

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

REGION V

Report No. 80-98

Docket No. 15000046 License No. _____ Safeguards Group _____

Licensee: _____

Facility Name: Nuclear Engineering Company

Inspection at: Richland, Washington

Inspection Conducted: December 15, 1980

Inspectors: Paul R Zurakowski 15 Jan 81
P. R. Zurakowski, Radiation Specialist Date Signed

Approved by: R. D. Thomas January 19, 1981
R. D. Thomas, Chief Date Signed
Materials Radiological Protection Section

Approved By: H. E. Book 1/20/81
H. E. Book, Chief Date Signed
Fuel Facility and Materials Safety Branch

Summary:

Inspection on December 15, 1980 (Report No. 15000046/80-98)

As part of the low level waste inspection conducted during December 15-18, 1980 trailer number 7433006 and associated shipping records were inspected on December 15, 1980 and are detailed in this report. No packages were opened.

A representative from the Department of Transportation was not present during this inspection. James A. Ferguson from the State of Washington, Department of Social and Health Services was present during this inspection.

Results: One apparent item of noncompliance with NRC/DOT regulations was observed. See paragraph 3 of the enclosed report. It appears that the NRC Region V office, the State of Washington and Department of Transportation are the appropriate organizations to take enforcement actions.

DETAILS

Persons Contacted

Vern Apple, Site Manager, NECO
Robert Phalen, Assistant Site Manager, NECO
Floyd Dickson, Radiation Control and Safety Officer, NECO
Rebecca Cropper, Radiation Technician, NECO
Rob Rittenberg, Radiation Technician, NECO
James A. Ferguson, State of Washington, Department of Social & Health Services

Background

As part of a low level waste inspection conducted during December 15-18, 1980 at Richland, Washington, trailer number 7433006 and associated shipping papers were inspected on December 15, 1980 and are detailed in this report. Radiation surveys were performed with a Xetex model 305B, serial number 8421, due for recalibration February 10, 1981. Contamination surveys of unloaded trailers and checks for removable radioactive contamination were performed with an Eberline E-520 and HP-260 pancake probe, serial number 7907, due for recalibration February 12, 1981.

Inspection

Licensee - Shipper: San Onofre Nuclear Generating Station, Unit 1 DN 5000206
Southern California Edison Company
Rosemead, California

Broker: Southwest Nuclear Company
Pleasanton, California

Shipment Inspected: December 15, 1980

Carrier: Home Transportation Incorporated

Trailer: 7433006

Freight Bill: Shippers No. 80-77

1. This trailer transported 168 drums of LSA radioactive waste, a partial description of which is provided as Attachment A. This was an exclusive use shipment.
2. Radiation surveys of the trailer indicated a maximum dose rate of 40.0 mr/hr at the surface of the trailer and 5.8 mr/hr at two meters from the sides of the trailer. The dose rate in the cab was measured to be 0.3 mr/hr.

3. Title 49, Part 173.392(c)(1) requires LSA wastes to be packaged in strong tight packages so that there will be no leakage of radioactive materials under conditions normally incident to transportation. Contrary to the above, during the unloading of trailer 7433006 drum number F-55 (0776) was observed to have a loose lock ring because the attached welded bolt had broken loose.
4. Checks of the drums for removable radioactive contamination, and a survey of the truck bed after unloading indicated no significant radioactive contamination above background.

DELIVERY RECEIPT -- Consignee Copy

3737

Control Number

Shipper's Number

80-77

From Southwest Nuclear Co

Date 12-15-80

At South West Nuclear Generating Station Unit 1

CONSIGNEE TO

Nuclear Engineering Co

DESTINATION

Richland Washington

Sal # 1552 1553

Number Packages

Kind of Package, Description of Articles, Special Marks, and Exceptions

WEIGHT
(Subject to Correction)Class
or RateCk.
Col.

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "To be prepaid." **PREPAID**

Received \$ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.) Charges Advanced:

Trailer 3-347A

Trailer 743000

LENGTH

WIDTH

HEIGHT

SHIPPER SIGN HERE

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

Company: Southwest Nuclear Co

By: [Signature]

Received the property described above in good condition, except as otherwise noted.

