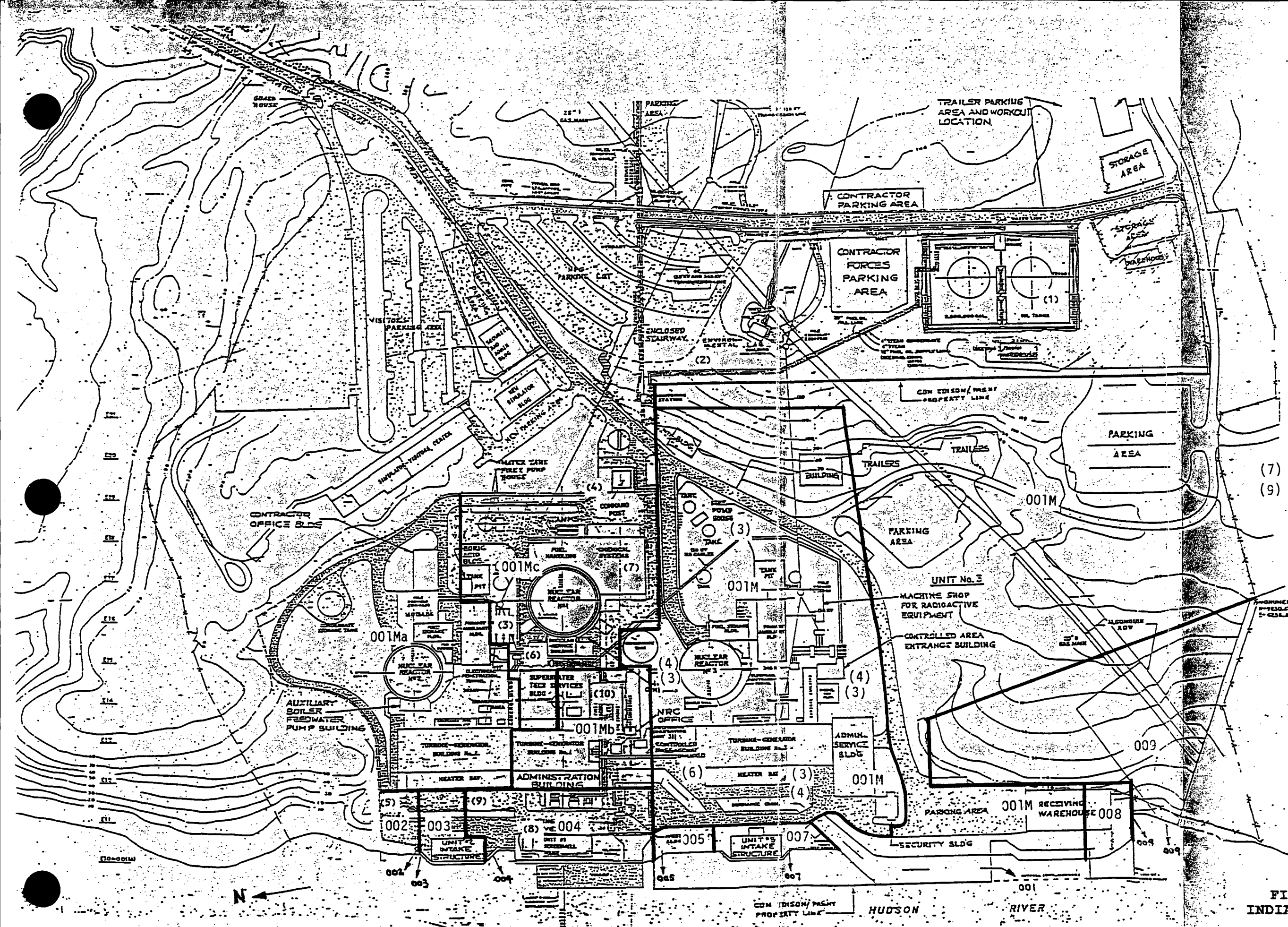
Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.							
1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)
12/13/91 to 12/14/91	22 hrs 15 min.	0.51	120	0.8 gal/min (2)	26,576 gals (3)	fall	rain

Container was used to measure quantity of runoff collected per minute.

