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

REGION V

Report No. 79-07
Docket No. 99990005 License No. _____ Safeguards Gro _____
Licensee: Nuclear Engineering Company
Richland, Washington

Facility Name: Richland facility

Inspection at: Richland

Inspection conducted: August 10-11, 1979

Inspectors: B. A. Riedlinger 8/29/79
B. A. Riedlinger, Radiation Specialist Date Signed

Date Signed

Approved By: H. E. Book 8/29/79
H. E. Book, Chief, Fuel Facility and Materials Safety Date Signed
Branch, Region V

Summary:

On August 10, 1979 at 8:30 p.m., a shipment of 157, 55-gallon drums of LSA compacted trash from TMI Unit 2 arrived at the Nuclear Engineering Company's (NECO) Richland, Washington burial facility. This was the first shipment of such waste from Unit 2 since the March 28, 1979 accident. A Region V NRC inspector was onsite when the shipment arrived. Drivers reported no problems were encountered with the shipment during transit. Radiation measurements on the exclusive use vehicle were well within DOT limits.

The shipment was offloaded without incident on August 11, 1979 between 11:00 a.m. and 1:30 p.m. All of the barrels were in good condition, and no noncompliance was observed.

7910020 310

1072 195

DETAILS

Persons Contacted:

Vernon Apple, NECO Richland Site Manager
Floyd Dickson, Radiation Monitor, NECO
Wanda McClain, NECO Corporate Office, Public Relations Officer
Robert Will, State of Washington
James Self, Jr., Radiation Control Specialist, State of Washington
David Jenkins, Office of the Governor, State of Washington
Samuel Laird, Manager, Public Relations, Jersey Central Power and Light
Henry Mayer, Director of Community Relations, Jersey Central Power and Light
Guy Carroll, Tri-State Driver
Quincy Gilbert, Tri-State Driver
Ken Gatherum, Photographer, Battelle Pacific Northwest Laboratories

Background:

On August 7, 1979, 157, fifty-five gallon drums of low specific activity (LSA) compacted trash from Three Mile Island Unit 2 was shipped via Tri-State Motor Carrier to the Nuclear Engineering Company's (NECO) Richland, Washington burial facility. This was the first waste shipment from Unit 2 since the March 28, 1979 accident.

During telephone conversations with the State of Washington Health Services Division, Region V became aware that the shipment was due to arrive at NECO's Richland site on Friday evening, August 10, 1979 and would be unloaded on Saturday morning, August 11, 1979.

Mr. James Fitzpatrick, the Regional Director for the Bureau of Motor Carrier Safety in Portland, Oregon, was contacted by telephone. He stated that the Department of Transportation (DOT) did not have personnel available to inspect this shipment, but that a DOT inspector would be immediately dispatched if any problems were encountered by the NRC.

A Region V inspector was dispatched to the site on August 10, 1979.

Inspection Activities:

The inspector arrived at NECO's Richland disposal site at 4:15 p.m. on August 10, 1979 and was present when the shipment arrived at 8:30 p.m.

The Tri-State trailer came into the Hanford Reservation through the Yakima Barricade entrance.

The shipment was escorted to the NECO site from a location on the highway near the Hanford site entrance by Mr. Robert Will of the State of Washington. The trailer was also followed by a van driven by Messrs. Laird and Mayer of Jersey Central Power and Light. They had followed the shipment throughout its journey. The Tri-State trailer was

number 440657, and it carried Missouri license plate 441-672. The cab was number 919 from Tri-State Motor Transit, Joplin, Missouri. The cab displayed the following license plates:

Illinois 63416
Nevada 38862M
Mississippi 85551
Oregon AD 1883

The vehicle was properly placarded. Drivers reported that no problems were encountered with the shipment during transit.

The inspector made a preliminary survey of the radiation levels around the trailer and monitored the radiation levels inside the cab of the truck. Levels were found to be well below the acceptable DOT limits. Contamination swipes were also made on the external surfaces of the trailer. A preliminary check with NRC instrument number 004280 (calibrated in June of 1979 and due for recalibration on September 9, 1979) and a P-11 pancake probe showed no significant removable contamination above background levels. These results are shown in ANNEX A of this report.

Radioactive Material Shipment and Receipt records were delivered to Mr. Vernon Apple by Mr. Guy Carroll. Copies of those records are attached as ANNEX B, Pages 1 through 14. The Bill of Lading was delivered to Mr. Apple on August 11, 1979. A copy of the bill is attached as ANNEX C.

The inspector returned to the site at 8:50 a.m. on the morning of October 11, 1979. At that time, Mr. Floyd Dickson, Mr. Ken Gatherum, and Mr. Vernon Apple were present at the site. A second set of radiation level measurements, as shown on ANNEX D of the report, were made by the inspector. The findings were in general agreement with those on the Radioactive Material Shipment and Receipt records.

Mr. Dave Jenkins of the Governor's office and Mr. James Self of the State of Washington Health Services Division arrived on site. Messrs. Laird, Mayer, and Will also returned.

The three trailer doors (rear, left side, and right side) were opened. State representatives took some radiation level readings. The Region V inspector took radiation level readings with the Minimonitor II, NRC No. 000358, calibrated in June of 1979 and due for recalibration on September 9, 1979. Readings were taken at the surface of some barrels at each of the three doorways. Maximum results found with the instrument at the surface of the barrels are indicated below:

Back of trailer: 8 mr/hr
Right side of trailer: 4 mr/hr
Left side of trailer: 10 mr/hr

Additional contamination swipes were taken of the surfaces of some of those barrels (See ANNEX E). Results showed no significant removable activity above background.

Drums were stenciled, "Radioactive LSA - Unit 2." They also had tape attached to them displaying the radiation symbol and the words, "Caution Radioactive Material."

Reporters from several television stations arrived. NBC news was represented. The reporters were escorted to the site by Ms. Wanda McClain, NECO's Public Relations Officer.

The shipment unloading commenced at about 11:00 a.m. The reporters arrived shortly thereafter. Barrels were lowered two at a time from the trailer into the disposal pit. All of the barrels were in good condition.

The press filmed parts of the unloading operation. They were required to stay away from a roped-off area around the pit. The inspector checked the areas where the press was standing most of the time. Levels were less than 0.5 mr/hr (the Minimonitor NRC No. 0003E8 was used for these surveys).

