



CABELL HUNTINGTON HOSPITAL

1340 Hal Greer Boulevard, Huntington, West Virginia 25701

RECEIVED
10/11

785 10/11 AM 10:34

NMS61

August 31, 2005

U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Division
Region I
475 Allendale Road
King Prussia, PA 19406-1415

47-00404-02
03003370

RE: Amendment to NRC license 47-00404-⁰²~~20~~ Cabell Huntington Hospital,
Huntington, West Virginia. Please reference license 47-09576-01

Dear Reviewer,

We request amendment of license 47-00404-⁰²~~20~~ to add Marylene Brodeur, M.S.,
an authorized medical physicist as identified in 10CFR 35.51 to provide medical
physics services pertaining to Iridium 192 in a high does rate remote afterloader
unit, including calibrations, spot-checks, training, and assisting the authorized
user in clinical use.

Marylene Brodeur can be referenced via license # 47-09576-01

The Radiation Safety Committee has approved the proposed change to our
radioactive materials licenses. Questions regarding this request may be directed
to Fred Peatross (304-526-2079) or Richard McWhorter, MD, RSO (304-526-
2129)

Richard McWhorter, MD; RSO

Keith Biddle, Vice President

137724

NMCG/RQNI MATERIALS-002

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT**PART I -- TRAINING AND EXPERIENCE**

Note: Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulations.

1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)

MARYLENE BRODEUR AUTHORIZED MEDICAL PHYSICIST 10CFR 35.51

2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed

3. CERTIFICATION

Specialty Board	Category	Month and Year Certified
N/A		

Stop here when using Board Certification to meet 10 CFR Part 35 training and experience requirements.

4. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)

Description of Training	Location	Clock Hours	Dates of Training
Radiation Physics and Instrumentation			
Radiation Protection			
Mathematics Pertaining to the Use and Measurement of Radioactivity			
Radiation Biology			
Chemistry of Byproduct Material for Medical Use			
OTHER			

5a. WORK EXPERIENCE WITH RADIATION

Description of Experience	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and Clock Hours of Experience
CLINICAL THERAPY PHYSICS : - HIGH ENERGY EXTERNAL BEAM - BRACHYTHERAPY:	M DOUGLASS ALLAN M.S. DABR	ST. MARY'S MEDICAL CENTER, HUNTINGTON WV 4709576-01	APRIL 2003 TO APRIL 2005
- IR-192 HDR REMOTE AFTERLOADING			
- IVB			
- SEEDS			
- CONVENTIONAL			
INCLUDING:			
- CALIBRATION			
- SPOT-CHECKS			
- RADIATION SURVEYS			
- DECAY CORRECTION			
- LEAK TESTING			
- INVENTORIES			
CLINICAL THERAPY PHYSICS - HIGH ENERGY EXTERNAL BEAM - IR-192 HDR REMOTE AFTERLOADING	MARYSE MONDAT M.S. FCCPM	HOPITAL MAISONNEUVE ROSEMONT, MONTREAL, QC CANADA	JULY 2002 TO APRIL 2003
- CALIBRATION, SPOT-CHECKS - RADIATION SURVEYS - DECAY CORRECTIONS			AND PART-TIME AUGUST 2001 TO JULY 2002 441 HRS

5b. SUPERVISED CLINICAL CASE EXPERIENCE

Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and Clock Hours of Experience

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)

6. FORMAL TRAINING (applies to Medical Physicists and Therapy Physicians)

Degree, Area of Study or Residency Program	Name of Program and Location with Corresponding Materials License Number	Dates	Name of Organization that Approved the Program (e.g., Accreditation Council for Graduate Medical Education) and the Applicable Regulation (e.g., 10 CFR 35.490)
MASTER'S DEGREE MEDICAL PHYSICS	McGill UNIVERSITY MONTREAL, QUEBEC CANADA	SEPTEMBER 1999 TO FEBRUARY 2003	CAMPEP COMMISSION ON ACCREDITATION OF MEDICAL PHYSICS EDUCATIONAL PROGRAMS

