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Research Park Columbia, Missouri 65211 Telephone (314) 882-4211 FAX [314] 882 = 3443

Research Reactor Center

August 11, 1995

050-00186 R-103

05000186(204

Ms. Gloria Bennington Spent Fuel Project Office U.S. NRC, MS TWFN 8 F-5 1 Whiteflint North 11545 Rockville Pike Rockville, MD 20852-2738

SUBJECT:

Shipment of Spent Fuel: Radioactive Material, Fissile, N.O.S., UN2918, Highway Route Controlled Quantity.

The enclosed envelope contains information regarding radioactive spent fuel shipments from the University of Missouri Research Reactor. This information has been classified as SAFEGUARDS INFORMATION as per 10CFR73.21(b)2. No person may have access to Safeguards Information unless the person has an established "need to know" for this information and is authorized per 10CFR73.21(c). Regulations prevent the disclosure of this information over unsecured telephone communications except that the reporting of schedule changes are permitted to be made by phone in the form of time deviations from the original schedule. Please deliver the enclosed envelope which contains Safeguards Information to the addressee on the envelope. If this person is no longer employed at your facility or will be absent for an extended period, please call (314) 882-5205 for the correct disposition of this material.

Armed escorts have been arranged for St. Louis, Nashville, Knoxville, Asheville, and Greenville-Spartanburg, for these spent fuel shipments. Also, governors' designees of Missouri, Illinois, Kentucky, Tennessee, North and South Carolina have been mailed notifications.

The following information and the enclosed SAFEGUARDS INFORMATION are supplied to comply with 10CFR73.37(f)(i)(ii)(iii).

Shipper:

University of Missouri Research Reactor Center Columbia, MO 65211 Phone: (314) 882-5205 (Roland A. Hultsch)

Carrier:

Tri-State Motor Transit Co

U.S. DOE Idaho Operations Office

785 DOE Place

Idaho Falls, ID 83403 Phone: (208) 526-2415

(Keith Nelson)

Receiver:

Department of Energy

Westinghouse Savannah River Company

Savannah River Site 731-1G Receiving Aiken, SC 29802 Matthew J. Beckum Building 244-H

Phone: (803) 557-8773



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49CFR172.202(a)(1)(2)(3)(4)

Proper shipping name, hazard class, identification number, gross weight

172.203(c)

RQ radioactive material, fissile, n.o.s., radioactive material UN2918, 25,000 lbs.

RQ (Reportable Quantity) 1.5 kg of fission products; 5.0 kg U-235

49CFR172.203(d)(1)

(i) 173.435, radionuclides

MFP (Mixed Fission Products)

(ii) Physical and chemical form

Solid metallic, UAl<sub>3</sub> and Al mixed with fission products trapped in this matrix. The UAl<sub>x</sub>--Al-fission product material is clad with aluminum as fuel plates of MTR-type (Materials Testing Reactor) fuel elements.

(iii) Activity (Curies)

185,000

49CFR173.403(1)(3)

Greater than 30,000 Ci, so highway route controlled quantities.

(iv) Label category

RADIOACTIVE YELLOW III because it is highway route controlled quantity.

(v) Transport index

Based on measurement of radiation level at 3.3 ft. from cask cover. This is measured at the time of shipment, and in our past shipments, has been < 0.5 millirem/hr. Hence TI = .5 per 49CFR173.403(bb)(1). (The DOT has confirmed that this section, and not 49CFR173.403 (bb)(2), is applicable.)

(vi) Fissile class

III per 49CFR173.455(a)(3). This means by 49CFR 173.457(b)(1) that transport must be with exclusive use of shipper.

(vii) Package identification number

USA/5957/B()F (Model No. BMI-1)

Mode of transport

Roland S. Hultsel

Highway truck, exclusive use. No transfer points. Route enclosed as Safeguards Information.

Sincerely yours,

Roland A. Hultsch Reactor Physicist

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Enclosure: SAFEGUARDS INFORMATION