



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

Nuclear Department

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
ARTICLE NUMBER: P 378 354 609 JUL 31 1992  
NLR-E92224

Bureau of Discharge Prevention  
New Jersey Department of Environmental  
Protection and Energy  
401 East State Street  
CN-027  
Trenton, New Jersey 08625-0027

Attention: Ms. Shelly Kugler

Dear Ms. Kugler:

DISCHARGE OF SODIUM HYDROXIDE FROM PUBLIC SERVICE ELECTRIC  
AND GAS (PSE&G) HOPE CREEK GENERATING STATION  
(CASE #92-07-02-1000-51)

Per the requirements of NJAC 7:1E-5.8, PSE&G has prepared the attached report confirming a discharge of approximately 20 gallons of sodium hydroxide solution to the ground west of the Hope Creek cooling tower. The discharge, which occurred at the above facility on July 2, 1992 occurred entirely within PSE&G property and no injuries resulted.

The "Reportable Quantity" (RQ) for sodium hydroxide under 40 CFR 302.4 is 1000 pounds. Since the RQ was not reached, notification of the release was not reported to any agency other than the New Jersey Department of Environmental Protection and Energy (NJDEPE) and the Nuclear Regulatory Commission (NRC), as required under 10 CFR 50.72, Significant Events.

PSE&G believes that it acted in accordance with the intent of NJAC 7:1E, Subchapter 5, which requires all major facilities to notify the NJDEPE of discharges of petroleum and other potentially hazardous substances in any concentration. As a result of this discharge, PSE&G has investigated this incident, cleaned up the affected area, and has taken measures to prevent similar discharges in the future.

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The Energy People  
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PDR ADOCK 05000354  
S PDR

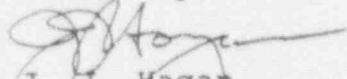
JUL 31 1992

NJDEPE  
NLR-E92224

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Should you have any questions concerning the information contained in this report or require additional information, please contact Ms. Jennifer Griffin of Licensing and Regulation at (609) 339-1034.

Sincerely,

  
J. J. Hagan  
General Manager -  
Hope Creek Operations

Attachment

C New Jersey Department of Environmental Protection and Energy  
Division of Responsible Party Site Remediation  
Southern Regional Enforcement  
20 E. Clementon Road  
Gibbsboro, New Jersey 08026  
Attention: Mr. William Dunphee

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Salem County Department of Health  
98 Market Street  
Salem, New Jersey 08079  
Attention: Mr. James Warner

DISCHARGE CONFIRMATION REPORT  
DISCHARGE OF SODIUM HYDROXIDE AT HOPE CREEK GENERATING STATION  
CASE #92-07-02-1000-51

INDIVIDUAL REPORTING DISCHARGE:

E. J. Harkness  
Senior Nuclear Shift Supervisor  
Public Service Electric and Gas  
Hope Creek Generating Station  
P. O. Box 236, M/C H01  
Hancocks Bridge, New Jersey 08038  
(609) 339-3059

INDIVIDUAL SUBMITTING CONFIRMATION REPORT:

J. J. Hagan  
General Manager - Hope Creek Operations  
Public Service Electric and Gas  
Hope Creek Generating Station  
P. O. Box 236, M/C H07  
Hancocks Bridge, New Jersey 08038  
(609) 339-3463

FACILITY OWNER/OPERATOR:

Public Service Electric and Gas Co.  
P. O. Box 570-17G  
Newark, New Jersey 07101-0570  
(201) 430-5868

INDIVIDUAL(S) RESPONSIBLE FOR THE DISCHARGE:

J. J. Hagan  
General Manager - Hope Creek Operations  
Public Service Electric and Gas  
Hope Creek Generating Station  
P. O. Box 236, M/C H07  
Hancocks Bridge, New Jersey 08038  
(609) 339-3463

DISCHARGE SOURCE:

Hope Creek Generating Station  
Sodium Hydroxide Injection Line System

During a walkdown of the cooling tower basin, station chemistry personnel noticed a dripping valve with a pool of liquid and solid deposited beneath the valve. A litmus paper test of the liquid, performed at the time of discovery, indicated a pH over 12.0 standard units.