7. RADIATION SAFETY OFFICER -- ONE-YEAR FULL-TIME WORK EXPERIENCE

- ☐ YES Completed 1-year of full-time radiation safety experience (in areas identified in item 5a) under supervision
☐ N/A of _____ the RSO for License No. _____

8. MEDICAL PHYSICIST -- ONE-YEAR FULL-TIME TRAINING/WORK EXPERIENCE

- ☒ YES Completed 1-year of full-time training in therapeutic radiological physics under the supervision of
☐ N/A M. DOUGLASS ALLAN, MS DABR who meets requirements for Authorized Medical Physicists; and
- ☒ YES Completed 1-year of full-time work experience (for areas identified in item 5a) for 1R-192 HDR
☐ N/A modality(ies) under the supervision of M. DOUGLASS ALLAN, MS DABR who meets
requirements of Authorized Medical Physicists for 1R-192 HDR REMOTE AFTERLOAD modality(ies).

9. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS

The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR 35, provide the following information for each):

A. Name of Supervisor

M. DOUGLASS ALLAN, MS DABR

B. Supervisor is:

☐

Authorized User

☒

Authorized Medical Physicist

☒

Radiation Safety Officer

☐

Authorized Nuclear Pharmacist

C. Supervisor meets requirements of Part 35, Section(s) 35.51for medical uses in Part 35, Section(s) 1R-192 HDR REMOTE AFTERLOAD UNIT FOR CALIBRATIONS,

D. Address

SPOT-CHECKS, TRAINING.

ST. MARY'S MEDICAL CENTER
2900 FIRST AVENUE
HUNTINGTON, WV
25702-1241

E. Materials License Number

47-09576-01

TRAINING AND EXPERIENCE AND PRECEPTOR STATEMENT (continued)

PART II -- PRECEPTOR STATEMENT

Note: This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet the training requirements in 10 CFR 35.590.

Item 10 must be completed for Nuclear Pharmacists meeting the requirements of 10 CFR Part 35, Subpart J. Preceptors do not have to complete items 11a, 11b, or the certifying statements for other individuals meeting the requirements of 10 CFR Part 35, Subpart J.

- ☐ YES 10. The individual named in item 1 has satisfactorily completed the training requirements in
☒ N/A 10 CFR 35.980 and is competent to independently operate a nuclear pharmacy.

- ☒ YES 11a. The individual named in Item 1 has satisfactorily completed the requirements in Part 35, Section(s)
☐ N/A and Paragraph(s) 35.51

- ☒ YES 11b. The individual named in Item 1. is competent to independently function as an authorized
☐ N/A MEDICAL PHYSICIST for 1R-192 HDR uses (or units).
CALIBRATIONS, SPOT-CHECKS, TRAINING

12. PRECEPTOR APPROVAL AND CERTIFICATION

- ☐ I certify the approval of item 10 and certify I am an Authorized Nuclear Pharmacist;

or

- ☐ I certify the approval of items 11a and 11b, and certify I am an Authorized Nuclear Pharmacist;

or

- ☒ I certify the approval of Items 11a and 11b, and I certify that I meet the requirements of 35.51
or equivalent Agreement State requirements to be a preceptor authorized MEDICAL PHYSICIST
for the following uses (or units) of byproduct material: 1R-192 HDR REMOTE AFTERLOADER UNIT FOR
CALIBRATION, SPOT-CHECKS, AND TRAINING

A. Address

ST MARY'S MEDICAL CENTER
2900 FIRST AVENUE
HUNTINGTON, WV
25702-1241

B. Materials License Number

47-09576-01

C. NAME OF PRECEPTOR (print clearly)

Martin Douglass Allan, M.S., DABR

D. SIGNATURE - PRECEPTOR

Martin Douglass Allan, M.S., DABR

E. DATE

4/12/05

TRAINING RECORD

I have participated in the Novoste Corporation Annual Emergency Training by viewing the 6 files on the Training CD:

1. Letter from Novoste
2. Training Presentation
3. Training Presentation
4. Training Video
5. NMED Reports Analysis
6. Instructions for Use

