

# DAGCAP Updates and Discussion

John Jackson  
M2G2/NAOC Quarterly Call  
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**US Army Corps  
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OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE  
3400 DEFENSE PENTAGON  
WASHINGTON, DC 20301-3400

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MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (INSTALLATIONS, ENERGY AND ENVIRONMENT)  
ASSISTANT SECRETARY OF THE NAVY (ENERGY, INSTALLATIONS AND ENVIRONMENT)  
ASSISTANT SECRETARY OF THE AIR FORCE (INSTALLATIONS, ENVIRONMENT AND ENERGY)  
DIRECTOR, DEFENSE LOGISTICS AGENCY (DSS-E)

SUBJECT: Department of Defense Advanced Geophysical Classification Accreditation Program

The Department of Defense (DoD) developed the munitions response advanced geophysical classification process (hereinafter referred to as advanced classification) to improve the efficiency of cleaning up munitions and to focus resources on potential explosives safety risks at munitions response sites (MRSs). To ensure quality data, my office has established the DoD Advanced Geophysical Classification Accreditation Program (DAGCAP) to accredit organizations that use advanced classification at MRSs. The DAGCAP is modeled after the laboratory accreditation program.

The DAGCAP provides a unified program for organizations performing advanced classification to demonstrate competency and document conformance to minimum quality systems requirements based on the International Organization for Standardization and the International Electrotechnical Commission standards. DoD ensures quality control measures are in place to satisfy both DoD project managers and regulators by the accreditation process. Accreditation is achieved by: (1) assessment of the organization's quality system; and (2) a successful demonstration of capabilities performed at the Aberdeen Proving Ground DAGCAP test site. The attachment outlines the accreditation process and also includes frequently asked questions. The DAGCAP webpage on the Military Munitions Response Program page, <http://www.denix.osd.mil/mmrp>, will maintain the latest documentation and stakeholder information.

Organizations may begin the DAGCAP accreditation process in the second quarter of calendar year 2016. The DoD Components shall begin using accredited organizations on their MRSs beginning in calendar year 2017.

My points of contact for the DAGCAP are Dr. Jordan Adelson, DoD Environmental Data Quality Workgroup Chair, at [jordan.adelson@navy.mil](mailto:jordan.adelson@navy.mil); and Ms. Deborah Morefield, ODASD(ESOH), at [deborah.a.morefield.civ@mail.mil](mailto:deborah.a.morefield.civ@mail.mil).

Peter Potemney  
Deputy Assistant Secretary of Defense (Basing)  
Performing the duties of the Assistant Secretary of Defense  
(Energy, Installations, and Environment)

Attachment:  
As stated



# Goals today:

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One part update; one part discussion

Recommend you save your questions for Elise

# DENIX <http://www.denix.osd.mil/mmrp/advanced-geophysical-classification-accreditation-and-other-tools>

Issues I'm aware of and working on:

- Updates take time;
- At least twice the webpage was “updated” to a rolled-back version
- Terms of validation –vs- initial accreditation
  - Plan to make consistent stating both
- Software list isn't helpful
  - Will remain unhelpful- software vendors are a far better resource
- Hardware list
  - Will be added soon (see slide 6)



# DAGCAP Components and Status

## Aberdeen Proving Ground/Accreditation

- 15 Geophysical Classification Organizations (GCOs) accredited
  - Strong mix of small and unrestricted companies.
- Biennial Reaccreditation
  - Assessment of Quality System
  - Pass/fail synthetic site test
    - Prevents need to return to APG
    - More or less mirrors failure rate seen at APG- that's a good thing!

## Library/Data Management

- **HDF5 Version 1 required on FY22 contracts and beyond**
- TOI Library to do first major update in FY23???

## Geosoft/Seequent/Bentley- Oasis montaj

- Provides software access to USACE Geophysicists for QA purposes



# DAGCAP Components and Status (continued)

## Hardware Validation

- Multiple instruments approved
  - MetalMapper 2x2, TEMSense, UltraTEM (screener and classifier and variations thereof), APEX, MPV (AcornSI)
  - Rumored forthcoming instruments (hopefully always something new and innovative on the horizon!)

## Software Validation

- Validated software (results based validation)
  - Version updates for UXAnalyze, UXOLab, and EMClass
  - “Newly” validated UXCloud (MM2x2 cued) and BTField (UltraTEM Screener)

# Let's recap the last slide (HDF5)

- Instruments approved: lots
- Instruments validated: none
- Why?
  - Compliance with HDF5v1
  - Most are very, very near to compliance
- Why should you care?
  - All of our contracts post 01 January 2022 require compliance with HDF5v1
- Why do I care?
  - I don't want our contracts coming to a grinding halt

