

September 20, 2000

ALL AGREEMENT STATES
MINNESOTA, OKLAHOMA, PENNSYLVANIA, WISCONSIN

**TRAINING COURSE INFORMATION: ACCEPTANCE TO THE HEALTH PHYSICS
TECHNOLOGY COURSE (H-201) (STP-00-076)**

Enclosure 1 is the list of students from the States selected to attend the October 23-
November 3, 2000, Health Physics Technology Course (H-201). Please provide the list of
students and the instructions (Enclosure 2) to each individual from your program who is on the
list. States with students attending this course have agreed to pay travel expenses, however,
there is no tuition for this course.

Course attendees should be encouraged to make travel and lodging arrangements as soon as
possible. If for any reason a candidate is unable to attend, please contact us as soon as
possible, so that alternative arrangements can be made.

If you have any questions regarding this correspondence, please contact me or the individual
named below.

| | | | |
|-------------------|-------------------|-----------|----------------|
| POINT OF CONTACT: | Brenda G. Usilton | INTERNET: | BGU@NRC.GOV |
| TELEPHONE: | (301) 415-2348 | FAX: | (301) 415-3502 |

/RA/

Frederick C. Combs, Deputy Director
Office of State and Tribal Programs

Enclosures:
As stated

Distribution:

| | |
|----------------------|------------|
| DIR RF | DCD (SP03) |
| SDroggitis | PDR (YES✓) |
| JPatterson, TTD | |
| JRicci, TTD | |
| Agreement State File | |

DOCUMENT NAME: G:\H201course.wpd

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|--------|------------|--|------------|--|--|--|--|--|
| OFFICE | STP | | STP:DD | | | | | |
| NAME | BGUsilton: | | FCombs | | | | | |
| DATE | 09/19/2000 | | 09/20/2000 | | | | | |

STP-A-4

**LIST OF ATTENDEES FOR THE
HEALTH PHYSICS TECHNOLOGY COURSE (H-201)**

October 23-November 3, 2000

| STATE | PARTICIPANT(S) | NO TUITION COURSE |
|---|----------------------|-------------------|
| OHIO Bureau of Radiation Protection Ohio Department of Health 35 East Chestnut Street Columbus, OH 43266 | 1. William Hutchison | |
| OKLAHOMA Radiation Management Section Department of Environmental Quality P.O. Box 1677 Oklahoma City, OK 73101-1677 | 1. Mike Broderick | |

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-201), "Health Physics Technology Course." This course is scheduled to be presented October 23-November 3, 2000 at the NRC Technical Training Center, 5746 Martin Road, Osborne Office Center, Suite 200, Eastgate Shopping Center, Chattanooga, Tennessee 37411-5677.

COURSE: The course will be conducted beginning at 8:00 a.m. and end at 4:00 p.m. daily. However, on Monday, October 23, 2000 formal presentations will begin at 1:00 p.m. A math review session will be conducted on Monday morning, October 23, 2000 from 8:00-12:00 p.m. Attendance at this review is optional. If you are planning to attend the optional math review session on Monday morning, please send an e-mail to JLR1@NRC.GOV. Classes are scheduled to be completed at 1:00 p.m. on Friday, November 3, 2000. Students should bring an engineering or scientific calculator with them. Attached as Enclosure 3 is a tentative agenda.

LODGING AND TRAVEL: You should plan to arrive on Sunday, October 23, 2000 (if you plan to attend the math review session) and depart on Friday, November 3, 2000. Participants must make their own lodging arrangements. Individuals should request a State or government employee rate at the hotels. The following URL is for hotels located in the vicinity of the Technical Training Center: <http://134.167.142.214:591/Nrc/ttd/front/motels.html>; and we are also including the URL for maps of the vicinity: http://www.hsr.d.ornl.gov/nrc/special/chat_map.pdf. 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.

Tentative Schedule - Week 1 - October 23 -27, 2000

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------------|---------------------------|-------------------------------------|---|--|---|
| 8:00-8:30 | Math Review (optional) | Radiation Concepts (1&3) | Quiz 1 and Review | Review and Problem Session | Quiz 2 and Review |
| 8:30-9:00 | | | | | |
| 9:00-9:30 | | X-Rays (5) | | | |
| 9:30-10:00 | | | | | |
| 10:00-10:30 | | Radioactive Decay (7) | Point Source Inverse Square (12) | Skin Dose (17) | ALARA (24) |
| 10:30-11:00 | | | | | |
| 11:00-11:30 | | Specific Activity (8) | Line Source (13) | Instruments and Calibration (21/22) | Effective Dose Equivalent (29) |
| 11:30-12:00 | | | | | |
| 12:00-1:00 | Lunch | Lunch | Lunch | Lunch | Lunch |
| 1:00-1:30 | Introduction Admin | Neutron Activation (9) | Area and Volume Sources (14/15) | Instruments and Calibration (21/22) | Submersion Dose (30) |
| 1:30-2:00 | | | | | |
| 2:00-2:30 | | | | | |
| 2:30-3:00 | Dose Limits (6) | Serial Decay Equilibrium (10) | Interactions and Shielding (16) | Surveys (23) | External Dose Evaluation (31) |
| 3:00-3:30 | | | | | |
| 3:30-4:00 | | Gamma Constant (11) | | | |

Tentative Schedule - Week 2 - October 30 - November 3, 2000

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------------|---|-------------------|---------------------------------|-----------------------------------|---------------|
| 8:00-8:30 | Review and Problem Session | Quiz 3 and Review | Review and Problem Session | Quiz 4 and Review | Final Exam |
| 8:30-9:00 | | | | | |
| 9:00-9:30 | | | | | |
| 9:30-10:00 | | | | | |
| 10:00-10:30 | Internal Dosimetry (32/33) | EPA FGR 11 (37) | Embryo/Fetal Dose (45) | TEDE ALARA (50) | |
| 10:30-11:00 | Effective Half Life and Mean Life (34/35) | Effluents (39) | Contamination Surveys (46) | REMIT and NRC Forms 4 & 5 (51/20) | |
| 11:00-11:30 | | | | | |
| 11:30-12:00 | Lunch | Lunch | Lunch | Lunch | |
| 12:00-1:00 | | | | | |
| 1:00-1:30 | ICRP-30 and 10 CFR Part 20 (36/38) | Air Sampling (47) | Contamination Surveys (46) | Review and Problem Session | |
| 1:30-2:00 | | | | | |
| 2:00-2:30 | Lung Model and Particle Size (40/41) | Bioassay (48) | Intake Retention Fractions (49) | | |
| 2:30-3:00 | | | | | |
| 3:00-3:30 | | MIRD (44) | | | |
| 3:30-4:00 | | | | | |

TOPICS FOR OPTIONAL MATH REVIEW

Basic Math
Algebra

Laws of Exponents
Dimensional Analysis

Geometry
Trigonometry
Logarithms

Linear Interpolation

Solving for Imbedded Variables
Extracting Information from Tables