



Public Service Electric and Gas Company P O. Box 236 Hancocks Bridge, New Jersey 08038

Nuclear Department

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NLR-E93003

Ms. Colleen Coogan
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Habitat Conservation Branch
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Ms. Coogan:

1992 SUMMARY OF IMPINGEMENTS
SALEM GENERATING STATION, UNIT NOS. 1 AND 2
DOCKET NO. 50-272 AND 50-311

This document summarizes the occurrences of federally listed threatened and endangered species at the Salem circulating water structure (CWS) intake during 1992. This document also address a correction to the September 25, 1992 impingement report (NLR-E92279). Attachment 6 to the September 25 letter contains incorrect measurements. The corrected measurements are provided in Attachment 1, of this document.

At least three endangered and one threatened species are known to utilize the Delaware Bay in the vicinity of Artificial Island. The endangered species include one fish, the shortnose sturgeon and two sea turtles, Kemp's ridley and green. The single threatened species is the loggerhead sea turtle.

In accordance with Section 7 Consultation, Biological Opinion, Public Service Electric and Gas Company (PSE&G) has previously notified the National Marine Fisheries Service (NMFS), within 24-hours, in the event a threatened or endangered species is incidentally caught due to operation of the Salem or Hope Creek Generating Stations. Similarly, a detailed report of each event has been submitted to the NMFS and the US Nuclear Regulatory Commission (NRC) 30 days after the occurrence. As noted earlier, this document is a summary of these occurrences during 1992.

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These occurrences are based on observations made at Salem's CWS intake. During the summer months, June 1 through September 30, the trash bars at the Salem CWS intake were inspected every two hours for marine life and cleaned at least once per day. The Hope Creek service water structure (SWS) intake trash bars were inspected once per day and cleaned as necessary during this time period.

SEA TURTLES

The migration of sea turtles along the US east coast is well documented, including their occurrence in bays and channels. Sea turtles typically enter the Delaware Bay in late spring and begin their movement out to sea by late summer.

Between June 18 and October 2, 1992 fifteen sea turtles were recovered from the CWS trash bar area. They included ten loggerheads, four Kemp's ridley and one green turtle. Two Kemp's ridley and one green were recovered dead; resuscitation procedures were attempted for all. The live Kemp's ridley was recaptured less than 24 hours after initial release.

All live turtles were released in the Delaware Bay with flipper tags. Five loggerheads were equipped with a combination of sonic and satellite tracking tags. One loggerhead carried only a sonic tracking tag.

All dead turtles were frozen. Necropsies are scheduled for late-January, 1993, to be performed in conjunction with Steve Morreale of the Okeanos Ocean Research Foundation and Hubert Paluch, DVM.

Attachment 2, provides summary data for sea turtles observed at the Salem CWS intake during 1992.

SHORTNOSE STURGEON

Shortnose sturgeon are known to spawn upstream of Artificial Island and migrate throughout the Bay during different life stages. A limited sample of ten shortnose sturgeon reported in the vicinity of Artificial Island between 1978 and 1992 is too small and sporadic to draw conclusions as to migration patterns in the Artificial Island area.

Between November 2 and November 16, two shortnose sturgeon were recovered from the Salem CWS intake. Both were dead upon recovery. One sample was preserved for NMFS use.

Attachment 3, summarizes data for shortnose sturgeon occurring at the Salem CWS intake during 1992.

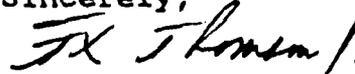
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NMFS
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If you have any questions concerning this material please do not
hesitate to contact us.

Sincerely,



F. X. Thomson, Jr.
Manager -
Licensing and Regulation

Attachments (3)

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ATTACHMENT 1

(Replace Attachment 6 of PSE&G sea turtle impingement report dated September 25, 1992 with this attachment)

ATTACHMENT 2
1992 SEA TURTLE DATA

1992 SEA TURTLE DATA

 DATE OF SCL SCW WEIGHT RECOVERY
 OCCURANCE (cm) (cm) (kg) STATUS

GREEN
 08/31/92 29.9 24.2 3.9 Dead

KEMP'S RIDLEY
 09/01/92 25.8 24.6 2.95 Dead
 09/04/92 28.0 22.5 1.6 Dead
 09/28/92 25.4 23.1 2.3 Live
 10/02/92 * 25.4 23.1 2.3 Live

LOGGERHEAD
 06/18/92 53.3 46.0 21.4 Live
 07/29/92 48.2 43.4 17.7 Live
 08/28/92 52.3 46.6 27.0 Live
 09/01/92 50.2 42.3 27.0 Live
 09/09/92 59.4 54.4 34.5 Live
 09/11/92 50.6 43.2 21.5 Live
 09/12/92 48.8 41.3 17.3 Live
 09/19/92 51.9 44.5 24.0 Live
 09/20/92 61.7 52.6 34.5 Live
 09/22/92 54.2 46.7 25.5 Live

Total Turtles: n = 15

Statistics for Loggerhead Sea Turtles:
 Total: n = 10

Mean SCL = 48.2 cm.
 Mean SCW = 41.5 cm.
 Mean Weight = 25.0 kg.

Statistics for Kemp's Ridley Sea Turtles:
 Total: n = 3 (Recapture not included)

Mean SCL = 17.0 cm.
 Mean SCW = 23.4 cm.
 Mean Weight = 2.28 kg.

* = Recapture of 9/28/92 turtle

ATTACHMENT 3

1992 SHORTNOSE STURGEON DATA

1992 SHORTNOSE STURGEON DATA

DATE OF FORK LENGTH TOTAL LENGTH WEIGHT RECOVERY
OCCURANCE (cm) (cm) (kg) STATUS

11/02/92	74.5	84.0	N/A	Dead
11/16/92	72.0	82.4	4.09	Dead