



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

DOELAP Assessor Training Session 1 – Pre-Quiz

Salt Lake City, UT
September 24 - 25, 2012



Nuclear Energy

■ Pre-Course Quiz

- 1) The voting criteria and quorum for the DOELAP Oversight Board functions shall be by simple majority of at least _____ voting members.

- c. 3

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- 2) The quorum and voting criteria for DOELAP Appeals Board functions shall be by simple majority of the _____ members.

- b. 3



- 3) The DOELAP Administrator can issue “DOELAP Notices” regarding changes in technical standards and/or criteria.
- a. True

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- 4) The information about each personnel dosimetry processing system or radiobioassay program employed, including specific apparatus and protocols used, submitted on the DOELAP application should be as descriptive as possible without divulging any proprietary information.
- a. True

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- 5) A variation beyond that allowed during DOELAP Performance Testing provides a means for denying accreditation or granting only partial accreditation.

- a. True

- 6) A remedial action plan is required to be submitted through _____ to the _____ within _____ days of the close-out meeting for a concern.
- c. Appropriate field organization, senior technical manager, 45

- 7) A remedial action plan is required to be submitted through _____ to the _____ within _____ days of the close-out meeting for a deficiency.

- d. Appropriate field organization, senior technical manager, 45

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- 8) A deficiency should be corrected within ____ days of the close-out meeting.
- b. 60 days

- 9) Observations are offered to _____ a program.

- a. "help" and/or c. "fine-tune"

- 10) A program must submit evidence supporting a conclusion that the modified system will be technically equivalent to the accredited system.

- a. True

- 11) All DOE contractors with personnel dosimetry processing systems and/or radiobioassay programs have to be accredited by DOELAP.

- b. False

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- 12) The STM may revoke a program's accreditation if the program is found to have violated the terms of its accreditation.
- b. False

- 13) A dosimetry or radiobioassay program manager may petition the DOELAP senior technical manager to have an adverse determination regarding accreditation, technical equivalence, amendment, exception, or an assessment finding, or the selection of an assessor, reviewed by the Appeals Board.
- b. False

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- 14) The acronym “HBW” stands for

 - “Head Bottle Washer”

DOELAP Assessor Training Outline

- Contacts
- “Who” of DOELAP
- “Why” of DOELAP (Theory)
- “What” of DOELAP (Product)
- “How” of DOELAP
 - Resources
 - Process



Radiobioassay Contacts

-
- Guy Marlette, STM – DOELAP Radiobioassay
 - marletgm@id.doe.gov
 - Phone: (208) 526-2532
 - David Sill, Indirect (In Vitro)
 - sillds@id.doe.gov
 - Phone: (208) 526-8031
 - Guy Backstrom, Direct (In Vivo)
 - backstlg@id.doe.gov
 - Phone: (208) 526-0782

External Dosimetry Contacts

■ Laird Bean, STM – DOELAP Dosimetry

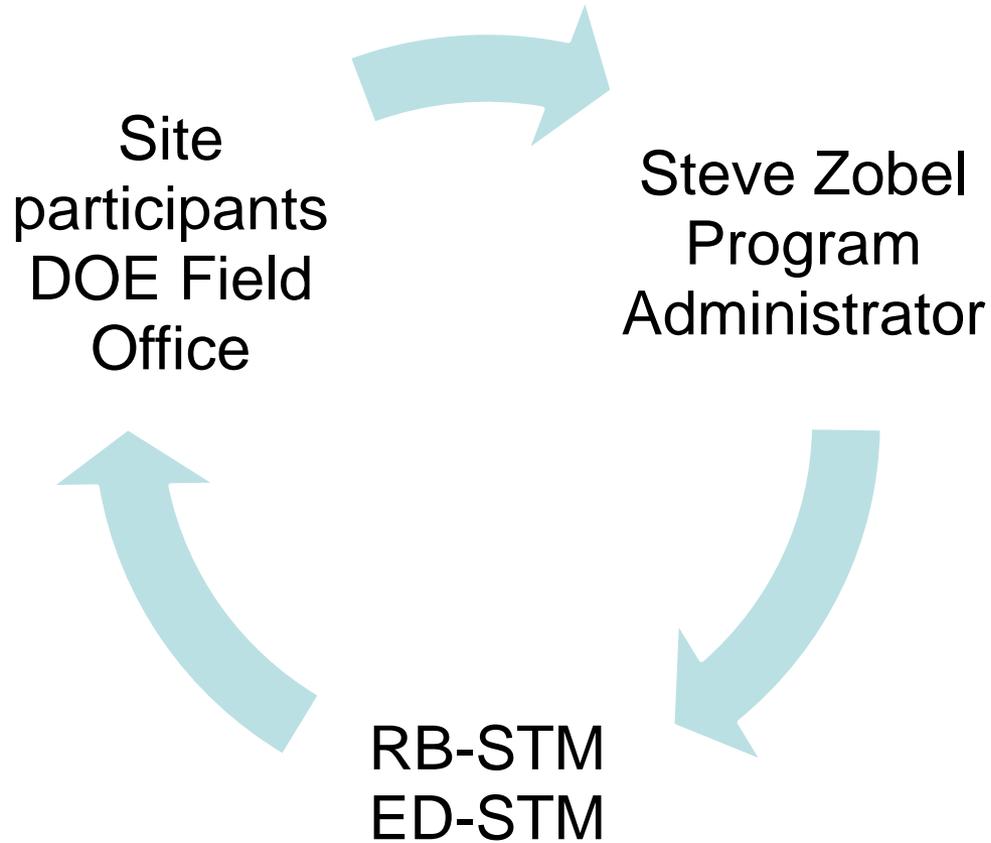
- beanlc@id.doe.gov
- Phone: (208) 526-6989