# DOD AGC Library Update

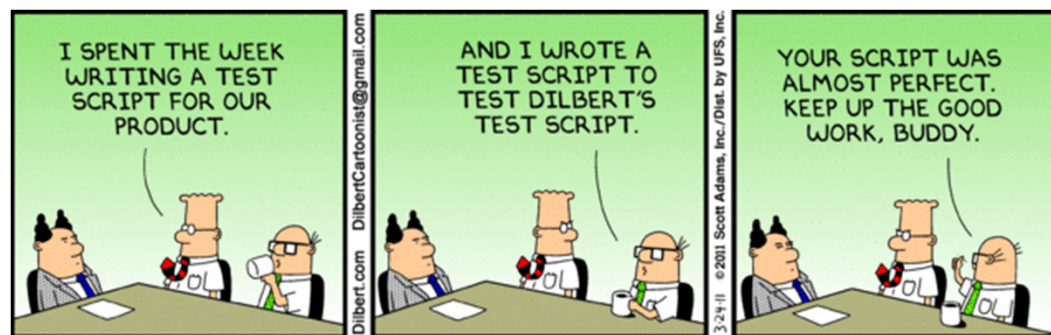
- Found multiple locations with hard-to-find inert munitions
  - Will provide a list to Tech committee to distribute
  - Data collection will be internal
  - More when I know more...
- 
- Will eventually update to a variation of HDF5v1





# Synthetic Software

- Nearing a major update
- Will comply with HDF5v1
- Will introduce additional QC opportunities (more realistic test)
  - Still no “gotchas” merely a better test of the QC processes
- More practice datasets will be provided





# Notifications to ABs

- Improved notifications upon contract award and validation seed failure
  - Need to continue to improve
- Validation seed failures
  - Stop work order
  - Not just a contract issue-> QSR Appendix B requirement
  - But when do we start work again?!?!?!?
- DoD CARs and 6048s
  - Need better consistency

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"The bad news is, our customers hate us. The good news is, we have a lot fewer customers than we used to!"

# Contract Personnel Issues

- Base contract says something like “Project/Senior/QC Geophysicist must be a member of the Prime Contractor”- obvious conflict with DAGCAP and GCO being the sub contractor.
- Most cases the Task Order modifies this requirement (I’m batting about 80%)
- A few cases we’ve come up with a loose workaround that forces the prime to have a geophysicist and the DAGCAP key personnel are allowed to be part of the GCO.
- Please continue to notify me

# Verification/Validation

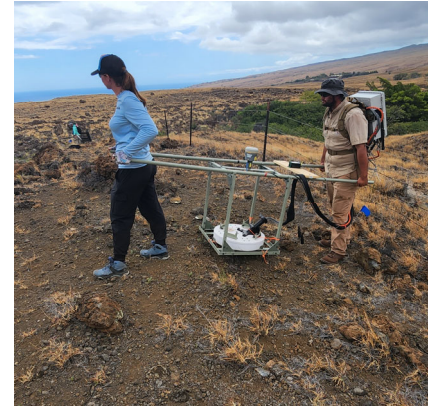
Not directly DAGCAP related, but has potential impacts

- Better defined survey units/delivery units so if multiple GCOs are working, there is a clear cut
- Every threshold needs to be verified (if you're adding something other than decision statistic into the mold, it needs to be verified)
- MR-QAPP Toolkit#2 better defines terms and project teams should be discussing this as part of systematic planning process

# Validation Seeds

Again, not directly DAGCAP related but:

- Needs to be referenced in RA PWS
  - Opportunity for a strength if able to minimize number of mobs or impact to project schedule
- QA seeding PWS- Needs to be in proposed schedule
  - Opportunity for a strength if able to minimize number of mobs or impact to prime
- Forthcoming “guidance” for cueing on validation seeds
  - DOD opinion- it’s strongly encouraged but not required
  - USACE opinion- will continue to do it on larger projects/3<sup>rd</sup> party contracts in most cases; in-house seeding will not
  - Navy Opinion- Probably won’t do it
  - JJ opinion- benefit not always worth the cost, but confidence in classifiability (<- how is that not a word?) goes beyond just a stop work order/REA concern





# Path forward

## Wants:

- More technical assessors, better RCAs, QSR 3.0
- Further use and enforcement of AGC
- Move hardware/software validation to the vendors

## Immediate future:

- We'll start hosting quarterly (semi-annual?) DAGCAP meetings to more directly provide information
- Looking into underwater...

...no movement for now...

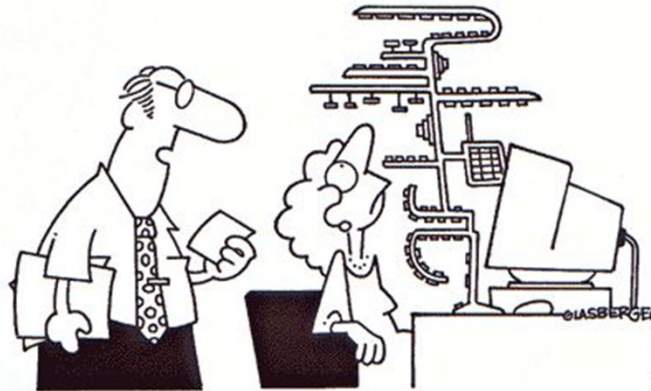




# QUESTIONS?



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"It's the new keyboard for the statistics lab. Once you learn how to use it, it will make computation of the standard deviation easier."