



Explosives Safety Siting (ESS)



Explosives Safety Siting (ESS) Software

Overview and Army Deployment

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Report Documentation Page

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Explosives Safety Siting (ESS)



- **Agenda**
 - Partnerships
 - Purpose
 - Benefits
 - ESS Toolkit
 - ESS Planner
 - Army Direction
 - Return on Investment



Explosives Safety Siting (ESS)



- **Partnerships**

- Department of Defense Explosives Safety Board (DDESB)
 - Software development
- Naval Facilities Engineering Support Center (NAVFAC ESC)
 - Collect data, create installation database, provide training, ESS help desk
- Commands
 - Provide data and maintain data
 - Submit site plans
- Army Mapper
 - Army ESS Repository



Explosives Safety Siting (ESS)



- **ESS Software Purpose**

- Automate site plan process
- Calculate and display Explosives Safety Quantity Distance (ESQD) arcs



Explosives Safety Siting (ESS)



- **ESS Benefits**

- Analyze one or several Potential Explosion Sites (PES) within minutes
- Elimination of “math” errors in measurements and calculations
- More accurate/complete submittal packages
- Reduce time to create submittal packages



Explosives Safety Siting (ESS)



- **ESS Software**
 - Toolkit
 - Data Requirements
 - ESS Planner
 - Analysis Tools



Explosives Safety Siting (ESS)



- **ESS Tool Kit**
 - Used to import and configure data
 - Links three existing datasets from an installation
 1. Geospatial Information System (GIS)
 2. Real Property Inventory (RPI)
 3. Potential Explosion Site (PES)



Explosives Safety Siting (ESS)



- **ESS Site Planner**

- QD Analysis
- Site Plan Submittal Package
- Master Plan Constraints (ESQD Arcs)
- Mitigation – dealing with violations
- Consequences – What happens if an explosion occurs?



Explosives Safety Siting (ESS)



- **Site Plan Submittal Packages**
 - Cover letter
 - Enclosures
 - QD worksheet (PES/ES info)
 - QD maps
 - Electronic submittal and review



Explosives Safety Siting (ESS)



- **Army Deployment**

- Phase I: deployed to 17 installations. Completed Apr 10
- Phase II: deploying to 50 sites. Due to be completed Sep 11



Explosives Safety Siting (ESS)



- **Army Deployment Process**
 - Identify and prioritize installations
 - Provide web-cast overview to POCs
 - Collect data sets (PES/RPI/GIS)
 - Create database
 - Cleanse data
 - Run software
 - Eliminate violations
 - Train users



Explosives Safety Siting (ESS)



- **ESS Return on Investment**
 - DOD standard data
 - Thorough, in-depth analysis
 - Greatly enhanced “what-if” analysis capability
 - Identification of unknown violations
 - Optimized explosives storage capacity



Explosives Safety Siting (ESS)



- **Summary**

- Partnerships
- Purpose
- Benefits
- ESS Toolkit
- ESS Planner
- Army Direction
- Return on Investment