

LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR FOWER STATION P.O. BOX 616, NORTH COUNTRY ROAD + WADING RIVER, N.Y. 11792

JOHN D. LEONARD, JR. VICE PREBIDENT - OFFICE OF CORPORATE BERVICES AND VICE PRESIDENT - OFFICE OF NUCLEAR

SNRC-1789

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FEB 1 4 1991

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

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

Gentlemen:

Enclosed is a copy of LILCO's request to modify the Shoreham Nuclear Power Station SPDES Permit #0026344. This request is submitted to the NRC or information in accordance with Section 3.2 of the SNPS Environmental Protection Plan (Appendix B, NPF-82).

Should you have any questions concerning this request or need additional information, please do not hesitate to call my office.

Very truly yours,

J. D. Leonard, Jr. Vide President, Office of Corporate Services and Vice President, Office of Nuclear

GJG/ab Enclosure

CO: S. Brown T. T. Martin B. Norris

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Enclosure to SNRC-1789



1.

LONG ISLAND LIGHTING COMPANY

Mr. Robert Greene Regional Permit Administrator New York State Department of Environmental Conservation Building 40, SUNY Stony Brook, New York 11794

Re: Shoreham Nuclear Power Station SPDES Permit #0026344 SPDES Permit Modification Request



Dear Mr. Greene:

The Long Island Lighting Company is seeking several modifications of the SPDES permit for the above referenced facility. In light of the sale and impending transfer of the Shoreham Nuclear facility, several of the modifications requested are based on the economical savings involved and the fact that this facility has been defueled and will never exceed 5% power operation, of which several current permit requirements are based. Since the plant is being prepared for decommissioning, several operating conditions have changed resulting in decreased discharges at some outfalls. The requested modifications will not have any adverse impact on the environment.

Enclosed please find five copies of a request to modify the SPDES permit for the above referenced facility.

If you should have any questions or require additional information, please contact Mr. Christopher Nikitopoulos of my staff at (516) 420-6341.

Sincerely,

madison N. Milkows

Madison N. Milhous, PE Manager Environmental Engineering Department

CNN/cs

Enclosure

cc: Messrs. Pau? Kolakowski, NYSDEC, Albany Andrew Yerman, NYSDEC, SUNY at Stony Brook James Maloney, SCDHS bcc: Messrs. T. Gillete M. P. Tucker P. Biancone G. Gisonda S. V. Dalton C. N. Nikitopoulos Ms. L. J. Bergeron R. K. Amoroso ENVED Filt #31000B07

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Outfall 001- Circulating Cooling Water/Service Water

Total Residual Chlorine

The cooling system for condensing steam and for cooling heat exchangers is a once-through system. Water for cooling is obtained from Long Island Sound.

Cooling water for the Circulating Water (CW) system is supplied by four circulating water pumps, each having a capacity of approximately 145,000 gpm.

Cooling water for the Service Water (SW) system, which is used in indirect cooling cycles for plant heat exchanges, is supplied by four SW pumps. Each pump has a capacity of 8,600 gpm. Normally, three pumps are in service.

The SW and CW flows combine in the discharge tunnel from which the water is discharged to Long Island Sound through a submerged multiport diffuser.

The CW and SW systems are chlorinated to control biofouling. The current SPDES permit allows for 0.2 mg/l detectable Total Residual Chlorine (TRC) at the monitor for a total of two hours in a 24 hour period while chlorinating CW. Service water is chlorinated continuously while maintaining no detectable TRC at the monitor. Under the terms of the current permit, CW is needed to bring the chlorine residual below LOD (Limit of Detection) at the monitor while chlorinating the SW system.

Each circulating water pump utilizes approximately one megawatt of electricity per hour. As stated earlier, the primary purpose of the CW pumps is to provide cooling water for condenser cooling. Without the need for condenser cooling, there is no need to run the circulators other than for dilution of chlorine. Therefore, with the imminent decommissioning of this facility, it would be beneficial both environmentally and economically to discontinue the use of the Circulating Cooling water system. With the CW system taken out of service, we will be able to terminate the two hour per day chlorine injection required to maintain biofouling control. This translates to a savings of 96 gallons per day of 12% NaHOCl solution.

LILCO requested and was granted permission (see Attachment "A") to conduct a study to test the hypothesis that a 0.2 mg/l TRC reading at the monitor would result in a near zero TRC discharge by the time the treated water is discharged from the diffusers, when no CW is available to provide dilution.

The CW discharge is rapidly diluted and mixed with the offshore waters. In addition to the dilution effect, the offshore waters entrained by the discharge exert an additional chlorine demand. For this reason, it is expected that total residual chlorine in the discharge will be reduced to zero in a very short period of time due to the combined effects of dilution and chlorine demand of the receiving waters entrained by the diffuser discharge, and that discharge of total residual chlorine will have no noticeable effect on offshore water quality.

The study began on March 7, 1990 and was concluded on April 9, 1990. All CW was secured throughout the study period. A 6.0% sodium hypochlorice solution was injected at a rate of 0.067 gpm for 24 hours per day; this maintained a near 0.2 mg/1 TRC reading at the monitor. One SW pump was in operation pumping between 4600 and 4800 gpm. The chlorine monitor continuously recorded the TRC concentration. DR-100 TRC test kit readings were obtained at various times throughout the study at a location 855 feet downstream of the monitor through a 48 inch access way.