Printed Name	Signature	Date
M. Douglass Allan, M.S., DABR	<i>M. Douglass Allan</i>	11/22/04
C. Thomas Brannan, M.S., DABR	<i>CT Brannan</i>	6/17/05
Marylene Brodeur, M.S.	<i>Marylene Brodeur</i>	12/07/04

*initial
training
8/4/04*

July 30, 2003
St. Mary's Medical Center
Huntington, WV

Guidant Galileo III
Intravascular Radiotherapy

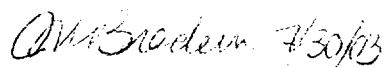
Training for Marylene Brodeur, M.S., medical physicist

Intravascular Radiotherapy Online Training Program III completed on Jul 15 2003,
5:22PM.

Supervised (training) treatment sessions:

7/23/2003	Chart # 03-040
7/30/2003	Chart # 03-062
7/30/2003	Chart # 03-060

These treatment sessions were supervised by C. T. Brannan, M.S. DABR, authorized
medical physicist.

Handwritten signature of Marylene Brodeur, dated 7/30/03.

Marylene Brodeur, M.S.

Handwritten signature of Charles Thomas Brannan.

Charles Thomas Brannan, M.S. DABR

Medical Media Communications, Inc.* certifies that

Ms Marylene Brodeur

has participated in the continuing medical education activity titled
The Intravascular Radiotherapy Online Training Program III
held on the Internet at <http://galileo3.knowledgemed.com> , on **Jul 15 2003 5:22PM**

MEDICAL MEDIA COMMUNICATIONS, INC.

Authorization Issued Jul 15 2003 5:22PM

• Medical Media Communications, Inc. is accredited by the Accreditation Council for Continuing Medical Education to offer continuing medical education (CME) for physicians. This CME activity is designated for up to 4 hour of Category 1 credit toward the Physician's Recognition Award of the American Medical Association.

Print

Close Window



Nucletron

This certifies that

Marylene Brodeur, MS

has successfully completed our course on

***Clinical Training on Treatment Control Station & MicroSelectron
given May 13th-14th, 2003***

and has been awarded 4 Category A
CE credits as designated by the
American Society of Radiological Technologists

onsite at
St. Mary's Hospital
Huntington, WV

Steve Warburton
Technical Support Specialist

Ref # MDZ0141002

Nucletron Corporation 8671 Robert Fulton Drive Columbia, MD 21046-2278



McGILL UNIVERSITY

MONTREAL

TO ALL TO WHOM THESE PRESENTS MAY COME, GREETING:

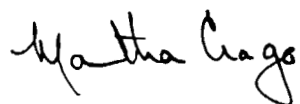
WE, THE GOVERNORS, PRINCIPAL, AND FELLOWS OF MCGILL UNIVERSITY TESTIFY THAT

Marylene Brodeur

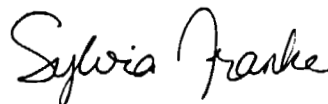
HAVING DILIGENTLY COMPLETED THE REQUIRED COURSE OF STUDY AND PERFORMED
THE PRESCRIBED EXERCISES HAS BEEN ADMITTED TO THE DEGREE OF

MASTER OF SCIENCE

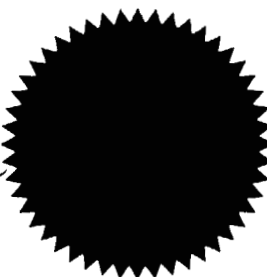
WITH ALL THE HONOURS, PRIVILEGES, AND PREROGATIVES PERTAINING TO THAT DEGREE. IN WITNESS
WHEREOF WE HAVE AFFIXED OUR SIGNATURES AND HAVE CAUSED THE SEAL OF THE UNIVERSITY TO BE
ATTACHED HERETO. GIVEN IN CONVOCATION THIS 2ND DAY OF JUNE IN THE YEAR 2003.



