



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

(FSME-10-082, August, Training, Visual Sample Plan)

August 23, 2010

ALL AGREEMENT STATES, MICHIGAN

ACCEPTANCE TO THE VISUAL SAMPLE PLAN TRAINING COURSE (FSME-10-082)

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

Background: The 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 October 25-28, 2010, Visual Sample Plan Training Course. Please provide the list of students and the instructions (Enclosure 2) to each individual from your program that is on the list. Students attending this course will be paid lodging and per diem. Students should make their travel arrangements through Carlson Wagonlit Travel at 1-866-250-2160, and submit their travel information to NRC to issue their travel authorization. The Travel Application Form can be downloaded at <http://nrc-stp.ornl.gov/training.html>. All completed form should be sent to Brenda Usilton at Brenda.Usilton@nrc.gov or faxed 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 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, 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.

FSME-10-082

-2-

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/ by James 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

VISUAL SAMPLE PLAN COURSE
OCTOBER 25-28, 2010
BETHESDA, MARYLAND

STATE	PARTICIPANT(S)
ARKANSAS Dept. of Health 4815 W. Markham St., Slot 30 Little Rock, AR 72206-3867	David Snelling
GEORGIA Dept. of Natural Resources 4220 International Parkway, Suite 100 Atlanta, GA 30354	J. Kit Ramdeen
LOUISIANA Dept. of Environmental Quality P.O. Box 4312 Baton Rouge, LA 70821-4312	James Pate Ziad Fahd
MISSISSIPPI Division of Radiological Health State Department of Health 3150 Lawson Street P.O. Box 1700 Jackson, MS 39215-1700	Karl Barber Sandra Stringfellow
PENNSYLVANIA Bureau of Laboratories 2575 Interstate Drive Harrisburg, PA 17110-9332	Dustin Wyant
TENNESSEE Division of Radiological Health L&C Annex, Third Floor 401 Church Street Nashville, TN 37243-1532	Roger Macklin

INSTRUCTIONS TO STUDENTS

ACCEPTANCE: This is to advise you that those individuals in Enclosure 1 have been accepted for participation in the Visual Sample Plan Training Course. This course is scheduled to be presented October 25-28, 2010, at the Professional Development Center (PDC) in Bethesda, Maryland. The PDC is located at 7201 Wisconsin Avenue, Suite 425, 3.5 blocks from the Bethesda Metro station. 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. You will need to show identification when you get to the Professional Development Center.

COURSE: The course will be conducted from 8:00 a.m. - 4:00 p.m. each day except Thursday, October 28. Thursday's course will end at 1:00 p.m. 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, please contact Carlson 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 or fax it to 301-415-3502. You can also go to the same website to receive a copy of the travel instructions and voucher for reimbursement. Should you have any questions regarding the form, Brenda may be reached at 301-415-2348.

LODGING: You should plan to arrive on Sunday, October 24, 2010 and depart on Thursday, October 28, 2010. Participants must make their own lodging and travel arrangements. Individuals should request a Federal government rate at the hotel. The per diem for Bethesda, Maryland is 229/71/300. This means lodging/meals/not to exceed total. Tax is a separate line item on your voucher. Below is a list of hotels that are on the Metro line. If the hotel requires proof of Federal travel, please contact Brenda for a faxed copy of your authorization.

<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
October 25-28, 2010
Bethesda, Maryland

**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. Individuals may bring a lap top with VSP loaded, but will not be able to connect to the NRC Network.]

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

DAY 3: ADVANCED (cont'd)

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)

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