

## **SAFEGUARDS INFORMATION**

January 31, 2013

Mr. Roy A. Boyd  
Secured Transportation Services  
460 Silverberry Lane  
Sugar Hill, GA 30518

SUBJECT: APPROVAL OF HIGHWAY ROUTE TO TRANSPORT SPENT NUCLEAR FUEL FROM CHALK RIVER LABORATORY TO SAVANNAH RIVER SITE (NUCLEAR REGULATORY COMMISSION ROUTE NO. 246)

Dear Mr. Boyd:

I am responding to your letters dated December 12, 2012, and January 22, 2013, which requested the U.S. Nuclear Regulatory Commission (NRC) approve a highway route for transporting spent nuclear fuel (SNF) from the Chalk River Laboratory, Ontario, Canada, to Savannah River Site, Aiken, South Carolina (NRC Route No. 246).

The NRC has reviewed your application and concluded, that the information satisfies the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) 73.37. Specific details of Route No. 246 are enclosed (Enclosure 1). Specific details of Route No. 246 combined with additional Safeguards Information (SGI) are also enclosed (Enclosure 2). Enclosure 2 will not be released to the public and you should protect it in accordance with the requirements of 10 CFR 73.21. Approval of Route No. 246 will expire February 28, 2018. The NRC expects your periodic review and update of the emergency phone numbers associated with this route. Changes to emergency contact numbers do not qualify as a route deviation or change.

The NRC issued Additional Security Measures (ASMs) for the transportation of SNF on October 3, 2002, for NRC licensees, who ship greater than 100 grams of SNF. Licensees are required to comply with the requirements of 10 CFR 73.37 and these ASMs when shipping SNF. Licensees are also required to comply with U.S. Departments of Transportation and Homeland Security regulations on the shipment of hazardous materials.

In addition, the NRC issued Regulatory Issue Summary (RIS) 2002-12i, Revision 2, "Transportation of Spent Nuclear Fuel Greater than 100 Grams - NRC Threat Advisory and Protective Measures System," on August 24, 2011. The RIS advised licensees shipping SNF to consider various recommendations to be taken in conjunction with changes to the National or transportation-sector threat levels.

WARNING: Violation of Section 147 of the Atomic Energy Act, "Safeguards Information" is subject to Civil and Criminal Penalties.

When separated from Enclosure 2, this document is DECONTROLLED.

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R. Boyd

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If you are requested by State officials to deviate from a portion of the approved route (due to highway construction activities or other exigent conditions), please provide details of the deviation to Ms. Chiquita Ben Israel of my staff as soon as possible. If you have questions on this route approval or require additional information, please contact Ms. Ben Israel at (301) 415-8091 or via email at [Chiquita.BenIsrael@nrc.gov](mailto:Chiquita.BenIsrael@nrc.gov) for non-SGI information or via secure email at [cac4@nrc.sgov.gov](mailto:cac4@nrc.sgov.gov).

Sincerely,

*/RA/*

Robert Caldwell, Chief  
Fuel Cycle and Transportation Security Branch  
Division of Security Policy  
Office of Nuclear Security and Incident Response

Enclosures:

1. Route No. 246 – Route Mileage Summary
2. Route No. 246 – Detailed Highway Route Plan (Contains SGI)

cc: R. Caldwell, FCTSB  
P. Isaac, NRR/DPR/PROB  
E. Reed, NRR/DPR/PROB  
B. Desai, Region II  
J. Shehee, RII  
O. Smith, RII

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**DISTRIBUTION:** w/o Enclosure 2

- DSP r/f
- RidsOgcMail Center Resource;
- RidsNsirDsp Resource;
- RidsRgn1Mail Center Resource;
- RidsRgn2Mail Center Resource;
- RidsRgn3Mail Center Resource;
- RidsRgn4Mail Center Resource;

A. Dimitriadis, RI

**ADAMS Accession No.:** ML13025A252

NAME	NSIR/DSP/FCTSB	NSIR/DSP/FCTSB	NSIR/DSP/FCTSB:
OFFICE	CBenIsrael	RRagland	RCaldwell
DATE	1/31/13	1/31/13	1/31/13

