

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 NJSGS1 200-00000-003411114 5  
7 8 9 14 15 25 26 30 57 CAT 58  
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE

CON'T

01 L605000272707118380729839  
7 8 60 61 68 69 74 75 80  
 REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 On three separate occasions, on July 11, 13, and 19, 1983, sea turtles impinged on the  
03 Salem Circulating Water System (CWS) intake trash bars. During this period Salem Unit  
04 1 was operating routinely at power; Unit 2 was being started up following a refueling.  
05 A total of 7-9 circulating water pumps were in operation. Two Atlantic loggerhead  
06 turtles and one Kemp's Ridley turtle were involved; all specimens were dead. The  
07 appropriate notifications were performed. The event was of potential public interest  
08 in accordance with Environmental Technical Specification 5.6.2.1.  
7 8 9

09 HF11 C12 Z13 FILTER14 Z15 Z16  
7 8 9 10 11 12 13 18 19 20  
 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE  
17 83 031 04 L 0  
21 22 23 24 26 27 28 29 30 31 32  
 LER NO. REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.  
Z18 Z19 Z20 Z21 0000 Y23 N24 A25 R23526  
33 34 35 36 37 40 41 42 43 44 47  
 ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 Due to the large volume of Delaware River water drawn through the CWS intake any dead  
11 or badly damaged turtle would easily be pulled into the trash bars. There seems to be  
12 no significant change in frequency of events. No corrective action was deemed  
13 necessary.  
14  
7 8 9

15 E28 100029 N/A A31 Operational Event 32  
7 8 9 10 12 13 44 45 46 80  
 FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION  
16 Z33 Z34 N/A N/A N/A  
7 8 9 10 11 44 45 80  
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 00037 Z38 N/A 39  
7 8 9 11 12 13 80  
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 00040 N/A 41  
7 8 9 11 12 80  
 PERSONNEL INJURIES NUMBER DESCRIPTION

19 Z42 N/A 43  
7 8 9 10 80  
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 N44 8308160436 830729  
7 8 9 10 80  
 PUBLICITY ISSUED DESCRIPTION

PDR ADOCK 05000272  
 S PDR

NRC USE ONLY

NAME OF PREPARER R. Frahm

PHONE (609) 935-6000 Ext. 4309

## LICENSEE EVENT REPORT

Report No: 83-031/04L  
Report Date: 07-29-83  
Occurrence Date: 07-11-83  
07-13-83  
07-19-83  
Location: Salem Nuclear Generating Station, Units 1 & 2  
Public Service Electric and Gas Company  
Hancocks Bridge, New Jersey 08038

### IDENTIFICATION OF OCCURRENCE

Impingement of sea turtles in the Circulating Water System intake.

### CONDITIONS PRIOR TO OCCURRENCE

07-11-83: Unit 1 - Mode 1 - Rx Power 100% - Unit Load 1120 MWe  
Unit 2 - Mode 3 - Rx Power 0% - Unit Load 0 MWe  
07-13-83: Unit 1 - Mode 1 - Rx Power 100% - Unit Load 1120 MWe  
Unit 2 - Mode 5 - Rx Power 0% - Unit Load 0 MWe  
07-19-83: Unit 1 - Mode 1 - Rx Power 100% - Unit Load 1120 MWe  
Unit 2 - Mode 5 - Rx Power 0% - Unit Load 0 MWe

### DESCRIPTION OF OCCURRENCE

On these separate occasions, on July 11, July 13 and July 19, 1983, Ichthyological Associates, Inc. (IA) personnel were informed by plant operators that a turtle was impinged on trash bars in the Circulating Water System (CWS) intake. During this period, Salem Unit 1 was operating routinely at power; Unit 2 was starting up following a refueling. In all instances, the turtle was retrieved, identified and turned over to the Marine Mammal Stranding Center (Atlantic City, N.J.).

On July 11, the turtle was dead on arrival and was identified as an Atlantic loggerhead turtle (Caretta caretta). It had a carapace length of 45.6 cm and a carapace width of 41.7 cm. The weight was estimated at approximately 14 kg (maximum scale capacity is 10 kg). The specimen appeared to be dead for at least a day.

The July 13 specimen was identified as Kemp's Ridley turtle (Lepidochelys Kempi) and was also dead on arrival. The vital statistics were: carapace length 23 cm, carapace width 21 cm and weight 1.83 kg.

DESCRIPTION OF OCCURRENCE (continued)

On July 19, 1983, a second loggerhead was collected and had a carapace length of 54 cm, carapace width of 34 cm and weighed approximately 22 kg. This specimen appeared to be dead at least one day. Some exterior damage was observed. The scales on the left side of the head were removed, the scales on the posterior edge of the carapace were abraded and blood was observed at the anus and the intersections of some carapace plates.

The following agencies were notified within one day of each event:

National Marine Fisheries Service (D. Beech)  
U.S. Environmental Protection Agency (E. Santoro)  
U.S. Nuclear Regulatory Commission (T. Cain)  
U.S. Fish and Wildlife Service (C. Weilandicz, J. Miller)  
N.J. Department of Environmental Protection (R. Califano)  
Delaware Department of Natural Resources (L. Alexander)  
Delaware River Basin Commission (R. Albert)

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

With all 12 circulating water pumps in service, the Salem CWS circulates a total of 2.2 million gallons of Delaware River water per minute. The number of circulating water pumps in operation in each case were as follows: July 11, 1983, 9 pumps operating; July 13, 1983, 7-8 pumps operating; and July 19, 1983, 9 pumps operating.

Large amounts of debris are drawn into the plant annually. Any dead or badly damaged turtles near the CWS intake could also be easily pulled into the trash bars. Healthy turtles, however, should be able to actively avoid the approach velocities to the CWS intake.

ANALYSIS OF OCCURRENCE

Past experience has indicated that sea turtles are a summer migrant common to Delaware Bay. Between 1979 and 1983, fifteen sea turtles have been collected in or around the immediate vicinity of the plant. Loggerheads comprised 67% (10 specimen) of this total and 70% (7 specimen) were collected dead. Ridleys totaled 20% (3 specimen) with 67% (2 specimen) collected dead.

Salem Unit No. 1 Environmental Technical Specifications, Section 5.6.2.1 "Non-Routine Environmental Operating Reports" requires that "A report be submitted in the event that...an unusual or important event occurs that...has high public or potential public interest concerning environmental impact from plant operation." The Company feels that, based on past experience, this event might be interpreted as requiring reporting under the specification.

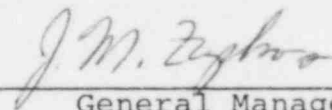
CORRECTIVE ACTION

Based on the apparently routine nature of the event, no corrective action was deemed necessary.

FAILURE DATA

Not applicable

Prepared by: J. Balletto/R. Frahm



General Manager -  
Salem Operations

SORC Meeting No. 83-102



**PSEG**

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

Salem Generating Station

August 3, 1983

Dr. Thomas E. Murley  
Regional Administrator  
USNRC  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

LICENSE NO. DPR-70  
DOCKET NO. 50-272  
REPORTABLE OCCURRENCE 83-031/04L

Pursuant to the requirements of Salem Generating Station Unit No. 1, Environmental Technical Specifications, Section 5.6.2.1, we are submitting Licensee Event Report for Reportable Occurrence 83-031/04L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

J. M. Zupko, Jr.  
General Manager -  
Salem Operations

RF:k11 *J-82*

CC: Distribution