ITEM VII, EPA FORM 2F
INDIAN POINT GENERATING STATION
UNIT NOS. 1, 2 & 3

Footnotes

1. Only Con Edison's Outfall 004 out of the stormwater outfalls identified in Item I of EPA Form 2F was sampled since all the outfalls are substantially identical pursuant to 40 CFR Part 122.21 (g)(7). See the letters of August 22, 1991 and March 13, 1992 from Con Edison and the New York Power Authority, respectively, to DEC Region 3.
2. The maximum flow rate during the rain event only reflects the first three hours, the duration of sampling required, instead of the entire 22 hours and 15 minutes.
3. The estimated total flow from the rain event is based on the total drainage area of 1.9 acres and a total rainfall of 0.51 inches with a runoff coefficient of 1.0.



- PAVED AREAS
- (1) NO. 6 FUEL OIL STORAGE
 - (2) NO. 6 FUEL OIL PIPELINE
 - (3) DIESEL FUEL STORAGE
 - (4) FILL CONNECTION FOR UNDERGROUND DIESEL FUEL STORAGE
 - (5) UNIT 2 LOADING DOCK
 - (6) FILL CONNECTIONS FOR INDOOR ACID AND CAUSTIC STORAGE
 - (7) INDOOR HAZARDOUS/RADIOACTIVE WASTE (MIXED WASTE) STORAGE
 - (8) DELIVERY FOR INDOOR SODIUM HYPOCHLORITE STORAGE
 - (9) GAS CYLINDERS
 - (10) FILL CONNECTION FOR INDOOR NO. 2 FUEL OIL STORAGE

**SI
APERTURE
CARD**

Also Available On
Aperture Card

FIGURE 1 — EPA FORM 2F
INDIAN POINT GENERATING STATION
SITE MAP

9204160204-02

ATTACHMENT 1A

ITEM IV-A, EPA FORM 2F
CON EDISON
INDIAN POINT GENERATING STATION
UNIT NOS. 1 & 2

<u>Outfall*</u>	<u>Area of Impervious Surface</u>	<u>Total Area Drained</u>
001M**	12 acres	12 acres
002	0.4 acres	0.4 acres
003	0.6 acres	0.6 acres
004	1.9 acres	1.9 acres

*The stormwater drainage system and the outfalls described herein only serve the secured area inside the fence. Stormwater runoff outside the secured area is not collected or conveyed to the river via the outfalls below.

**001M actually consists of three separate stormwater outlets entering the discharge canal. Each of the outlets serves a different drainage area, identified on the site map (Figure 1, EPA Form 2F) as 001Ma, 001Mb, and 001Mc. Secondary floor and equipment drainage from Unit No. 2 (Part of Outfall 001J) is conveyed to the Station's discharge canal via one of the manholes within Drainage Area 001Ma.

ATTACHMENT 1B

ITEM IV-A, EPA FORM 2F
NEW YORK POWER AUTHORITY
INDIAN POINT GENERATING STATION
UNIT NO. 3

<u>Outfall</u>	<u>Area of Impervious Surface</u>	<u>Total Area Drained</u>
001M*	20.8 acres	77.8 acres
005	0.2 acres	0.2 acres
007	0.6 acres	0.6 acres
008	0.2 acres	0.2 acres
009	0 acres	35 acres

*Outfall 001M consists of several stormwater outlets entering the discharge canal. Some of these pipes also convey internal process waste streams. Internal waste streams which are mixed with stormwater before entering the discharge canal are 001E, 001G, and 001J.