The press interviewed NECO site personnel, Washington State representatives, and the drivers of the escort van. They did not interview the NRC inspector.

The press representatives left the site at about 12:30 p.m., as the NECO personnel had stopped work for a lunch break.

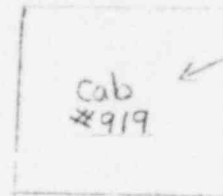
Work resumed, and the trailer was completely unloaded by 1:30 p.m. No problems were encountered with the containers during unloading. No items of noncompliance were observed.

Mr. Floyd Dickson surveyed the empty trailer while Mr. Vernon Apple signed the Bill of Lading (ANNEX C). The trailer was released to the Tri-State drivers, and the inspector left the site.

Contamination swipes taken during this inspection were counted on August 13, 1979 on the Region V PC-55, NMC gas flow proportional counter, NRC No. 000383. No significant removable activity above background level was detected. The locations where the swipes were taken are described in ANNEX E of this report.

Photographs were taken during the inspection, but they are not attached to this report. Copies of the photographs are on file in Region V in case they are needed in the future.

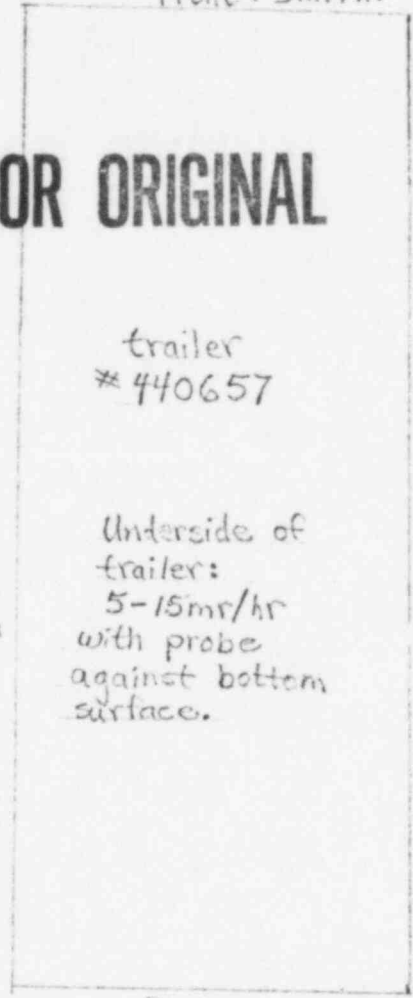
I. Radiation level measurements as shown on the diagram, were made with NRC # 004280, a Technical Associates PUG - IAB last calibrated in June of 1979 and due for recalibration on or before 9/9/79. A P-7, G-M detector was used. The probe was held about 3 feet above the plane formed by the bottom surface of the trailer.



Inside cab:
0.25 to 0.30 mr/hr

Front: 5mr/hr with probe at surface of vehicle.
Swipe C from front of trailer.

POOR ORIGINAL



Swipe A from left side.

Left side:
6 mr/hr maximum, probe on contact with outer wall of trailer.
0.60 mr/hr maximum with probe 6 feet from trailer

trailer # 440657

Underside of trailer:
5-15mr/hr with probe against bottom surface.

Swipe B from right side.

Right side:
5mr/hr maximum, probe on contact with outer wall of trailer.
0.75 mr/hr maximum with probe 6 feet from trailer

Back:

5mr/hr maximum, probe on contact with rear door of trailer. 0.5 mr/hr maximum with probe 6 feet from trailer.
Swipe D from rear of trailer

II. Radiation level measurements inside the cab of the truck were also made with NRC # 000358 Minimonitor II calibrated in June of 1979 and due for recalibration on 9/9/79. The maximum was 0.5 mr/hr.

III. Swipes taken as indicated. Preliminary checks were made with NRC # 004280 and a P-11 pancake probe. Results showed no significant removable contamination above background level.

Radiation Level Measurements and Contamination Swipe Locations - August 10, 1979.

Shipped From: 79-85

Receipt No.

Date 8/7/79

Shipped From
 Name THREE MILE ISLAND
NUCLEAR GENERATING STA.
 Company METROPOLITAN EDISON
 Address P.O. Box 480
MIDDLEBORO, PA 17057
 Telephone No. 717-848-8000
 Area Number

Transport Information
 Shipped Received via:
 Truck Car Mail Rail
 Transport Owner: The State
Motor Trans. Co.
 Vehicle Type: Tractor
Trailer (40ft Box)
 Placard YES
[Signature]
 Operator
 Vehicle Radiation Survey
 Highest Contact 30 (MR/hr)
 6 ft. Reading 1.5 (MR/hr)
 Occupied Area 0.5 (MR/hr)
[Signature]
 Technician Sign.

Shipping Name
 Empty
 Radioactive Material, Limited Quantity, N.O.S.
 Radioactive Material, LSA, N.O.S.
 Radioactive Material, N.O.S.
 Radioactive Material, Special Form, N.O.S.
 Hazard Class: Radioactive Material
 Total Quantity: 3,437.4 Curies
 Limited Quantity: NO YES
 Radionuclide(s): Mixed fission products

Description of Package Contents

Contents	Radio-nuclides	Package Radio-activity (Curies) $\times 10^{-3}$	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (mrem/100cm ²)	Sealed		DOT Label			
											Contact	3'		NO	YES	None Empty	Radioactive LSA	White	Yellow-II
radioactive waste	MFP	4	solid	solid	II	drum	17H	W/A	7.35	185	5	0.4	2M2	X	X				
		32								237	40	1.1	93						
		12								227	15	1.2	2M2						
		11.2								255	14	1.4	93						
		0.32								180	0.4	0.15	2M2						
		5.6								216	7.0	0.8	67						
		9.6								201	12	0.5	93						
		3.2								224	4	0.5	2M2						
		32								253	40	2.0	106						
		0.8								152	1	0.3	2M2						
		2.0								170	2.5	0.5	2M2						
		7.2								220	9	4	2M2						
TOTAL		119.92								88.2	2540								

Shippers Certification
 This is to certify that the above named materials are properly classified, described, packaged, marked and sealed, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.
[Signature]
 Shipper Management Activity

Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only)
 This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.
[Signature]
 Signature of Vehicle Driver

