

South Carolina Department of Health and Environmental Control

300½ Hall Street
Columbia, S.C. 29201

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September 20, 1983

Mr. Albert F. Gibson, Chief
Operational Programs Branch
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Atlanta, Georgia 30303

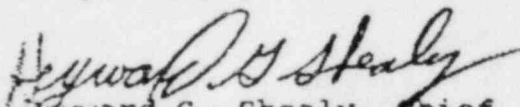
Dear Mr. Gibson:

Enclosed is an inspection report of a shipment of radioactive material (non-radioactive waste) from the Northern States Power Company, Monticello facility, Minnesota to the Chem-Nuclear's Mobile Operations Division, Barnwell, South Carolina. The transport vehicle was designated "Exclusive Use" and therefore the responsibility of the shipper to meet compliance.

This shipment was inspected by a Department representative on September 19, 1983, for compliance with applicable regulations. Since this shipment was not designated as radioactive waste, we are referring the matter to NRC for enforcement action. However, if NRC chooses not to pursue this, the Department can take action under other applicable regulations.

Should you have any questions, please do not hesitate to contact me or Mr. Virgil R. Autry at (803) 758-7951.

Very truly yours,


Edward G. Shealy, Chief
Bureau of Radiological Health

HGS:kn

Enclosure

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ATTACHMENT

Division of Radioactive Material Licensing and Compliance
Radioactive Shipment Inspection Report

"Not For Burial"

General Information:

Report No. Per CNSI

1. Name of Shipper: Northern States Power Co.

Type Package/Cask Model:

Address: Monticello, Minnesota

Closed shielded van, Metal Box

2. Carrier: CNSI

Cask containing: Contaminated Fill Head

Tractor# 56

Trailer# 078

Type Closed shielded van

Shipping Documentation:

1. 15327 -- Vol. Allot.# -- Permit# --
2. Shipping Name and Class: Radioactive Material, LSA, NOS HM Id.# UN-2912 (172.202(e))
3. Total Volume: 96 fl (172.202(c)) Total Curies: 1.1 (172.203(d))
4. Radionuclides: Co-60, Cs-137, Zn-65 Labels NA (172.203(e))
5. Description (chem/phv/media): (172.203(d))
6. Shippers Certification: State (48 hours) NA DOT ☒ (172.204)
7. Enclosure Use ☒ Instructions ☒ (173.392(c)) (173.393(j)) or Total T.I. NA (177.842(a))
8. Check For: (a) Radiation Survey ☒ (173.393(i)) (j) Contamination levels ☒ (173.397)
9. Compare: Radionuclides w/resin analysis NA Radiation/Contamination levels w/CNSI/BRH ☒

Inspector Inspection Check List:

Shipping: 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))
Secured Braced/Blocked (173.392(c)) (177.842(d)) ☒ Visible Damage (173.393(d))
Leakage (173.392(c)) (173.393(d)) NA Cask Defects/Missing parts (173.398)
Labeling/Wh I, Vel II, III (172.403) ☒ Radiation Survey (173.393(j))
Radioactive LSA (173.392(c)) ☒ Cab/sleeper, trailer/truck
Weight marked (172.310) ☒ SA Ex. use Exempt ☒ Contamination Levels (173.397)
Type 5 package marked (172.310) ☒ Vehicle Placards (173.392(c)) (172.512)
Tractor Defects NA Tiedown secure/adequate
Tractor banded/ reinforced palletized Offloading Discrepancies

Contamination/Contamination Survey: (transport vehicle or package)

Surface: 30.0 2 meters: _____
Cab/sleeper -- 800mr rear surface Surface: _____
1.8R at contact under dumpster 2 meters: _____
1.5R at 1" under dumpster
Surface: 160.0-160.02 meters: 8.0
Highest Contamination Detected: Arrival 8 μ dpm/100cm² Release 3980 μ dpm/100cm²
under leaking container (no liquids) 8 μ dpm/100cm²

Results of Inspection

Summary of violations and discrepancies Upon inspection, a metal box containing a contaminated fill head was found to have a hole pierced in the bottom of the container, apparently from a heavy object within the container. A small amount of contaminated material was found under the container which apparently sifted out of the hole (3000-5000 dpm/100cm² spreadable contamination). This constitutes a violation of 49 CFR 173.423(B)(1). Radiation levels on the bottom of the container were 1.5R (1" from surface) and 800MR on the rear accessible surface (Eberline RO-2 ion chamber). This constitutes a violation of 49 CFR 173.441(B)(1).

(Use Supplementary Sheet if necessary)

Date: September 19, 1983

Inspector's Signature s/ Richard S. Seppington