



Long
Island
Power
Authority

Shoreham Nuclear Power Station
P.O. Box 628
North Country Road
Wading River, N.Y. 11792

MAR 1 01993

LSNRC-2037

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

SPDES Permit Modification
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Ref: (1) LIPA letter LSNRC-1959 dated June 15, 1992 to U.S.
Nuclear Regulatory Commission; subject: LIPA Submittal
of its Application for New York State Pollutant
Discharge Elimination System (SPDES) Permit

Gentlemen:

The enclosed SPDES Permit modification is hereby submitted to the Commission in accordance with Section 3.2 of the Shoreham Nuclear Power Station (SNPS) Environmental Protection Plan (Appendix B to NPF-82).

On June 15, 1992, LIPA notified the Commission (Ref. 1) that a request had been made to the New York State Department of Environmental Conservation (DEC) to modify the LILCO SNPS SPDES Permit No. 1-4722-00108/00001-1, and that LIPA had been operating under the LILCO SPDES permit. On February 2, 1993, the DEC issued revised SPDES Permit 1-4722-00108/00001-1 to LILCO and new SPDES Permit 1-4722-01075/00001-0 to LIPA.

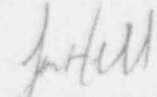
Enclosed is a copy of the new LIPA SPDES permit and transmittal letter from the DEC. LIPA received these documents on February 8, 1993.

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PDR ADOCK 05000322
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JE23

Should you have any question regarding the enclosed permit,
please do not hesitate to contact my office.

Very truly yours,



L. M. Hill
Resident Manager

RAP/ab
Enclosure

cc: L. Bell
C. L. Pittiglio
T. T. Martin
R. Nimitz

New York State Department of Environmental Conservation
Region 1 Headquarters
SUNY, Building 40, Stony Brook, NY 11794

(516) 751-7900

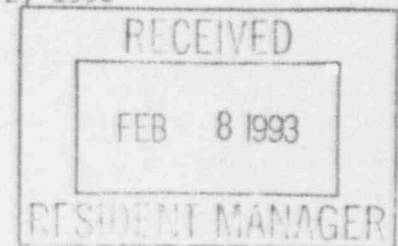


Thomas C. Jorling
Commissioner

Date: February 2, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Long Island Power Authority
200 Garden City Plaza
Garden City, NY 11530



Attn: Les Hill, Resident Mgr.

Re: NYSDEC permit #1-4722-01075/00001-0
SPDES facility #NY0225860

Dear

In conformance with the requirements of the State Uniform Procedures (Article 70, ECL) and its implementing Regulations (6NYCRR, Part 621) we are enclosing your SPDES Permit identified above. Please carefully read all general and other conditions and the schedule contained in the Permit to insure compliance during the term of the Permit.

This Permit should be kept available on the premises of the discharging facility at all times.

Very truly yours,

David DeRidder

David DeRidder
Deputy Regional Permit Administrator

DDR/RNT/rw
cc: R. Hannaford
file

ref:spdescov

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT
Special Conditions (Part I)

Industrial Code: 4911
Discharge Class (CL): 01
Toxic Class (TX): N
Major Drainage Basin: 17
Sub Drainage Basin: 02
Water Index Number: LIS
Compact Area: _____

SPDES Number: NY-0225860
DEC Number: 1-4722-01075/00001-0
Effective Date (EDP): 03/01/93
Expiration Date (ExDP): 03/01/98
Modification Date(s): _____
Attachment(s): General Conditions (Part II) Date: 11/90

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act as amended, (33 U.S.C. Section 1251 et. seq.) (hereafter referred to as "the Act").

