U. S. NUCLEAR REGULATORY COMMISSION OFFICE OF INSPECTION AND ENFORCEMENT

REGION V

Report No. 80			6. fa
Docket No. 1	5000046	License No.	Safeguards Group
Licensee:			
	N		
Facility Name	: Nuclear End	gineering Company	-
Inspection at	: Richland,	Washington	
Inspection co	nducted: Ma	y 15, 1980	
		Radiation Specialist	June 9, 1980 Date Signed
		NMSS - Sr. Mechanical Engineer	Date Signed . July 9,1980 Date Signed
	Kligfield,	NMSS - Sr. Mechanical Engineer	Date Signed Date Signed Date Signed
	. D. Thomas.	Chief, Materials Radiological Section A. E. Dock	
Approved By:	I. E. Book, C Safety Bran	hief, Fuel Facility and Materials	June 10, 1980 Date Signed
Summary:			

Inspection on May 15, 1980 (Report No. 15000046/80-60)

As part of the inspection conducted during May 12-23, 1980, the inspection of trailer 440204, loaded with radioactive waste packages, is detailed in this report. No packages were opened. A representative from the State of Washington was on site and concurred.

Results: One apparent item of noncompliance with DOT/NRC regulations was observed. See paragraph 4.

It appears that the NRC Region III office and the Department of Transportation are the appropriate organizations to take enforcement actions.

7.48

DETAILS

Persons Contacted

Vern Apple, Site Manager, NECO
Robert Phalen, Asst. Site Manager, NECO
Arden Scroggs, State of Washington DSHS - Radiation Health Physicist

Background

As a part of the waste packaging inspection of May 12-23, 1980 at Richland, Washington, Trailer 440204 was inspected on May 15, 1980.

Inspection

Licensee - Shipper: Honeywell, Inc., Defense Systems

New Brighton, Minnesota

Shipment Inspected: May 15, 1980 Carrier: Tri-State Motor Transit

Trailer: 440204 Freight Bill: 343868

- 1.) This trailer transported 74, fifty-five gallon drums as shown on the enclosed Appendix A (Bill of Lading 343868). This was an exclusive use shipment.
- 2.) Vehicle radiation surveys indicated that the dose rates at the surface of the trailer and in the cab of the trailer were less than 1 mR/hr. The maximum level under the trailer was 1.5 mR/hr.
- 3.) Checks for removable contamination from two drums indicated no significant activity above background levels.
- 4.) The contents of this trailer were off loaded on May 15, 1980. During the off loading, one drum was observed to have a gash about 4 inches in length in its middle portion. Inside the gash, cardboard or some similar solid material was visible. No material was leaking from the drum. A check for removable contamination around the gash showed no significant activity above background. The drum was marked:

Radioactive LSA Lot 25-8 Gross Wt. 540 DU chips in cement Lot No. 2-53

The contents of the drum are described on page 1 of the Radioactive Waste Shipment and Disposal Form (Item No. 8), attached as Appendix B. The drum appeared to be in noncompliance with 49 CFR 173.392(c)(1), which requires that materials be packaged in strong, tight packages.

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A New Brighton, Mu				EXECUTIVE OFFICES
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SECTIVED, subject to the considerations and tools in effect on the date of not issue of this bill of Linding.

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South Carolina Department of Health and Environmental Control

William M. Wilson, Chairman
J.Lorin Mason, Jr., M.D., Vice-Chairman
I. DeQuincey Newman, Secretary
Leonard W. Douglas, M.D.
George G. Graham, D.D.S.
Michael W. Mirns
Barbara P. Nuessle

COMMISSIONER Malcolm U. Dantzler, M.D., M.P.H. 2600 Bull Street Columbia, S.C. 29201

November 20, 1979

Mr. Gary Wittum Honeywell Defense Systems Division 23100 Sugar Bush Rd. Elk River, MN 55330

Dear Mr. Wittum:

On November 9, 1979, this office conducted an inspection of your Radio-active Shipment Record Nos. 14622, 14623, 14624, when it arrived at the Chem-Nuclear Burial Site in Snelling, SC. The shipment was described as Uranium, solid, containing 31.912 millicuries and 190.84 source pounds in 17H, 55 gallon drums. Your carrier Tri-State Motor Transit, used trailer No. 201006.

The license issued by this office under which Chem-Nuclear operates requires that each shipment received at the site be in compliance with South Carolina Radioactive Material License No. 097, as amended, the effective Barnwell Site Disposal Criteria, and applicable U.S. Department of Transportation Regulations.

Based on this inspection, it was determined that there were certain discrepancies with respect to this particular shipment. They are as follows:

- 1. Free liquid was found in drum No. 23. This is a violation of S.C. Radioactive Material License No. 097 held by Chem-Nuclear, Barnwell Site Disposal Criteria, and U.S. DOT Regulations 173.393(g) and 172.204(a) of 49CFR.
- 2. The drums used to ship this material looked as if a torch had been used on their sides, i.e. the paint was burned off of large areas of the drums. The drum lids were warped, distorted, and deformed as though from excessive heat. This violates 49CFR 173.393(n)(2).

3. The RSR's indicated that the shipment was for sole use of the vehicle but no instructions to the carrier were available. This volates 49CFR 173.392(c)(9).

Please be advised that continued discrepancies in proper packaging and transportation of such materials into and through this state will result in proceedings to prohibit all such shipments from your company into the state.

We would accordingly recommend that a review of your company's procedures be conducted and personnel reminded of their duties and responsibilities in assuring your compliance of all applicable provisions of law.

We trust you will understand our position in protecting the public health and safety of the citizens of this state and look forward to your cooperation in this effort.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

William B. House Health Physicist Bureau of Radiological Health

WBH:mig

Enclosure

cc: Mr. G. Wayne Kerr, Assistant Director of State Agreement Programs
Office of State Programs, USNRC

Mr. James S. Itamura U.S. Department of Transportation

Mr. Bob Fancher, Terminal Manager Tri-State Motor Transit

Mr. David G. Ebenhack Chem-Nuclear Systems, Inc.