

December 4, 2012

ALL AGREEMENT STATES

ACCEPTANCE TO FUNDAMENTAL HEALTH PHYSICS I AND II COURSE (H-122)  
(FSME-12-089)

**Purpose:** To provide the list of students selected for the NRC Fundamental Health Physics I and II Course (H-122).

**Background:** The NRC provides the list of students and instructions to the States to help ensure that States with candidates on waiting lists will have an opportunity to fill vacated slots that may open up after this notification letter has been sent.

**Discussion:** Enclosure 1 is the list of students from the States selected to attend the January 28-February 8, 2013, Fundamental Health Physics I and II Course (H-122). This course is to be held at Oak Ridge, Tennessee. Please provide the list of students and the instructions (Enclosure 2) to each individual from your program that is on the list. Enclosed for your information is a tentative schedule for the course (Enclosure 3). Students attending this course will be paid lodging and per diem by the U.S. Nuclear Regulatory Commission (NRC). Students should also be aware that you must be a U.S. citizen to have access on to the Oak Ridge training site. If you are a foreign student and do not have citizenship you need to contact Brenda Usilton so you can receive direction as to how you can get access on to the Oak Ridge site. Students should also make their travel arrangements through Carlson Wagonlit Travel at 1-866-250-2160 immediately and then submit their travel information needed for NRC to issue their travel authorization. Please go to the following website to download the Travel Application Form <http://nrc-stp.ornl.gov/training.html> and then send it to [Brenda.Usilton@nrc.gov](mailto:Brenda.Usilton@nrc.gov) or fax it to 301-415-3502.

We ask that you inform us of any cancellations 30 days prior to the course starting date or as soon as you are aware that the student cannot attend the course.\*

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\* This information request has been approved by OMB 3150-0029 expiration 11/30/2013. The estimated burden per response to comply with this voluntary collection is approximately 8 hours. Send comments regarding the burden estimate to the Records and FOIA/Privacy Services Branch (T-5F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to [infocollects@nrc.gov](mailto:infocollects@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0029), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

If you have any questions regarding this correspondence, please contact me at 301-415-3340 or the individual named below.

POINT OF CONTACT: Brenda G. Usilton  
TELEPHONE: (301) 415-2348

INTERNET: Brenda.Usilton@NRC.GOV  
FAX: (301) 415-3502

/RA/Pamela Henderson for/

Brian J. McDermott, Director  
Materials Safety and State Agreements  
Office of Federal and State Materials  
and Environmental Management Programs

Enclosures:

1. List of students
2. Instructions to students
3. Tentative course agenda

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Distribution:

DCD (SP03)  
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**ML12335A399**

<b>OFC</b>	FSME/MSSA	FSME/MSSA	
<b>NAME</b>	BUsilton	BMcDermott /PHenderson for/	
<b>DATE</b>	12/4/12	12/4/12	

**OFFICIAL RECORD COPY**

FUNDAMENTAL HEALTH PHYSICS I and II COURSE (H-122)  
 JANUARY 28-FEBRUARY 8, 2013  
 OAK RIDGE, TN

STATE	PARTICIPANT
<b>CALIFORNIA</b> Dept. of Health Services 1500 Capitol MS-7610 Sacramento, CA 94899	Davood Aboudarda Rebecca Maher
<b>FLORIDA</b> Dept. of Health 4052 Bald Cypress Way, Bin C21 Tallahassee, FL 32399-1741	Steven Furnace Michelle Vornhagen
<b>ILLINOIS</b> Division of Nuclear Safety 1035 Outer Park Drive Springfield, IL 62704	Sean Beasley
<b>IOWA</b> Dept. of Public Health Lucas State Office building, 5 <sup>th</sup> Fl. 321 East 12 <sup>th</sup> Street Des Moines, IA 50319	Leonardo Wardrobe
<b>KANSAS</b> Dept. of Health & Environment Bureau of Environmental Health 1000 SW Jackson, Suite 330 Topeka, KS 66612-1365	Tessa Siemsen John Kratina Megan Ziegler
<b>MINNESOTA</b> Dept. of Health 625 Robert Street N. P.O. Box 64975 St. Paul, MN 55164-0975	Tyler Kruse Mary Navara
<b>MISSISSIPPI</b> Dept. of Health 3150 Lawson Street Jackson, MS 39213	James Daniels
<b>NEW YORK STATE HEALTH</b> 547 River Street Troy, NY 12180-2216	William Horn Samuel Plesc
<b>PENNSYLVANIA</b> Bureau of Radiation Protection Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469	Denise Bleiler Jessica Kendrick
<b>WISCONSIN</b> Dept. of Health Services P.O. Box 2659 Madison, WI 53701-2659	Emily Eggers Krista Kuhlman

