



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

Nuclear Department

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
ARTICLE NUMBER: P632 876 242 FEB 26 1992  
NLR-E92057

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

Attn: Discharge Confirmation Report

Dear Sirs:

PUBLIC SERVICE ELECTRIC AND GAS COMPANY (PSE&G)  
HOPE CREEK GENERATING STATION  
(CASE #92-1-27-1013-52)

As per the requirements of NJAC 7:1E-5.8, PSE&G has prepared the attached report confirming the discharge to the ground of approximately twenty gallons of No. 2 Fuel Oil from the Auxiliary Boiler Fuel Oil Day Tank. The discharge, which occurred at the above facility on January 27, 1992, occurred entirely within PSE&G property and no injuries resulted.

As the discharge of No. 2 Fuel Oil is not regulated under 40 CFR 302.4, no notification of the release was 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 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 replaced the secondary sight gauge and revised station operating procedures to include draining of any water accumulated in the day tank. These corrective actions are necessary to prevent recurrence.

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The Energy People

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PDR ADOCK 05000354  
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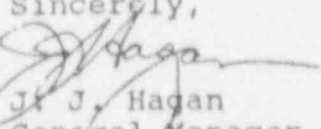
COOL

NYDEPE  
NLR-E92057

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FEB 2 1992

Should you have any questions concerning the information contained herein, or require additional information, please contact Mr. Don Bowman of Licensing and Regulation at (609) 339-1477.

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

ATTACHMENT 1

DISCHARGE CONFIRMATION REPORT - SUPPLEMENTAL INFORMATION  
RELATED TO REPORTED DISCHARGE OF NO. 2 FUEL OIL FROM THE  
AUXILIARY BOILER FUEL OIL DAY TANK AT HOPE CREEK GENERATING  
STATION - CASE #92-1-27-1013-52

INDIVIDUAL REPORTING DISCHARGE:

J. P. DeDomenico  
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) 339-3027

INDIVIDUAL SUBMITTING CONFIRMATION REPORT:

J. J. Hagan  
General Manager - Hope Creek Operations  
Public Service Electric and Gas  
Nuclear Department  
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 RESPONSIBLE FOR THE DISCHARGE:

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

DISCHARGE SOURCE:

Auxiliary Boiler Fuel Oil Day Tank

On the morning of January 27, 1992, Operations personnel began the process of filling the Auxiliary Boiler Fuel Oil Day Tank. The level in the tank was observed to be approximately 40 percent of capacity in both the level indicator and a length of tygon tube being used as a site gauge. Filling of the day tank was then begun by opening a makeup valve and starting a transfer pump. Approximately one hour later the level indicator and tygon tubing measured approximately 50 percent of capacity.

ATTACHMENT 1 (continued)

DISCHARGE CONFIRMATION REPORT - SUPPLEMENTAL INFORMATION  
RELATED TO REPORTED DISCHARGE OF NO. 2 FUEL OIL FROM THE  
AUXILIARY BOILER FUEL OIL DAY TANK AT HOPE CREEK GENERATING  
STATION - CASE #92-1-27-1013-52

Filling of the tank continued for approximately 30 more minutes  
at which time the discharge occurred. At the time of the  
discharge, the level indicator measured 68 percent and the tygon  
tubing indicated 60 percent capacity.

DISCHARGE LOCATION:

Hope Creek Generating Station  
End of Buttonwood Road  
Block#: 26  
Lot#: 4  
Municipality: Lower Alloways Creek  
County: Salem County  
Zip Code: 08038  
Tax #: 22-1212-800  
EPA ID#: NJD077070811  
(Map enclosed - See Figure 1)

CHEMICAL DISCHARGED:

No. 2 Fuel Oil  
CAS Number: 068-476-302

QUANTITY DISCHARGED:	20 gallons
DATE/TIME DISCHARGE BEGAN:	January 27, 1992 Approximately 0945 hours
DATE/TIME DISCHARGE ENDED:	January 27, 1992 Approximately 1000 hours
DATE/TIME DISCHARGE DISCOVERED:	January 27, 1992 1000 Hours
DATE/TIME DISCHARGE REPORTED:	January 27, 1992 1013 Hours To NJDEP Hotline

#### MEASURES TAKEN TO CONTAIN, CLEANUP AND REMOVE THE DISCHARGE:

Upon discovery of the overflowing tank, Operations personnel immediately closed the makeup valve and shut off the transfer pump. Approximately 450 gallons of fuel oil was contained within the dike surrounding the tank. However, approximately 20 gallons spilled onto the surrounding area due to wind drift from the overflow. The area around the tank affected by the discharge consists of soil, gravel, and asphalt roadway. Site Services personnel excavated the soil and gravel around the discharge and placed them into drums for disposal (a quantity of approximately 9 - 12 cubic yards). The asphalt roadway was cleaned with absorbent material. This excavated soil and gravel was disposed of at the Salem County Solid Waste Facility as ID-27, a Dry Industrial Waste. The estimated cost for cleanup and disposal of the material is \$7,500.

#### CORRECTIVE MEASURES:

The process for filling the day tank is by transferring fuel oil from the million gallon fuel oil storage tank. This process is begun by opening an inlet valve and then turning on a transfer pump. Measuring of the transfer is done by reading a level indicator on the day tank. A tygon tube is installed to act as a secondary sight gauge.

The root cause of the discharge was determined to be failure of the level indicators to properly respond. There is a substantial time delay in level indication provided by an ultrasonic device. Also, the tygon tubing was kinked and clogged with ice which produced an incorrect reading.