Consignee Acknowledgement of Receipt
 Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.
[Signature]
 Consignee Signature

ANNEX B, P. 1 POOR ORIGINAL

Shipment No. 79-95 Receipt No. _____ Date 6/17/79

Shipped From Name <u>WORLDWIDE TRANSPORT</u> Company <u>WORLDWIDE TRANSPORT</u> Address <u>PO Box 480</u> <u>MIDDLETON, Pa 17057</u> Telephone No. <u>717-948-8000</u> Area _____ Number _____	<input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>World Transport Co</u> Vehicle Type: <u>TRUCK</u> Placard <input checked="" type="checkbox"/> YES	Vehicle Radiation Survey Highest Contact <u>50</u> (MR/hr) 6 ft. Reading <u>1.5</u> (MR/hr) Occupied Area <u>5</u> (MR/hr)	<input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3.4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>MIXED FISSION</u> <u>TRUCKETS</u>
	Shipping Name _____ Technician Sign. <u>Frank York</u>		

Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µm/100cm ²)	Sealed		DOT Label			
											Contact	3'		NO	YES	None	Empty	Radioactive LSA	White
CONNECTED WASTE	MFP	.4	SOLID	SOLID	IF	DRUM	17H	MP	7.35	937	.5	.3	LMDA	X	X				
		2.4								265	3	.3	LMDA						
		.72								220	.9	.3	LMDA						
		.64								152	.8	.3	LMDA						
		.64								224	80	5	151						
										50	4								
CONNECTED WASTE		.40								184	50	.4	70						
		1.2								180	1.5	.3	93						
		.2								254	2.5	.3	LMDA						
		.2								200	2.5	.5	232						
		5.2								267	1.5	2	LMDA						
		12								210	15	.2	LMDA						
TOTAL		130.50								2286									

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, sealed, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. Date _____ Signature _____	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only. Date _____ Signature _____	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. Date _____ Signature _____
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ANNEX B, p.2

POOR ORIGINAL

1072 201

Empty
 Radioactive Material, Limited Quantity, N.O.S.
 Radioactive Material, LSA, N.O.S.
 Radioactive Material, N.O.S.
 Radioactive Material, Special Form, N.O.S.
 Hazard Class: Radioactive Material
 Total Quantity: 3 4377 Curies
 Limited Quantity: NO YES
 Radionuclides: UNIDENTIFIED

Shipping Name: _____
 Highest Contact (MR/hr): 30
 6 ft. Reading (MR/hr): 1.5
 Occupied Area (MR/hr): 5
 Vehicle Radiation Survey: _____
 Technician Sign: [Signature]

Transport Information
 Shipped Received via:
 Truck Car Mail Rail
 Transport Owner: TRUCK
 Vehicle Type: TRUCK
 Operator: [Signature]

Shipped From
 Name: WASTE MANAGEMENT SYSTEMS
 Company: WASTE MANAGEMENT SYSTEMS
 Address: PO BOX 450
MINNEAPOLIS, MN 55407
 Telephone No.: 612-542-8000
 Area: _____ Number: _____

License No.: _____
 License No.: _____
 License No.: _____

Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weights (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µCi/100cm ²)	Sealed	DOT Class
											Contact	3'			
Radioactive Waste WFP	4	58	Solid	Solid	II	Drum	17H	N/A	7.35	177	5	16	LMDA	X	None
		3.2							1	109	110	2	LMDA		
		3.2								186	4	0.3	LMDA		
		8								142	4	1.2	SI		
		4								215	10	1.5	70		
		1.4								136	5	3	LMDA		
		1.4								197	3	1.5	105		
		1.4								218	1.5	1.3	LMDA		
		1.4								267	5.5	6	LMDA		
		1.32								265	1.5	1.2	LMDA		
		80								238	14	1.2	88		
TOTAL		195.96						TOTAL	88.2	2557	100	14.4	LMDA		

HP Foreman/Supervisor Review: [Signature]
 Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only)
 This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.

Consignee Acknowledgement of Receipt:
 Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.

Shippers Certification
 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 the applicable regulations of the Department of Transportation.

Signature of Vehicle Driver: [Signature] Date: _____
 Shippers Copy - Canary
 H.P. File - Pink
 WMA - Goldenrod
 Date: _____
 Consignee Signature: _____ Date: _____

Date 6/17/79

Receipt No.

Shipment No. 79-85

Shipped From
 Name HP Foreman/Supervisor
 Company HP Foreman/Supervisor
 Address P.O. Box 480
INDIANAPOLIS, IN 46201
 Telephone No. 217-948-8000
 Area Number

Transport Information
 Shipped Received via:
 Truck Car Mail Rail
 Transport Carrier: UNITED STATES
UNITED STATES CO.
 Vehicle Type: TRUCK
TRUCK (40 K-Box)
 Placard YES
[Signature]
 Operator

Vehicle Radiation Survey
 Highest Contact 30
 (MR/hr)
 6 ft. Reading 1.5
 (MI/hr)
 Occupied Area 2.5
 (MR/hr)
[Signature]
 Technician Sign.

Shipping Name
 Hazard Class: Radioactive Material
 Total Quantity: 3,4374 Curies
 Limited Quantity: NO YES
 Radionuclide(s): MIXED FISSION
Products

Description of Package Contents

Package Description

Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µpm/100cm ²)	Sealed		DOT Label				
											Contact	3'		NO	YES	None	Empty	Radioactive	White	Yellow II
1	HP	1.56	Solid	Solid	II	drum	17H-112		7.35	910	17	12	LMDA	X						
2		1.04								742	13	13	LMDA							
3		400								744	500	12.0	LMDA							
4		1.6								172	12	.1	LMDA							
5		1.32								265	14	12	LMDA							
6		1.24								449	13	12	52							
7		4								708	170	3.0	52							
8		136								237	180	10	LMDA							
9		144								777	1.5	13	LMDA							
10		1.2								773	1	.3	LMDA							
11		1.8								171	1	13	LMDA							
12		1.8																		
TOTAL		689.12							TOTAL	88.2	2475									

Shippers Certification
 This is to certify that the above named materials are properly classified, described, packaged, marked, or labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only)
 This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.

Consignee Acknowledgement of Receipt
 Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.