The location of the intake canal, screenwell, circulating water system, and discharge conduit are shown in Figure 1. The diffuser is shown in Figure 2.

The resulting data is presented in Table 1 and in graphic form in Figures 3-1 through 3-17.

As illustrated by the data, a 50% reduction in Total Residual Chlorine was obtained between the chlorine monitor and the access way, 855 feet downstream. These measurements do not account for the additional dilution and chlorine demand present in the remaining 5,599 feet of discharge conduit and diffuser.

Based upon this study, LILCO is seeking a permit modification to continuously chlorinate the service water system while maintaining a 0.2 ppm Total Residual Chlorine reading at the monitor.

Boron

The source of boron for discharge through Outfall 001 was from the Standby Liquid Control Tank (SBLC). In the event of an emergency, boron solution would have been injected into the reactor vessel to shut down the reactor. The SBLC tank has been drained and taken out-of-service. Since the tank will not be utilized again, the source of boron has been removed and we request that the monitoring requirement for boron be removed from the SPDES permit.

Outfall 001b - Radwaste System Demineralizer Regeneration Wastes

Discharge from Outfall 001b occur on a batch basis. Original estimates placed flow at approximately 20,000 gallons per day. Due to current operating conditions, actual flow is more accurately estimated at approximately 5,000 gallons per day (75 batches per year @ 25,000 gallon per batch). A summary of the number of batch discharges for the time period of August 1987 to October 1990 is found in Table 2-2.

For the time period noted above, there was only one exceedence of the maximum oil and grease limitation of 15 mg/l during July of 1990, with a value of 28.6 mg/l (see Table 2-1).

Adequate administrative procedures are in place to ensure compliance with SPDES permit limitations. Based upon past DMR data, and a decrease in the discharge frequency from this outfall, we respectfully request that the measurement frequency for all parameters be changed from "Weekly" to "Monthly."

Outfall 003, 003a and 003b

Outfall 003 receives effluent from Outfall 003a (Auxiliary boiler blowdown, Emergency Diesel Generator Room floor drains and Control Building drains), Outfall 003b (Colt Emergency Diesel Generator Building floor drains), and stormwater runoff from roof and yard drains. The point of discharge is to the circulating cooling water intake canal.

A summary of the exceedences for Outfalls 003, 003a and 003b, for the time period of August 1987 to October 1990, is presented in Table 2-1. A summary of the number of samples obtained for each parameter is found in Tables 2-3, 2-4 and 2-5.

A review of the non-compliance reports submitted with the Discharge Monitoring Reports attribute the total suspended solids exceedences to increased solids in the blowdown of the auxiliary boilers. The oil/wat r separator at Outfall 003a was drained and cleaned in October of 1989. No TSS exceedences have occurred at this outfall since. Administrative procedures have been established to periodically (at least annually) inspect and clean the oil/water separator.

Additionally, the majority of the TSS exceedences at Outfall 003 were also attributed to increased solids in the blowdown of the auxiliary boilers. There have been no TSS exceedences at this outfall since the oil/water separator was cleaned.

Since Outfall 003 is the common discharge point, we request that a modification be made so that all sampling be conducted at 003. Sampling of Outfalls 003a and 003b would be discontinued. The modification should include an increase in the sampling frequency at this outfall (from monthly to twice per month) and also incorporate all the parameters of the other two outfalls (003a and 003b).

The flow from Outfall 003 should be based upon the design flow of both oil/water separators PLUS stormwater runoff. Both Outfall 003a and 003b are oil/water separators with maximum design flows of approximately 100 gallons per minute. Footnote "h" of the SPDES permit states that flow from these outfalls are limited to the design capacity of the separators (i.e. 144,000 gallons per day). However, the SPDES permit limits flow to a daily average of 100 gallons per day. During the development and review of the current permit, an administrative error apparently changed GPM to GPD. We therefore request that the SPDES permit be modified to correct the flow limitation.

References to Exceedence of 5% Power Operation

Attachment B is marked up copy of the current SPDES permit outlining the requested modifications. All references to limitations and sampling required after the exceedence of 5% power operation have been deleted, and should be incorporated into the permit modification. TEP DI DO 12:18 NYS ENV. CONS.

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



Thomas C. Jorling Commissioner

"ATTACHMENT A"

February 2, 1990

Mr. Christopher Gross Manager, Environmental Monitoring and Compliance Division Long Island Lighting Company 1660 Walt Whitman Road Melville, NY 11747

Dear Mr. Gross:

We are in receipt of your letter of 12/6/89 requesting permission to perform a series of experiments on the chlorine residual discharged via outfall 001 (010) of your SPDES permit #0026344.

You may proceed with these experiments provided that:

- The test period shall not exceed thirty (30) days.
 This Department shall be notified in writing prior to initiation of the experiment.
- The permittee must continue to monitur your chlorine residual as mandated by your SPDES permit. Any exceedances of the chlori residual limitation of 0.2ppm must be reported on the DMR and be accompanied by a non-compliance report stating the experimental nature of the discharge.
 Upon successful completion of these tests, you may then apply for modification of your SPDES permit to allow the chlorine residual to be calculated (to
- include a credit for chlorine residual decay in the outfall rather than recorded.

If you have any questions please continue to contact Mr. James Gilmore at 751-7900 or Ms. Diana Morcerf at 751-7725.

Sincerely,

Checkne M. Sanfrid

Theodore M. Sanford Senior Sanitary Engineer

CC: D. Morcerf J. Gilmore D. DeRidder

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