ATTACHMENT 2A

**ITEM IV-B, EPA FORM 2F
CON EDISON
INDIAN POINT GENERATING STATION
UNIT NOS. 1 & 2**

With the exception of two No. 6 fuel oil storage tanks and three diesel fuel storage tanks, all hazardous waste, fuel oil and chemical (see Table 1 of DEC Form 2C Application Supplement for a list of the chemicals) storage tanks/areas at Unit Nos. 1 and 2 are located indoors.

No. 6 fuel oil is used for the Station's house service boilers. The oil is stored in two aboveground steel tanks each with a capacity of approximately 2,250,000 gallons. The tanks are located within adjacent earthen dikes on a hill southeast of the Station (see Location (1) on the site map). The capacity of each containment moat is 110% of the tank's volume. No. 6 fuel oil is delivered to the Station by barge on the average of once or twice a year, each delivery normally consists of approximately 1.5 to 2 million gallons. Since both tanks are completely surrounded by containment moats, there is no stormwater runoff from the moated areas. Most of the stormwater collected inside the moats is evaporated, while some of it may seep into the ground. All fuel oil deliveries are manned at both the pumping and receiving points. In addition, the tanks are provided with alarms and automatic shutoff valves to prevent overfills. The fuel oil facilities are inspected daily by Station personnel so that corrective actions could be taken in the event leaks or spills are observed.

The three earthen mounded diesel fuel storage tanks are located on the east side of the Diesel Generator Building (see Location (3) on the site map). Each tank has a capacity of 7,700 gallons. The surface area surrounding the tanks is paved with a layer of crushed stone approximately six inches deep. There is a permanent containment basin under the truck fill connectors to contain any spills during deliveries. During deliveries, the entire operation is visually monitored.

The Station has No. 2 fuel oil and lubricating oil storage tanks located inside buildings. A permanent containment basin is built under the No. 2 fuel oil fill connectors. Drip pans are used during transfer of lubricating oil. Deliveries are all visually monitored.

All the chemicals used by the Station are stored inside various buildings. There are outdoor fill connectors for the delivery of sulfuric acid and sodium hydroxide (see Location (6) on the site map) as well as for sodium hypochlorite (see Location (8) on the site map). These deliveries must follow strict written procedures which include safety precautions and the immediate cleanup of any spills. Deliveries for other chemicals are also monitored.

The following pesticides and fertilizers are used at Indian Point Unit No. 2: Pyrid Residual Concentrate, Gold Crest Vengeance, Cynoff WP, Prentox Carbamate, Dursban 2E, Demon-EC, Pramitol 5ps, and Roundup. All these pesticides/fertilizers are applied by contractors on various locations outside the secured area (see Figure 1 of EPA Form 2F). There is no storage of pesticides or fertilizers on site.

**ATTACHMENT 2B
ITEM IV-B, EPA FORM 2F
NEW YORK POWER AUTHORITY
INDIAN POINT GENERATING STATION
UNIT NO. 3**

With the exception of 2 chemical storage tanks (chlorine and morpholine) and one small diesel fuel tank, all hazardous waste, fuel oil and chemical storage tanks/area at Unit 3 are located indoors or within vaults.

The 1500 gallon chlorine storage tank is located between the Condensate Polisher and Intake Buildings in the northwest quadrant of the site. The chlorine is used in the treatment of cooling waters. Morpholine is stored in a 1500 gallon tank outside the northwest corner of the Unit 3 turbine building. Both of these tanks are surrounded by berms.

A small (275 gallon) diesel fuel storage tank is located on the upper eastern portion of the site adjacent to the meteorological tower. This tank stores diesel fuel for the emergency diesel generator associated with the meteorological monitoring facility.


All fuel oil and chemical deliveries are manned (i.e., visually inspected) at all times. Transfers of fuel and chemicals are performed in accordance with site procedures, including security and safety procedures, as well as those which require the immediate cleanup of any spills. Routine inspections for leaks and spills are performed in accordance with the site's Spill Prevention, Control and Countermeasure Plan.

Indian Point 3 is not a registered pesticide business. Neither pesticides nor fertilizers are used at IP3, aside from the occasional commercial products used for offices, etc.


