

U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-277/82-13
50-278/82-13

Docket No. 50-277
50-278

License No. DPR-44 Priority -- Category C
DPR-56

Licensee: Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

Facility Name: Peach Bottom Atomic Power Station, Unit 2 and 3

Inspection At: Barnwell, South Carolina

Inspection Conducted: March 19, 1982

Report Prepared By: P. Clemons
P. Clemons, Radiation Specialist

10/14/82
date

Approved By: Edward A. Greenman
E. Greenman, Acting Chief, Facilities
Radiation Protection Section,
Technical Programs Branch

10/14/82
date

Inspection Summary:

Inspection on March 19, 1982 by a representative of the South Carolina Department of Environmental Control

Philadelphia Electric Company was the originator of a waste shipment which was inspected at the Chem-Nuclear Systems, Inc. burial site.

Results: One apparent violation was identified (failure to provide and securely attach lifting devices to a container in accord with an Agreement State license).

DETAILS

On March 17, 1982, the Philadelphia Electric Company dispatched a shipment of licensed material consisting of 1.74 Curies of solid metallic oxides on feedwater spargers to the Chem-Nuclear Systems, Inc. burial site at Barnwell, South Carolina. The shipment was made in a Chem-Nuclear shipping cask, No. 14-195-H-9.

On March 19, 1982, a representative of the South Carolina Department of Health and Environmental Control inspected the shipment. The inspection consisted of a review of shipping papers, placarding, marking and labeling, radiation measurements, selective contamination surveys, and examination of the packages and the tractor-trailer.

A copy of the report prepared by the representative is attached. The report states that upon offloading the shipment, it was found that there were no lifting cables attached to the liner, containing the licensed material, for removal of the liner from the cask at the burial site.

10 CFR 30.41(b)(5) states that, ". . . any licensee may transfer byproduct material to any person authorized to receive such byproduct material under terms of a specific license . . . issued by . . . an Agreement State."

Section 1.2 of Regulation No. 61-83, "Transportation of Radioactive Waste Into or Within South Carolina," issued by the South Carolina Department of Health and Environmental Control, an Agreement State, states that, "All persons subject to the provisions of this regulation shall comply with . . . any disposal facility radioactive material license requirements regarding the packaging, transportation, disposal, storage, or delivery of radioactive materials."

Condition 50 of South Carolina License No. 097, an Agreement State license issued to Chem-Nuclear Systems, Inc., states, "The licensee shall not receive shipments of radioactive materials unless appropriate lifting devices of sufficient length have been provided and securely attached to containers and palletized shipments within a cask."

On April 12, 1982, Mr. P. Clemons of the Region I office was informed that a Philadelphia Electric Company representative had observed the liner being placed in the cask, and at that time lifting devices were attached to the liner. This loading operation was performed by individuals who do not normally perform the operation, and according to the representative, these individuals apparently removed the lifting devices after the liner had been placed in the cask.

Failure to adhere to the terms of an agreement state license represents a violation of 10 CFR 30.41(b)(5). (82-13-01)

The Peach Bottom Nuclear Power Plant Station Superintendent was informed of this apparent violation on July 13, 1982.

Division of Radioactive Material Licensing and Compliance
Radioactive Shipment Inspection Report

1. General Information: (Peach Bottom) Report No. March 19, 1982
 1. Name of Shipper: Philadelphia Electric Company Type Package/Cask Model:
 Address: Delta, Pennsylvania 14-195-H-9
 2. Carrier: CNSI Cask containing: Liner
 Tractor# _____ Trailer# 069 Type Low-boy

2. Shipping Documentation:
 1. SSR# 29199 Vol. Allot.# 0382-255 Permit# 0035-37-82-X
 2. Shipping Name and Class: Radioactive Material UN-2912 HM Id.# (172.202(a))
 3. Total Volume: 170 ft³(172.202(c)) Total Curies: 1.740 (172.203(d))
 4. Radionuclides: Mn-54, Co-60, Zn-65 Labels LSA (172.203(d))
 5. Description(chem/phy/media): Solid metallic oxides on feedwater spargers (172.203(d))
 6. Shippers Certification: State (48 hours) ✓ DOT ✓ (172.204)
 7. Exclusive Use ✓ Instructions ✓ (173.392(c))(173.393(j))or Total T.I. (177.842(a))
 8. Check for:(a) Radiation Survey ✓ (173.393(i)(j)) Contamination levels (173.397)
 9. Compare: Radionuclides w/resin analysis Radiation/Contamination levels w/CNSI/BRH ✓

3. Shipment Inspection Check List:
 Packaging: Ltd. Qty/devices 173.391, LSA 173.392, General 173.393, Special form 173.394,
 Normal form 173.395, Fissile 173.396
 Security Seals (173.393(b)) Lids(Drum, box, cask)secure (173.393(n)(6))
 Shipment Braced/Blocked(173.392(c)/177.842(d)) Visible Damage (173.393(d))
 Visible Leakage (173.392(c)/173.393(d)) Cask Defects/Missing parts (173.398)
 Package Labeling/Wh I, Yel II, III (172.403) or "Radioactive LSA" (173.392(c)) Radiation Survey (173.393(j))
 Gross Weight marked(172.310) LSA Ex.use Exempt Cab/sleeper, trailer/truck
 Type A/Type B package marked (172.310) Contamination Levels (173.397)
 Trailer/Tractor Defects Vehicle Placards (173.392(c))/172.512
 Packages banded/ reinforced, palletized Tiedowns secure/adequate
 Offloading Discrepancies

4. Radiation/Contamination Survey: (transport vehicle or package)
 (mR/hr) Surface: 8.0 2 meters: _____
 Surface: _____ Surface: _____
 2 meters: _____ 2 meters: _____
 Surface: 6.0 2 meters: 1.0
 Highest Contamination Detected:Arrival 8 adpm/100cm² Release _____ adpm/100cm²
 20 Bdpm/100cm² _____ Bdpm/100cm²

5. Results of Inspection
 Summary of violations and discrepancies Upon offloading the shipment, it was found
 that there were no lifting cables attached to the liner for removal of the
 liner from the cask. This constitutes a violation of Condition No. 50 of S.C.
 Radioactive Material License No. 097, Amendment 34.

(Use Supplementary Sheet if necessary)

Date: 3/19/82 Inspector's Signature: Richard S. Dappin