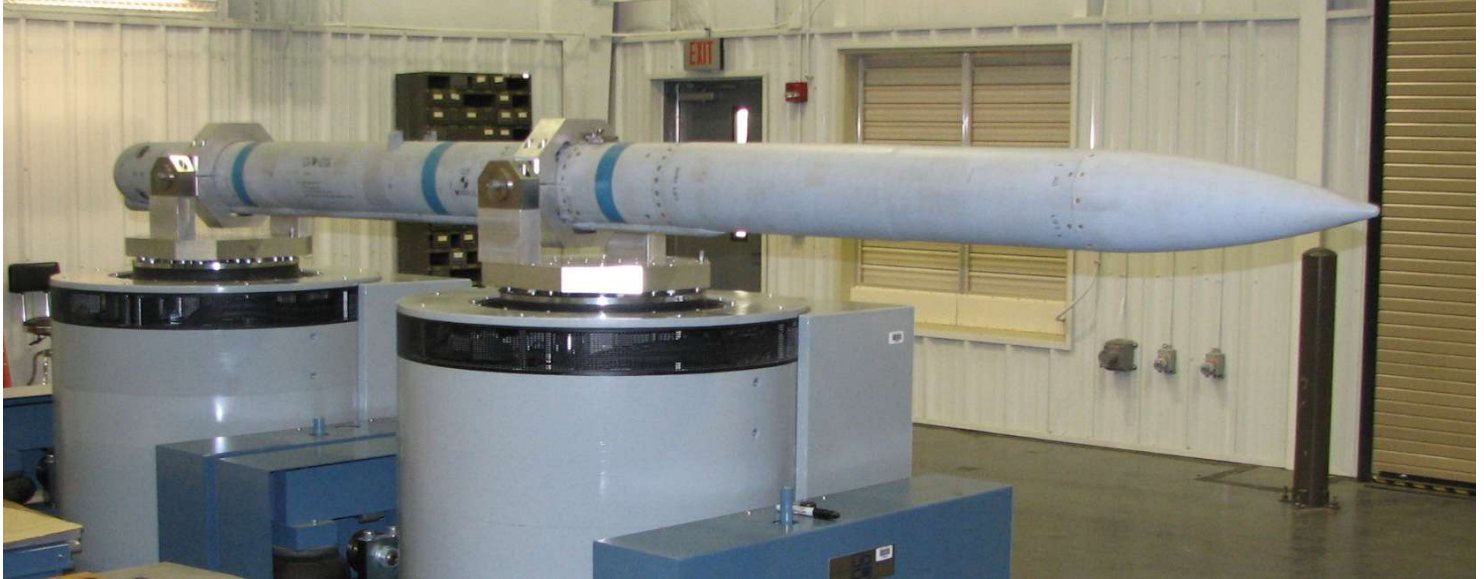




Redstone Test Center

Dynamic



### **LABORATORY DYNAMIC TESTING**

Shock and Vibration Tests of Hazardous Items at Temperature Extremes

Traditional Single-Axis Excitation

Multi-Exciter, Multi-Axis Excitation

6-DOF Motion Replication

Acoustics and Vibro-Acoustics (Large Reverberation Chamber with 6-DOF Motion Replication)

Pyro-Shock Tests

Acceleration (Centrifuge) Tests

Fuze/Safe & Arm Device Functional Testing

Loose Cargo Tests

Pendulum Impact Tests

Drop Tests

### **FIELD DYNAMIC TESTING AND ANALYSIS**

Instrumented Road/Mobility of Wheeled/Tracked Vehicles

Rail Impact (Hazardous and at Temperature Extremes)

Mobile Data Acquisition and Signal Analysis

Laboratory Vibration Schedule Development

Unmanned Ground Vehicle (UGV) Tests

### **MODELING AND SIMULATION**

Finite Element Analysis

Modal Analysis

Rigid and Flexible Body Vehicle Dynamics

Terrain Induced Vehicle Vibration Effects

Classified Distributed Test Node