ATTACHMENT 3

ITEM V-A, EPA FORM 2F
INDIAN POINT GENERATING STATION
UNIT NOS. 1, 2, & 3

I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form@C or Form 2E application for the outfall.

Signature 
Raymond R. Kimmel, Jr.
Assistant Vice President
Environmental Affairs & Fuel Supply
Con Edison

Date 3/31/92

Signature 
John J. Kelly
Director Radiological and
Environmental Support
New York Power Authority

Date 3/26/92

ATTACHMENT 4A

ITEM VI, EPA FORM 2F
CON EDISON
INDIAN POINT GENERATING STATION
UNIT NOS. 1 & 2

<u>Date</u>	<u>Location</u>	<u>Material</u>	<u>Amount</u>
06/02/89	In discharge canal from Unit #2 lube oil system.	lube oil	30 gals
06/08/89	On soil from fill line of underground diesel fuel storage tank near Security Building.	diesel fuel	unknown
06/12/89	In discharge canal; residual oil from 6/2 spill.	lube oil	4 gals
01/25/90	Oil film in discharge canal; probably from new simulator construction site where oil from heavy construction equipment was conveyed to discharge canal by stormwater runoff.	oil	5 gals
02/15/90	In discharge canal; due to breakage on emergency diesel generator engine block. Oil spilled on floor, entered floor trench and eventually to discharge canal.	lube oil	5 gals
03/04/90	On ground near Auxiliary Boiler Feedwater Pump Building. Some of the oil might have entered storm drain leading to discharge canal.	diesel fuel	1 gal
05/16/90	Lube oil from main turbine bearing oil system leaked. A small quantity entered a storm drain leading to the discharge canal.	lube oil	10 gals

ATTACHMENT 4B

ITEM VI, EPA FORM 2F
NEW YORK POWER AUTHORITY
INDIAN POINT GENERATING STATION
UNIT NO. 3

- 7/21/89 (NYSDEC Spill #89-03974) Loss of Turbine Lube Oil
~3500 gallons released via postulated break in underground piping. Investigation had no real results (i.e., break was not found).
Reported to NYSDEC and remedial action plan promised. A remedial action plan was implemented - no sign of released product; it should be contained in the fill within the foundation (foundation goes to bedrock).
In a 12/5/89, letter NYSDEC closed out this item but required immediate notification if migration of product ever indicated.
- 1/16/90 EDG Sump activation to Canal and River
Spill of oil to canal and loss of about 50 gallons to the River. NYSDEC and Coast Guard notified. Coast Guard inspected and filed report #1077. NYSDEC notified, Spill #8909901. A SOR was written - notification to NRC within 4 hours. Contractor personnel worked throughout the week to contain and cleanup spill. On 1/23/91 Coast Guard closed this out.
- 8/16/90 Leaking Tanker
An old (abandoned) tanker was discovered leaking to the site grounds. Site personnel contained product and drummed up oily dirt for disposal. Contractor cleaned out and scrapped tanker.
NYSDEC notified - Spill #9005431 (also, an SOR written).
- 12/19/90 Turbine Building Sump activation to Canal
No oil to river - NYSDEC not notified. SOR # 90-3-213. (See SOR followup report.)
- 5/25/91 R4D4 Sludge Tank Overflow to Canal
Loss of signal from sludge tank caused overflow of oil from R4D4 to tank, with subsequent spillage to turbine hall floor. Oil entered floor drains and then canal (about 20 gallons in canal). Emergency cleanup contractors contained and cleaned up spill. (Note: due to tides and delay in contractor getting on-site [not badged] the cleanup took a number of days and cost \$15,000.) The NYSDEC was notified and SOR # 91-3-103 written. A sheen was noted in the river the next morning and the Coast Guard notified, however, when they arrived there was no sheen and no report filed.
- 1991 Chronic sheen in discharge canal
This is resulting in notice of violation being included in a number of monthly DMRs (SPDES Permit reports).