



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

(FSME-12-090, December, Training, H-500)

December 4, 2012

ALL AGREEMENT STATES

ACCEPTANCE TO THE VISUAL SAMPLE TRAINING COURSE (H-500) – HARRISBURG, PA
(FSME-12-090)

Purpose: To provide the list of students selected for the U.S. Nuclear Regulatory Commission (NRC) Visual Sample Training Course (H-500).

Background: The NRC provides a 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 a list of students from the States selected to attend the January 29-February 1, 2012, Visual Sample Training Course (H-500). This course is to be held in Harrisburg, Pennsylvania. 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 have their lodging and per diem paid for by the 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. 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 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.*

*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, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (31 50-0029), 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
Division of 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

VISUAL SAMPLE TRAINING COURSE (H-500)
 JANUARY 29-FEBRUARY 1, 2013
 HARRISBURG, PENNSYLVANIA

STATE	PARTICIPANT
CALIFORNIA Dept. of Health Services P.O. Box 997414, MS-7610 Sacramento, CA 95899-7414	Tracy Jue
COLORADO Dept of Public Health & Environment HMWMD-RAD-B2 4300 Cherry Creek Drive South Denver, CO 80246-1530	Shiya Wang
NORTH CAROLINA Dept. of Environment & Natural Resources 3825 Barrett Drive Raleigh, NC 27609-7221	Randy Crowe
OKLAHOMA Radiation Management Section P.O. Box 1677 Oklahoma City, OK 73101-1677	John Flynn
PENNSYLVANIA Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469	Corey Fahnestock Joshua Myers Christopher Ott Jeffrey Whitehead Bryan Werner Jerrica Cornelius Tonda Lewis Dennis Ferguson Thomas Deneen Jr.
TENNESSEE Division of Radiological Health L&C Annex, Third Floor 401 Church Street Nashville, TN 37243-1532	Beth Shelton Laura Turner

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-500) "Visual Sample Training Course." This course is scheduled to be presented January 29-February 1, 2013, at the Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 3rd Floor Computer Training Room, 400 Market Street, Harrisburg, PA 17101. If you have any questions, please contact Benjamin Seiber at 717-783-7702.

COURSE: The course will be conducted beginning at 8:00 a.m. and will end at 4:00 pm. each day except for Friday, February 1, 2013 it will end at 2:30 pm. A tentative course agenda is attached (Enclosure 3).

LODGING AND TRAVEL: You should plan to arrive on Monday, January 28, 2013 and should depart on Friday, February 1, 2013. Participants must make their own lodging and travel arrangements. Individuals should request a Federal government rate at the hotels. The per diem for Harrisburg, Pennsylvania is 108/51/159. This means lodging/meals/not to exceed total. Tax is a separate line item on your voucher. 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 or fax it to 301-415-3502. If you have any questions regarding the travel form, please contact Brenda at 301-415-2348. No rental cars will be authorized for travel. You will need to take a taxi or shuttle to and from the airport. You will also go to the same website to receive a copy of the travel instructions and voucher for reimbursement. 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 training.

Hotels within walking distance:

Hilton Harrisburg
One North Second Street
Harrisburg, PA 17101
717-233-6000

Crowne Plaza Harrisburg
23 South Second Street
Harrisburg, PA 17101
717-234-5021

Comfort Inn Riverfront
525 South Front Street
Harrisburg, PA 17104
717-233-1611

Students will need to show ID at the guards desk and will be issued a visitor badge. If you are driving parking next door at the Fifth Street Garage is approximately \$25.00 per day.

<http://www.harrisburgparking.org/>

VSP 4 Day Training Course Outline (2 Day General Course Followed by 2 Day Advanced Course)

[Each participant will have a desk top with VSP on it and will work through the case studies together with the instructor and individually.]

GENERAL 2-DAY VSP TRAINING SESSION

DAY 1

- | | |
|-------------|---|
| 8:00-8:25 | Course Expectations, Prior Training, Schedule, Feedback, Load VSP, etc. |
| 8:25-9:00 | VSP Overview/Demo (Executive Summary) |
| 9:00-9:30 | Review of Systematic Planning, DQO Process, and DQA |
| 9:30-9:45 | Break |
| 9:45-11:15 | VSP Maneuvering and Procedures (Part 1) |
| 11:15-12:00 | Statistical Concept Review and Intro to Sampling Design Expert Mentor |
| 12:00-1:00 | Lunch (on your own) |
| 1:00-2:00 | VSP Maneuvering and Procedures (Part 2) |
| 2:00-2:45 | Case Studies <ul style="list-style-type: none"><input type="checkbox"/> Judgment Sampling<input type="checkbox"/> Locate Hotspot Objective<input type="checkbox"/> Comparison Against a Threshold |
| 2:45-3:00 | Break |
| 3:00-3:55 | Group Case Study <ul style="list-style-type: none"><input type="checkbox"/> Introduce DQO/VSP Group Case Studies<input type="checkbox"/> Group Breakout on DQO/VSP Case Studies |
| 3:55- 4:00 | Questions, Issues, End of Day 1 |

