

June 9, 2009

ALL AGREEMENT STATES, MICHIGAN, NEW JERSEY

**ACCEPTANCE TO THE BASIC HEALTH PHYSICS TECHNOLOGY COURSE (H-122)**  
(FSME-09-034)

**Purpose:** To provide the list of students selected for the 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 August 3-14, 2009 Basic Health Physics Technology Course (H-122). This course is to 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). Students attending this course will be paid for by the U.S. Nuclear Regulatory Commission (NRC). Students should 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 (Appendix A) to Brenda Usilton (Fax 301-415-3502). (See invitational travel information in AD-500 at: <http://nrc-stp.ornl.gov/procedures/ad500.pdf>)

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 08/31/2010. 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](mailto:Brenda.Usilton@NRC.GOV)  
FAX: (301) 415-3502

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Robert J. Lewis, Director  
Division of Materials Safety  
and State Agreements  
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Enclosures:  
As stated

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**ML091530474**

<b>OFC</b>	FSME/DMSSA	DMSSA	
<b>NAME</b>	BUsilton	RLewis	
<b>DATE</b>	6/8/09	6/9/09	

**OFFICIAL RECORD COPY**

BASIC HEALTH PHYSICS TECHNOLOGY COURSE  
AUGUST 3-14, 2009  
OAK RIDGE, TN

STATE	PARTICIPANT
ARIZONA Radiation Regulatory Agency 4814 South 40 <sup>th</sup> Street Phoenix, AZ 85040	Johnny Little
ARKANSAS AR Dept of Health & Human Services Radiation Materials Program P.O. Box 1437, Slot H-30 Little Rock, AR 72203-1437	Janet Byford
CALIFORNIA Dept. of Health Services P.O. Box 997414, MS-7610 Sacramento, CA 95899-7414	Joji Ortego
COLORADO CO Dept. of Public Health & Environment HMWMD-RAD-B2 4300 Cherry Creek Drive South Denver, CO 80245-1530	James DeWolfe
KANSAS Bureau of Air and Radiation 1000 SW Jackson, Suite 310 Topeka, KS 66612-1366	Jay Schalansky
KENTUCKY Radiation Health Branch, Dept of Public Health 100 Tower Blvd, Suite 108 Frankfort, KY 40601	Angela Shryock
NEW MEXICO Environment Department Harold S. Runnels Building 1190 St. Francis Drive, Rm S2100 Santa Fe, NM 87502-0110	Santiago Rodriguez
NORTH DAKOTA Dept. of Health 918 E. Divide Avenue Bismarck, ND 58501	Louise Roehrich
OREGON Radiation Protection Services Oregon Health Services Department of Human Services 800 NE Oregon Street, Suite 260	Emal Wahab

Portland, OR 97232-2162	
PENNSYLVANIA Dept. of Environmental Protection Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469	Daneen Leonard
SOUTH CAROLNA Dept. of Health & Environmental Control 2600 Bull Street Columbia, SC 29201	Kelli Wukela
UTAH Dept. of Environmental Quality 168 North 1950 West P.O. Box 144850 Salt Lake City, UT 84114	Ryan Johnson

## 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) "Basic Health Physics Technology." This course is scheduled to be presented August 3-14, 2009 at the Oak Ridge Institute for Science and Education (ORISE) training center at 1299 Bethel Valley Road, Building SC-200, 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://www.ornl.gov/busops/ivhp/health-physics/lodging.htm>

**COURSE:** The course will be conducted beginning at 8:00 a.m. and end at 4:00 p.m. each day except for Friday, August 14, 2009 classes are scheduled to be completed at 3:00 p.m. . The per diem for Oak Ridge, TN area is 86/39/125. 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 cars. 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 invitational travel authorization request as described in FSME Procedure AD-500, "Invitational Travel Authorization and Voucher" 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 receive a travel voucher for reimbursement after the course ends.

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 TTC courses. Enclosure 3 is a tentative agenda for the course. Students should bring a scientific calculator and know how to use it.

**LODGING:** 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

Garden Plaza Hotel  
215 South Illinois Avenue  
Oak Ridge, TN  
(423) 481-2468  
1-800-3GARDEN

**Tentative Course Outline  
Basic Health Physics Technology  
August 3-14, 2009**

<b>First Week</b>				
<b>DATE</b>	<b>TIME</b>	<b>TOPIC</b>	<b>INSTRUCTOR(S)</b>	<b>LOCATION</b>
Monday, August 3	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, August 4	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, August 5	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, August 6	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, August 7	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-15
	4:00 PM	Test	Worthington	

**August 3-14, 2009**  
**Second Week**

<b>DATE</b>	<b>TIME</b>	<b>TOPIC</b>	<b>INSTRUCTOR(S)</b>	<b>LOCATION</b>
Monday, August 10	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, August 11	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, August 12	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, August 13	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, August 14	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	