DEAN



REGISTRAR



CHAIR, BOARD OF GOVERNORS



PRINCIPAL



McGill

UNIVERSITY

STUDENT NAME / NOM DE L'ÉTUDIANT

Brodeur, Marylene

 INCLUDING / Y COMPRIS
MACDONALD CAMPUS
 MONTRÉAL, CANADA

 DATE OF BIRTH:
 DATE DE NAISSANCE:

 STUDENT No:
 No MATRICULE:

 REFERENCE:
 RÉFÉRENCE:

 DATE ISSUED:
 DATE D'ÉMISSION: 2004/08/09

COURSE NUMBER NUMÉRO DE COURS	TITLE TITRE	CR / C.E.U CR / U.E.C	GRADE NOTE	REMARKS REMARQUES	EARNED OBTENUS	CLASS AVG MOY DU GROUPE
ADMITTED TO-ADMIS(E) A: BACHELOR OF SCIENCE ON THE BASIS OF-TITRE D'ADMISSION D.E.C. COLLEGE LAFLECHE 1994; INTERNATIONAL BACCALAUREATE DIPLOMA 1994						
MINIMUM OF 90 APPROVED CREDITS REQUIRED TO COMPLETE PROGRAM						
Fall 1994 - 1995 BACHELOR OF SCIENCE MAJOR IN BIOCHEMISTRY						
FULL TIME						
ITALIAN 132 - 205D ♦	Italian Language for Beginners	3	Q			C+
BIOLOGY 177 - 200A	Molecular Biology	3	B			B+
CHEMISTRY 180 - 204A	Intro Physical Chem/Biol Sci I	3	A-			A-
ANAT&HIST 504 - 261A	Intro to Dynamic Histology	4	Q			
PHYSIOL 552 - 211D ♦	MammPhysio-EmphasOnHumanPhysi					

Winter 1994 - 1995
 BACHELOR OF SCIENCE
 MAJOR IN BIOCHEMISTRY

FULL TIME						
ITALIAN 132 - 205D ♦	Italian Language for Beginners	6*	W			B+
BIOLOGY 177 - 202B	Basic Genetics	3*	W			B-
MATH&STAT 189 - 222B	Calculus III	3*	W			C
BIOCHEM 507 - 212B	Mol Mech of Cellular Function	3*	W			C+
PHYSIOL 552 - 211D ♦	MammPhysio-EmphasOnHumanPhysi	6*	W			B+

MCGILL CREDITS 10

 STANDING IN BACHELOR OF SCIENCE
 UNSATISFACTORY

ADMITTED TO-ADMIS(E) A:
 MASTER OF SCIENCE
 ON THE BASIS OF-TITRE D'ADMISSION
 RECORD AT UNIV.DU QUEBEC A TROIS
 RIVIERES

Fall 1999 - 2000
 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

FULL TIME						
MED PHYS 563 - 601A	Radiation Physics	3	A-	80%		
MED PHYS 563 - 607A	Intro to Medical Imaging	3	B+	75%		
MED PHYS 563 - 609A	Radiation Biology	2	A-	81%		
MED PHYS 563 - 611A	Medical Electronics	2	A	100%		
MED PHYS 563 - 615A	Physics of Nuclear Medicine	3	A	89%		
MED PHYS 563 - 616D ♦	Self Topics in Medical Physics		Q			
	Masters Thesis Progressing					

Winter 1999 - 2000
 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

FULL TIME						
MED PHYS 563 - 602B	Applied Dosimetry	3	B-	65%		
MED PHYS 563 - 603B	Laboratory/Practicum I	2	B+	79%		
MED PHYS 563 - 608B	Lab-Diagnos Radio&Nuclear Med	2	A	99%		
MED PHYS 563 - 612B	Computers in Medical Imaging	2	A-	84%		

PERSONAL INFORMATION WAS REMOVED
 BY NRC. NO COPY OF THIS INFORMATION
 WAS RETAINED BY THE NRC.

