NAVFAC
Naval Facilities Engineering Command
EXWC Engineering & Expeditionary Warfare Center

Explosion Effects Data and Consequences

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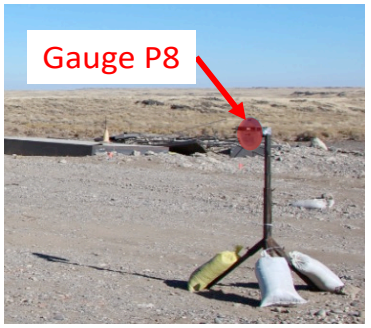
Port Overall

Types of Data Collection

- Pressure Gauges
- Displacement Gauges
- Accelerometers
- High Speed Video
- Pre- and Post-Test Still Photography
- 3-D Laser Scanning
- Finite Element Modeling

Pressure Gauges

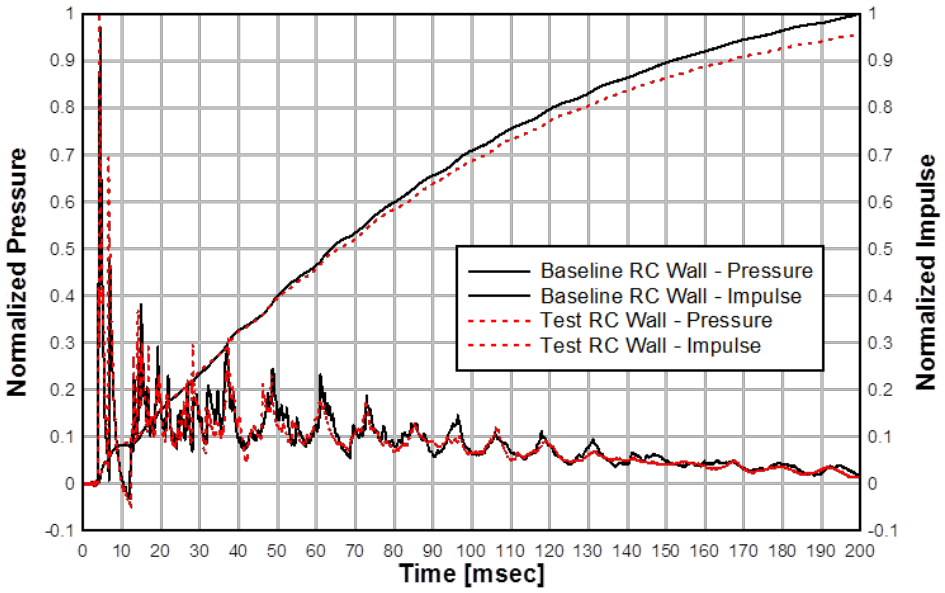


