

THERATRONICS

L & L 28316
030-30906

1988 October 25

United States Nuclear Regulatory Commission
Region I
475 Alendale Road
King of Prussia, PA 19406
U.S.A.

Log	Dec. 7
Remitter	
Check No.	#180 per info 10/88
Amount	
Fee Category	3P
Type of Fee	A.P.P.
Date Check Fed.	
Date Completed	12/19/88
By:	S. Kimberling

Attention: Mr. John Kinneman, Chief
Nuclear Materials Safety Section

Dear Mr. Kinneman:

Request for Amendment
By Product Materials Licenses
54-00300-04; 37-19318-01 & 12-18482-01

To Be Voided by
RI per licensee's
Request of 12/7;
see ltr

We respectfully request, subject to regulatory approval, the following amendments to the above Licenses.

License #54-00300-04

Item 1. Licensee

Amend to read, Theratronics International Limited. (Reference letters dated September 01 and 30, 1988).

Item 7. Chemical and/or Physical Form

- A. Amend to read, sealed sources (AECL/Theratronics Model C-161 or as designated on customer's license).
- B. Amend to read, sealed sources (AECL/Theratronics Models C-146 or C-151 or as designated customer's license).

Item 9. Authorized Use

- A. & B. Amend to read, for storage and possession in U.S. Department of transportation approved shipping containers and/or possession incident to the performance of the activities specified below involving the Atomic Energy of Canada, Limited (AECL)/Theratronics International Limited teletherapy units specified in Condition 10 of this license.

Theratronics
International Limited
413 March Road
P.O. Box 13140
Kanata Ontario Canada
K2K 2B7
(613) 591-2100
Fax (613) 592-3816
Telex 053 4416

8910170330 881229
REG1 LIC30
12-18482-01 PDR

OFFICIAL RECORD COPY ML10

109900
NOV 04 1988

Condition 10

Amend to read, the activities authorized by this license are applicable to the following AECL/Theratronics teletherapy units and specifications:

Amend heading for Column 1 to read,

AECL/Theratronics
Teletherapy Unit
Model Number

Condition 12

Amend by deleting the names R.W. Dismukes and J.W. Blount Jr. Insert the names R.E. Johnston, M. Kinsaul and Jody Jackson.

To support the above request we attach a recent letter of authorization and certification which enables these source handlers to act on behalf of the company in all work areas associated with field operations as specified on the subject license. Additionally, we attach a certificate of achievement for Mr. Kinsaul and Resumes, for the three men which outline their source work experience.

Condition 17

Amend to read AECL/Theratronics teletherapy units.

License #37-19318-01

Item 1. Licensee

Amend to read Theratronics International Limited, (reference letters dated September 01 and 30, 1988).

Item 7. Chemical and/or Physical Form

- A. Amend to read, sealed sources (AECL/Theratronics Model C-146 or C-151 or as designated on customer's license).
- B. Amend to read, sealed sources (AECL/Theratronics Model C-161 or as designated on customer's license).

Item 9. Authorized Use

- A.&B. Amend to read for storage in AECL/Theratronics Teletherapy head and/or U.S. Department of Transportation approved shipping containers.

License #12-18482-01

Item 1. Licenses

Amend to read Theratronics International Limited, (reference letters dated September 01 and 30, 1988).

Item 7. Chemical and/or Physical Form

- A. Amend to read, sealed sources (AECL/Theratronics Models C-146 or C-151 or as designated on customer's license).
- B. Amend to read, sealed sources (AECL/Theratronics Model C-161 or as designated on customer's license).

Item 9. Authorized Use

- A.&B. Amend to read for possession incident to storage in AECL/Theratronics Teletherapy heads and/or U.S. Department of Transportation approved shipping containers.

Enclosed is a Theratronics cheque # 00109 dated October 26, 1988 for the sum of \$180.00 (U.S. funds) in favor of the Commission to cover the fee for this service. (Reference 10, Chapter 1, Part 170.31 Category 3N & P as applicable).

We trust that the information submitted is complete and satisfactory.

Yours sincerely,



R.K. Strike
Quality Assurance Officer
Regulatory Affairs

RKS/gm
Enc.

THE RATRONICS

TO WHOM IT MAY CONCERN

Theratronics International Limited a Crown Corporation being for all its purposes an agent of her Majesty the Queen in Right of Canada, hereby certifies that the employees designated below are accredited technicians properly authorized and licensed by the United States Nuclear Regulatory Commission (and its agreement States) to act on behalf of the Corporation in all work areas associated with field operations on Theratronics Standard Products, formerly manufactured by AECL Medical.

Each technician so designated 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;
- (j) preparation of equipment(s) and radioactive source(s) for on-going shipment, and
- (k) all operations coincident with commissioning these devices.