DISCHARGE CONFIRMATION REPORT  
DISCHARGE OF SODIUM HYDROXIDE AT HOPE CREEK GENERATING STATION  
CASE #92-07-02-1000-51

DISCHARGE LOCATION:

Hope Creek Generating Station  
Alloway Creek Neck Road  
Block#: 26  
Lot#: 4

Municipality: Lower Alloways Creek Township  
County: Salem County  
Zip Code: 08038  
Tax #: 22-1212-800  
EPA ID#: NJD077070811  
(Map Enclosed - See Figures 1 and 2)

CHEMICAL DISCHARGED: Sodium Hydroxide  
CAS Number: 1310-73-2

QUANTITY DISCHARGED: Approximately 3 gallons

DATE/TIME DISCHARGE BEGAN: Unknown

DATE/TIME DISCHARGE ENDED: July 2 - 1000 Hours

DATE/TIME DISCHARGE DISCOVERED: July 2 - 0950 Hours

DATE/TIME DISCHARGE REPORTED: July 2 - 1000 Hours  
To NJDEPE Hotline

MEASURES TAKEN TO CONTAIN, CLEANUP AND REMOVE THE DISCHARGE:

Chemistry personnel identifying the release isolated the line and wrapped the pipe in plastic to prevent any additional discharge. Stone and soil in the affected area was removed to a level where the pH of the soil was 7.9 standard units. The excavated soil and stone was placed in a 55 gallon drum for disposal as hazardous waste. Approximately 7.4 cubic feet of soil and stone were collected.

The estimated cleanup cost for this spill is \$800.00.

CORRECTIVE MEASURES:

A former dilution line was used to prevent pH excursions by tripping the caustic injection pump upon loss of circulating water flow. A faulty valve on this dilution line resulted in the discharge.

The dilution line has been tagged out of service.

DISCHARGE CONFIRMATION REPORT  
DISCHARGE OF SODIUM HYDROXIDE AT HOPE CREEK GENERATING STATION  
CASE #92-07-02-1000-51

INDIVIDUAL INVOLVED IN CONTAINMENT/CLEANUP:

Cleanup activities and disposal associated with the release of the sodium hydroxide were conducted by Site Services personnel. These individual is:

R. B. Lockwood  
Yard Supervisor  
Site Services Maintenance  
Public Service Electric and Gas  
Nuclear Department  
P. O. Box 236, M/C N34  
Hancocks Bridge, New Jersey 08038  
(609) 339-5092

TYPE, QUANTITY, LOCATION AND DATE OF SAMPLES:

Eight ion electrode pH samples were taken of soil and liquid beneath the faulty valve on June 2, 1992.

INDIVIDUAL CONDUCTING ANALYSIS:

Robert Breslin, John Atkinson and Jeff Serfass  
Public Service Electric & Gas  
Chemistry Department  
P.O. Box 236, MC H15  
Hancocks Bridge, NJ 08038  
(609) 339-3598

QUALITY ASSURANCE PROCEDURES:

The Hope Creek Generating Station is certified for the analysis of pH under NJAC 7:18 (Certificate No. 17451). Chemistry Department procedures require the use of check standards, blanks, buffers and control charts in accordance with NJAC 7:18-4.

SAMPLE METHODOLOGY:

pH - Ion Electrode

RATIONALE FOR SAMPLING LOCATION:

One sample was obtained from directly under the leaking fitting, another from where the release contacted the ground. Subsequent samples of the ground were analyzed to verify the soil removal was effective and the remaining soil was unaffected.

DISCHARGE CONFIRMATION REPORT  
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CASE #92-07-02-1000-51

FINANCIAL RESPONSIBILITY:

PSE&G satisfies the requirements for self-insurance established by N.J.A.C. 7:1E-4.5(g) and will include appropriate documentation of this in its Discharge Cleanup and Removal Plan (DCR) as required by N.J.A.C. 7:1E-4.4(a)9.