Carrier Home Transportation Co., Inc.

Driver [Signature]

Date and Time 12-15-80

DELIVERY RECEIPT

Received the property described above in good condition.

By: [Signature]

Title Red Tech

Consignee Company Name Nuclear Engineering Co

Date 12/15/80

Time 1200

PICK-UP

SCHEDULED ARRIVAL	SHIPPER NOTIFIED OF ARR.	LOADING BEGAN	LOADING COMPLETED	UNIT RELEASED
12-12-80 730	12-12-80 730	12-12-80 800	12-12-80 800	12-12-80 800
Date Time	Date Time	Date Time	Date Time	Date Time

Shipper Co. Name Southwest Nuclear Co

By: [Signature] Title [Signature]

DELIVERY

SCHEDULED ARRIVAL	CONSIGNEE NOTIFIED OF ARR.	UNLOADING BEGAN	UNLOADING COMPLETED	UNIT RELEASED
	12/15/80 1045	12/15/80 1100	12/15/80 1200	12/15/80 1200
Date Time	Date Time	Date Time	Date Time	Date Time

Consignee Co. Name Nuclear Eng. Co., Inc. By: [Signature] Title Red Tech

RADIOACTIVE WASTE SHIPMENT & DISPOSAL FORM

NUCLEAR ENGINEERING COMPANY, INC.

EXECUTIVE OFFICE: (502) 426-7160
P.O. BOX 7246 • LOUISVILLE, KENTUCKY 40207

Illinois Office: (815) 454-2624
California Office: (415) 932-4800

NO. 21709

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☐ P.O. Box 578
Beatty, NV 89003
(702) 553-2203

☒ P.O. Box 638
Richland, WA 99352
(509) 377-2411

701 Commerce Cir. Pleasanton, CA 94566
PHONE: (415) 2-3750
SHIPMENT NO.: 80-77
DATE OF SHIPMENT: 12-17-80
CARRIER: HOME TRANSPORTATION

TOTAL QUANTITY	PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	TOTAL WEIGHT IN POUNDS
	Radioactive Device, N.O.S. — Radioactive Material	
	Radioactive Material, Fissile, N.O.S. — Radioactive Material	
15 DRUMS	Radioactive Material, Low Specific Activity, N.O.S. — Radioactive Material	3000
	Radioactive Material, N.O.S. — Radioactive Material	
	Radioactive Material, Limited Quantity, N.O.S. — Radioactive Material	
	Radioactive Material, Special Form, N.O.S. — Radioactive Material	

Note: C-1070 C-1070 C-1070 C-1070 C-1070

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		(11)	(12)	(13)	(14)	(15)
Item No.	Cubic Feet	Weight (Pounds)	Physical Form	Chemical Form	Radionuclide	Special Nuclear Material (Grams)	Source Material (Kilograms)	Activity <input type="checkbox"/> Curies <input checked="" type="checkbox"/> Millicuries	Radiation Levels MR/HR Surface 3 Feet		Transport Group	Transport Index	Label	Fissile Class	Type of Container
46	7.5	200	Solid	DRY	C-1070			10.25	15	2	5 IV	3	Radioactive - LSA	6	DRUM
47								7.07	3	.5			Radioactive -		
48								3.45	5	.5			Radioactive -		
49								3.45	5	.5			Radioactive -		
50								14.15	35	3.5			Radioactive -		
51								3.45	5	.5			Radioactive -		
52								6.4	10	1			Radioactive -		
53								6.4	10	1			Radioactive -		
54								103.5	150	15			Radioactive -		
55								103.5	15	1.5			Radioactive -		
56								3.45	5	.5			Radioactive -		
57								13.3	20	2			Radioactive -		
58								6.4	10	1			Radioactive -		
59								6.4	10	1			Radioactive -		
60								3.45	5	.5			Radioactive -		
	112.5	3000						118.51							
TOTALS															

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

THIS IS TO CERTIFY THAT ARTICLES ARE IN COMPLIANCE WITH ALL REGULATIONS APPLICABLE AT THE DESIGNATED DISPOSAL SITE.

CARRIER'S COPY

Authorized Signature

Title

Authorized Signature

Title