PERMITTEE NAME AND ADDRESSAttention: Les Hill/Resident Manager

Name: Long Island Power Authority
Street: 200 Garden City Plaza
City: Garden City

State: NY Zip Code: 11530

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: Shoreham Nuclear Power Station
Location (C,T,V): Shoreham (V) County: Suffolk
Facility Address: North Country Road
City: Shoreham State: NY Zip Code: 11786
NYTM - E: _____ NYTM - N: 4
From Outfall No.: 001 at Latitude: 40° 58' 28" & Longitude: 72° 52' 03"
into receiving waters known as: Long Island Sound Class: SA

and; (list other Outfalls, Receiving Waters & Water Classifications)

Outfalls 001A, 001B, 002 & 003: Long Island Sound - Class SA
Outfalls 051 & 056: Groundwater - Class GA
Suffolk County Tax Map Number: District: 200 Section: 003
Block: 1 Lot: 1

In accordance with the effluent limitations, monitoring requirements and other conditions set forth in Special Conditions (Part I) and General Conditions (Part II) of this permit.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS?

Mailing Name: Shoreham Nuclear Power Station
Street: North Country Road
City: Shoreham State: NY Zip Code: 11786
Responsible Official or Agent: Les Hill Phone: (516) 929-8300

This permit and the authorization to discharge shall expire on midnight of the expiration date shown and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for a permit renewal no less than 180 days prior to the expiration date shown above.

DISTRIBUTION: R. Hannaford
R. Schneck
A. Yerman / J. Myslinski
J. Maloney
USEPA Chief Reg II

Deputy Regional	
Permit Administrator: <u>David DeRidder</u>	
Address: <u>Building 40, SUNY</u> <u>Stony Brook, New York 11790-2356</u>	
Signature: <u>David DeRidder</u>	Date: <u>02/02/93</u>

SPDES #: 0225860Part 1, Page 2 of 6**FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning March 1, 1993
and lasting until March 1, 1998

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
<u>Outfall 001: Temporary Cooling/Circulating Service Water</u>					
Flow	NA	Monitor	GPD	Quarterly	Calculate
Temperature	NA	Monitor	°F	Quarterly	Grab
Total Residual Chlorine	Monitor	0.2	mg/l	Continuous ¹	Recorded ¹
<u>Outfall 001A: Demineralizer Regeneration Wastes - Make-up Demineralizer System (Non-Radioactive)</u>					
Suspended Solids	NA	50	mg/l	Monthly	Grab
Oil & Grease	NA	15	mg/l	Quarterly	Grab
pH (Range)	NA	6.0 - 9.0	SU	Continuous	Each Batch
Conductivity	NA	50	microhms/cm	Continuous	Each Batch
<u>Outfall 001B: Radwaste Facility - (Demineralizer Regeneration Wastes)</u>					
Iron	NA	Monitor	mg/l	Monthly	Grab
Suspended Solids	NA	50	mg/l	Monthly	Grab
Oil & Grease	NA	15	mg/l	Monthly	Grab
pH (Range)	NA	6.0 - 9.0	SU	Monthly	Grab
Radioactivity ²	NA ²	NA ²	NA ²	NA ²	NA ²
<u>Outfall 002: Chlorine Monitor, Fire Pump House Floor Drains and Storm Drains</u>					
Flow	NA	Monitor	GPD	Quarterly	Estimated
Oil & Grease	NA	15	mg/l	Monthly	Grab
<u>Outfall 003: Oil Water Separator (Auxiliary Boiler Blowdown, EDG Floor Drains, Control Building Drains); Oil Water Separator (Cold Emergency Diesel Generator Building); Roof & Yard Drains^{3,4}</u>					
Flow	NA	Monitor ⁵	GPD	2/Month	Estimated
Iron	NA	Monitor	mg/l	2/Month	Grab
Suspended Solids	NA	50	mg/l	2/Month	Grab
Oil & Grease	NA	15	mg/l	2/Month	Grab
pH (Range)	NA	6.0 - 9.0	SU	2/Month	Grab

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning March 1, 1993
and lasting until March 1, 1998

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
<u>Outfall 051 & 056: Sanitary Wastes only (to replace former SPDES Permit Numbers NY 013 2969, NY 005 5829</u>					

NO MONITORING REQUIRED.

