



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

(FSME-11-111, December, Training, Visual Sample Plan)

December 27, 2011

ALL AGREEMENT STATES

ACCEPTANCE TO THE VISUAL SAMPLE PLAN TRAINING COURSE (FSME-11-111)

Purpose: To provide the list of students selected for the NRC Visual Sample Plan Training Course.

Background: NRC provides the list of students and instructions to the States to help ensure that States with candidates on waiting list 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 February 7-10, 2012 Visual Sample Plan Training Course. This course is to be held in Bethesda, Maryland. 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 travel and per diem 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). 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 (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 INTERNET: Brenda.Usilton@NRC.GOV
TELEPHONE: 301-415-2348 FAX: 301-415-3502

/RA/ JLuehman 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 schedule

VISUAL SAMPLE PLAN COURSE
FEBRUARY 7-10, 2012
BETHESDA, MD

STATE	PARTICIPANT(S)
CALIFORNIA Dept. of Health Services P.O. Box 997414, MS7610 Sacramento, CA 95899-7414	Eric Pulley
OHIO Dept. of Health 246 North High Street Columbus, OH 43215	Michael Rubadue
PENNSYLVANIA DEP- Bureau of Radiation Protection Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469	Joshua Myers
TENNESSEE 401 Church Street Third Floor L&C Annex Nashville, TN 37243	Anthony Hogan
UTAH Dept. of Environmental Quality 195 North 1950 West P.O. Box 144850 Salt Lake City, UT 84116	John Hultquist

ACCEPTANCE: This is to advise you that those individuals in Enclosure 1 have been accepted for participation in the training course Visual Sample Plan Training Course." This course is scheduled to be presented February 7-10, 2012, at the Professional Development Center in Bethesda, Maryland, at 7201 Wisconsin Avenue, Suite 425. It is located 3.5 blocks from the Bethesda Metro stop. For non headquarters personnel traveling to the training, we suggest that you stay at a hotel that is on the metro line for your convenience.

COURSE: The course will be conducted beginning at 8:00 a.m. - 4:00 p.m. and will end at 2:30 pm on Friday, February 10, 2012. 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. Enclosure 3 is a tentative agenda for the course. If traveling by air, you need to contact Carlson Travel at 1-866-250-2160 for airline reservations. Please complete the Travel Application Form which is located at <http://nrc-stp.ornl.gov/training.html>. You can also go to the same website to receive a copy of the travel instructions and voucher for reimbursement. Please return the travel form, and if you have any questions regarding the form contact Brenda Usilton at Brenda.Usilton@nrc.gov on 301-415-2348 or fax it to 301-415-3502.

LODGING:.. You should plan to arrive on Tuesday, February 7, 2012 and depart on Friday, February 10, 2012. Below is a list of hotels in the Bethesda, Maryland area. Participants must make their own lodging and travel arrangements. Individuals should request a government rate at the hotels. Below are a number of hotels in the area. The per diem for the area is \$183 for lodging, \$71 for meals and incidents, not to exceed \$254. No rental cars will be authorized. A tentative outline for the course (Enclosure 3) is attached. 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. If traveling by air, you need to contact Carlson Travel at 1-866-250-2160 for airline reservations. Please complete the Travel Application Form which is located at <http://nrc-stp.ornl.gov/training.html>. You can also go to the same website to receive a copy of the travel instructions and voucher for reimbursement. Please return the travel form to Brenda Usilton by email or fax. If you have any questions regarding the form contact Brenda Usilton at Brenda.Usilton@nrc.gov or 301-415-2348 fax the form to 301-415-3502. Students should bring an engineering or scientific calculator with them. Non-NRC attendees should allow sufficient time to process through security screening upon arrival at the training facility. A picture ID or some other form of ID is required. Close by hotels are:

<p>Hyatt Hotel One Bethesda Metro Center Bethesda, MD (301) 657-1234 1-800-233-1234 *Near Bethesda Metro Station</p>	<p>Residence Inn 7335 Wisconsin Ave. Bethesda, MD (301) 718-0200 1-800-331-3131 *Across from Bethesda Metro Station</p>
<p>Bethesda North Marriott Hotel 5701 Marinelli Rd. Rockville, Maryland (301) 984-0004 1-800-859-8003 *Across from the NRC Headquarters</p>	<p>Embassy Suites at Chevy Chase Pavilion 4300 Military Rd., NW Washington, DC (202) 362-9300 1-800-362-2779 *One Metro Stop from NRC's PDC</p>
<p>Ramada Inn 1775 Rockville Pike Rockville, MD (301) 881-2300 1-800-255-1775 *Four Metro Stops from NRC's PDC</p>	<p>Hilton Hotel 1750 Rockville Pike Rockville, MD (301) 468-1100 1-800-222-8733 *Four Metro Stops from NRC's PDC</p>

Tentative Schedule

Visual Sample Plan Training

February 7-10, 2012

Bethesda, MD

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
- Judgment Sampling
 - Locate Hotspot Objective
 - Comparison Against a Threshold
- 2:45-3:00 Break
- 3:00-3:55 Group Case Study
- Introduce DQO/VSP Group Case Studies
 - 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