

# Superfuge Test Facility

- Provides combined environment (acceleration & vibration) test capability that is critical to the qualification of missile-based weapon systems
- Key Performance Parameters
  - Indoor Centrifuge
    - Dynamic capacity: 1,600,000 g-lb
    - Maximum payload: 16,000 lbs
    - Maximum angular velocity: 175 RPM
    - Maximum acceleration: 300g
  - Outdoor Centrifuge
    - Dynamic capacity: 450,000 g-lb
    - Maximum payload: 10,000 lbs
    - Maximum angular velocity: 150 RPM
    - Maximum acceleration: 270g
- Test Capability Revitalization Improvements
  - Addition of high-bay workspace
  - Addition of offices, restrooms and showers
  - Refurbished instrumentation capability for both centrifuges
  - Addition of an equipment lift in indoor centrifuge sub-pit
  - Installation of fire protection systems
  - Replaced HVAC, electrical and hydraulic distribution systems
  - Refurbished outdoor centrifuge test arena
  - Correction of numerous other site deficiencies
- Concurrent Readiness in Technical Base and Facilities (RTBF) Improvements
  - Remanufacturing of main hydraulic drive pumps
  - Remanufacturing of main hydraulic drive motors
  - Increase braking system performance
  - Control system modifications

## Indoor Centrifuge – 29 foot radius



## Outdoor Centrifuge – 35 foot radius