

U. S. NUCLEAR REGULATORY COMMISSION

Region I

Report No. 11-2405/82-02

Docket No. 11-2405 License No. ISNM-81-005 Safeguards Group 8

Licensee: Nuclear Assurance Corporation

24 Executive Park West

Atlanta, Georgia

Facility Name: Spent Fuel Shipment

Inspection At: Shipment Point of Origin/Derby Line, Vermont and enroute from
Derby Line, Vermont to Brattleboro, Vermont

Inspection Conducted: August 30, 1982

Type of Inspection: Routine, Announced Physical Protection Inspection

Inspectors:

G. C. Smith, Physical Protection Inspector

9/28/82
date signed

Approved By:

A. T. Gody, Chief, Safeguards Section,
Technical Programs Branch

9.28.82
date signed

Inspection Summary: Inspection on August 30, 1982 (Report No. 11-2405/82-02)

Areas Inspected: Routine, announced inspection of an irradiated fuel shipment at the point of origin into the United States and while enroute. The inspection included an examination of the general requirements for shipments of irradiated fuel as well as the requirements for shipments of irradiated fuel by road. The inspection started during an off shift period and involved 10 inspector hours by one NRC region based inspector.

Results: No violations were identified in the areas inspected.

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DETAILS

1. Key Persons Contacted

*F. L. Danese, Manager, Cask Operations, Nuclear Assurance Corporation
T. Goddell, Driver/Escort, Tri-State Motor Transit Company
W. Miller, Driver/Escort, Tri-State Motor Transit Company
A. Morrison, Sergeant, Vermont State Police
R. Prairie, Trooper, Vermont State Police

*denotes telephone contact.

2. Exit Interview

Due to the nature of the inspection no formal exit interview was held. The results of the inspection were discussed by telephone between the Manager, Cask Operations, Nuclear Assurance Corporation and the inspector.

3. Background

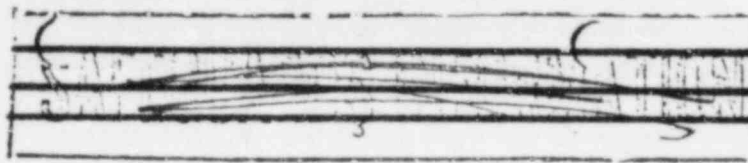
On April 14, 1982, NMSS approved the shipment routes proposed by Nuclear Assurance Corporation (NAC). Region I was notified by letter dated June 3, 1982, as revised July 7, 1982, that NAC, as agent for Atomic Energy of Canada, Limited (AECL) planned to make a series of spent fuel shipments from an AECL facility at Chalk River, Ontario Canada to the DOE Savannah River Plant, Aiken, South Carolina. The port of entry for the shipments was Derby Line, Vermont.

4. 81310 - Transportation of Irradiated Fuel (General Requirements)

* No violations were identified. The inspectors verified that the licensee followed established procedures and regulatory requirements for the physical protection of irradiated fuel in transit.

The inspection results were attained through:

- a. Verification that there were two driver/escorts with the transport vehicle. Discussions were held with the escorts relative to their training, knowledge of route and procedures, and contingency preparedness.
- b. Examination of the vehicle's tamper seals and verification that the seals were intact when the transport vehicle departed the U.S. Customs checkpoint.
- c. A functional test of the communications equipment and a review of the driver's trip log to confirm that 2 hour check calls to the Tri-State dispatcher in Joplin, Missouri were made.



- d. Verification through discussions with the drive 'escorts that the transport vehicle was equipped with an immobilization device that could be activated from within the cab of the truck.
- e. Verification through direct measurements that radiation readings were within Regulatory limits.
- f. Verification by direct observation that at least one driver/escort remained with the truck during fuel/rest stops.