* Monitoring and limits effective only when demineralized water is discharged with a pH less than 6.

FOOTNOTES:

- ¹ In the event of continuous monitoring failure monitoring will be conducted by taking a grab "sample type" and "measurement frequency" will be one every eight hours for Outfall 001, during periods of service water chlorination, EPA approved methods for testing as per 40 CFR 136 will be utilized.
- ² Permittee will submit radioactivity monitoring reports required by the Nuclear Regulatory Commission for the monitoring requirement.
- ³ This waste stream is to be sampled when there is no discharge from storm drains.
- ⁴ Samples shall be taken at two week intervals.
- ⁵ Flow is limited to the design capacity for the oil/water separator (100 GPM).

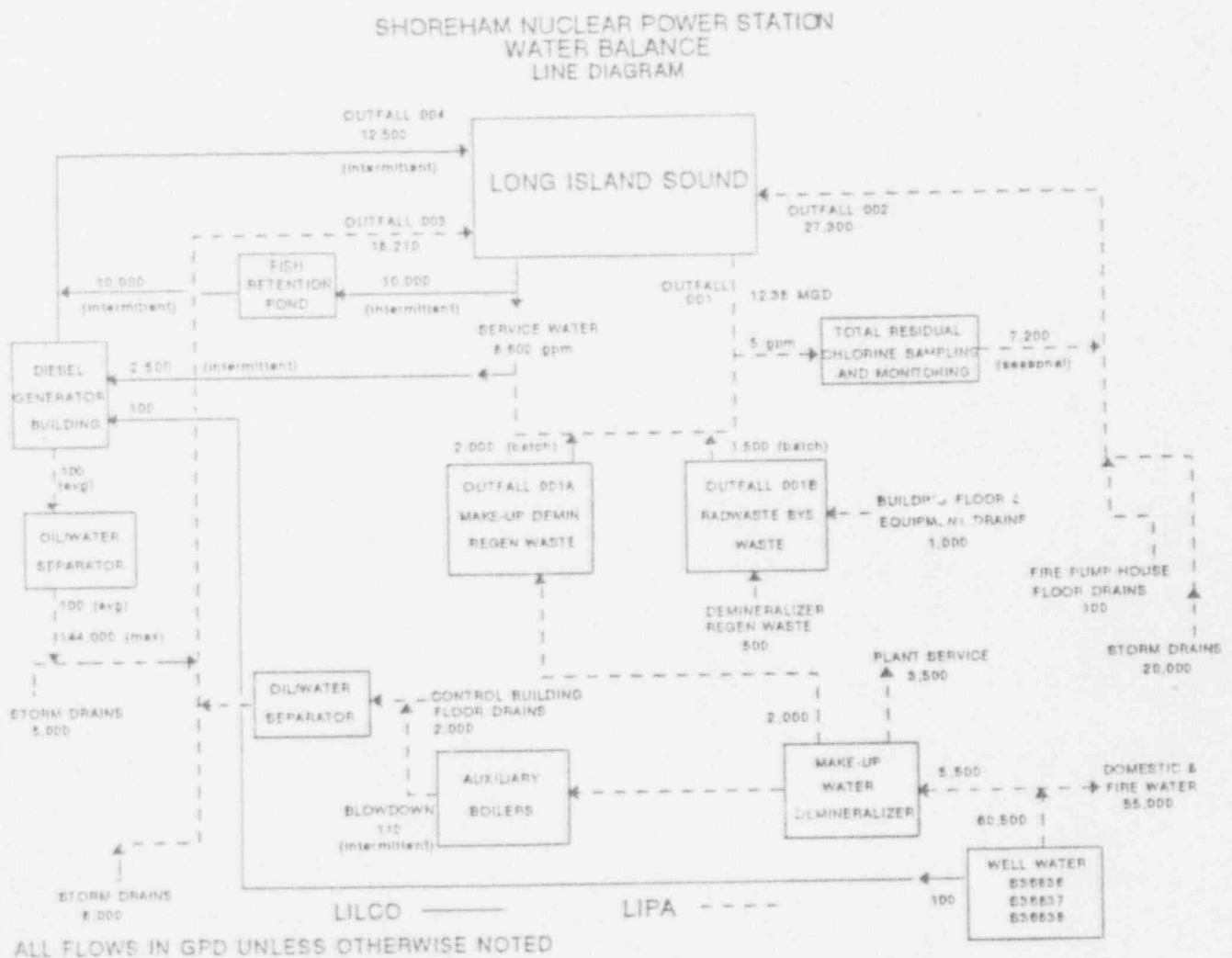
DEFINITIONS OF DAILY AVERAGE AND DAILY MAXIMUM

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) indicated below: (Show sampling locations and outfalls with sketch or flow diagram as appropriate)



ADDITIONAL REQUIREMENTS

1. There shall be no discharge of PCB's from this facility.
2. There shall be no discharge of boiler cleaning wastewaters from this facility.
3. No biocides, corrosion control chemicals, or other water treatment chemicals are authorized for use by the permittee, except for those listed in the permit application. If other water treatment chemical additives are contemplated, application for their approval must be made to the Department.
4. Company shall file for approval with the Department at its offices in Stony Brook and in Albany a report on all water treatment, corrosion inhibitor, anti-fouling, slimicide, biocide, and boiler cleaning chemicals or compounds. Such report shall identify each product by chemical formula and/or composition, annual consumption, frequency of use, maximum use per incident, effluent concentration, available bioassay and toxicity limits and procedures for use.
5. The location, design, construction and capacity of this facility's cooling water intake structure shall reflect the best technology available for minimizing adverse environmental impact. A determination of BAT in regards to the intake structure will be made following NYSDEC review of the post operational monitoring studies.
