



ARENA & PIT FRAGMENTATION FACILITIES

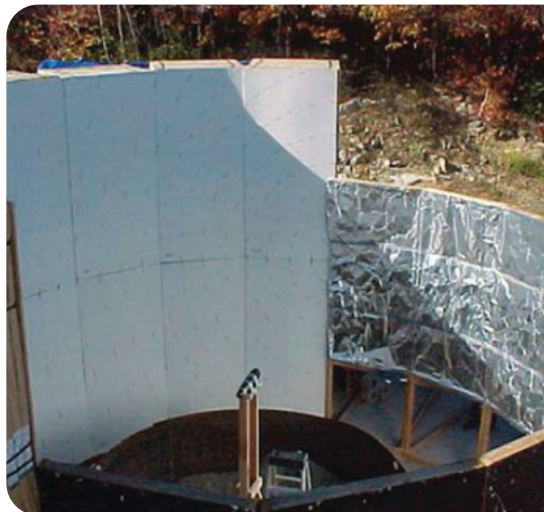
LABORATORY INFORMATION FACT SHEET

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The Arena Fragmentation Facility is used to evaluate the lethality of fragmenting munitions.

The Pit Fragmentation Facility contains two large (20 foot high by 20 foot diameter) double walled steel tubs in which experimental munitions are exploded while covered with sawdust.

TECHNOLOGY/FACILITY DESCRIPTION:

At the Arena Fragmentation Facility arenas can be constructed up to 48-foot square, which translates into

explosive weights up to 15 pounds. Fragmentation dispersion pattern and velocity are measured through the use of high-speed (PHANTOM) cameras. Fragment size and weights are captured in Celotex panels then removed and weighed. The resulting information is then evaluated for lethal area and effectiveness.

At the Pit Fragmentation Facility sawdust is automatically screened following detonation and the resulting fragments are magnetically removed for analysis. Also available is a four foot diameter sphere for small fragmenting small munitions and an eight foot diameter by 12 foot high water tank where non-ferrous munitions can be detonated and recovered.



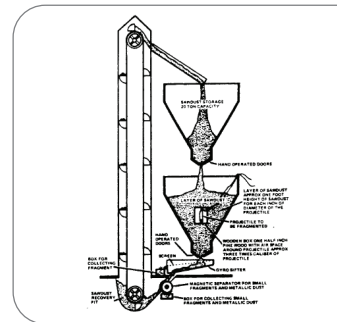
Arena



Arena



Pit



Pit

EQUIPMENT AND EXPERTISE AVAILABLE:

Arena Fragmentation Facility

- High speed cameras
- Open test areas
- Static detonation
- Pyrotechnic functioning

Pit Fragmentation Facility

- Large detonation chambers
- Static detonation
- Fragment sorting and weighing
- Cost effective analysis for fragmenting munitions