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715 Horizon Drive Grand Junction, Colorado 81501 (303) 245-4320 TWX: 9109296334

Weinbergstrasse 9 8001 Zurich, Switzerland (01) 470844 Telex: 57275

November 13, 1981

FLD/81/82/ETS

Director, Division of Safeguards U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Gentlemen:

The Atomic Energy of Canada Limited Research Company has requested the Nuclear Assurance Corporation, acting as their agent, to request approval for certain alternate routes for the planned irradiated fuel shipments from the Chalk River Nuclear Laboratories to the Department of Energy's Savannah River facility.

In accordance with their request and with the guidelines for submittal contained in NUREG-0561, the following information is provided:

1. Cargo Description

- (approximately) 150 NRU and NRX aluminum-uranium alloy fuel rods
- Model No. NLI-6502, AECL Cask Package No. USA/9103/B()F
- Loaded weight of transport vehicle is (approximately) 70,000 lbs.

2. Anticipated Schedule

- Six shipments, (approximately) 25 assemblies per shipment
- Shipment campaign duration is 10 weeks (estimate)
- Proposed start date is May 18, 1982

Route Description

Origin:

Atomic Energy of Canada Limited Chalk River Nuclear Laboratories Chalk River, Ontario, Canada KOJ 1JO

PDR X PORT : ISNM-51005

8201060245 XA

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- Destination: U. S. Department of Energy
Savannah River Operations
E. I. du Pont de Nemours & Co.
Savannah River Plant
Dunbarton, South Carolina 29801

- Proposed Route

Four alternate routes for these shipments are proposed, designated as indicated below.

	Alternate Route 1		Miles
	AECL site to Port of Entry Port of Entry: Port Huran, MI		484
	Port of Entry to I-94		0
	I-94 West to Michigan 21		5
	Michigan 21 West to IIS-23		66
	Michigan 21 west to 05-25		
*	05-23 30000 00 1-473		14
	1-4/5 500011 00 1 /0		
	1-/5 500th to 1-2/5		40
	1-2/5 500th to 1-/5		-
	1-75 50000 00 1-40		
	1-40 Lust to 1 Lo		
	1-20 30461 60 30 121		137
	SC-121 South to SC-19		47
	SC-19 South to SRP		29
	Alternate Route 2		Miles
	AECL site to Port of Entry		117
	Port of Entry: Alexandria Bay, NY		
	Port of Entry to I-81		0
	I-81 South to I-77		673
	I-77 South to I-85		127
	I-85 South to I-26		127 68
			137
			47
*	5C-121 30UCH CO 3C-19		2.7
	Alternate Ro te 3		Miles
	AECL site to Port of Entry		301
	Port of Entry. Champian, M	_	0
	FORE OF EIGHTY CE 1-OF		268
	1-07 300011 00 1 4	_	
	1-04 MEST CO 1-01	_	
	1-01 300011 00 1-77	_	127
	1-// 300011 00 1-03	-	68
	I-85 South to I-26		00

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	Alternate Route 3 (continued)		Miles
*	I-26 South to SC-121 SC-121 South to SC-19 SC-19 South to SRP	-	137 47 29
	Alternate Route 4		Miles
	AECL site to Port of Entry Port of Entry: Derby Lane, VT	-	357
	Port of Entry to I-91 I-91 South to I-84	-	0 261
	I-84 West to I-81 I-81 South to I-77	-	196 464
	I-77 South to I-85 I-85 South to I-26	-	
*	I-26 South to SC-121 SC-121 South to SC-19	-	137
	SC-19 South to SRP	-	29

^{*} Returns to the route approved on June 24, 1981 for these shipments.

The specific assemblies to be shipped have not yet been selected; however, the shipments will be made in accordance with the cask Certificate of Compliance.

Please address comments or questions regarding this submittal to the undersigned.

Yours truly,

NUCLEAR ASSURANCE CORPORATION

F. L. Danese

Manager, Cask Operations

FLD:bam