Wyoming Medical Center

1233 E. Second St.
Casper, WY 82601
307.577.7201

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JAN - 3 2012

DNMS

November 15, 2011

US Nuclear Regulatory Commission Region IV
Nuclear Materials Licensing Branch
611 Ryan Plaza Drive
Suite 400
Arlington, Texas 76011-8064

RE: Amendment for Radioactive Materials License #49-00152-02

Dear Sir or Madam:

Wyoming Medical Center requests that Michael Fernald, MS be added to the position of Radiation Safety Officer, replacing Alan G. Douglas, MS DABR in that position. Mr. Fernald has been employed at Rocky Mountain Oncology as a physicist since 4/20/2009. During that time he has attended and participated actively in the hospital Radiation Safety Committee Meetings. He has been tutored in the hospital's Radiation Safety Program by myself, Alan Douglas, the current WMC RSO. In addition to the OJT aspect, the hospital has sponsored his attendance at the Dade Moeller Medical Radiation Safety Officer Course held in November, 2011. He has been serving as an Authorized Medical Physicist on NRC license 49-29254-01 since Amendment No. 07 issued 10/4/2010.

Attached is his Certificate of Training from the Dade Moeller Medical Radiation Safety Officer's course in Las Vegas. Having adequately completed that formal training course, as well as under our current RSO for over 2 years, Michael Fernald is definitely qualified to serve in the capacity of Radiation Safety Officer for Wyoming Medical Center.

Thank you for your prompt attention to this matter. For further information, please contact me at: (307) 233-4751 or fax (307) 233-4700.

Sincerely,

Alan Douglas

Alan G. Douglas, MS
Radiation Safety Officer
Wyoming Medical Center
1233 E. 2nd Street
Casper, WY 82601

No 5766 73

NRC FORM 313A (RSO) (3-2009) | U.S. NUCLEAR REGULATORY COMMISSION

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.50]

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 3/31/2012

Name of Proposed Radiation Safety Officer

Michael Fernald, M.S.

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

✓ 35.100 ✓ 35.200 ✓ 35.300 ✓ 35.400 35.500 35.600 (remote afterloader)

35.600 (teletherapy) 35.600 (gamma stereotactic radiosurgery) 35.1000 ( )

PART I -- TRAINING AND EXPERIENCE
(Select one of the four methods below)

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

1. Board Certification

a. Provide a copy of the board certification.

b. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

c. Skip to and complete Part II Preceptor Attestation.

OR

2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above

a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.

b. Skip to and complete Part II Preceptor Attestation.

OR

3. Structured Educational Program for Proposed Radiation Safety Officer

a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation biology			
Radiation dosimetry			

Total Hours of Training:

5766 73

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+		

+ Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience (continued)

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer

This license authorizes the following medical uses:

35.100	35.200	35.300	35.400
35.500	35.600 (remote afterloader)		35.600 (teletherapy)
35.600 (gamma stereotactic radiosurgery)			35.1000 ( )

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285	11/7 - 11/11/2011 Vanderbilt Univ. '06-'07
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285	11/7 - 11/11/2011 Vanderbilt Univ. '06-'07
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285	11/7 - 11/11/2011 Vanderbilt Univ. '06-'07
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285	11/7 - 11/11/2011 Vanderbilt Univ. '06-'07
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):		

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual *If training was provided by supervising RSO, AU, AMP, or ANP (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)*	License/Permit Number listing supervising individual

License/Permit lists supervising individual as:

☐ Radiation Safety Officer ☐ Authorized User ☐ Authorized Nuclear Pharmacist

☐ Authorized Medical Physicist

Authorized as RSO, AU, ANP, or AMP for the following medical uses:

☐ 35.100	☐ 35.200	☐ 35.300	☐ 35.400
☐ 35.500	☐ 35.600 (remote afterloader)		☐ 35.600 (teletherapy)
☐ 35.600 (gamma stereotactic radiosurgery)			☐ 35.1000 ( )

d. Skip to and complete Part II Preceptor Attestation.

OR

✓ **4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license**

a. Provide license number.

b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

c. Skip to and complete Part II Preceptor Attestation.