■ Dave Jones - Performance Testing Laboratory Administrator

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- Phone: (208) 526-2303



DOELAP Functional Organization



Who is the Customer?

- Radiation Workers – Deserve the very best from radiation protection programs
- Site Contractors – Objective evidence of the credibility of the safety program
- Field Offices – Technical assistance and assurance of programmatic credibility
- DOE/HSS – Office of Corporate Safety Analysis – Cost-effective, technically-superior assistance in oversight role



- The DOE Laboratory Accreditation Program provides a **structured means** for assuring the quality of Radiobioassay and External Dosimetry measurements. The program was initiated and developed at RESL... **to improve the quality of Radiation Measurement** through (1) Performance testing, (2) Dosimetry and Calibration intercomparisons, (3) On-Site Assessments, and (4) Applied research.

- Our ultimate aim is to improve personnel dosimetry at DOE facilities.
 - Performance testing gives a snap shot of the capability of a dosimetry/radiobioassay system
 - Assessment provides assurance that the systems are in place to maintain the capability until the next testing cycle

What is the DOELAP Product?

■ Confidence

- Credibility

- Of DOELAP process through integrity and expertise of assessment and testing processes
- Through ISO 17025 Chemical Testing, ISO 17043 Proficiency Testing Provider, ISO Guide 34 Certified Reference Provider, NVLAP/ISO 17025 and NIST-RTP for both Radiobioassay and Dosimetry

- Objectivity

- No conflicts of interest
- Fairly administered
- Open and consistent criteria

- DOELAP's most important asset
- First line representatives of DOELAP principles
- Qualification process
 - Assessor Classroom Training
 - Assessor Qualifications
 - Assessor OJT

Training Objectives

- To ensure a common understanding of the recommended principles and practices of the assessment process
- Consistency
 - DOELAP Philosophy
 - Within assessor group
- Familiarity with DOELAP processes
- Assessors are fully equipped and qualified to perform their duties

Training Procedure

- Written and updated by STM's
- Included in your DOELAP Assessor Manual

- Materials
 - Standards
 - Handbooks
- RESL Web Site
- RESL contacts and info

■ DOELAP Administration

- DOE-STD-1111-98 applies to both Dosimetry and Radiobioassay.
- Describes duties of PA, OSB, STM, Field Offices and Participating Laboratories.
- Describes DOELAP process

■ Assessor Handbook

- Contacts (Administrators, Assessors, Finance, OB)
- Training and Assessment Procedures
- Ethics Statement
- Checklists
- DOELAP Handbook (EH-0026 or 1112-98)

■ Dosimetry DOELAP

- ANSI N13.11-2009 – American National Standard – Personnel Dosimetry Performance – Criteria for Testing
- ANSI N13.32- 2008 – American National Standard – Performance testing of Extremity Dosimeters
- DOE-EH/0026 – Handbook for the DOE Laboratory Accreditation Program for Personal Dosimetry Systems
- DOE-STD-1095-2011 – DOE Laboratory Accreditation Program for External Dosimetry

■ Radiobioassay DOELAP

- DOE-STD-1112-98 DOE Laboratory Accreditation Program for Radiobioassay
- ANSI N13.30-1996 – American National Standard – Performance Criteria for Radiobioassay
- ANSI N13.30-2011 – American National Standard – Performance Criteria for Radiobioassay



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■ Questions?