This is to certify that each technician so designated has received in-house training in applied:

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

Employees currently designed under this certification are:

C.E. Britt	P.H. Dresselt	E. Kato
J.W. Clarke	J.S. Fox	C. Maychak
P.G. Cowan	R. Hilbert	W.T. Schluneger
A.B. Crandell	W. Hughes	D.J. Tegtmeyer
D. DiJoseph	R.E. Johnston	J. Weir
M. Kinsaul	J. Jackson	F.T. Lyon
		M. Schnabel

FOR: Theratronics International Limited

BY: *G.J. Cook*

BY: *W.E. Downs*

TITLE: G.J. Cook
Manager, Technology & Service

TITLE: W.E. Downs
Radiation Safety Officer

DATE: 27-X-88

DATE: 88/10/27

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Telex 053-4416

AECL MEDICAL/EACL MEDICAL

MEMORANDUM

TO/A: M. Kinsaul

DATE: 30 Sept./88

copy: G. Cook
M. Pregent
J. Sharpe
A. Crandel

FILE: GC44

FROM/DE: Jim McEwan /

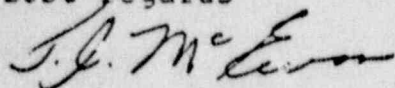
RE: SUCCESSFULL CERTIFICATION AS SOURCE HANDLER

It is with pleasure that I inform you that you have met all the requirements for certification as a Source Handler on round drawer therapy units. A. Crandel made a favourable report indicating that your field certification session in Duluth was successful.

Your certificate is enclosed. Also I have requested Walter Downs to have your name added to the list of those persons authorized to handle Cobalt sources and to perform other specialized tasks on Cobalt Therapy Units within the USA.

I wish you well and every success as you continue your important work in this vital field. Congratulations!

Best regards



Jim McEwan
AECL Medical, Training Officer

AECL MEDICAL

A Division of Atomic Energy of Canada Limited

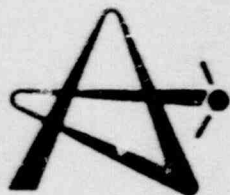
has awarded this certificate of achievement to

Mike Kinsaul

upon successful completion of:

*Cobalt Source Handlers Certification
on Round Drawer Units*

course



30 Sept. 88

Date

Manager, Technology and Service

J. J. McEwen

Technical Training Officer

Signed at Ottawa, this *5th* day of *October* 19 *88*.

SOURCE HANDLER EXPERIENCE LIST FORM

Mike Kinsaul

<u>P&S</u>	<u>DATE</u>	<u>PLACE/LOCATION</u>	<u>UNIT TYPE</u>	<u>ASSISTED</u>
<u>Source Changes</u>				
43978	3 Mar 87	Broward Med. Cntr, Ft. Laud., FL	T-780	C. E. Britt
44105	14 Oct 87	Trippler Army Hosp, Hon, Hawaii	T-80	Mike Schnable
44171	29 Jan 88	Crawford Long, Atlanta, GA	T-780	C. E. Britt
44279	14 Apr 88	Greenville Hosp., Greenville, SC	T-80	" "
44286	5 May 88	Depaul Hosp, Norfolk, VA	T-80	" "
44272	27 May 88	McLeod Reg. Med, Florence, SC	T-780	" "
<u>Move jobs involving removal of source</u>				
90253	8 July 87	St. Joseph, Tampa, FL	T-80	C. E. Britt
14863	8 Sept. 87	Hollywood Mem, Hollywood, FL	Eld 8	" "
44070	20 Oct 87	Winter Haven Hosp, Winter Haven, FL	Eld G sq drw.	" "
14905	9 Dec 87	Waycross Radiology, Waycross, GA	Eld 8	" "
14905	17 Dec 87	Waycross Radiology, Waycross, GA	T-780	" "
90411	6 Feb 88	U.N.M., Albreturkey, NM	T-80	Bill Schluneger
44311	19 Apr 88	Downstate, Brooklyn, NY	T-80	" "
<u>Removed unit, shipped source in head</u>				
12478	28 July 87	Spartanburg, SC	T-780	C. E. Britt

NOTE: under the ASSISTED column put the name of the certified source handler who you assisted ; if you were in charge then put IN CHARGE.

QUALIFICATIONS AND EXPERIENCE
SERVICE TECHNICIAN
MEDICAL SERVICE

FULL NAME: Robert E. Johnston, Service Manager Cobalt Operations
Canada and Off Continent

ACADEMIC QUALIFICATIONS:

- a. Fisher Park High School
- b. Eastern Ontario Institute of Technology
- c. Provincial Institute of Trades

EMPLOYMENT WITH AECL: May 1976 to present as factory representative.

TRAINING: In-house and on-the-job training in:

- a. Principles and practices of radiation protection (AECL)
- b. Radioactivity measurements, standardization, monitoring techniques and instruments (AECL).
- c. Mathematics and calculations basic to use and measurements of radioactivity (AECL).
- d. Biological effects of radiation (AECL).

Installation, field servicing and source replacements with licenced installers during 1976, 1977:

- a. Little Rock, Arkansas, T750, T780.
- b. Ann Arbor, Michigan, T80.
- c. New York, New York, T720, T780.
- d. Thunder Bay, Ontario, Eld 8.
- e. Philadelphia, Pa., T780
- f. Sherbrooke, Quebec, T80.
- g. Montreal Hotel Dieu, Quebec, T80.
- h. McGill University, Quebec, C11.
- i. Crawford W. Long, Georgia, T780
- j. Baldwin County, Georgia, T80.