**OFFICIAL RECORD COPY**

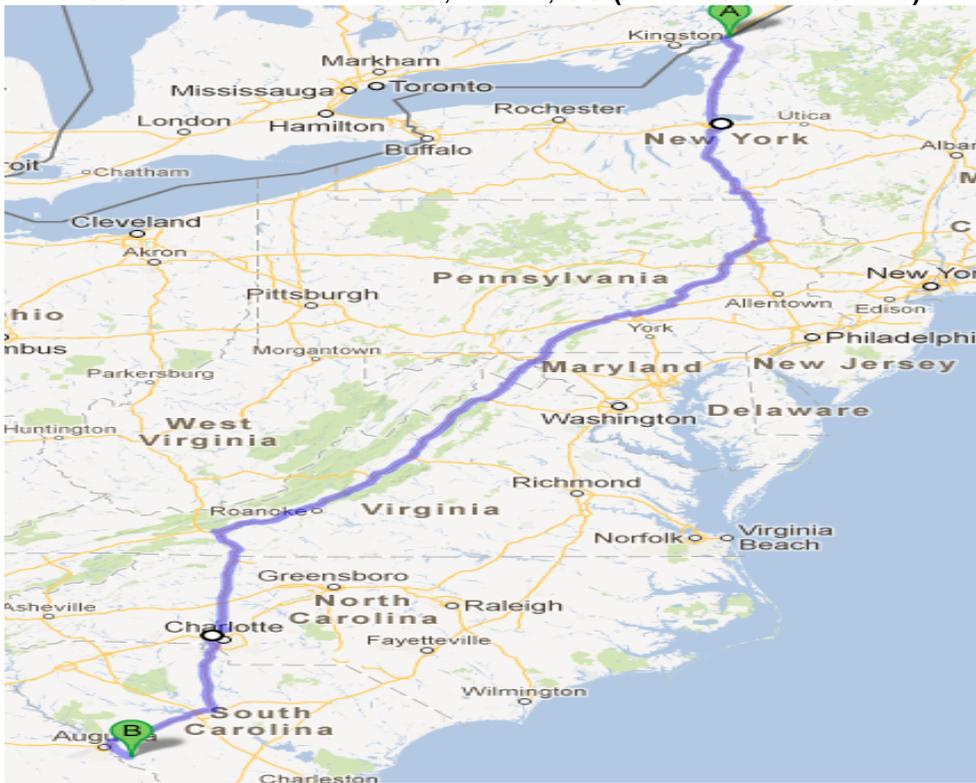
**SAFEGUARDS INFORMATION**



OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE  
DIVISION OF SECURITY POLICY  
FEBRUARY 2013

**DETAILED HIGHWAY ROUTE PLAN**

CHALK RIVER LABORATORY, DEEP WATER, ON  
TO SAVANNAH RIVER SITE, AIKEN, SC (NRC ROUTE NO. 246)



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OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE  
 DIVISION OF SECURITY POLICY  
 FEBRUARY 2013

**ROUTE MILEAGE SUMMARY**

CHALK RIVER LABORATORY, DEEP WATER, ON  
 TO SAVANNAH RIVER SITE, AIKEN, SC (**NRC ROUTE NO. 246**)

STATE	WAYPOINT/INSTRUCTIONS	ROAD	DIR	TOWARDS	MILESTO NEXT WAYPOINT	CUMULATI VE ROUTE MILES
NY	Enter U.S. at Thousand Island Port of Entry	I-81	S	Syracuse	91.2	91.2
NY	Go EAST/SOUTH on I481	I-481	E/S	Jamesville	15.2	106.4
NY	Go SOUTH on I-81	I-81	S	Pennsylvania line	81.6	188.1
<b>NY</b>	<b>STATE MILEAGE</b>				<b>188.1</b>	
PA	Continue on SOUTH on I-81	I-81	S	Maryland line	232.5	420.6
<b>PA</b>	<b>STATE MILEAGE</b>				<b>232.5</b>	
MD	Continue SOUTH on I-81	I-81	S	West Virginia line	11.9	432.5
<b>MD</b>	<b>STATE MILEAGE</b>				<b>532.4</b>	
WV	Continue SOUTH on I-81	I-81	S	Virginia line	26.0	458.2
<b>WV</b>	<b>STATE MILEAGE</b>				<b>26.0</b>	
VA	Continue SOUTH on I-81	I-81	S	Pulaski	243.5	702.0
VA	Go SOUTH on I-77	I-77	S	North Carolina line	32.1	734.1
<b>VA</b>	<b>STATE MILEAGE</b>				<b>275.6</b>	
NC	Continue SOUTH on I-77	I-77	S	Charlotte	85.7	819.8
NC	Go WEST/SOUTH on I-485	I-485	W/S	Charlotte	21.8	841.8
NC	Go SOUTH on I-77	I-77	S	South Carolina line	1.6	843.2
<b>NC</b>	<b>STATE MILEAGE</b>				<b>109.1</b>	
SC	Continue SOUTH on I-77	I-77	S	Columbia	74.3	917.5
SC	Go WEST on I-20	I-20	W	Aiken	67.0	984.5
SC	Go SOUTH on I-520	I-520	S	Aiken	6.2	990.7
SC	Go EAST on US-1	US-1	E	Jackson	1.0	991.7
SC	Go SOUTH on SC-125	SC-125	S	SRS Site	16.0	1007.1
<b>SC</b>	<b>STATE MILEAGE</b>				<b>164.5</b>	
<b>ROUTE MILEAGE</b>						<b>1007.1</b>