BRODEUR, MARYLENE
 OFFICIAL TRANSCRIPT
 ISSUED TO STUDENT
 IN SEALED ENVELOPE
 MONTREAL

0402694



McGill

UNIVERSITY

STUDENT NAME / NOM DE L'ÉTUDIANT

Brodeur, Marylene

 INCLUDING / Y COMPRIS
 MACDONALD CAMPUS
 MONTRÉAL, CANADA

 DATE OF BIRTH:
 DATE DE NAISSANCE:

 STUDENT No.
 No MATRICULE:

 REFERENCE:
 RÉFÉRENCE:

 DATE ISSUED:
 DATE D'ÉMISSION: 2004/08/09

	COURSE NUMBER NUMÉRO DE COURS	TITLE TITRE	CR / C.E.U CR / U.E.C	GRADE NOTE	REMARKS REMARQUES	EARNED OBTENUS	CLASS AVG MOY. DU GROUPE
MED PHYS	563 - 613B	Health Physics	2	A	85%		
MED PHYS	563 - 614B	Phys of Diagnostic Radiology	3	B	72%		
MED PHYS	563 - 616D *	Sel Topics in Medical Physic Masters Thesis Progressing	1	P			

 STANDING IN MASTER OF SCIENCE
 CONTINUING IN PROGRAM

Summer 2000

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

CONTINUING

Masters Thesis Progressing

Fall 2000 - 2001

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

FULL TIME

MED PHYS 563 - 625D *

 Msc Thesis Research
 Masters Thesis Progressing

Q

Winter 2000 - 2001

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

ADDITIONAL SESSION

MED PHYS 563 - 625D *

 Msc Thesis Research
 Masters Thesis Progressing

32

P

 STANDING IN MASTER OF SCIENCE
 CONTINUING IN PROGRAM

Summer 2001

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

ADDITIONAL SESSION

Masters Thesis Progressing

Fall 2001 - 2002

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

ADDITIONAL SESSION

Masters Thesis Progressing

Winter 2001 - 2002

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

ADDITIONAL SESSION

Masters Thesis Progressing

 STANDING IN MASTER OF SCIENCE
 CONTINUING IN PROGRAM

Summer 2002

 MASTER OF SCIENCE
 MEDICAL RADIATION PHYSICS

ADDITIONAL SESSION

Masters Thesis Progressing

Cumulative grade point averages appearing subsequent to this point do not include results from previous terms.

Fall 2002

 Master of Science
 Thesis Additional Session
 Medical Radiation Physics - Thesis

Standing: Satisfactory

**PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.**

0402695

This officially signed transcript is printed on SCRIP-SAFE® security paper with the name of the university printed in white type across its face of the document. A BLACK ON WHITE OR A COLOR COPY SHOULD NOT BE ACCEPTED!

MCGILL UNIVERSITY TRANSCRIPT OF STUDENT RECORD



McGill

UNIVERSITY

STUDENT NAME / NOM DE L'ÉTUDIANT

Brodeur, Marylene

INCLUDING / Y COMPRIS

MACDONALD CAMPUS

MONTREAL, CANADA

DATE OF BIRTH:
DATE DE NAISSANCE:STUDENT No:
No MATRICULE:REFERENCE:
RÉFÉRENCE:DATE ISSUED:
DATE D'ÉMISSION:

2004/08/09

COURSE NUMBER
NUMÉRO DE COURSTITLE
TITRECR / C.E.U
CR / U.E.CGRADE
NOTEREMARKS
REMARQUESEARNED
OBTENUSCLASS AVG
MOY. DU
GROUPE

Masters Thesis Title

Verification of IMRT beam delivery with a ferrous sulfate
gel dosimeter and MRI

Degree/Diploma/Certificate Granted: February 2003

Master of Science

Medical Radiation Physics - Thesis

END OF TRANSCRIPT

Please do not remit this record to the student. To be considered official, transcripts not received directly from McGill University must be in an envelope sealed with the Registrar's signature.

PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

0402696

Page 3 Final Page

This officially signed transcript is printed on SCRIP-SAFE® security paper with the name of the university printed in white type across the face of the document. A BLACK ON WHITE OR A COLOR COPY SHOULD NOT BE ACCEPTED!

Sylvia Franke, Registrar

This is to acknowledge the receipt of your letter/application dated

8/31/2005 ^(RECEIVED 9/23/2005) and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amend. 47-00404-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 137724.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.