Installation, field service and source replacements as required internationally 1978-1985.

Installations, field servicing and source replacements 1986 to date:

a.	Trinidad	T780 No. 213	Jan. 27
		T80 No. 388	Jan. 28
b.	Largo, Florida	T780C No. 014	Feb. 11
c.	Belfast, Ireland	T780C No. 003	Feb. 27
d.	Leeds, England	T780C No. 005	Mar. 3
e.	Bologna, Italy	T780C No. 004	Mar. 10
f.	Milano, Italy	T780C No. 006	Mar. 12
g.	Genova, Italy	T780C No. 012	Mar. 13
h.	Alexandria, Egypt	T780 No. 355	May 13
i.	Alexandria, Egypt	T780 No. 309	May 20
j.	Kirkwood, Missouri	T780C No. 020	June 2
k.	Cairo, Egypt	Eld 8 No. 004	July
l.	Cairo, Egypt	T80 No. 059	July
m.	Cairo, Egypt	T80 No. 241	July
n.	Tunis, Tunisia	T80 No. 137	July
o.	Tunis, Tunisia	T80 No. 330	July
p.	Ottawa, Canada	T780	Aug. 20
q.	Springfield, Massachusetts	T780C No. 002	Aug. 27
r.	Poland	T780 No. 427	Sept. 12
s.	Poland	T780C No. 013	Sept. 16
t.	India	T780C No. 017	Oct. 6
u.	Riverside, California	T780C No. 022	Nov. 2
v.	Cordoba, Spain	T780 No. 365	Nov. 22
w.	Chicago, Illinois	T780C No. 016	Dec. 8
x.	Saint John, N.B.	T780 No. 134	Feb. 7 1987
y.	Winnipeg, Manitoba	T.F No. 022	Feb. 18 1987

Note: Continue to install and service AECL/Theratronics therapy units and to train other Theratronics personnel thru on the job training to the present time.

1988 October 20

JODIE L. JACKSON

SOURCE WORK

A. While employed by AECL, working out of the Dallas office Aug.83 - Mar.85, I completed source transfers and other related source mechanism work under the supervision of licensed source handlers in the following locations:

1. Fitzsimmons Army Hospital, Denver, Co. T-80 #207
2. Parkland Hospital, Dallas, Texas T-80 #34
3. Mt. Carmel Hospital, Columbus, Ohio T-80 #137
4. Tripper Army Hospital, Honolulu, Hawaii T-80 #336
5. University of Texas Medical Branch, Galveston, Texas T-80 #99
6. Rio Grande Radiation Treatment Center Clinic, McAllen, Tx T-80 #150
7. Holt Krock Clinic, Fort Smith, Ark. T-80 #150
8. V.A. Hospital, Dallas, Texas T-80 #17
9. Touro Infirmary, New Orleans, La. T-80 #82
10. Brook Army Medical Center, San Antonio, Texas T-80 #51
11. East Texas Cancer Center, Tyler, Texas T-80 #333

B. While working out of Ottawa (May 86 - Oct.88), I've completed the following:

1. L.N.E.T.I., Sacavem, Portugal E6 Calibrator
2. Institution Asunios Nuclearis, Bogota, Colombia E6 #210
3. Instituto Oncologico Del Oriente Boliviano
Crueena De Combate al Caneu, Santa Cruz, Bolivia T765 #17
4. Victoria General Hospital, Halifax Nova Scotia,
(2 New Sources, 1 Cascade) T80 #64;
E8#15;
E6 #45
5. Jinnah Post Graduate Medical Centre, Karichi, Pakistan
(Square Drawer) T80 #272; F #15
6. Lagos University Teaching Hospital, Lagos, Nigeria T780 #22
7. Queen Elizabeth Hospital, Charlottetown, P.E.I. T780 #310

109900

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: _____
STATUS CODE: 3
FEE CATEGORY: _____
EXP. DATE: 0
FEE COMMENTS: _____

LICENSE FEE TRANSMITTAL

To Be Voided by R.I.

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: THERATRONICS INTERNATIONAL LIMITED
RECEIVED DATE: 881104
DOCKET NO: 3030906
CONTROL NO.: 109900
LICENSE NO.:
ACTION TYPE: NEW LICENSEE

See 12/7/88 ltr.
where they state
they will not be
using PA as a
storage place.

2. FEE ATTACHED

AMOUNT: \$180.00 (applied to 109899)
CHECK NO.: 00109

3. COMMENTS

SEE C/N 109899 FOR CHECK
FOR BOTH ACTION

SIGNED: EMW
DATE: NOV 29, 1988

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1/1)

1. FEE CATEGORY AND AMOUNT: 3P

\$180 fee applied
to 109899 was
refunded. See
109899.

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT _____
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED: J. Kimberly
DATE: 12/19/88