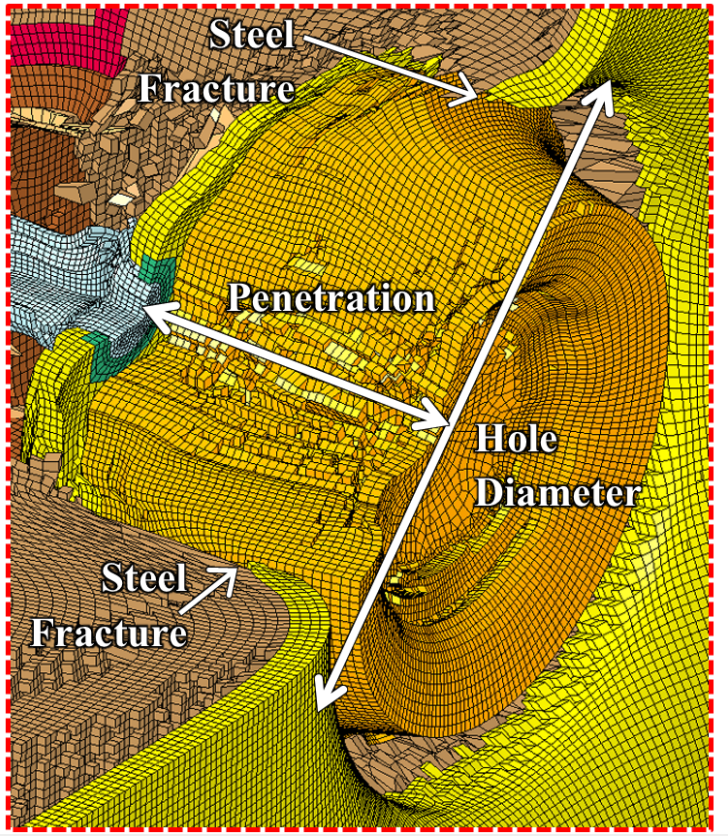
Displacement and Accelerometer Gauges

High Speed Video

Finite Element Modeling

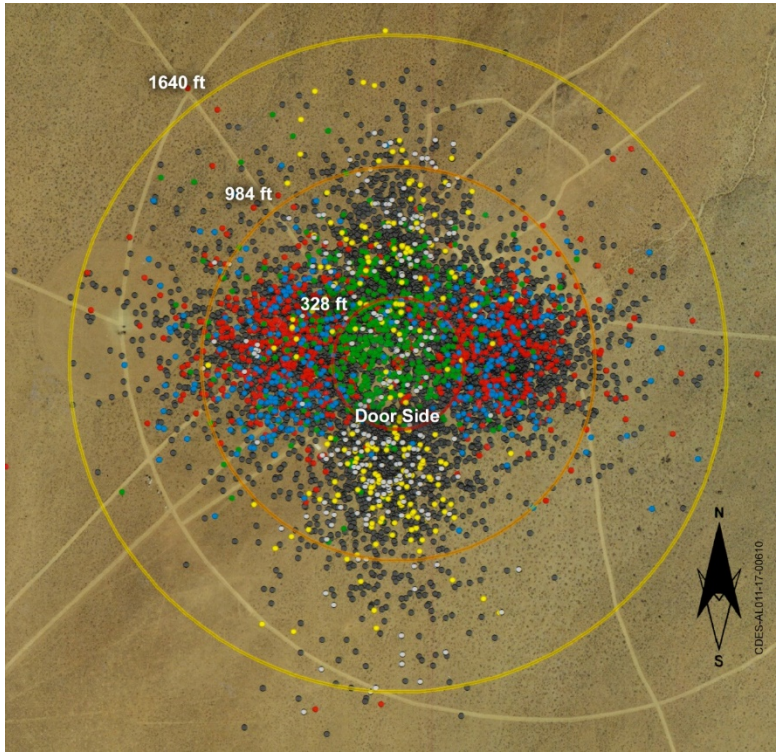
- **Large data set but use qualitative information and singular quantitative data**
- **Max Deflection, Peak Pressure and Impulse, Depth/Diameter of Penetration**

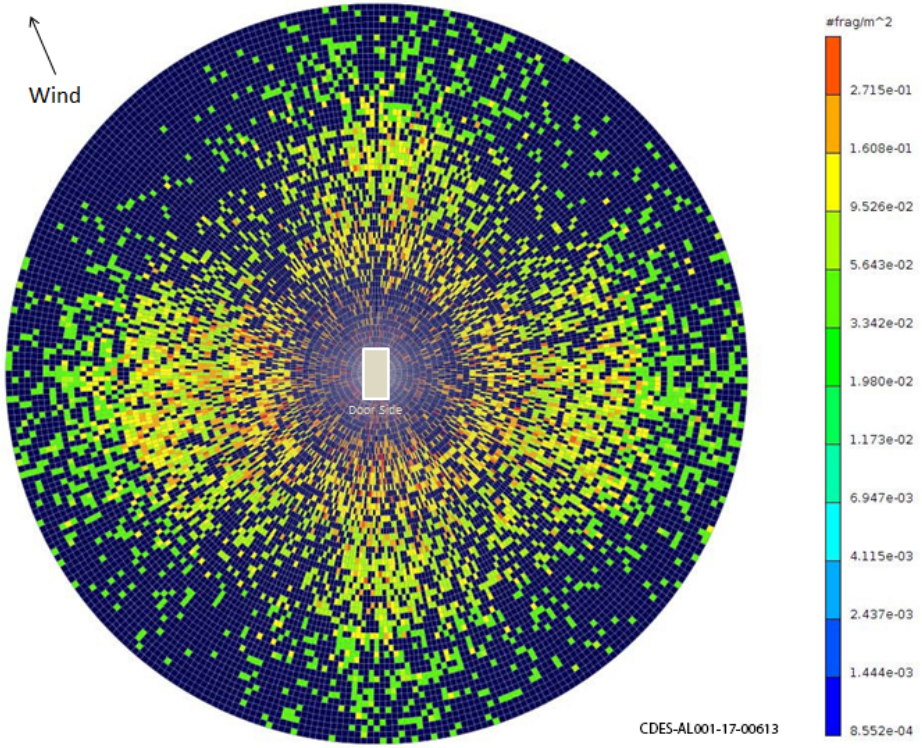




Debris Collection

- **Individual debris collection**
  - Location
  - Mass
  - Source





Questions

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