Signature of Vehicle Driver [Signature] Date _____
 Consignee Signature _____ Date _____
 HP Foreman/Supervisor Review [Signature]

ANNEX B, p. 4 — POOR ORIGINAL

1072 203

Shipped Receipt No. _____ Date 8/1/79

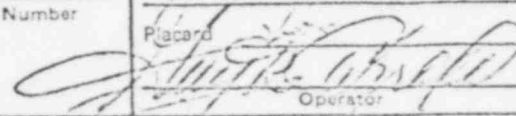
Name <u>HP</u> Company _____ Address _____ City _____ State _____ Zip _____ Consignee License No. _____ Consignee License No. _____ Consignee is authorized to receive this radioactive material at _____ Waste _____	Shipped From Name <u>THREE MILE ISLAND</u> Company <u>WESTINGHOUSE</u> Address <u>P.O. Box 480</u> <u>SHIPPINGTON, PA 17057</u> Telephone No. <u>717-948 8000</u> Area _____ Number _____	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>PA STATE</u> <u>IND. TRAILER CO.</u> Vehicle Type: <u>TRUCK</u> <u>TRAILER (40 FT BOX)</u> Placard <u>YES</u> <u>Operator</u>	Vehicle Radiation Survey Highest Contact <u>.30</u> (MFI/hr) 6 ft. Reading <u>1.5</u> (MFI/hr) Occupied Area <u>.5</u> (MFI/hr) <u>Paul K. York</u> Technician Sign.	<input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3,4574</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>MIXED FISSILE PRODUCTS</u>
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DOT 113	Description of Package Contents							Package Description										
	Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)	External Loose Cont Level (µCi/100cm ²)	Sealed	None	Empty	Radio-Active	DOT 113
	COOLING WASTE	UFP	1.2	SOLID	SOLID	II	DRUM	17H	MA	7.35	235	1.5	.4	LMDA	X			
			2.4								990	3	.6	LMDA				
			1.2								999	1.5	.5	LMDA				
			2.4								268	3	.5	LMDA				
			.48								189	.6	.3	LMDA				
			11.6								160	.2	.2	LMDA				
			1.04								114	1.3	.3	LMDA				
			24								153	30	1	LMDA				
			4								905	5	.5	LMDA				
			8.8								309	11	.8	LMDA				
			5.6								126	7	.4	LMDA				
			9.8								144	3.5	.9	LMDA				
	TOTAL		54.08							TOTAL	88.2	2435						

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.	Instructions for Maintenance or Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignee named in block 2 to indicate receipt of this shipment.
<u>Management Activity</u>	<u>Signature of Vehicle Driver</u> <u>Date</u>	<u>Consignee Signature</u> <u>Date</u>

ANNEX B, P. 5
POOR ORIGINAL

Shipment No. 79-85 Receipt No. Date 8/17/79

<input type="checkbox"/> Shipped Name <u>THE STATE TRANSIT CO</u> Company <u>THE STATE TRANSIT CO</u> Address <u>PO BOX 1111</u> <u>INDIANAPOLIS, IN 46201</u> Telephone No. <u>712-448-8000</u> Area Number	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>THE STATE</u> <u>INDIANAPOLIS TRANSIT CO</u> Vehicle Type: <u>TRACTOR</u> <u>TRACTOR (4011.5X)</u> Placard  Operator		Vehicle Radiation Survey Highest Contact <u>3.2</u> (MR/hr) 6 ft. Reading <u>1.5</u> (MR/hr) Occupied Area <u>1.5</u> (MR/hr) Placard <u>Radioactive</u> Technician Sign.	Shipping Name <input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: Radioactive Material Total Quantity: <u>3.4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>UNIDENTIFIED FISSION PRODUCTS</u>
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Description of Package Contents							Package Description															
Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (cpm/100cm ²)	Scaled		DOT Label						
											Contact	3'		NO	YES	None	Empty	Radioactive	LSA	White-I	Yellow-II	Yellow-III
3	Solid Waste	HP	3.3	Solid	Solid	II	Drum	17H	NA	7.35	283	4	1.5	LNDA	X	X						
4			4								304	5	1.6	70								
5			1.2								396	1.5	1.3	LNDA								
6			2.4								155	3	1.3	LNDA								
7			4								162	5	1.5	LNDA								
8			240								169	200	8	LNDA								
9			164								180	15	1.3	LNDA								
10			160								211	900	3.8	LNDA								
11			24								163	30	3	80								
12			32								182	40	19	LNDA								
13			8.0								161	10	1.7	LNDA								
14			3.2								176	40	1.5	239								
TOTAL			511.44								TOTAL 88.2	2422										

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. Date <u>8/17/79</u> Signature of Shipper <u>[Signature]</u> Title <u>Shipper</u>	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only. Signature of Vehicle Driver <u>[Signature]</u> Date	Consignee Acknowledgment of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. Signature of Consignee <u>[Signature]</u> Date
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ANNEX B, p.6

POOR ORIGINAL

1072 205

<input type="checkbox"/> Shipped Company <u>1-5</u> Address <u>1-1-1-1</u> Shipment On Consignee License No. Consignee State License No. <u>1-1-1-1</u> Consignee is authorized to receive radioactive material Waste description	Shipped From Name <u>INDIAN GENERATION SUPPLY</u> Company <u>INDIAN GENERATION SUPPLY</u> Address <u>PO BOX 450</u> <u>MOOREHEAD LA 70571</u> Telephone No. <u>717-948-8000</u> Area Number	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>TRISTATE</u> <u>MARK TRUCK CO</u> Vehicle Type: <u>TRUCK</u> <u>TRAILER (40 FT BOX)</u> Placed <u>YES</u> Operator <u>[Signature]</u> Technician Sign. <u>[Signature]</u>	Vehicle Radiation Survey Longest Contact <u>30</u> (MH/hr) 6 ft. Reading <u>1.5</u> (MH/hr) Occupied Area <u>1.5</u> (MH/hr) Shipping Name <input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3.4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>MIXED FISSION PRODUCTS</u>
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Intents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (cpm/100cm ²)	Sealed		DOT Labels				
											Contact	3'		NO	YES	None	Empty	Radioactive	Whisker	
5	COMPASS WASTE	MFP	40	SOLID	SOLID	II	Drum	171-1	N/A	7.35	352	5	1.6	4MRA	X	X				
6			18								224	1	1.2	77						
7			18								238	1	1.6	184						
8			120								193	150	2	208						
9			104								266	130	3.5	4MRA						
1			9.6								223	12	1.5	303						
3			8								140	10	2	65						
1	Non transportable		132								409	14	1.2	42						
2	COMPASS WASTE		18								169	1	1.2	42						
2	COMPASS WASTE		2.4								559	3	1.3	42						
3	COMPASS WASTE		6.4								287	8	1.6	4MRA						
2			1.6								210	2	1.3	3MRA						
TOTAL			257.12								2960									

