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SLBaggett

APR 2 7 1983

Atomic Energy of Canada
ATTN: Mr. David Minns
P.O. Box /C.P. 3504
Ottawa, Ont. klY 4Gl

Gentlemen:

This refers to your application hand delivered on April 21, 1983. We understood that when the device registration is completed by the Material Certification and Procedures Branch, your license application will be reviewed by John Glenn, NRC, Region I. To continur our device review, we need additional information and/or clarification of the items listed below:

- From your application, it appears that you plan to use Cobalt-60 and Cesium-137 in the scanner flask. We have information on the Cesium-137 sources. However, we need additional information on the Cobalt-60 source, ie., maximum activity, manufacturer, model number and radiation dose measuring of a scanner flask containing the Cobalt-60.

- The NRC normally does not issue an extension of the six-month leak test interval. In the event you wish to extend the interval to one year, you should provide information to demonstrate that the increase in time is justified by the performance characteristics of the device or a similar device.

- The NRC regulations require that your device be labeled in accordance with Section 20.203, 10 CFR 20. To bring your labels into compliance with this regulation, you should add a trefoil symbol and the radioactive warning should read, "Caution Radioactive Material." The label must be durable enough to remain legible for the useful life of the device.

- Provide a diagram or description of how the slip brake works and the method of attachment of the guide cables and control cable to the flask.

- Provide the title and/or a copy of the document that was used to obtain the stainless steel-depleted uranium eutectoid melting point of 800°F.

OFFICE ➤							
SURNAME ➤							
DATE ➤							

- For reasons of public health and safety, the NRC requires that all sources and devices be tested in accordance with the American National Standard Institute Criterion. Your device needs to be given an ANSI N538 (copy attached) designation. Since this is a custom device, you may use engineering analysis data or historical data to demonstrate compliance with the requirements.

- We need dose rates at 5, 30, and 100 centimeters from the device. These measurements should be taken at the four major compass points. The points should be in both the longitudinal and transverse planes.

- Provide a safety analysis summary. Since this is a custom device, you may include pertinent facts about your radiological protection program. These facts can be used to reenforce any statements made.

Upon receipt of this information, we will continue our custom device review. When the review has been completed, we will notify Mr. John Glenn (Region I) to start the licensing review process.

If you have any questions, please contact me. My phone number is (301) 427-4240.

Sincerely,

Original Signed By
Steven L. Baggett

Steven L. Baggett
Material Certification and
Procedures Branch

Enclosure: ANSI N538

cc: J. Glenn, R:I

OFFICE	FCMC						
SURNAME	SLBaggett:rad						
DATE	4/27/83						

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

JUL 0 6 1993

Mr. Joe Stirling
Senior Licensing Coordinator
Nordion International Inc.
447 March Road
Kanata, Ontario, Canada K2K 1X8

Dear Mr. Stirling:

Based on the information and test data submitted in your application dated November 19, 1991, and subsequent letters, with enclosures thereto, we have transferred several registration certificates to "inactive" status and combined several other registration certificates as shown in Enclosure (1). These sources and devices are acceptable for licensing purposes in accordance with the conditions of the enclosed registration certificates. Please note, all registration certificates for Atomic Energy of Canada Limited have been assigned a vendor number of "8003". Vendor number "0169" is no longer an active vendor number.

Please be advised that you must manufacture and distribute the "active" products in accordance with the statements and representations contained in your application, with enclosures thereto, and the information set out in your registration certificates. As a general rule, you must request and obtain an amendment to each certificate before you make changes or modifications to the information submitted to obtain the certificate.

Please read over the registration certificates in their entirety and notify us immediately of any errors or omissions. You are obligated to notify us promptly in writing should you decide to no longer manufacture or offer service support for the products.

The registration certificates for the Models C-132, C-133, and C-265 have not been updated. The following additional information is required in order to continue with this action:

a) Please provide external radiation levels at 5 cm, 30 cm, and 100 cm from the surface of the C-265 source capsule when loaded with maximum activity.

b) Please provide prototype testing for the C-132 source assembly. You have stated that the C-132 source capsule is equivalent to the C-133 source capsule. However, we do not have current prototype testing information for the C-132 and C-133 source capsules.

