



January 25, 2006

United States Nuclear Regulatory Commission
Margaret M. Doane, Deputy Director
Office of International Programs
Washington, DC
20555-0001

Dear Ms. Doane:

The Nebraska Medical Center has purchased a new self shielded blood irradiator from MDS Nordion, which will be imported from Canada. We also intend to return (export) one self shielded irradiator to MDS Nordion when the new irradiator is delivered. We are requesting a specific license for import and export of radioactive material. This letter serves as an application for the license and hopefully contains the information necessary to evaluate the request. (A check in the amount of 1600.00 is attached.)

- a) Prospective Licensee: The Nebraska Medical Center
987400 Nebraska Medical Center
Omaha, NE 68198-7400
- b) Equipment Supplier: MDS Nordion
447 March Road
Ottawa, Ontario
K2K 1X8
Canada
- c) The radioactive sources used in the new irradiator are manufactured in the United Kingdom. The sources are shipped to the facilities of MDS Nordion in Canada and placed within the shielded container for the blood irradiator prior to shipment to the United States.
- d) The irradiator will be installed at the licensee's facility located at:

The Nebraska Medical Center
University Tower - [REDACTED]
4400 Emile Street
Omaha, NE 68198-1180

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- e) We expect to receive the new irradiator on or about June 1, 2006. The irradiator to be returned would depart for Canada on the date of delivery.
- f) The specific piece of equipment we intend to purchase is the MDS Nordion Gammacell 3000 Elan Model II. The irradiator contains two (2) radioactive Cs-137 sources (MDS Nordion model number C-3001). The maximum combined activity for the two (2) sources is [REDACTED]. The sources contain elemental Cs-137 and meet the definition of Special Form Radioactive Material.

We will return a Gammacell 1000, source serial number 82CS18, that also contains Cs-137 as Cesium Chloride. The activity of the source on June 1, 2006, will be approximately [REDACTED].

- g) A copy of the State of Nebraska Radioactive Material License (# 01-88-02) which authorizes The Nebraska Medical Center to possess this material is attached for your review.
- h) Also attached is a copy of the Nuclear Substance Processing Facility Operating License issued by the Canadian Nuclear Safety Commission to MDS Nordion. Also attached is a letter from MDS Nordion summarizing the activities for which they are licensed.

Your attention to this matter is appreciated. Feel free to contact me at (402) 559-4658 if you have any questions or require additional information.

Sincerely,



Frank Rutar, MS, CHP
Radiation Safety Officer

Attachments: State of Nebraska Radioactive Material License
Letter from MDS Nordion
Canadian Nuclear Safety Commission License for MDS Nordion