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, and sealed, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. [Signature] Ship Management Activity	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only. [Signature] Signature of Vehicle Driver	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. [Signature] Consignee Signature
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ANNEX B, p.7 POOR ORIGINAL

80414
 Shipment No. 79-85

Receipt No. _____

Date 8/17/79

Shipped From Name <u>Three Mile Island Nuclear Generating Station</u> Company <u>Station</u> Address <u>Metropolitan Edison</u> <u>P.O. Box 480</u> <u>Middletown, PA 17057</u> Telephone No. <u>717-448-8000</u> Area _____ Number _____	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>The State</u> <u>Motor Transit Co</u> Vehicle Type: <u>Tractor</u> <u>Tractor (40ft box)</u> Placard <u>Yes</u> <u>Operator</u>	Vehicle Radiation Survey Highest Contact <u>30</u> (MR/hr) 6 ft. Reading <u>1.5</u> (MR/hr) Occupied Area <u>0.5</u> (MR/hr) Technician Sign. <u>[Signature]</u>	<input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: Radioactive Material Total Quantity: <u>3.4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>Mixed Fission Products</u>
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Contents	Radio-nuclides	Package Radio-activity (Curies)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µpm/100cm ²)	Sealed		DOT Label					
											Contact	3'		NO	YES	None	Empty	Radioactive LSA	White-I	Yellow-II	Yellow-III
3 Sealed Waste	MFP	1.6	Solid	Solid	II	Drum	17H	41A	7.35	210	2	13	LMDA	X	X						
1 Sealed Waste		240								183	300	12	LMDA								
1 Sealed Waste		4								387	5	15	LMDA								
1 Sealed Waste		1.14								429	1.3	.4	LMDA								
1 Sealed Waste		2.4								353	30	.5	LMDA								
		41.8								215	6	.25	LMDA								
		10.4								236	13	1	LMDA								
		24								216	30	1	LMDA								
		.96								190	1.2	.3	66								
		.32								177	.4	.2	110								
		.48								933	16	.15	47								
		.8								242	1	.2	LMDA								
TOTAL		312.4								582	2971										

Shippers Certification 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 the applicable regulations of the Department of Transportation. [Signature] Veta Management Activity	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only. [Signature] Signature of Vehicle Driver	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. [Signature] Consignee Signature
Date _____	Date _____	Date _____

ANNEX E, p. 8 - POOR ORIGINAL

Shipment No. 79-85 Receipt No. Date 8/7/79

Shipped From Name <u>Three Mile Island</u> Company <u>Metropolitan</u> Address <u>Edison Co</u> City <u>Edison Pa 17037</u> Telephone No. <u>717-948-8000</u> Area <u>717</u> Number <u>948-8000</u>	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>Ten State</u> <u>Motor Transit Co</u> Vehicle Type: <u>Tractor</u> <u>Traylor (40ft box)</u> Placard <u>None</u> Operator <u>[Signature]</u>	Vehicle Radiation Survey Highest Contact <u>30</u> (MR/hr) 6 ft. Reading <u>1.5</u> (MR/hr) Occupied Area <u>0.5</u> (MR/hr)	Shipping Name <input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3.9374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>Mixed fission products</u>
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Contents	Radio-nuclides	Package Radio-activity (Ci/g)	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µpm/100cm ²)	Sealed		DOT Label			
											Contact	3'		NO	YES	None	Empty	Radioactive LSA	White
1 Contaminated WASTE	MFP	11.6	solid	solid	II	drum	17H	N/A	7.35	194	2	1	LNDA	X					
8		1.72								198	19	2	LNDA						
7		4.8								207	6	2	LNDA						
2		2.4								251	3	5	LNDA						
7		1.24								257	3	15	61						
3		1.1								280	2	1	LNDA						
1		4.8								244	6	3	LNDA						
2		.8								275	1	3	88						
3 Contaminated WASTE		1.6								439	2	5	LNDA						
7 Contaminated WASTE		7.2								371	9	19	42						
1 Contaminated WASTE		4								198	5	12	54						
5		10.4								270	13	2	LNDA						
TOTAL		37.28								3214									

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, sealed, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. [Signature] Date	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only. [Signature] Date	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. [Signature] Date
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ANNEX B, P. 9 POOR ORIGINAL

POOR ORIGINAL

Empty
 Radioactive Material, Limited Quantity, N.O.S.
 Radioactive Material, LSA, N.O.S.
 Radioactive Material, N.O.S.
 Radioactive Material, Special Form, N.O.S.

Shipping Name: _____
 Hazard Class: Radioactive Material
 Total Quantity: 3,4374 Curies
 Limited Quantity: NO YES
 Radionuclide(s): Mixed Fission Products

Date: 8/17/79
 Receipt No.: _____
 Vehicle Radiation Survey: _____
 Highest Cont. at: 130 (MIR/hr)
 6 ft. Reading: 1.5 (MIR/hr)
 Occupied Area: 2.5 (MIR/hr)

Transport Information:
 Shipped Received via:
 Truck Car Rail
 Transport Owner: Dr. ...
 Vehicle Type: Tractor
 Placed: 4051
 Operator: ...
 Technician Sign: ...

Shipped From:
 Name: Three Mile Island
 Company: Electric Power Co.
 Address: Edison Co., Box 450
Middletown Pa 17057
 Telephone No.: 717-945-8000

Consignee License No.: _____
 Consignee License No.: _____
 Consignee License No.: _____
 Consignee License No.: _____

Contents	Radio-nuclides	Package Radio-activity (Curies) X10	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µm/100cm ²)	Sealed	I.D. DOT Label	
											Contact	3'			NO	YES
14 Contaminated Waste	MFP	24	solid	solid	II	drum	17H	M/A	735	148	.3	2	LMPA	X		X
15		4								198	5	14	LMPA			
16		136								188	170	10	LMPA			
17		5.6								242	17	14	LMPA			
18		8.0								185	100	2	LMPA			
19		1.6								235	2	13	72			
20		980								248	350	4	46			
21		4								178	5	1	LMPA			
22		24								335	30	13	335			
23		1.6								91	2	1.1	77			
24		8								271	10	1.5	LMPA			
25		2								242	2.5		LMPA			
TOTAL		549.64								2560	2560					

Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicles only)
 This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.

Signature of Vehicle Driver: ... Date: _____
 Signature of Shipper: ... Date: _____
 Signature of Consignee: _____ Date: _____

HP Foreman/Supervisor Review: ...
 HP Foreman/Supervisor Review: _____

Consignee Acknowledgement of Receipt
 Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.

Shippers Copy - _____
 Shipments - White _____
 File - Pink _____
 WMA - Goldenrod _____
 Date: _____
 Signature: _____
 Date: _____

5 License No. License No.: License No.:	Shipped From Name: <u>Three Mile Island</u> Company: <u>Metropolitan Edison</u> Address: <u>Box 480</u> <u>Middletown PA.</u> <u>17057</u> Telephone No. <u>717-948-8000</u> Area Number	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>The State</u> <u>Motor Transport</u> Vehicle Type: <u>Tractor</u> <u>Trailer (40ft box)</u> Operator: <u>[Signature]</u> Technician Sign. <u>[Signature]</u>	<input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3.4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>Mixed Fission Products</u>
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Description of Package Contents Package Description

Contents	Radio-nuclides	Package Radio-activity (Curies) x10 ⁻³	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µSv/100cm ²)	Sealed		None	Empty	Radioactive LSA	Waste
											Contact	3'		NO	YES				
WASTE	MFP	1.6	SOLID	SOLID	II	DRUM	1711	N/A	7.35	198	2	0.1	<MDA	X					
		.32								190	.4	.2	<MDA						
		3.2								268	4	1	<MDA						
		.08								178	.1	.05	<MDA						
		56								230	70	3	E1						
		1.6								271	2	1	<MDA						
		4								237	5	.4	171						
		.56								209	.7	.3	<MDA						
		8								240	10	.3	<MDA						
		128								254	100	10	<MDA						
		2.4								220	3	.3	<MDA						
		1.6								264	2	.2	<MDA						
TOTAL		207.36								2541									

Shippers Certification This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.
[Signature] Management Activity	[Signature] Signature of Vehicle Driver	[Signature] Consignee Signature
	Date	Date

POOR ORIGINAL

ANNEX B, p.11

19-8-5 Receipt No. Date 8/19/79

Shipped From: Name Thames Valley University, Company Thames Valley University, Address 70 Blue Bell Pike, Middletown, Pa. 17057, Telephone No. 717-948-8000

Transport Information: Shipped via Truck Car Mail Rail, Transport Owner Thames Valley University, Vehicle Type Truck, Occupied Area 11,162 (43 ft x 30 ft)

Vehicle Radiation Survey: Highest Contact 30 (MR/hr), 6 ft. Reading 1.5 (MR/hr), Occupied Area 11,162 (43 ft x 30 ft), Technician Sign. [Signature]

Package Description: Max. Exp. Rate (mrem/hr) Contact 3' 1.5, .2, .1, .4, 4, 2, .4, 1.5, 1.3, .6, .4, .3, 20

External Loose Cont. Level (MPC/100cm²) <MDA, <MDH, <MDA, <MDA, <MDA, <MDA, <MDH, 720, 119, 162, <MDA, 76

Sealed YES NO

DOT Spec. No. 17H, USNRC Volume I.D. Marking MA, Weight (lbs) 217, 170, 215, 164, 266, 228, 191, 399, 135, 135, 176, 109, 2388

Chemical Form SOLID, Type (box, drum, ect) DRUM, Trans. Group No. II

Physical Form SOLID, Radio-nuclides MFP, Package Radio-activity (Curies) .4, .24, 4, 32, 60, 2.4, 2.4, 1.04, 7.2, 2.4, 2.4, 16, 15268

DOT Label 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

HP Foreman/Supervisor Review [Signature], Consignee Acknowledgement of Receipt [Signature]

POOR ORIGINAL

Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only): This vehicle shall not be used to carry packages from another consignee. The packages in this vehicle shall be unloaded by the consignee named in block 1 or his designated agent only.

Shippers Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

1072 21

12 007 79-85

Receipt No.

Date

Empty
 Radioactive Material, Limited Quantity, N.O.S.
 Radioactive Material, LSA, N.O.S.
 Radioactive Material, N.O.S.
 Radioactive Material, Special Form, N.O.S.
 Hazard Class: Radioactive Material
 Total Quantity: 34374 Curies
 Limited Quantity: NO YES
 Radionuclide(s): INX-113/131
1,2,3,4,5

Shipped From: INX-113/131
 Name: INX-113/131
 Company: INX-113/131
 Address: INX-113/131
 Telephone No.: 27-940-8000
 Area: _____ Number: _____
 Shipped via: Truck Car Mail Rail
 Transport Owner: INX-113/131
 Vehicle Type: TRUCK
 Operator: INX-113/131
 Received via: Truck Car Mail Rail
 Transport Owner: INX-113/131
 Vehicle Type: TRUCK
 Operator: INX-113/131

Vehicle Radiation Survey
 Highest Contact: 30 (MR/hr)
 6 ft. Reading: 1.5 (MR/hr)
 Occupied Area: _____
 Technician Sign: INX-113/131

DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)	External Cont. Level (µm/100cm ²)		Sealed		I DOT Labels	
					NO	YES	NO	YES	None	Radioactive
17H	MA	7.35	258	17	1	16.2	X	X	X	
			228	130	5.5	95				
			241	63	.2	<MDA				
			178	70	2	<MDA				
			173	.3	.2	<MDA				
			242	1.9	.3	<MDA				
			159	.35	.2	<MDA				
			217	.7	.2	<MDA				
			231	2	.5	<MDA				
			243	14	.7	75				
			159	2.5	.3	168				
			242	15		MDA				
TOTAL			28.2							

Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only)
 This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block or his designated agent only.

