

ADMESS

STEWARDSHIP



Environmental Quality (EQ)

Test Process
To Support
Army Installations



15 May 2006



Purpose



- Initiative To Support Base Operations, Range Operations, And Families
- Identify Environmental Quality Data Needs
- Develop A Test Operating Process For Collecting EQ Data





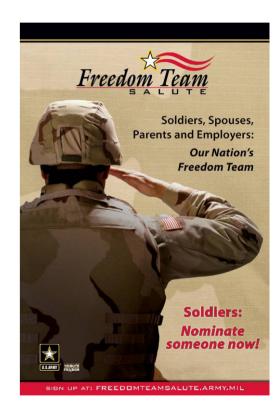








- EQ Information On New Systems
- Provide Adequate Analysis Of Potential EQ Impacts
- Program Resources To Minimize Those Impacts
- Enhance Warfighter Readiness
- Quality Of Life





Where is EQ Data Needed?





- Army Training and Testing Area Carrying Capacity (ATTACC) Model
- Estimating Training Land Carrying Capacity By Relating
 - Training load,
 - Land condition,
 - Land rehabilitation and,
 - Maintenance practices.







Where is EQ Data Needed?



Base Operations Planning

- EQ Data Supports:
 - EQ Management Planning
 - National Environmental Policy Administration (NEPA) Analysis

Permitting





Who benefits from the data





Army Installations

- Identify site specific potential impacts of weapon systems
- Data supports preparation of accurate & timely NEPA and environmental reporting documentation

Program Manager / Program Executive Offices (PM/PEO Offices)

- Identify systemic environmental issues with their systems
- Crystallize environmental quality life cycle cost estimates
- Informed risk based environmental decisions based on defensible data

Material Developers

 Assist Science &Technology (S&T) community in material selection during basic research and weapon system development



Approach







- Most opportune time to gather EQ data points was during Development Testing (D&T)
 - Major subsystems on the weapon system are being integrated and tested together
 - Potential to have impact on material selection or influence acquisition decision making
 - Multiple types of test are ongoing and environmental quality testing can be leveraged to reduce costs
- Many of the required data points are being gathered, but not reported, adequately evaluated, or archived







- Developed an organized list of EQ considerations
- Retained weapon system specific EQ considerations focusing on data needs of the NEPA process
- Used standard categories of weapons systems and commodities based on Test Operations Procedures (TOP)
- Cross-walked the EQ considerations with the commodity categories to form a Matrix



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EQ Test Operating Procedure

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Approach



- Decided to use the Developmental Test Command's Test Operations Procedures (TOP) process to develop a single guidance document call the Environmental Quality TOP (EQTOP)
- To prove that the EQTOP can be used developing Detailed Test Plans to show how the EQTOP can be used as guidance to gather weapon system specific



Approach



Data Elements:

- Air
- Noise
- Wastewater
- Hazardous
 Materials/Waste
- Solid Waste

- Ground disturbance (Soil impacts)
- Wildlife (Habitat)
- Water Resources
- Storm water







- Across the top are the commodity categories
- Down the side are the environmental considerations
- Xs signify which environmental considerations are most likely to require observation or data collection for each commodity category or subcategory
- Meant to serve as a quick reference tool and not comprehensive guidance
- Matrix is in draft final





EQ TOP



- EQ TOP provides the guidance for collecting environmental effects data from Army weapons systems and materiel during the DT process
- Intent is to be used in combination with existing test-specific TOP's
- Section 5.2 describes the appropriate data observations, measurements, and sampling & analysis requirements
- Appendix B contains data measurement, sampling, and analytical methodologies
- Body of EQTOP is draft final
- Methodologies are draft awaiting comments





Detailed Test Plan (DTP)



- Select three weapon systems detail test plans and modify them to incorporate Environmental Quality Subtests into the DTP
- Applicable measurement or sampling & analysis protocols will be included in the DTP
- Looking to use three unique weapon systems
- Working to get permission to utilize existing DTP
- Selecting weapon systems (M88 Recovery)







Issues Identified

- Who is going to pay for the environmental effects testing of systems/commodities?
- Who is going to own the end data?
- Who is going to provide competent data assessment and evaluation?
- How is the data to be distributed?
- Who is the true proponent of environmental considerations of weapon systems?
- How is the best way to coordinate program?