



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

(FSME-10-096, December, Training, H-122)

December 3, 2010

ALL AGREEMENT STATES, MICHIGAN

ACCEPTANCE TO THE BASIC HEALTH PHYSICS TECHNOLOGY COURSE (H-122)  
(FSME-10-096)

**Purpose:** To provide the list of students selected for the U.S. Nuclear Regulatory Commission (NRC) Basic Health Physics Technology Course (H-122).

**Background:** 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 31-February 11, 2011, Basic Health Physics Technology Course (H-122). This course will be held in 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). The NRC will pay lodging and per diem expenses to students attending this course. Students should make their travel arrangements through Carlson Wagonlit Travel at 1-866-250-2160, and submit their travel information needed for NRC to issue their travel authorization. Please complete the Travel Application Form located at <http://nrc-stp.ornl.gov/training.html> and 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.<sup>1</sup>

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<sup>1</sup> 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-1 0202 (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.

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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](mailto:Brenda.usilton@nrc.gov)  
FAX: 301-415-3502

**/RA/by James G. Luehman**

Robert J. Lewis, Director  
Division of Materials Safety  
and State Agreements  
Office of Federal and State Materials  
and Environmental Management Programs

Enclosures:

1. Course Participant List
2. Instructions to Students
3. Tentative Course Schedule

BASIC HEALTH PHYSICS TECHNOLOGY COURSE (H-122)  
 JANUARY 31- FEBRUARY 11, 2011  
 OAK RIDGE, TN

STATE PARTICIP	ANT
<b>ARKANSAS</b> Dept. of Health 4815 W. Markham St., Slot H-30 Little Rock, AR 72206-3867	Kayla Avery
<b>CALIFORNIA</b> 1500 Capitol Avenue Mail Stop 7610 5 <sup>th</sup> Floor Sacramento, CA 95814	Marilyn Cantrell Robert Custodio Rajwant Singh Bedi Timothy Eldridge
<b>COLORADO</b> Dept of Public Health & Environment 4300 Cherry Creek Drive South Denver, CO 80246-1530	Mark Dater
<b>KANSAS</b> Dept. of Health & Environment 1000 SW Jackson, Suite 330 Topeka, KS 66612-1365	Aaron Short
<b>MINNESOTA</b> Dept. of Health 625 Robert Street N. P.O. Box 64975 St. Paul, MN 55164-0975	Brennen Brunner Teresa Purrington
<b>MISSISSIPPI</b> Division of Radiological Health State Department of Health 3150 Lawson Street Jackson, MS 39215-1700	Dorsey Hamlin Roland Hargrove
<b>OHIO</b> Dept. of Health 246 North High Street Columbus, OH 43215	Pamela Hintz
<b>OKLAHOMA</b> 707 N. Robinson Oklahoma City, OK 73102	Michelle Varbel Nolan Kirk
<b>RHODE ISLAND</b> Radiological Health Program 3 Capitol Hill, Room 206 Providence, RI 02908-5097	Charma Waring
<b>TENNESSEE</b> Division of Radiological Health L & C Annex, Third Floor 401 Church Street Nashville, TN 37243-1532	Laura Turner
<b>UTAH</b> Dept. of Environmental Quality 168 North 1960 West P.O. Box 144850 Salt Lake City, UT 84114-4850	David Rupp

## INSTRUCTIONS TO STUDENTS

**ACCEPTANCE:** This is to advise you that those individuals in Enclosure 1 have been accepted for participation in the Basic Health Physics Technology Course (H-122). This course will be presented January 31-February 11, 2011, at the Oak Ridge Institute for Science and Education (ORISE) training center, located at 1299 Bethel Valley Road, Building SC-200, Oak Ridge, Tennessee 37830. If you go to the following website, there are directions and also a photo of the building with the streets labeled.

<http://www.ornl.gov/environmental-assessments-health-physics/capabilities/health-physics-training/directions-lodging-transportation.aspx>

**COURSE:** The course hours are 8:00 a.m.-4:00 p.m. each day except Friday, February 11, 2011. Friday's classes are scheduled to conclude at 3:00 p.m. The per diem for the Oak Ridge, Tennessee area is 90/46/136. This means lodging/meals/not to exceed total per day. 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, please contact Carlson Wagonlit Travel at 1-866-250-2160, to book reservations. Please complete the Travel Application Form located at <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. Travel instructions and the voucher for reimbursement may also be accessed at the above website.

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 Technical Training Center 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 30, 2011, and depart on Friday, February 11, 2011. 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.

Comfort Inn  
433 South Rutgers Avenue  
Oak Ridge, TN  
(423) 481-8200  
1-800-221-2222 1

Garden Plaza Hotel  
215 South Illinois Avenue  
Oak Ridge, TN  
(423) 481-2468  
-800-3GARDEN

**Tentative Course Outline  
Basic Health Physics Technology  
January 31-February 4, 2011**

<b>First Week DATE</b>	<b>TIME</b>	<b>TOPIC</b>	<b>INSTRUCTOR(S)</b>	<b>LOCATION</b>
Monday, Jan. 31	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, Feb. 1	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, Feb 2	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, Feb 3	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-1 5	
Friday, Feb 4	8:00 AM	REGULATIONS and REGULATORY GUIDANCE	Thomas	C-1
	10:00AM	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-1 5
4:00 PM	Test	Worthington		

**February 7-11, 2011**  
**Second Week**

<b>DATE TIME</b>	<b>TOPIC</b>	<b>INSTRUCTOR(S)</b>	<b>LOCATION</b>
Monday, 8:00 AM Feb 7	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, 8:00 AM Feb 8	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-1 03)	Thomas/Worthington	W-1 5
2:30 PM	Lab: TLD Systems (TLD-1 00, 1 02,1 03)	Thomas/Worthington	W-1 5
Wednesday,8:00 AM Feb 9	RADIATION SHIELDING 10:00AM Lab: Shielding	Thomas	C-1
11 :00 AM	AIR SAMPLING	Thomas/Worthington	C-1
12:00 Noon	Lunch (review at 12:15 PM in C-1)	Frame	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, 8:00 AM Feb 1 0	RESPIRATORY PROTECTION 9:00 AM Lab: Protective Clothing	Frame	C-1
10:30 AM	ENVIRONMENTAL TRANSPORT MODELING	Bernhardt	W-1 5-C
12:00 Noon	Lunch	Frame	C-1
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 11	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	