

DoD Advanced Geophysical Classification Accreditation Program (DAGCAP) Update M2S2 Webinar

Presenter

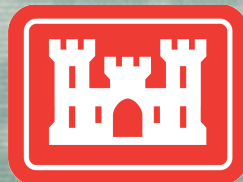
Kevin Coats

Chief, Environmental Sciences Division

Environmental Munitions Center of Expertise

US Army Engineering and Support Center, Huntsville

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US Army Corps of Engineers
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Overview

- DAGCAP Overview and Accomplishments
- Major Program Elements
- Road Ahead
- Questions/Panel



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IDQTF and EDQW Efforts for Advanced Classification

Develop and implement a quality system based on national and international standards for the performance of Advanced Classification at DoD Munitions Response Sites

- Develop a Quality Assurance Project Plan template using the ***Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP)***
 - ✓ Implements ANSI/ASQ E4 (IDQTF)
- Develop quality systems documentation for the 3rd-party accreditation of organizations performing advanced classification
 - ✓ Implements ISO/IEC 17025 (EDQW)



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DAGCAP Overview

Why Use Accreditation?

- Provides formal recognition to competent testing organizations
- Provides a means to identify and select testing organizations that meet minimum program requirements
- Provides for ongoing demonstrations of capability and periodic re-evaluation for continued compliance
- Quality System (QS) QA/QC includes corrective action, prevents QS non-compliance reoccurrence, and establishes frame-work for continual improvement

Enhances confidence in results by clients, regulators and the public



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DAGCAP Overview

- Modeled after DoD Environmental Laboratory Accreditation Program (ELAP)
- Third-party Accreditation Bodies (ABs) conduct assessments to Quality Systems Requirements (QSR)
- Applies to all testing organizations regardless of size or volume of business
- Applies to use of **advanced** geophysical classification at all munitions response sites (MRS)



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DAGCAP Accomplishments

- EDQW DAGCAP Subgroup created-fall FY15
- DOD Policy Memo establishes DAGCAP – May 2015
- Develop Quality Systems Requirements – Dec 2015
- Develop Demonstration Test Site-begin FY 15 (ongoing)
- Select/recognize/train Accrediting Bodies (ABs)-July – Sept 2015
- ISO 17025/QSR Training (NAOC sponsor) – Dec 2015
- DOD Policy memo implements DAGCAP – Apr 2016



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DAGCAP

DoD Organizational Support

- DoD Environmental Data Quality Workgroup (EDQW) oversees program as chartered activity
- EDQW recognizes DAGCAP ABs based on Conditions and Criteria agreement
- EDQW Advanced Geophysical Classification Subgroup (AGCS) created
 - ✓ Membership includes all component services including AGC research, geophysicist, and QS specialists – chaired by EDQW Army Principal
- EDQW AGCS implements program
- DoD components commit resources for DAGCAP for five years



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EDQW AGCS Responsibilities

- Develop program doctrine/products (e.g. QSR, DAGCAP Manual, and SOPs) – incorporating stakeholder input
- Participate in AB selection and training
- Observe and report on AB assessments of Geophysical Classification Organizations (GCOs)
- Monitor/oversight of ILAC Peer Reviews of ABs
- Periodic meetings with ABs
- Post information DENIX (public website)
- Responsibilities related to individual accreditations (e.g. support AB in validation seed corrective action evaluation)



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International Program Standard ISO/IEC 17025

- Quality Systems Requirements (QSR) for DAGCAP based on ISO/IEC 17025:2005 (“General Requirements for the Competence of Testing and Calibration Laboratories”)
- ISO 17025 – “laboratory” and “conformity assessment body” (CAB) refer to orgs that conduct testing or calibrations
- DAGCAP will use Geophysical Classification Organization (GCO) term in place of CAB
- ISO 17025 establishes 2 types of requirements:
 - ✓ Management & Technical



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DAGCAP Quality Systems Requirements (QSR) Document

- Designed to be used in conjunction with ISO/IEC 17025
- Users must obtain a licensed copy of 17025:2005
 - ✓ [webstore.ansi.org]
- Presented in “checklist” format using 17025 outline
- Supplemental DoD text is provided in relevant sections of the 17025 outline
 - ✓ Clarification: Explains 17025 requirements in the context of advanced classification
 - ✓ Requirement: Supplements 17025 requirements with DoD-specific requirements for advanced classification
 - ✓ Guidance: Provides information to assist with implementation



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DAGCAP Overview

QSR elements based on ISO 17025:

- *Qualifications, training and experience of staff*
- Demonstrations of capability
- Proper equipment maintenance
- Documented organizational quality systems
- Management accountability
- Measurement traceability
- Recordkeeping and reporting
- External assessments



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AB Responsibilities

DAGCAP Assessment Process

- Three primary elements – sequential/gated:
 - ✓ GCO Document Reviews – desk audits
 - ✓ AB On-Site Assessments – QM/QS audits/interviews
 - ✓ GCO Demonstration of Capability – APG Site
- Prepare final assessment reports – includes non-conformances and accepted corrective action
- Conduct reassessment and surveillance
- Suspend or withdraw accreditation
- Report accreditation status for posting on DENIX



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DAGCAP Accreditation of GCOs

- Single field of accreditation – Technology – Electromagnetic Induction (EMI)/Method - AGC
- Attests to the capability of GCO in meeting minimum requirements expressed in QSR – AGC data is accurate, traceable, and reproducible
- DOD component contracts to require DAGCAP (additional tech requirements may be contained in QAPP)
- Renewal every two years
- Timing/sequencing of annual activities to support accreditation can vary by AB



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Aberdeen Proving Ground Site DAGCAP Demo of Capability (DOC)

- Totally reconfigured ESTCP test site with preliminary evaluation by DOD geophysicists
- GCO responsible for all hardware, software, and staffing
- Indoor area provided for data analysis operations
- Conceptual Site Model based DOC
- Scoring by APG Staff reported to ABs
- AB assessor present for all GCO DOC operations, including observing compliance with GCO SOPs
- Overall test site configuration allows multiple GCOs (without test repetition) and multiple DOCs by the same GCO



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Aberdeen Proving Ground Site DAGCAP Demo of Capability (DOC)

Operation of Test Site:

- Goal – one week on-site for complete DOC
- All data collection and analysis to be performed on-site
- Contractor access to Calibration area and IVS instrument check out
- Dynamic survey to select anomalies
- Cued survey over anomalies chosen by contractor
- Product - ranked anomaly list with stop-dig threshold identified



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DAGCAP - Road Ahead

- Contractual requirements for MRSs implementing AGC for accredited GCOs by milestone in policy memo (end CY 2016)
- Ongoing training for stakeholders – ISO/QSR, AGC hardware and software operations
- DAGCAP oversight and coordination-collaboration by DOD EDQW



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Questions for Panel

- ✓ Dr. Jordan Adelson
- ✓ Dr. Herb Nelson
- ✓ Mr. Kevin Coats



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