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GE Nuclear Energy #180

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General Electric Company
175 Cortner Avenue, San Jose, CA 95125

October 06, 1994

U.S. Nuclear Regulatory Commission
Division of Industrial and Medical
Nuclear Safety, NMSS
Washington, D.C. 20555

Attention: Ms. Gloria Bennington

Dear Ms. Bennington:

Please find enclosed, information requesting route approval in accordance with 10 CFR Part 73, for the shipment of irradiated test fuel rods

If you have any questions or correspondence regarding this request, please contact the undersigned. Your immediate attention to this request is respectfully requested. Thank you for your cooperation.

Sincerely,

GENERAL ELECTRIC COMPANY

M.W. Kirkland, Specialist
Licensing & Traffic
Mail Code 212
Phone (408) 925-5703
Fax. (408) 925-1372

Enclosure

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IRRADIATED FUEL ROUTE

ATLANTIC CONTAINER LINES (ACL)
DUNDALK MARINE TERMINAL
DUNDALK, MARYLAND

TO

VALLECITOS NUCLEAR CENTER
PLEASANTON, CALIFORNIA

JANUARY 1995

This route request is for a shipment of irradiated reactor fuel rods from Norway via the Port of Baltimore, MD to Vallecitos Nuclear Center, Pleasanton, CA. This shipment will be made by GE Nuclear Energy from the Port of Baltimore on our SNM-1270 License.

The proposed shipments consists of irradiated boiling water reactor fuel rods. These fuel rods are part of an ongoing research and development program sponsored by the General Electric Company, GE Nuclear Energy. The details of this shipment will be provided under separate covers as required per 10 CFR 73.37 prior to the shipment.

General Electric Company will assume responsibility as the shipper using the route as approved. General Electric will make arrangements to acquire armed escorts per 10 CFR 73.37 through the heavily populated areas identified.

S H I P M E N T
I N F O R M A T I O N

I. CARGO DESCRIPTION

1. Quantity and Type of Fuel
 - a. Total Fuel Rod - 30 BWR "HRCQ"
 - b. Total Curies - (Later)
 - c. Total Decay Heat - (Later)
 - d. Total Weight U plus Pu - (Later)
2. Cask Identification

GE Model 2000, USA/9228/B(U)F
3. Loaded Weights

Trailer - 13,980 Lbs
Truck - 18,500 Lbs
Cask - 33,000 Lbs

II. ANTICIPATED SCHEDULE

1. Number of Shipments - One
2. Approximate Duration of complete transfer - 74 hours
3. Proposed Shipment Schedule - Early January 1995

III. ROUTE

1. Origin and Destination
 - a. Origin: Dundalk Marine Terminal
Dundalk, Maryland
 - b. Destination: GE Vallecitos Nuclear Center
Pleasanton, California
2. Proposed Route

(See Page 2)

2. Proposed Routing

Maryland

Dundalk Terminal west to I-695	2.0 miles
I-695 north to I-70	22.0 miles
I-70 west to I-68	89.0 miles
I-68 west to West Virginia line	<u>34.0 miles</u>
Subtotal	147.0 miles

West Virginia

I-68 west to I-79	62.0 miles
I-79 north to Pennsylvania line	<u>12.0 miles</u>
Subtotal	74.0 miles

Pennsylvania

I-79 north to I-70	35.0 miles
I-70 west to Virginia State line	<u>21.0 miles</u>
Subtotal	56.0 miles

West Virginia

I-70 west to Ohio State line	Subtotal	10.0 miles
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Ohio

I-70 west to I-270	121.0 miles
I-270 south/west/north to I-70	18.0 miles
I-70 west to Indiana State line	<u>93.0 miles</u>
Subtotal	232.0 miles

Indiana

I-70 west to I-465	67.0 miles
I-465 south/west/north to I-74	25.0 miles
I-74 west to Illinois State line	<u>71.0 miles</u>
Subtotal	163.0 miles

Illinois

I-74 west to I-474	127.0 miles
I-474 west/north to I-74	15.0 miles
I-74 west to I-280	74.0 miles
I-280 west to Iowa State line	<u>10.0 miles</u>
Subtotal	226.0 miles

2. Proposed Routing - Cont'd

Iowa

I-280 west/north to I-80	9.0 miles
I-80 west to I-680	261.0 miles
I-680 south/west to Nebraska State line	<u>29.0 miles</u>
Subtotal	299.0 miles

Nebraska

I-680 west to I-80	13.0 miles
I-80 west to Wyoming line	<u>452.0 miles</u>
Subtotal	465.0 miles

Wyoming

I-80 west to Utah line	Subtotal 455.0 miles
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Utah

I-80 west to Nevada line	Subtotal 202.0 miles
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Nevada

I-80 west to California line	Subtotal 418.0 miles
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California

I-80 west to I-5	108.0 miles
I-5 south to I-205	66.0 miles
I-205 west to I-580	12.0 miles
I-580 west to I-680	21.0 miles
I-680 south to CA-84	8.0 miles
CA-84 east to GE Facility	<u>1.0 mile</u>
Subtotal	216.0 miles

Total 2,963.0 miles

Estimated elapsed time for shipment is approximately 74 hours, based on an average speed of 40 miles per hour.

3. Location of Planned Stopovers, Food and Fuel Stops

Finalized, once a route is approved.

4. Carrier

Our carrier, Tri-State Motor Transit Company, has assured us they will transport these irradiated reactor fuel rods over the route as approved.

IV. HEAVILY POPULATED AREAS REQUIRING ARMED ESCORT

The urbanized areas anticipated on route are as follows:

1. Baltimore, MD
2. Pennsylvania border to border - State required
3. Columbus, OH
4. Indianapolis, IN
5. Illinois border to border - State required
6. Davenport, IO
7. Des Moines, IO
8. Omaha, NE
9. Lincoln, NE
10. Salt Lake City, Utah
11. Reno, NV
12. Sacramento, CA
13. Stockton, CA
14. Hayward, CA

GE Nuclear Energy will take action required by 10 CFR Part 73, to secure armed escort services from state and/or local police agencies through the urbanized areas as identified on the approved route.

V. COMMUNICATIONS CAPABILITIES

Tri-State Motor Transit Company has a 24 hour number which will receive 2 hour check calls from the transport while shipment is in transit.

The GE Vallecitos Nuclear Center in Pleasanton, CA will maintain a 24 hour emergency response number.