PSE&G has replaced the secondary sight gauge with new tubing that should more accurately indicate the tank level. Station operating procedures have also been revised to drain any accumulated water from the day tank and avoid potential freezing in the sight gauge. To more permanently correct the potential problems and eliminate future tank overflow, PSE&G has initiated an engineering evaluation of the day tank and fuel transfer system, design instrumentation, and operating procedures.

INDIVIDUAL INVOLVED IN CONTAINMENT/CLEANUP:

The individual is:

J. G. Sterner  
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) 339-5338

TYPE, QUANTITY, LOCATION AND DATE OF SAMPLES:

No laboratory data was collected for this discharge.

INDIVIDUAL CONDUCTING ANALYSIS: Not applicable.

QUALITY ASSURANCE PROCEDURES: Not applicable.

SAMPLE METHODOLOGY: Not applicable.

RATIONALE FOR SAMPLING LOCATION: Not applicable.

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.

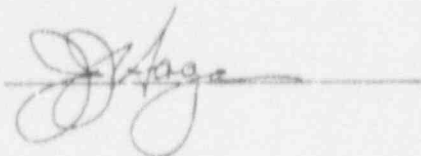
CERTIFICATION

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.



Sworn and subscribed before me  
on this 26 day of Feb, 1992.

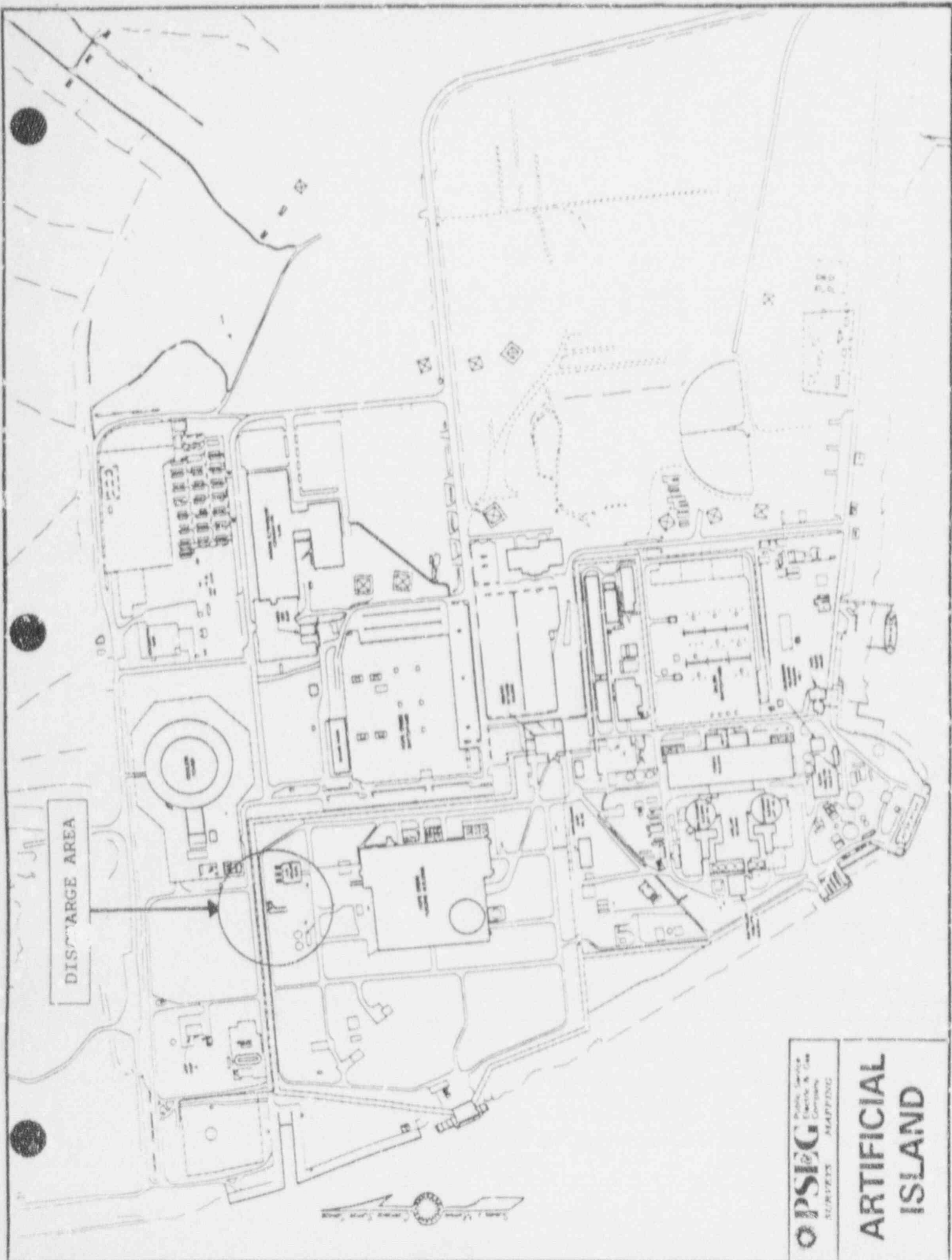
Sheri L. Huston  
Notary Public

SHERI L. HUSTON

NOTARY PUBLIC

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DISCHARGE AREA

**OPSEG** Public Service  
Engineers & Geomorphologists  
SURVEYS MAPPING

# ARTIFICIAL ISLAND

