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The University of Michigan

MICHIGAN MEMORIAL – PHOENIX PROJECT
PHOENIX MEMORIAL LABORATORY FORD NUCLEAR REACTOR
ANN ARBOR, MICHIGAN 48109-2100

Date: September 21, 1999

To: Susan Shankman
 Deputy Director, Office of NMSS
 U. S. Nuclear Regulatory Commission
 Washington, DC 20055

50-2

Subject: Shipment of Irradiated Reactor Fuel

References: 10 CFR 73.37, *Requirements for physical protection of irradiated reactor fuel in transit.*
 10 CFR 73.72, *Requirements for advance notification of shipment of formula quantities of strategic special nuclear material, special nuclear material of moderate strategic significance, of irradiated reactor fuel.*
 10 CFR 73.21, *Requirements for the protection of safeguards information.*

Enclosed are two sets of advance notification packages for several shipments of irradiated reactor fuel.

One set is for your office, and the other set is for the Division of Industrial & Medical Nuclear Safety.

I also confirm that armed escorts will be provided as required and that the governors or their designees will or have been notified for these shipments.

Scheduling considerations have forced us to cancel one shipment that was originally planned to be in this series. These shipments are now the last ones scheduled for this year.

Please contact me if you have any questions.

Sincerely,

Christopher W. Becker
Reactor Laboratory Manager
cwbecker@umich.edu

- Encl (2 packages):
1. Description of Shipment
 2. *Route Details
 3. *Fuel Shipment Schedule

~~NMSS~~

NMSS05PROP

05000002740 y

Description of Shipment

Shipment I.D. : R28-1999-2 (Second in a sequence of 3)

Shipper: The University of Michigan
Phoenix Memorial Laboratory
2301 Bonisteel Blvd
Ann Arbor, MI 48109-2100
(734) 764-6220
(734) 855-3574 {Mr Christopher Becker - 24 hr/day}

Carrier: Tri-State Motor Transit
8141 East Seventh Street
Joplin, MO 64801
(800) 234-8768
(208) 526-1515 {24 hr/day Communication Center}

Receiver: Mr. David Blanchard
Westinghouse Savannah River Company
Building 105L
Savannah River Site
Aiken, SC 29802
(803) 557-6087
(803) 557- {24 hr/day}

Description: Radioactive Material, Fissile, NOS, 7, UN2918, 1216 grams U-235
Mixed Fission Products (MFP), 840.75 TBq (22723 Curies)
Physical Form: Solid. Chemical Form: UAlx-Al
Radioactive Yellow III Label, Transport Index = 100
*Warning-Fissile Material, controlled shipment. Do not load more than 1 package per
vehicle. In loading and storage areas, keep at least 6 meters (20 feet) from other
packages bearing radioactive materials.*
One BMI-1 Cask, Type B; USA/5957/B()F, Cask Seal #s TBD.
Exclusive Use Shipment, Highway Route Controlled Quantity.

Radioactive Material, Excepted Package, Limited Quantity of Material, 7, UN2910
One toolbox.

This Irradiated Reactor Fuel is from Ford Nuclear Reactor, a 2 MW MTR-type research facility
utilizing <20% enriched U-235.

Transportation Route: By road. Details enclosed. No transfer points.

Safeguards information: Transportation Schedule (enclosed).

05000002750y

Description of Shipment

Shipment I.D. : R28-1999-3 (Third in a sequence of 3)

Shipper: The University of Michigan
Phoenix Memorial Laboratory
2301 Bonisteel Blvd
Ann Arbor, MI 48109-2100
(734) 764-6220
(734) 855-3574 {Mr Christopher Becker - 24 hr/day}

Carrier: Tri-State Motor Transit
8141 East Seventh Street
Joplin, MO 64801
(800) 234-8768
(208) 526-1515 {24 hr/day Communication Center}

Receiver: Mr. David Blanchard
Westinghouse Savannah River Company
Building 105L
Savannah River Site
Aiken, SC 29802
(803) 557-6087
(803) 557- {24 hr/day}

Description: Radioactive Material, Fissile, NOS, 7, UN2918, 1205 grams U-235
Mixed Fission Products (MFP), 936.7 TBq (25317 Curies)
Physical Form: Solid. Chemical Form: UAlx-Al
Radioactive Yellow III Label, Transport Index = 100
*Warning-Fissile Material, controlled shipment. Do not load more than 1 package per
vehicle. In loading and storage areas, keep at least 6 meters (20 feet) from other
packages bearing radioactive materials.*
One BMI-1 Cask, Type B, USA/5957/B()F, Cask Seal #s TBD.
Exclusive Use Shipment, Highway Route Controlled Quantity.

Radioactive Material, Excepted Package, Limited Quantity of Material, 7, UN2910
One toolbox.

This Irradiated Reactor Fuel is from Ford Nuclear Reactor, a 2 MW MTR-type research facility
utilizing <20% enriched U-235.

Transportation Route: By road. Details enclosed. No transfer points.

Safeguards information: Transportation Schedule (enclosed).