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section
Check one of the following:

1. Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Radiation Safety Officer

10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

2. Structured Educational Program for Proposed Radiation Safety Officers

I attest that _____ has satisfactorily completed a structural educational
Name of Proposed Radiation Safety Officer

program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

First Section (continued)
Check one of the following:

✓ **3. Additional Authorization as Radiation Safety Officer**

✓ I attest that **Michael Fernald, M.S.** is an

Name of Proposed Radiation Safety Officer

Authorized User — Authorized Nuclear Pharmacist

✓ Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

AND

Second Section
Complete for all *(check all that apply)*:

✓ I attest that **Michael Fernald, M.S.** has training in the radiation safety, regulatory issues, and

Name of ProposedRadiation Safety Officer

emergency procedures for the following types of use:

✓	35.100	
✓	35.200	
✓	35.300	oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required
✓	35.300	oral administration of greater than 33 millicuries of sodium iodide I-131
✓	35.300	parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required
	35.300	parenteral administration of any other radionuclide for which a written directive is required
✓	35.400	
	35.500	
	35.600	remote afterloader units
	35.600	teletherapy units
	35.600	gamma stereotactic radiosurgery units
	35.1000	emerging technologies, including:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND

Third Section
Complete for ALL

✓ I attest that **Michael Fernald, M.S.** has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer

sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for **Wyoming Medical Center**
Name of Facility

License/Permit Number: **49-00152-02**

Name of Preceptor	Signature	Telephone Number	Date
Alan G. Douglas, M.S. DABR	Alan G Douglas	**(307) 233-4751**	**11/14/2011**

Certificate of Training

Awarded To

Michael Fernald

Recognizing completion of 5 days of specialized instruction in

Medical Radiation Safety Officer with DOT option

November 11, 2011

Presented By

Dade Moeller Radiation Safety Academy

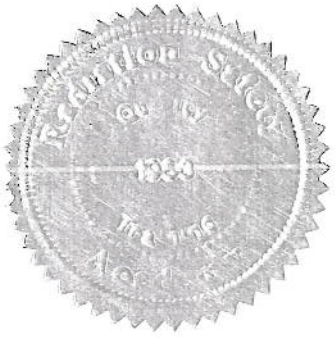
438 N. Frederick Avenue, Suite 220, Gaithersburg, MD 20877

www.moellerinc.com/academy -- 301-990-6006

ABIH has awarded this course 6.68 CM Points, CM Approval #09-4769
ARRT and SNMT has approved this course up to 39.5 CEH's, 024551-024555
AAHP has awarded this course 32 Continuing Education Credits, 2009-00-076

Ray Johnson

Ray Johnson, MS, PE, FHPS, CHP
Vice President, Training Programs



PHY-285, Radiation Detection and Measurement
Spring 2007
Syllabus*

Date	Topic	Chapter in Text
10-Jan	Introduction - Course overview	X
15-Jan	Counting Statistics	3
17-Jan	Counting Statistics	3
22-Jan	General Properties of Radiation Detectors	4
24-Jan	General Properties of Radiation Detectors	4
29-Jan	Pulse Processing and Shaping	16
31-Jan	Linear and Logic Pulse Functions	17
5-Feb	Linear and Logic Pulse Functions	17
7-Feb	Multichannel Pulse Analysis	18
12-Feb	Background and Detector Shielding	20
14-Feb	Ionization Chambers	5
19-Feb	Proportional Counters	6
21-Feb	Geiger-Mueller Counters	7
26-Feb	Review	X
28-Feb	TEST I	X
5-Mar	HOLIDAY	X
7-Mar	HOLIDAY	X
12-Mar	Scintillation Detectors - Principles	8
14-Mar	Scintillation Detectors - Types	8
19-Mar	Photomultiplier Tubes and Photodiodes	9
21-Mar	Radiation Spectroscopy with Scintillators	10
26-Mar	Radiation Spectroscopy with Scintillators	10
28-Mar	Semiconductor Diode Detectors	11
2-Apr	Semiconductor Diode Detectors	11
4-Apr	Germanium Gamma Ray Detectors	12
9-Apr	Germanium Gamma Ray Detectors	12
11-Apr	Other Solid State Detectors	13
16-Apr	Slow Neutron Detection Methods	14
18-Apr	Fast Neutron Detection and Spectroscopy	15
23-Apr	Miscellaneous Detector Types	19
16-Apr/20-Apr	Laboratory Makeup Week	X
2-May	FINAL EXAM (3:00-5:00 pm)	X

* Subject to adjustment as needed

NRC FORM 313A (RSO) (3-2009) | U.S. NUCLEAR REGULATORY COMMISSION

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.50]

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 3/31/2012

Name of Proposed Radiation Safety Officer

Michael Fernald, M.S.

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply)*:

✓ 35.100 ✓ 35.200 ✓ 35.300 ✓ 35.400 35.500 35.600 (remote afterloader)

35.600 (teletherapy) 35.600 (gamma stereotactic radiosurgery) 35.1000 ( )

PART I -- TRAINING AND EXPERIENCE
(Select one of the four methods below)

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

1. **Board Certification**

   a. Provide a copy of the board certification.

   b. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

   c. Skip to and complete Part II Preceptor Attestation.

OR

2. **Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above**

   a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.

   b. Skip to and complete Part II Preceptor Attestation.

