U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

JUL 6 2004

DOT-E 13425
(FIRST REVISION)

EXPIRATION DATE: June 30, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: MDS Nordion
Ottawa, ON Canada
(US Agent: MDS Pharma Services
King of Prussia, PA)

(See Appendix A for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the one-time transportation in commerce of a Gammabeam 650 (serial number 12) in a previously approved Type B packaging from the Pacific Northwest National Laboratory's 331 building to the U.S. Department of Energy's Hanford Low Level Waste Burial Grounds for disposal. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR 173.416 in that the package authorized by this exemption is not an authorized Type B package.

5. BASIS: This exemption is based on the application of MDS Nordion dated January 12, 2004 and the technical information dated May 17, 2004 submitted in accordance with § 107.105 and the public proceeding thereon.

6. HAZARDOUS MATERIALS (49 CFR § 172.101): JUL 6 2004

Hazardous Materials Description			
Proper Shipping Name	**Hazard Class/ Division**	**Identi-fication Number**	**Packing Group**
Radioactive material, transported under special arrangement, *non fissile or fissile excepted*	7	UN2919	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING -

(1) The package must be as described in the January 12, 2004 and May 17, 2004 application for exemption on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

(2) The package may not contain more than 185 TBq (5000 Ci) of Co-60.

(3) Package preparation must be performed by MDS Nordion personnel in accordance with MDS Nordion procedure IN/PP 0772 GB650, Version 5.

b. OPERATIONAL CONTROLS:

(1) Transport of the irradiator package must be conducted by Battelle in accordance with their Hazardous Material Shipping Manual and associated radioactive waste management procedures.

(2) Each user of this exemption must have a copy of this the exemption and the non-confidential MDS Nordion application and technical information on file with the OHMEA.

(3) The package shall be consigned as exclusive use.

(4) The shipment must be escorted by a radiological control technician in a separate vehicle.

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(5) All controls, provisions and routes specified in the MDS Nordion application and technical information on file with the Office of Hazardous Materials Exemptions and Approvals must be followed.

(6) The package must be braced so as to prevent movement during normal conditions of transport.

(7) To the maximum extent practical, the transport will be conducted during periods of low road usage.

(8) The contamination checks performed in accordance with MDS Nordion procedure IN/PP 0772, Version 5, during package preparation must not exceed 4 Bq/cm^2 for beta and gamma emitters.

(9) The transport driver and escort radiological control technician shall be provided with mobile communication devices, radiation survey instruments and supplies to establish an emergency exclusion area, and written guidance to be followed in an emergency situation.

c. COMMMUNICATIONS -

(1) The outside of the package must be plainly and durably marked "DOT-E 13425".

(2) The package and transport vehicle must be marked, labeled and placarded in accordance with the hazardous material regulations for radioactive material transported under exclusive use provisions.

(3) State radiological and local emergency response officials must be notified of the route and time of the transport.

8. SPECIAL PROVISIONS: A current copy of this exemption must be maintained at each facility where the package is offered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle used to transport the package covered by this exemption.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

- Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

- Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

JUL 6 2004
Date

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/exemptions Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: WILLIAMSJ

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Pacific Northwest National Laboratory, Richland, WA	Jun 2, 2004	JUL 6 2004	Jun 30, 2005

Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety