

NORDION INTERNATIONAL INC.

successor to Atomic Energy
of Canada Limited
Radiochemical Company

successeur de l'Énergie Atomique
du Canada, Limitée
Société radiochimique

UPDATE ON INDUSTRIAL IRRADIATOR TRAINING

PROGRAMS FOR SERVICE REPRESENTATIVES

Tel. (613) 592-2790
FAX. (613) 592-6957
Telex. 053-4162

The data on installer (field service representative) training that has been submitted on the three USNRC licences issued to AECL-RCC and which will now apply to the same irradiators and training programs produced by Nordion International Inc., has been consolidated. The submission dates of the original data are shown below:

<u>Licence</u>	<u>Submission Dates of Training-Related Data</u>
54-300-09	1983 December 9
54-300-12	1985 January 15
54-300-13	1983 December 13

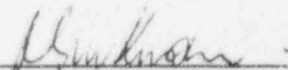
The training programs are essentially unchanged and a new trainee installer still undergoes all the text book theory, instrument, ARW and emergency coverage as described on his letter of authorization and certification whilst being indoctrinated into the practical operations related to industrial irradiators fieldwork spends several months assisting accredited installers. In order to record his progress and accomplishments, an Irradiation Equipment Handling Certificate is now issued by:

F.M. Fraser	Vice-President, Market Development
R.G. McKinnon	General Manager, Irradiator Engineering
or B.J. Jackson	Manager, Radiation Control & Regulatory Affairs and RSO

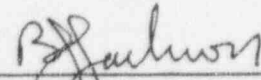
This Certificate (copy attached) along with his letter of authorization represents for each installer a complete accreditation that shows he has been adequately trained on the specific equipment on which he may be working.

FOR: Nordion International Inc.

BY:


R.G. McKinnon

BY:


B.J. Jackson

TITLE: General Manager
Irradiator Engineering
Installation & Service

TITLE: Radiation Safety Officer -
Manager, Radiation Control
& Regulatory Affairs

DATE:

54/02/16

DATE:

1989 Feb 16

447 March Road, P.O. Box 13500
Kanata, Ontario, Canada, K2K 1X8

447 Chemin March, C.P. 13500
Kanata, Ontario, Canada, K2K 1X8

9610150224 960917
PDR FOIA
KELLEHE96-276 PDR

NORDION INTERNATIONAL INC.

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Société radiochimique

TO WHOM IT MAY CONCERN

IRRADIATOR EQUIPMENT HANDLING CERTIFICATE

Tel. (613) 592-2790
FAX. (613) 592-6937
Telex. 053-4162

Nordion International Inc. (NII), Successor to Atomic Energy of Canada Limited, Radiochemical Company (AECL-RCC), hereby certifies that: _____ has been fully trained to perform the specialized tasks listed on his letter of authorization for the following Nordion irradiator equipment.

Dry Storage, Research Irradiators:

Gammacell 10	GC 10
Gammacell 20	GC 20
Gammacell 40	GC 40
Gammacell 1000	GC 1000

Gammacell 100	GC 100
Gammacell 200	GC 200
Gammacell 220	GC 220
Gammacell 500	GC 500

Gamma beam 100	GB 100
Gamma beam 150	GB 150
Gamma beam 650	GB 650

Wet Storage, Product Irradiators

FOR: Nordion International Inc.

BY: _____
R.G. McInnon

BY: _____
B.J. Jackson

TITLE: General Manager
Irradiator Engineering
Installation & Service

TITLE: Radiation Safety Officer -
Manager, Radiation Control
& Regulatory Affairs

DATE: _____

DATE: _____

NORDION INTERNATIONAL INC.

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LETTER OF AUTHORIZATION & CERTIFICATION

TO WHOM IT MAY CONCERN

Tel. (613) 592-2790
FAX. (613) 592-6937
Telex. 053-4162

Nordion International Inc. (NII) successor to Atomic Energy of Canada Limited, Radiochemical Company, (AECL-RCC), hereby designates _____ as an accredited Representative. Acting on behalf of the Company in all work areas associated with field operations on NII standard products, _____ is qualified to perform the following specialized tasks:

- (a) installation of equipment(s) and its radioactive contents,
- (b) removal of equipment(s) and its radioactive contents,
- (c) servicing equipment(s) and manipulation of its radioactive contents,
- (d) refurbishing and testing radiation equipment(s),
- (e) transfer of radioactive materials,
- (f) replenishment and removal of radioactive materials,
- (g) contamination detection and decontamination procedures,
- (h) radiation surveys with approved instrumentation,
- (i) emergency procedures to be adopted in the event of an incident, and
- (j) preparation of equipment(s) and radioactive source(s) for ongoing shipment.