## INSTRUCTIONS TO STUDENTS

**ACCEPTANCE:** This is to advise you that those individuals in Enclosure (1) have been accepted for participation in the training course (H-122) "Fundamental Health Physics I and II." This course is scheduled to be presented January 28-February 8, 2013 at the Oak Ridge Institute for Science and Education (ORISE) training center at 1299 Bethel Valley Road, Building SC-1 Annex, Oak Ridge, Tennessee 37830. If you go to the following website (below the lodging etc list) there are directions and also a photo of the building with the streets labeled. <http://orau.us/ptpdirections>

**COURSE:** The course will be conducted beginning at 8:00 a.m. and end at 4:00 p.m. each day except for Friday, February 8, 2013 classes are scheduled to be completed at 3:00 p.m. The per diem for Oak Ridge, TN area is 91/46/137. This means lodging/meals/not to exceed total. Tax is a separate line item on your voucher. There is no suitable lodging within walking distance, nor reliable public transportation, from the hotels to the Training Center; therefore, students should coordinate with students who have a car, or take a taxi to and from the training center. No rental cars will be authorized for travel. If traveling by air, you need to contact Carlson Travel at 1-866-250-2160 for airline reservations. Please complete the Travel Application Form <http://nrc-stp.ornl.gov/training.html> and return it to Brenda Usilton at [Brenda.Usilton@nrc.gov](mailto:Brenda.Usilton@nrc.gov) or fax it to 301-415-3502. If you have any questions regarding the travel form please contact Brenda on 301-415-2348. You will also need to go to the same website to receive a copy of the travel instructions and voucher for reimbursement. *"Foreign nationals must contact the ORISE registrar at [registrar@orau.org](mailto:registrar@orau.org) two months prior to the course start date to be cleared to attend." You will need a passport to get into the class. You will need to let Brenda Usilton know if you do not have citizenship so she can work with ORISE in getting all the paperwork filled out.*

If you have any questions regarding the travel form please contact Brenda on 301-415-2348. You will also need to go to the same website to receive a copy of the travel instructions and voucher for reimbursement. The Federal mileage rate for FY2013 is 55.5 cents per mile. You will also need a copy of your travel itinerary included in your voucher reimbursement. They will not process your voucher without it.

Cellular phones and similar devices with audible capability should be disabled while classes are in session. Normal office/business attire is appropriate for students attending NRC courses. Enclosure 3 is a tentative agenda for the course. Students should bring a scientific calculator and know how to use it.

**LODGING:** You should plan to arrive on Sunday, January 27, 2013 and depart on Friday, February 8, 2013. Participants must make their own lodging and travel arrangements. The following hotels are listed for your convenience. Individuals should request a Federal government rate at the hotels.

Staybridge Suites  
420 South Illinois Ave  
Oak Ridge, TN 37830  
865-298-0050

Jameson Inn  
216 South Rutgers Ave.  
Oak Ridge, TN 37830  
865-483-6809

Comfort Inn  
433 South Rutgers Ave  
Oak Ridge, TN  
(865) 481-8200  
1-800-221-2222

Doubletree  
215 South Illinois Ave  
Oak Ridge, TN  
(865) 481-2468  
1-800-3GARDEN