Additionally, in order to update our files, please provide the additional information requested in my letter dated June 3, 1993.

I look forward to receiving the requested information as soon as possible. If you have any questions, please contact me at (301) 504-2503 or Mr. John Lubinski at (301) 504-2689.

Sincerely,

/S/

Douglas A. Broaddus, Mechanical Engineer
Sealed Source Safety Section
Source Containment and
Devices Branch
Division of Industrial and
Medical Nuclear Safety, NMSS

Enclosure: As stated
cc: SKimberley, LFDCB (w/encl.)

Distribution:
Registration files noted in Enclosure (2) SSSS Staff
NMSS r/f SCDB r/f SSSS r/f IMNS Central Files
FBrown

OFC:	SCDB							
NAME:	DBroaddus DAB							
DATE:	07/01/93							

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D:\AECL_NOR.CMP

Enclosure (1)

The following certificates for AECL have been transferred to "inactive" status.

Old Certificate #	New Certificate #	Model Numbers
NR-0169-D-118-U	NR-8003-S-801-S	GAMMACELL 100
NR-0169-D-121-U	NR-8003-S-802-S	GAMMACELL 100
NR-0169-S-113-U	NR-8003-S-803-S	C-110
NR-0169-S-122-U	NR-8003-S-804-S	AC-110
NR-0169-S-123-U	NR-8003-S-805-S	AC-231
NR-0169-D-134-U	NR-8003-S-806-S	GAMMABEAM 100A,B,C
NR-0169-S-115-U	NR-8003-S-807-S	C-166
NR-0169-S-116-U	NR-8003-S-808-S	C-167
NR-0169-S-125-U	NR-8003-S-809-S	C-170
NR-0169-S-126-U	NR-8003-S-810-S	C-171
NR-0169-S-101-U	NR-8003-S-811-S	C-175
NR-0169-S-130-S	NR-8003-S-813-S	C-182
NR-0169-S-150-U	NR-8003-S-814-S	C-185
NR-0169-S-128-U	NR-8003-S-815-S	C-199
NR-0169-S-129-U	NR-8003-S-816-S	C-200
NR-0169-S-156-S	NR-8003-S-817-S	C-225/C-236
NR-0169-S-137-U	NR-8003-S-818-S	C-230
NR-0169-S-133-U	NR-8003-S-819-S	C-277, C-278
NR-0169-S-127-U	NR-8003-S-820-S	C-177
NR-0169-S-159-U	NR-8003-S-821-S	4493-97
NR-0169-S-135-S	NR-8003-S-822-S	C-281
NR-0169-S-136-U	NR-8003-S-823-S	C-283
NR-0169-S-138-S	NR-8003-S-824-S	C-285
NR-0169-S-139-S	NR-8003-S-825-S	C-295
NR-0169-S-102-U	NR-8003-S-826-S	XC-216
NR-0169-S-131-S	NR-8003-S-827-S	XC-257
NR-0169-S-145-S	NR-8003-S-828-S	XC-326
NR-0169-S-143-S	NR-8003-S-829-S	XC-298, XC-305
NR-0169-S-105-S	NR-8003-S-830-S	C-161

Enclosure (1)

The following certificates have been transferred from AECL to Nordion.

Old Certificate #'s	New Certificate #	Model Numbers
NR-0169-S-142-S and NR-0169-S-144-U	NR-0220-S-103-S	C-188, C-306
NR-0169-S-157-S	NR-0220-S-104-S	C-324/C-236
NR-0169-D-117-S and NR-0169-S-114-U	NR-0220-D-105-S	GAMMABEAM 150 Series, C-174
NR-0169-S-158-U	NR-0220-S-106-S	C-265
NR-0169-D-119-U and NR-0169-S-151-S	NR-0220-D-107-S	GAMMACELL 220, C-198
NR-0169-S-162-S	NR-0220-D-108-S	C-349
NR-0169-S-161-S	NR-0220-S-801-S	C-235/C-236