This is to certify that _____ has received in-house training in applied:

- (k) principles and practices of radiation protection,
- (l) radioactivity measurement standardization and monitoring techniques and instruments,
- (m) mathematics and calculations basic to the use and measurement of radioactivity, and
- (n) biological effects of radiation.

FOR: Nordion International Inc.

BY: _____
R.G. McKinnon

BY: _____
B.J. Jackson

TITLE: General Manager
Irradiator Engineering
Installation & Service

TITLE: Radiation Safety Officer -
Manager, Radiation Control
& Regulatory Affairs

DATE: _____

DATE: _____

JANUARY 1989

NORDION INTERNATIONAL INC.

Licensed Field Worker Within U.S. For - Industrial Irradiation
Division

APPLICABLE LICENSES	AMENDMENT NO.	REFERENCE
1. USNRC 54-00300-09	25	IRs
2. USNRC 54-00300-12	14	GC/GB's
3. USNRC 54-00300-13	8	GC 1000
4. Nebraska 99-37-01	9	-
5. New York 2087-0793 Ref.2	2	-
6. Texas 0-721	26	-

ARW's are on all licenses except those indicated:

NAME	EXCEPTION	NOT CURRENT EMPLOYEE
Ashfield, L.	3	x
Beers, E.W.	2,5	
Chu, R.D.H.	-	
Curnow, E.K.	-	x
Defalco, G.M.	-	
Dowd, F.	-	
Doyle, Y.L.	2,5	
Duncan, R.G.	-	
Eskibachian, V.	-	
Findlay, J.M.	-	
Fraser, F.M.	-	
Jackson, B.J. (RSO)	-	
Kotler, J.	-	
Lemon, O.J.	2,3,5	
Mardian, J.	2,3,5	
McKinnon, R.G.	-	
Moloughney, P.	-	
Pinteric, F.J.	-	
Rose, G.T.	-	
Russell, D.A.	-	
Shewchenko, A.	2,5	
Slovakovic, L.	-	
Stefanelli, P.	-	
Tape, S.R.	-	
Thurley, A.N.	-	
Troicuk, D.S.	-	
Total - 27		

Current Employees - 25

89/2/16
To Laurence Friedman
This is our current
listing of
accreditation and
licensing for our
installers.
For the new system
the exceptions will
mean deletions from
the Handling Cert. R.S.

Copy of original sent to Reg I

NRC FORM 313
(9-88)
10 CFR 30, 32, 33,
34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3180-0120
Expires: 9-30-90

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS. IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION 8
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
161 MARINETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1460 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE To replace 54-00300-09
☐ B. AMENDMENT TO LICENSE NUMBER _____
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Nordion International Inc.
447 March Road,
P.O. Box 13500
Kanata, Ontario, Canada K2K 1X8

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

The location of use will be at the temporary job sites of the licensee anywhere in the U.S.A. where the USNRC or its agreement states maintain jurisdiction for regulating the use of byproduct material.

8908100208 890306
REG1 LIC30
54-28275-01 PDR

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Barrie J. Jackson

TELEPHONE NUMBER

(613) 592-2790

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

9. FACILITIES AND EQUIPMENT

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT ENCLOSED \$1,160.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, §2 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Barrie J. Jackson

Barrie J. Jackson

Manager, Radiation Control
and Regulatory Affairs

89.1.2

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APP

08.2

3N 3P

New app reviewed. (Transferred for fee block)
* See Controls 109520, 109521, 109522

AMOUNT RECEIVED

CHECK NUMBER

\$660+/500

2024739 / 2024949 * (109520)

APPROVED BY

Sandra Kemble

DATE

109519
1/26/89

To Replace USNRC 54-00300-09

5. RADIOACTIVE MATERIAL

Refer to Appendix VI of submission dated 1983 December 9.

6. PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED

Refer to Appendix VIII of submission dated 1983 December 9.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

Refer to Appendix V of submission dated 1983 December 9 and letter to Glenda Jackson from B.J. Jackson dated 1988 October 25.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Refer to Appendix IV of submission dated 1983 December 9.

9. FACILITIES AND EQUIPMENT

All USNRC registered AECL (now Nordion) sources listed in Appendix VI of submission dated 1983 December 9 are stored and used in the appropriate Category III & IV irradiators as approved for licensing purposes by the USNRC and as described in individual customer's licences issued by the commission or its agreement states.

10. RADIATION SAFETY PROGRAM

Refer to Appendix III of submission dated 1983 December 9.

11. WASTE MANAGEMENT

No commercial waste disposal service employed. All radioactive material will be returned to Nordion International Inc. for disposal.