

## **~~SAFEGUARDS INFORMATION~~**

September 12, 2012

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 PENN STATE UNIVERSITY TO UNIVERSITY OF TEXAS  
(NUCLEAR REGULATORY COMMISSION ROUTE NO. 244)

Dear Mr. Boyd:

I am responding to your letter dated June 26, 2012, which requested the U.S. Nuclear Regulatory Commission (NRC) approve a highway route for transporting spent nuclear fuel (SNF) from Penn State University research reactor, State College, Pennsylvania to the University of Texas Pickle Research Center, Austin, Texas (NRC Route No. 244).

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. 244 is enclosed (Enclosure 1). Specific details of Route No. 244 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. 244 will expire September 29, 2017. 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.

**~~SAFEGUARDS INFORMATION~~**

## **SAFEGUARDS INFORMATION**

R. Boyd

-2-

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 Collins of my staff as soon as possible. If you have questions on this route approval or require additional information, please contact Ms. Collins at (301) 415-8091 or via e-mail at [chiquita.collins@nrc.gov](mailto:chiquita.collins@nrc.gov) for non-SGI information or via secure e-mail 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. 244 – Route Mileage Summary
2. Route No. 244 – Detailed Highway Route Plan (Contains SGI)

cc: R. Caldwell, NSIR/DSP  
P. Issac, NRR/DPR/PROB  
B. Desai, Region II  
J. Shehee, RII  
O. Smith, RII  
R. Skokowski, RIII  
M. Hay, RIV

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Sincerely,

**/RA/**

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

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cc: R. Caldwell, NSIR/DSP  
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B. Desai, RII  
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O. Smith, RII  
R. Skokowski, RIII  
M. Hay, RIV

**DISTRIBUTION**: w/o Enclosure 2

DSP r/f

G. Bowman, NRR/DPR/PROB

RidsOgcMail Center Resource;

RidsNsirDsp Resources

RidsRgn1Mail Center Resource;

RidsRgn2Mail Center Resource;

RidsRgn3Mail Center Resource;

RidsRgn4Mail Center Resource;

A. Dimitriadis, RI

E. Reed, NRR/DPR/PRPB

**ADAMS Accession No.: ML12242A183**

NAME	NSIR/DSP/FCTSB	NSIR/DSP/FCTSB	NSIR/DSP/FCTSB:Chief
OFFICE	CCollins	RRagland	RCaldwell
DATE	9/7/12	9/10/12	9/12/12

**OFFICIAL RECORD COPY**

**SAFEGUARDS INFORMATION**

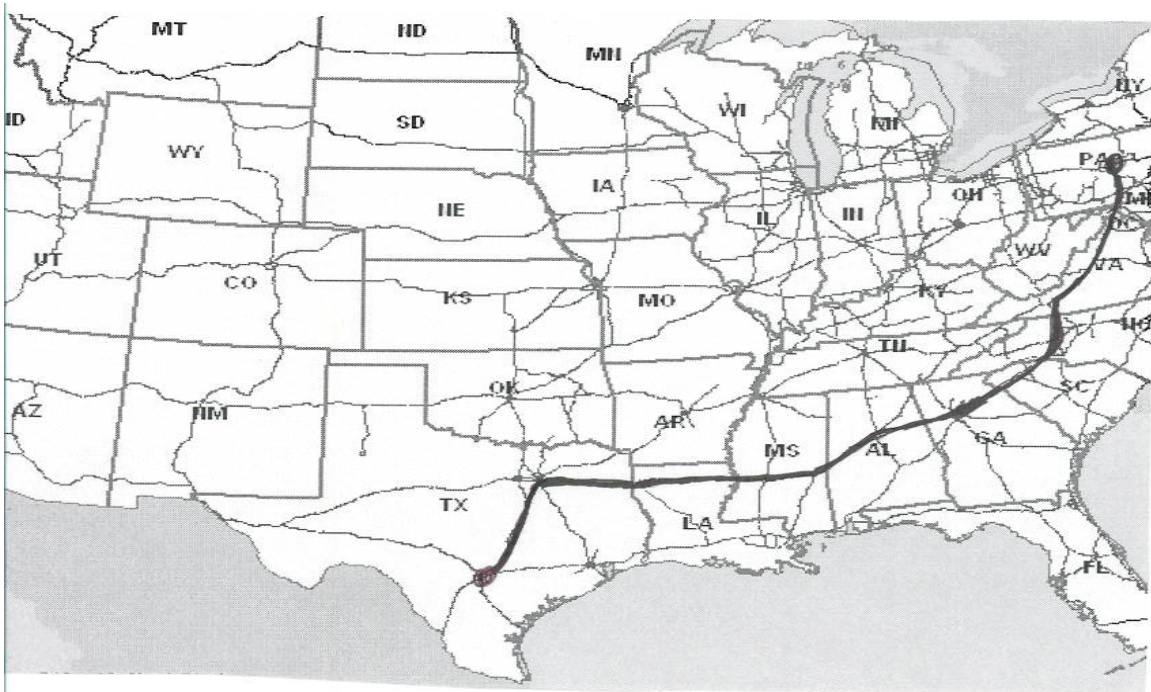
## **SAFEGUARDS INFORMATION**



OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE  
DIVISION OF SECURITY POLICY  
SEPTEMBER 2012