OR

3. **Structured Educational Program for Proposed Radiation Safety Officer**

   a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation biology			
Radiation dosimetry			

Total Hours of Training:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience
(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+		

+ Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience (continued)

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer

This license authorizes the following medical uses:

35.100	35.200	35.300	35.400
35.500	35.600 (remote afterloader)		35.600 (teletherapy)
35.600 (gamma stereotactic radiosurgery)			35.1000 ( )

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	**Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285**	**11/7 - 11/11/2011** **Vanderbilt Univ. '06-'07**
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	**Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285**	**11/7 - 11/11/2011** **Vanderbilt Univ. '06-'07**
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	**Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285**	**11/7 - 11/11/2011** **Vanderbilt Univ. '06-'07**
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	**Medical Radiation Safety Officer Course, Dade Moeller Radiation Safety Academy PHYS-243, PHYS-285**	**11/7 - 11/11/2011** **Vanderbilt Univ. '06-'07**
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):		

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual *If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)*	License/Permit Number listing supervising individual

License/Permit lists supervising individual as:

☐ Radiation Safety Officer ☐ Authorized User ☐ Authorized Nuclear Pharmacist

☐ Authorized Medical Physicist

Authorized as RSO, AU, ANP, or AMP for the following medical uses:

☐ 35.100	☐ 35.200	☐ 35.300	☐ 35.400
☐ 35.500	☐ 35.600 (remote afterloader)		☐ 35.600 (teletherapy)
☐ 35.600 (gamma stereotactic radiosurgery)			☐ 35.1000 ( )

d. Skip to and complete Part II Preceptor Attestation.

OR

✓ **4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license**

a. Provide license number.

b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

c. Skip to and complete Part II Preceptor Attestation.

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section
Check one of the following:

1. Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Radiation Safety Officer

10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

2. Structured Educational Program for Proposed Radiation Safety Officers

I attest that _____ has satisfactorily completed a structural educational
Name of Proposed Radiation Safety Officer

program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

First Section (continued)
Check one of the following:

✓ **3. Additional Authorization as Radiation Safety Officer**

✓ I attest that **Michael Fernald, M.S.** is an

Name of Proposed Radiation Safety Officer

Authorized User — Authorized Nuclear Pharmacist

✓ Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

---

AND

Second Section
Complete for all *(check all that apply)*:

✓ I attest that **Michael Fernald, M.S.** has training in the radiation safety, regulatory issues, and

Name of ProposedRadiation Safety Officer

emergency procedures for the following types of use:

✓	35.100	
✓	35.200	
✓	35.300	oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required
✓	35.300	oral administration of greater than 33 millicuries of sodium iodide I-131
✓	35.300	parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required
	35.300	parenteral administration of any other radionuclide for which a written directive is required
✓	35.400	
	35.500	
	35.600	remote afterloader units
	35.600	teletherapy units
	35.600	gamma stereotactic radiosurgery units
	35.1000	emerging technologies, including:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND

Third Section
Complete for ALL

✓ I attest that **Michael Fernald, M.S.** has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer

sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for **Wyoming Medical Center**
Name of Facility

License/Permit Number: **49-00152-02**

Name of Preceptor	Signature	Telephone Number	Date
Alan G. Douglas, M.S. DABR		**(307) 233-4751**	**11/14/2011**

Certificate of Training

Awarded To

Michael Fernald

Recognizing completion of 5 days of specialized instruction in

Medical Radiation Safety Officer with DOT option

November 11, 2011

Presented By

Dade Moeller Radiation Safety Academy

438 N. Frederick Avenue, Suite 220, Gaithersburg, MD 20877

www.moellerinc.com/academy -- 301-990-6006

ABIH has awarded this course 6.68 CM Points, CM Approval #09-4769
ARRT and SNMT has approved this course up to 39.5 CEH's, 024551-024555
AAHP has awarded this course 32 Continuing Education Credits, 2009-00-076

Ray Johnson

Ray Johnson, MS, PE, FHPS, CHP
Vice President, Training Programs

No 576673

PHY-243, Health Physics
Fall 2006
Syllabus*

Date	Topic	Chapter in Text
24-Aug	Intro to Health Physics & Scientific Fundamentals	1-2
29-Aug	Scientific Fundamentals	2
31-Aug	Fundamentals of Radiation and Radioactivity	3
5-Sep	Fundamentals of Radiation and Radioactivity	3
7-Sep	Interaction of Radiation with Matter	4
12-Sep	Interaction of Radiation with Matter	4
14-Sep	Quantification of Radiation Interaction	5
19-Sep	Biological Effects of Radiation	6
21-Sep	Biological Effects of Radiation	6
26-Sep	History of Regulations	7
28-Sep	Guidance and Regulatory Bodies	7
3-Oct	TEST 1	X
5-Oct	Regulatory Limits	7
10-Oct	Regulatory Limits	7
12-Oct	Radiation Instrumentation	8
17-Oct	Holiday	X
19-Oct	Radiation Instrumentation	8
24-Oct	Radiation Instrumentation/Counting Statistics	8
26-Oct	External Dose Assessment	9
31-Oct	Internal Dose Assessment	10
2-Nov	Radiation Protection Practice/Evaluation – Internal Sources	11
7-Nov	Radiation Protection Practice/Evaluation – Internal Sources	11
9-Nov	Radiation Protection Practice/Evaluation – External Sources	11
14-Nov	Radiation Protection Practice/Evaluation – External Sources	11
16-Nov	TEST 2	X
21-Nov	Holiday	X
23-Nov	Holiday	X
28-Nov	Environmental Monitoring	12
30-Nov	Environmental Monitoring	12
5-Dec	Non-ionizing Radiation	13
7-Dec	Non-ionizing Radiation	13
12-Dec	FINAL EXAM (3:00 pm)	X