Shipper's Certification
 This is to certify that the above named materials are properly certified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Signatures of Vehicle/Driver: INX-113/131
 Signature of Shipper/Canary: INX-113/131
 Signature of Vehicle/Driver: INX-113/131
 Signature of Shipper/Canary: INX-113/131
 Signature of Vehicle/Driver: INX-113/131
 Signature of Shipper/Canary: INX-113/131

Date: _____
 Date: _____
 Date: _____
 Date: _____

HP Foreman/Supervisor Review: INX-113/131
 HP Foreman/Supervisor Review: INX-113/131
 HP Foreman/Supervisor Review: INX-113/131
 HP Foreman/Supervisor Review: INX-113/131

Consignee Acknowledgment of Receipt
 Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment.

Shipment/White: _____
 Shippers Copy - Canary: _____
 H.P. File - Pink: _____
 WMA - Goldenrod: _____
 TM-117 7-79

140217 No. 79-85 Receipt No. Date 8/7/79

Shipped From Name: <u>Water Transit Co</u> Company: <u>Metropolitan Edco</u> Address: <u>PO Box 480</u> <u>Middletown Pa</u> <u>17057</u> Telephone No. <u>717-948-8000</u> Area Number	Transport Information <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Received via: <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Car <input type="checkbox"/> Mail <input type="checkbox"/> Rail Transport Owner: <u>Ten State</u> <u>Water Transit Co</u> Vehicle Type: <u>Tractor</u> <u>Trailer (40ft box)</u> Placed <u>Yes</u> <u>Shipped under (10)</u>		Vehicle Radiation Survey Highest Contact <u>30</u> (MFI/hr) 6 ft. Reading <u>1.5</u> (MAR/hr) Occupied Area <u>0.5</u> (MFI/hr)	<input type="checkbox"/> Empty <input type="checkbox"/> Radioactive Material, Limited Quantity, N.O.S. <input checked="" type="checkbox"/> Radioactive Material, LSA, N.O.S. <input type="checkbox"/> Radioactive Material, N.O.S. <input type="checkbox"/> Radioactive Material, Special Form, N.O.S. Hazard Class: <u>Radioactive Material</u> Total Quantity: <u>3,4374</u> Curies Limited Quantity: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Radionuclide(s): <u>Mixed Fission Products</u>
	Shipping Name: _____		Technician Sign: <u>Beck Z. York</u>	

Contents	Radio-nuclides	Package Radio-activity (Curies) X 10 ⁻³	Physical Form	Chemical Form	Trans. Group No.	Type (box, drum, ect.)	DOT Spec. No.	USNRC I.D. Marking	Volume (ft ³)	Weight (lbs)	Max. Exp. Rate (mrem/hr)		External Loose Cont. Level (µSv/100cm ²)	Sealed		None Empty Radioactive	DOT
											Contact	3'		NO	YES		
<u>Radioactive Waste</u>	<u>MFP</u>	<u>.4</u>	<u>SOLID</u>	<u>SOLID</u>	<u>II</u>	<u>DRUM</u>	<u>174</u>	<u>MA</u>	<u>7.35</u>	<u>280</u>	<u>.5</u>	<u>.3</u>	<u><MDA</u>	<u>X</u>	<u>X</u>		
		<u>1.2</u>								<u>180</u>	<u>1.5</u>	<u>.5</u>	<u><MDA</u>				
		<u>20</u>								<u>300</u>	<u>25</u>	<u>1</u>	<u><MDA</u>				
<u>TOTAL SHIPMENT NET WT - 35,006 LBS</u>																	
TOTAL		<u>21.6</u>					TOTAL	<u>22.05</u>	<u>760</u>								

Shippers Certification This is to certify that the above named materials are properly identified, described, packaged, marked, labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. <u>HP Foreman/Supervisor Review</u>	Instructions for Maintenance of Exclusive Use Controls (Exclusive use vehicle only) This vehicle shall not be used to carry packages from another consignee. The packages on this vehicle shall be unloaded by the consignee named in block 1, or his designated agent only. <u>Signature of Vehicle Driver</u>	Consignee Acknowledgement of Receipt Consignee, please sign and return a copy of this record to the consignor named in block 2 to indicate receipt of this shipment. <u>Consignee Signature</u>
<u>Management Activity</u>	<u>Date</u>	<u>Date</u>

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ANNEX B, p.14 POOR ORIGINAL

252607
SHIPPER'S NUMBER
1618-1

From **THREE HILLS**
At **APPLETON, I.A.**
ORIGINATING CARRIER **TAI STATE MOTORS**
CONSIGNEE TO **MECO**
DESTINATION **RICHLAND WASHINGTON**
DELIVERY ADDRESS **HANFORD WASHINGTON**
CONNECTING CARRIER ()
DELIVERING CARRIER ()
TRACTOR NO. **919**
TRAILER NO. **A406573**

EXECUTIVE OFFICES
P.O. BOX 113, JOPLIN, MO. 64801

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.

NUMBER PACKAGES	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CK. COL.
157	RADIO ACTIVE MATERIAL - L.S.A. NOS. (EXCLUSIVE USE OF TRAILER)	3500 lb	LBS	WT
		3500 lb	LBS	WT

(Signature of consignor)
If charges are to be prepaid write or stamp here. To be Prepaid
Rec'd \$ _____ 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. \$ _____

UNLESS A GREATER VALUE IS DECLARED, THE SHIPPER HEREBY RELEASES THE VALUE TO \$5000.00 PER TON OF 2000 POUNDS FOR EACH ARTICLE

ARRIVED AT SHIPPER	DATE	TIME A.M./P.M.	PREARRANGED SCHEDULE	YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE	TIME A.M./P.M.	LOADING STARTED	DATE	TIME A.M./P.M.
LOADING COMPLETED	DATE	TIME A.M./P.M.	VEHICLE RELEASED	DATE	TIME A.M./P.M.	SHIPPER'S SIGNATURE			
PERMANENT POST OFFICE ADDRESS OF SHIPPER						SHIPPER, PER			

AGENT, PER
POOR ORIGINAL

SIGNATURE TALLY RECEIPT

Must be filled out and signed at origin and each time the shipment changes custody.