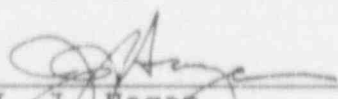
CERTIFICATION

State of New Jersey:

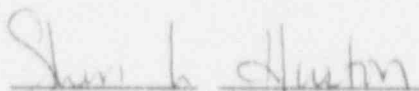
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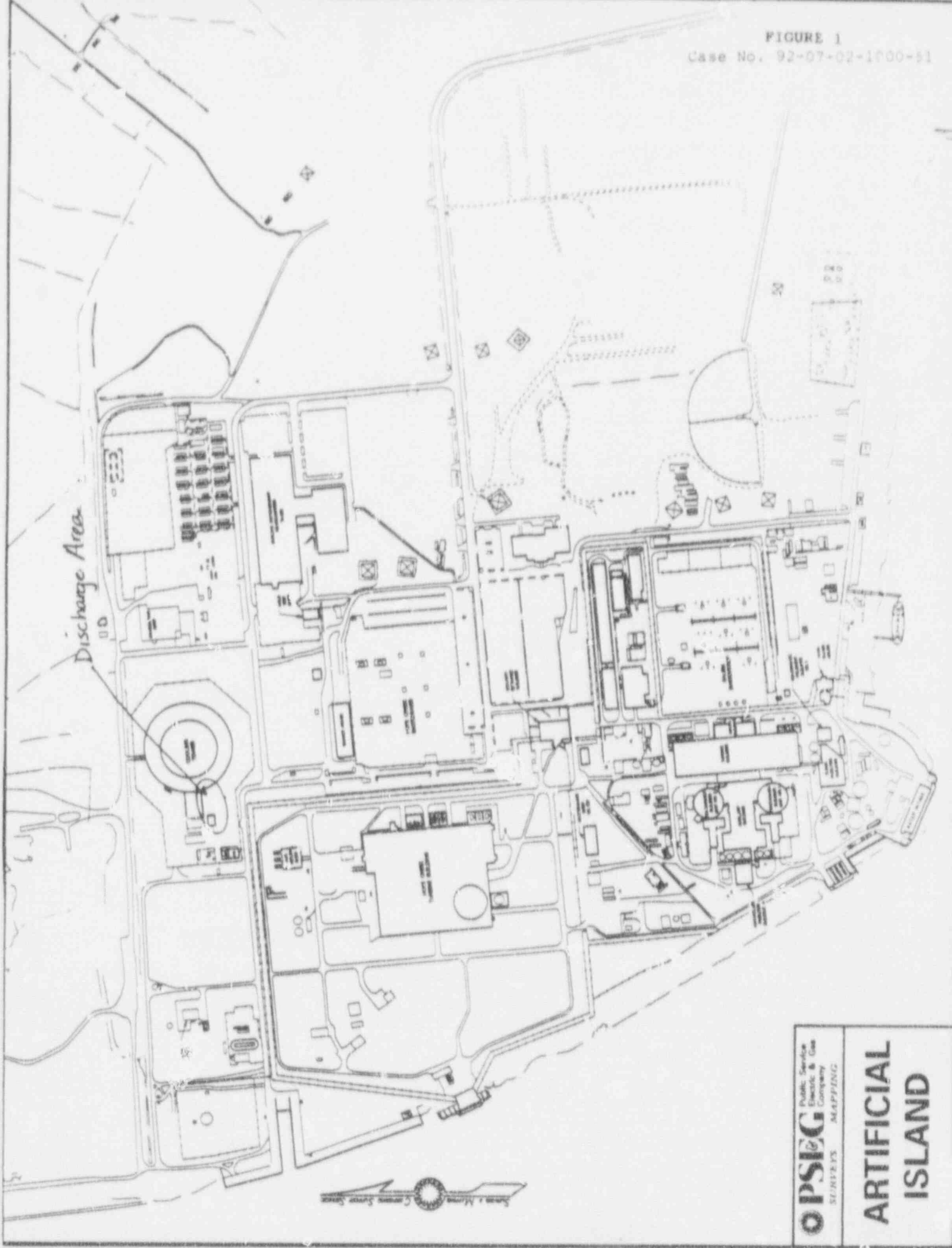
County of Salem :

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including fines or imprisonment or both, for submitting false, inaccurate or incomplete information.

  
\_\_\_\_\_  
J. J. Hagan  
General Manager -  
Hope Creek Operations

Sworn and subscribed before me  
on this 30 day of July, 1992.

  
\_\_\_\_\_  
Notary Public  
NOTARY PUBLIC STATE OF NEW JERSEY  
My Commission Expires 10/31/1993  
Commission Expiration Date



**OPSE&G** Public Service  
Electric & Gas  
Company  
SURVEYS MAPPING

**ARTIFICIAL  
ISLAND**





FIGURE 2  
Case no. 92-07-02-1000-51