6. The water temperature at the surface of Long Island Sound shall not be raised more than 4 Fahrenheit degrees from October through June not more than 1.5 Fahrenheit degrees from July through September over that which existed before the addition of heat of artificial origin, except that within a radius of 300 feet or equivalent area from the point of discharge, this temperature may be exceeded.
7. Chlorination of service water is allowed for 24 hours per day.
8. Corrosion inhibitor, NALCO Sure-Cool 1355, is the only chemical additive authorized for use. Use of any other chemical additives requires prior written approval from NYSDEC.
9. The modified permit is for the specific purpose of the decommissioning of the Shoreham Nuclear Power Station. Any new activities not associated with the decommissioning of this facility, including the conversion to an alternate fuel or recommissioning this facility to use nuclear fuel will require a modification of this permit and/or reapplication to this Department.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. Also;

[X] (if box is checked) monitoring information required by this permit shall be summarized and reported by submitting completed and signed Discharge Monitoring Report (DMR) forms for each one month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

Send the original (top sheet) of each DMR page to:

N.Y.S. Department of Environmental Conservation
Division of Water
Bureau of Wastewater Facilities Operations
50 Wolf Road
Albany, New York 12233-3506
Phone: (518) 457-3790

Send the second copy (third sheet) of each DMR page to:

Suffolk County Department of Health Services
15 Horseblock Place
Farmingville, New York 11738
Attn: Jim Maloney, P.E.

Include a copy of the laboratory analysis with the SCDHS and DEC Region 1 copies.

Send the first copy (second sheet) of each DMR page to:

N.Y.S. Department of Environmental Conservation
Regional Water Engineer - Region 1
Building 40 - SUNY @ Stony Brook
Stony Brook, New York 11790-2356

- c) A monthly "Wastewater Facilities Operation Report..." (form 92-15-7) shall be submitted (if box is checked) to the [] Regional Water Engineer and/or [] County Health Department or Environmental Control Agency listed above.
- d) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).
- e) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- f) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.
- g) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- h) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- i) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.