### **DETAILED HIGHWAY ROUTE PLAN**

PENN STATE UNIVERSITY, STATE COLLEGE, PA  
TO UNIVERSITY OF TEXAS (**NRC ROUTE NO. 244**)



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

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Enclosure 1

# SAFEGUARDS INFORMATION



OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE  
DIVISION OF SECURITY POLICY  
SEPTEMBER 2012

## ROUTE MILEAGE SUMMARY

PENN STATE UNIVERSITY, STATE COLLEGE, PA  
TO UNIVERSITY OF TEXAS (NRC ROUTE NO. 244)

STATE	WAYPOINT/INSTRUCTIONS	ROAD	DIR	TOWARDS	MILESTO NEXT WAYPOINT	CUMULATIVE ROUTE MILES
PA	Depart Breazeale Reactor	Bigler Road	W	State College	.1	.1
PA	Go NORTH on Hastings Road	Hastings Road	N	State College	.2	.3
PA	Go EAST on University Ave.	University Ave	E	State College	.2	.5
PA	Go NORTH on E. College Ave.	E. College Ave	N	State College	1.6	2.1
PA	Go WEST on US-322	US-322	W	Tyrone	10.9	13.0
PA	Go SOUTH on I-99	I-99	S	Bedford	23.2	36.2
PA	Go SOUTH on US-220	US-220	S	Bedford	1.3	37.5
PA	Go EAST on I-70	I-70	E	MD line	41.4	78.9
<b>PA</b>	<b>STATE MILEAGE</b>				<b>78.9</b>	
MD	Continue EAST on I-70	I-70	E	Hagerstown	25.5	104.9
MD	Go SOUTH on I-81	I-81	S	WV line	3.5	107.9
<b>MD</b>	<b>STATE MILEAGE</b>				<b>29.0</b>	
WV	Continue SOUTH on I-81	I-81	S	VA line	26.0	133.9
<b>WV</b>	<b>STATE MILEAGE</b>				<b>26.0</b>	
VA	Continue SOUTH on I-81	I-81	S	Pulaski	243.5	377.4
VA	Go SOUTH on I-77	I-77	S	NC line	32.1	409.5
<b>VA</b>	<b>STATE MILEAGE</b>				<b>275.6</b>	
NC	Continue SOUTH on I-77	I-77	S	Charlotte	85.7	495.2
NC	Go WEST on I-485	I-485	W	Charlotte	11.7	506.9
NC	Go WEST on I-85	I-85	W	SC line	30.1	537.0
<b>NC</b>	<b>STATE MILEAGE</b>				<b>127.5</b>	
SC	Continue WEST on I-85	I-85	W	GA line	106.7	643.7
<b>SC</b>	<b>STATE MILEAGE</b>				<b>106.7</b>	
GA	Continue WEST on I-85	I-85	W	Atlanta	83.6	727.3
GA	Go SOUTH on I-285	I-285	S	Atlanta	40.1	767.4
GA	Go WEST on I-20	I-20	W	AL line	50.5	817.9
<b>GA</b>	<b>STATE MILEAGE</b>				<b>174.2</b>	

Enclosure 1

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OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE  
DIVISION OF SECURITY POLICY  
SEPTEMBER 2012

### ROUTE MILEAGE SUMMARY

PENN STATE UNIVERSITY, STATE COLLEGE, PA  
TO UNIVERSITY OF TEXAS (NRC ROUTE NO. 244)

STATE	WAYPOINT/INSTRUCTIONS	ROAD	DIR	TOWARDS	MILE TO NEXT WAYPOINT	CUMULATIVE ROUTE MILES
AL	Continue WEST on I-20	I-20	W	Birmingham	77.7	895.6
AL	Go WEST on I-459	I-459	W	McCalla	29.5	925.1
AL	Go WEST on I-20	I-20	W	MS line	106.0	1031.1
<b>AL</b>	<b>STATE MILEAGE</b>				<b>213.2</b>	
MS	Continue WEST on I-20	I-20	W	LA line	154.4	1185.5
<b>MS</b>	<b>STATE MILEAGE</b>				<b>154.4</b>	
LA	Continue WEST on I-20	I-20	W	Shreveport	162.7	1348.2
LA	Go WEST on I-220	I-220	W	Shreveport	17.4	1365.6
LA	Go WEST on I-20	I-20	W	TX line	11.9	1377.5
<b>LA</b>	<b>STATE MILEAGE</b>				<b>192.0</b>	
TX	Continue WEST on I-20	I-20	W	Dallas	168.1	1545.6
TX	Go SOUTH on I-35 E	I-35 E	S	Hillsboro	47.5	1593.1
TX	Go SOUTH on I-35	I-35	S	Austin	128.3	1721.4
TX	Go WEST on Braker Lane	Braker Lane	W	Pickle Center	3.2	1724.6
<b>TX</b>	<b>STATE MILEAGE</b>				<b>347.1</b>	
<b>ROUTE TOTAL</b>						<b>1724.6</b>

Enclosure 1