DATE SHIPMENT RECEIVED FROM CONSIGNOR	3RD TIME CARGO CHANGED CUSTODY	6TH TIME CARGO CHANGED CUSTODY
DATE: 8/10/79 TIME: 9:00 AM TRACTOR NO.: 919 DRIVERS SIGNATURE: [Signature] HOME TERMINAL: [Signature]	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____
DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____
DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____	DATE: _____ TIME: _____ AM/PM TRACTOR NO.: _____ DRIVERS SIGNATURE: _____ HOME TERMINAL: _____

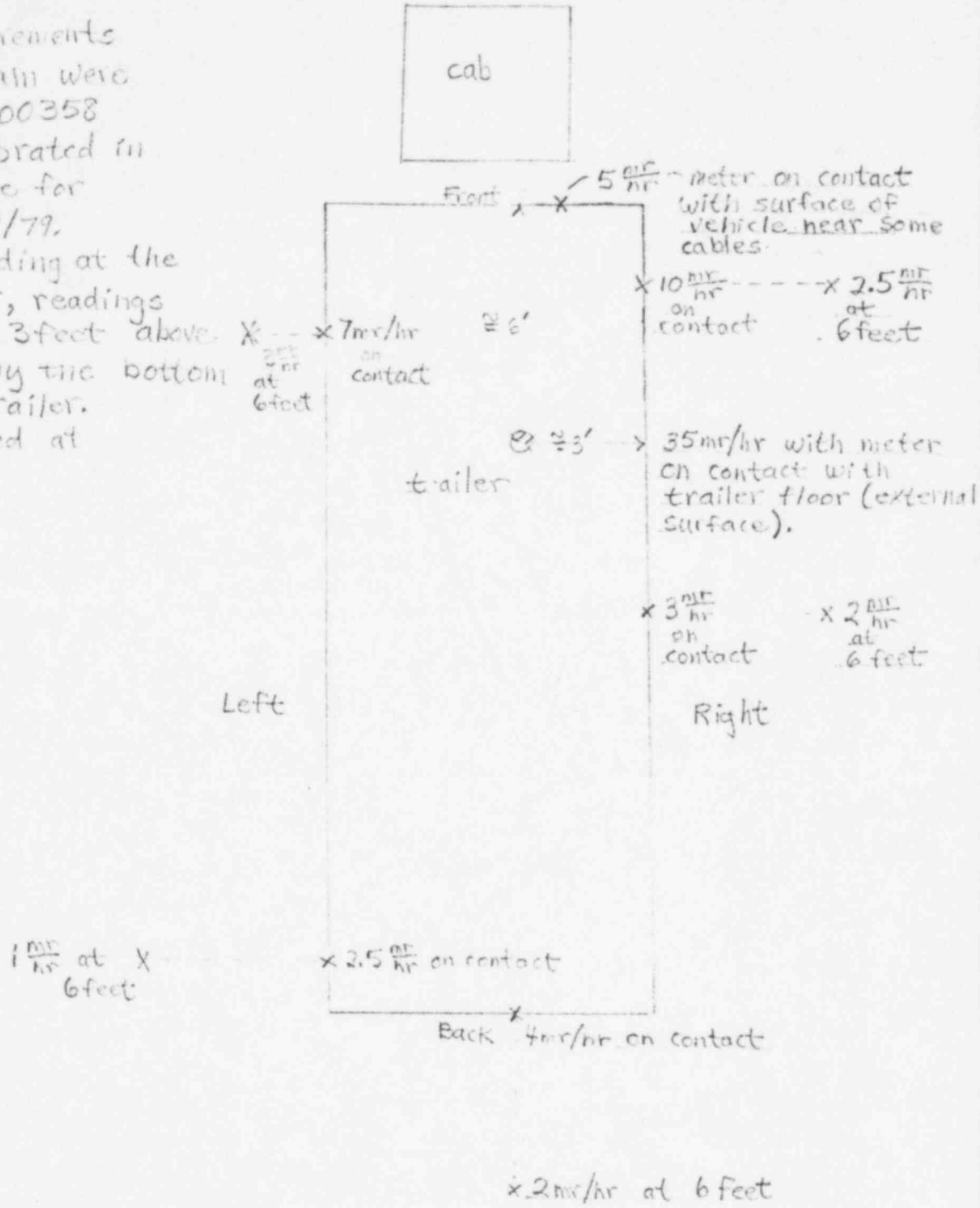
ARRIVED AT CONSIGNEE	DATE: 8/10/79	TIME: 8:50 AM	PREARRANGED SCHEDULE	YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE: _____	TIME: _____	UNLOADING STARTED	DATE: 8/11/79	TIME: 10:00 AM
UNLOADING COMPLETE	DATE: 8/11/79	TIME: 1:00 PM	VEHICLE RELEASED	DATE: 8/11/79	TIME: 1:30 AM	CONSIGNEE'S SIGNATURE: [Signature]			

RECEIVED THE ABOVE DESCRIBED PROPERTY IN GOOD CONDITION EXCEPT AS NOTED

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POOR ORIGINAL

Radiation level measurements shown on this diagram were made with NRC #000358 Minimonitor II calibrated in June of 1979 and due for recalibration on 9/9/79. Except for the reading at the front of the trailer, readings were made about 3 feet above the plane formed by the bottom surface of the trailer. Trailer doors closed at time of survey.



Radiation Level Measurements taken
August 11, 1979

Locations of Contamination Swipes taken
August 10 and 11, 1979

Swipes taken over areas of approximately 100 cm².
Swipes were counted on August 13, 1979 on the Region V NMC
PC-55 gas flow proportional counter with NRC # 000383.
Results indicated no significant removable contamination
above background level.

POOR ORIGINAL

Swipes taken August 10, 1979 (See ANNEX A)

- A left side trailer
- B right side trailer, bottom left corner of door:
- C front of trailer
- D back of trailer

Swipes taken August 11, 1979

- 1) The back door of the trailer was opened, and two layers of drums were revealed. The top drum, left row was checked for possible contamination. The side of the drum was swiped.
- 2) The lid of a drum near the back door of the trailer was swiped.
- 3) The deck of the trailer was swiped.
- 4) The underside of the vehicle, near the right back tires was swiped.
- 5) The underside of the vehicle at the location shown on ANNEX D as measuring 35m²/hr was checked for contamination.
- 6) A barrel on the left side of the trailer at the doorway was swiped.
- 7) A barrel on the right side of the trailer at the doorway was swiped.