Day 2

- 8:00-8:15 Questions, Quick Review
- 8:15-9:40 Case Studies
- Comparison Against Threshold (2)
 - Confidence Interval Objective
 - Comparison Against Background
- 9:40-9:55 Break
- 9:55-11:00 Case Studies (Mean Based Decisions)
- Collaborative Sampling (Instructor-Led and On Your Own)
 - Sequential Sampling (Instructor-Led and On Your Own)
- 11:00- 12:00 Case Studies (Individual Observation Based Decisions)
- Hotspot Detection with False Negative Rate (Building)
 - X%/Y% Acceptance Sampling – No Excedences Allowed
- 12:00-1:00 Lunch (on your own)
- 1:00-2:40 Case Studies
- X%/Y% NonParametric UTL
 - X%/Y% Parametric UTL
 - X%/Y% Acceptance Sampling – Excedences Allowed (Optional)
 - Trend Detection/Estimation – No Seasonality
- 2:40-2:55 Break
- 2:55-3:55 Finalize Group DQO/VSP Case Studies
- 3:55-4:00 Questions, Issues, End of Day 2.

ADVANCED VSP TRAINING SESSION

(This session has several modular sections. Depending on class make-up and interest, some training modules may be emphasized whereas others may be either skipped or covered only briefly; The order is flexible and breaks will be taken as needed)

Day 3: Advanced

- 8:00-8:30 MQO Features and Retrospective Evaluations
- 8:30-9:15 Presentations of DQO/VSP Case Studies
- 9:15-9:30 Expert Mentor and Data Analysis Tools
- 9:30-9:45 Overview and Prioritization of Advanced Topic Modules
 - Mean Comparison Module (2 hours)
 - Multi-Increment (Composite) Sampling Intro & Case Study
 - Stratified Sampling Presentation and Case Study
 - Adaptive Cluster Sampling
 - Use of Historical Samples
 - Handling Less-Than-Detects
 - Long Term Monitoring Module (3-4 hours)
 - Well Grouping Options
 - Trend Detection/Estimation: Seasonality
 - Trend Detection- Exponential, LOWESS, Well Grouping, <Detect
 - GeoStatistical Modeling Tutorial and Case Study
 - Spatial Redundancy Evaluation Case Study
 - Analyte Redundancy Evaluation Case Study
 - Temporal Redundancy Evaluation Case Study
 - Adding Spatial Sample Locations
 - Within Building Module (2-3 hours)
 - Strategic Zone Designation and General Approach
 - Map/Building Features, Furniture/Shelves, and Maneuvering
 - Office Building Sampling Designs Case Study
 - Combined Judgment and Probabilistic Sampling Intro & Case Study
 - Airport Case Study
 - INL Facility Simulated Bio-Release Illustration (optional)
 - Radiological Surveys and Item Sampling (1 hour)
 - Radiological Survey Design and Analysis Case Study
 - Item Sampling Case Study
 - UXO Module (2 hours)
 - Problem and Approach Overview Presentation
 - Transect Design and Analysis Case Study
 - Post Remediation Validation Case Study

9:45-10:00 Break
10:00-12:00 Advanced Topic Module 1
12:00-1:00 Lunch (on your own)
1:00-2:45 Advanced Topic Module 2
2:45-3:00 Break
3:00-4:00 Advanced Topic Module 3 (1st half)
4:30-4:45 Issues, Questions, End of Advanced Day 1

Day 4: Advanced

8:00-8:15 Issues, Questions from Advanced Day 1.
8:15-9:30 Advanced Topic 3 (Continued)
9:30-9:45 Break
9:45-12:00 Advanced Topic 4
12:00-1:00 Lunch
1:00-2:15 Advanced Topic 5
2:15-2:30 Future VSP Directions, Evaluation Forms, Wrap Up.
2:30 Adjourn