Holiday Inn Express  
114 Tulsa Rd  
Oak Ridge, TN 37830  
865-298-1990

**Tentative Course Outline**  
**Basic Health Physics Technology**  
**January 28-February 8, 2013**

<b>First Week</b>	<b>DATE</b>	<b>TIME</b>	<b>TOPIC</b>	<b>INSTRUCTOR(S)</b>	<b>LOCATION</b>
Monday, Jan 28	8:00 AM		Registration, Orientation and Photo Staff		W-14/W-13
	9:00 AM		INTRODUCTION TO RADIOACTIVITY	Frame	W-14
	12:00 Noon		Lunch and Welcome		
	1:00 PM		INTERACTIONS OF RADIATION WITH MATTER	Thomas	W-14
	3:00 PM		RADIATION SAFETY PRINCIPLES	Thomas	W-14
	4:00 PM		Practice Test	Worthington	
Tuesday, Jan 29	8:00 AM		RADIATION SAFETY PRINCIPLES (Cont'd)	Thomas	W-14
	9:00 AM		RADIATION QUANTITIES AND UNITS	Frame	W-14
	12:00 Noon		Lunch		
	1:00 PM		BIOLOGICAL EFFECTS OF RADIATION	Frame	W-14
	2:30 PM		Demonstration: Cloud Chamber, Lab: GM Detectors (GM-100, 103, 105, 106)	Bernhardt/Worthington	W-4
Wednesday, Jan 30	8:00 AM		INSTRUMENT OVERVIEW – Gas detectors, scintillation detectors, semiconductor detectors	Frame	W-14
	11:00 AM		SURVEY INSTRUMENTS	Frame	W-14
	12:00 Noon		Lunch (review at 12:15 PM in C-1)		
	1:00 PM		Lab: Survey Instruments I (SI-100, 100.1, 102)	Thomas	W-15
	2:45 PM		Lab: Survey Instruments II (SI-101, 103)	Thomas	W-15
	4:00 PM		Test		
Thursday, Jan 31	8:00 AM		NATURAL BACKGROUND RADIATION	Bernhardt	C-1
	9:30 AM		INSTRUMENT CALIBRATION	Frame	C-1
	11:00 AM		CONTAMINATION SURVEYS	Bernhardt	C-1
	12:00 Noon		Lunch		
	1:00 PM		Lab: Survey Instrument Calibration (SI-106)	Bernhardt/Worthington	W-15
	2:30 PM		Lab: Walkover Survey – NaI detectors	Bernhardt/Worthington	W-15
	3:30 PM		Lab: Floor Monitoring – Gas Flow Proportional	Bernhardt/Worthington	W-15
Friday, Feb 1	8:00 AM		REGULATIONS and REGULATORY GUIDANCE	Thomas	C-1
	10:00 AM		Lab: Ion Exchange (RC-102)	Thomas/Bernhardt	W-19
	12:00 Noon		Lunch (review at 12:15 PM in C-1)		
	1:00 PM		Lab: Contamination Surveys (ST-102)	Bernhardt/Thomas	W-19
	2:00 PM		COUNTING STATISTICS	Thomas	C-1
	3:00 PM		Lab: Counting Statistics (S-102)	Thomas/Worthington	W-15
	4:00 PM		Test	Worthington	

**February 4-8, 2013**  
**Second Week**

DATE	TIME	TOPIC	INSTRUCTOR(S)	LOCATION
Monday, Feb 4	8:00 AM	EXTERNAL DOSIMETRY AND PERSONNEL MONITORING	Thomas	C-1
	10:00 AM	BIOASSAY	Toohy	C-1
	12:00 Noon	Lunch		
	2:30 PM	Lab: Gamma Spectroscopy II (GE-100, 101.1, 103)	Thomas/Bernhardt	W-15
Tuesday, Feb 5	8:00 AM	NEUTRON SOURCES, INTERACTIONS AND DETECTION	Frame	C-1
	10:00 AM	NEUTRON ACTIVATION	Frame	C-1
	11:00 AM	THERMOLUMINESCENT AND OSL	Frame	C-1
	12:00 Noon	Lunch		
	1:00 PM	Lab: Activation Analysis (NAA-103)	Thomas/Worthington	W-15
	2:30 PM	Lab: TLD Systems (TLD-100, 102,103)	Thomas/Worthington	W-15
Wednesday, Feb 6	8:00 AM	RADIATION SHIELDING	Thomas	C-1
	10:00 AM	Lab: Shielding	Thomas/Worthington	C-1
	11:00 AM	AIR SAMPLING	Frame	C-1
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	AIR SAMPLING continued	Frame	C-1
	2:00 PM	Lab: Air Sampling (AS-105)	Frame/Worthington	W-1
	4:00 PM	Test	Worthington	
Thursday, Feb 7	8:00 AM	RESPIRATORY PROTECTION	Frame	C-1
	9:00 AM	Lab: Protective Clothing	Bernhardt	W-15-C
	10:30 AM	ENVIRONMENTAL TRANSPORT MODELING	Frame	C-1
	12:00 Noon	Lunch		
	1:00 PM	RADIOACTIVE WASTE	Frame	C-1
	2:00 PM	LIQUID SCINTILLATION COUNTING	Frame	C-1
	3:00 PM	Lab: LSC	Bernhardt, Worthington	W-15
Friday, Feb 8	8:00 AM	MEDICAL USES OF RADIATION	Thomas	C-1
	9:00 AM	REAL-WORLD LICENSEE ISSUES Power Reactors; Fuel Cycle Licensees; Industrial Uses; Academic Users; Decommissioning Uranium Recovery Facilities; Waste Disposal Sites	Staff	C-1
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	CURRENT TOPICS - Issues, events, accidents	Thomas	C-1
	3:00 PM	Test	Worthington	