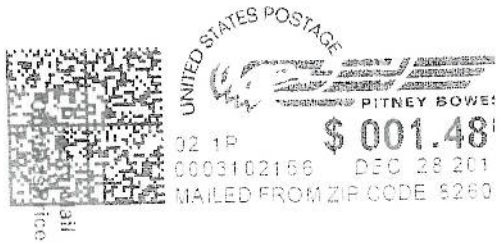
* Subject to adjustment as needed

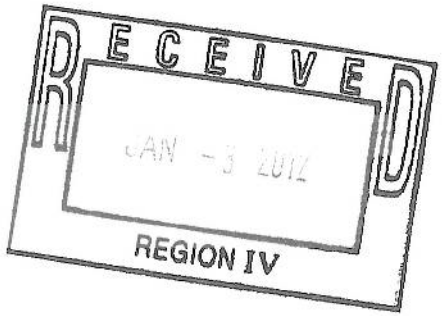
PHY-285, Radiation Detection and Measurement
Spring 2007
Syllabus*

Date	Topic	Chapter in Text
10-Jan	Introduction - Course overview	X
15-Jan	Counting Statistics	3
17-Jan	Counting Statistics	3
22-Jan	General Properties of Radiation Detectors	4
24-Jan	General Properties of Radiation Detectors	4
29-Jan	Pulse Processing and Shaping	16
31-Jan	Linear and Logic Pulse Functions	17
5-Feb	Linear and Logic Pulse Functions	17
7-Feb	Multichannel Pulse Analysis	18
12-Feb	Background and Detector Shielding	20
14-Feb	Ionization Chambers	5
19-Feb	Proportional Counters	6
21-Feb	Geiger-Mueller Counters	7
26-Feb	Review	X
28-Feb	TEST 1	X
5-Mar	HOLIDAY	X
7-Mar	HOLIDAY	X
12-Mar	Scintillation Detectors - Principles	8
14-Mar	Scintillation Detectors - Types	8
19-Mar	Photomultiplier Tubes and Photodiodes	9
21-Mar	Radiation Spectroscopy with Scintillators	10
26-Mar	Radiation Spectroscopy with Scintillators	10
28-Mar	Semiconductor Diode Detectors	11
2-Apr	Semiconductor Diode Detectors	11
4-Apr	Germanium Gamma Ray Detectors	12
9-Apr	Germanium Gamma Ray Detectors	12
11-Apr	Other Solid State Detectors	13
16-Apr	Slow Neutron Detection Methods	14
18-Apr	Fast Neutron Detection and Spectroscopy	15
23-Apr	Miscellaneous Detector Types	19
16-Apr/20-Apr	Laboratory Makeup Week	X
2-May	FINAL EXAM (3:00-5:00 pm)	X

* Subject to adjustment as needed

ROCKY MOUNTAIN ONCOLOGY
ONE TEAM. ONE FOCUS. LIFE.
6501 East 2nd Street Casper, Wyoming 82609





US Nuclear Regulatory Commission
Region IV
612 E.
Lamar Blvd., Ste 400
Arlington, TX 76011-4125

4576978

JAN 17 2012
DATE

This is to acknowledge the receipt of your letter/application dated 11/15/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

☑ There were no administrative omissions. Your application will be 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:

The action you requested is normally processed within 90 days.

☐ 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** M57663. When calling to inquire about this action, please refer to this mail control number. You may call me at 817-860-8103.

Sincerely,

Licensing Assistant

NRC FORM 532 (RIV)
(10-2006)

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 02120
Status Code: Pending Amendment
Fee Category: 7C
Exp. Date: 05/31/2015
Fee Comments:
Decom Fin Assur Reqd: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee:	WYOMING MEDICAL CENTER
Received Date:	01/03/2012
Docket Number:	3003495
Mail Control Number:	576673
License Number:	49-00152-02
Action Type:	Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: Carol L Hess

Date: 1/17/12

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment: _____

Renewal: _____

License: _____

3. OTHER _____

_____

Signed: _____

Date: _____