

## **Ground Based Midcourse Defense**



Space Vector has been supporting Ground based Midcourse Defense (GMD) testing since its inception over 20 years ago. Beginning in the early 1980's with the Homing Overlay Experiment (HOE) through completion of the current Payload Launch Vehicle (PLV) program, Space Vector, as the principle contractor to Lockheed Martin, has delivered a total of 20 sets of flight hardware. Space Vector developed, fabricated and tested the major launch vehicle sections that includes:

- Clamshell Nose Fairings
- Kill Vehicle Mounting Rings
- Payload Support Modules
- Booster Adapters
- Interstages
- Aft Skirts

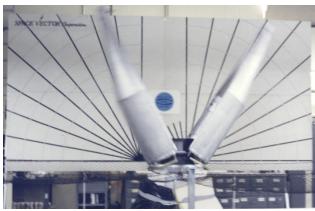
The two-stage (SR19/M57) Payload Launch Vehicle has just completed flight testing of critical interceptor system components in a series of 10 launches from the Kwajalein Missile Range (KMR) located in the Marshall Islands.



Vehicle Interface Unit



Reaction Control System



Nose Fairing Deployment Test at Space Vector



# **Ground Based Midcourse Defense**

### **Key PLV hardware provided by Space Vector**

#### Clamshell Nose Fairing

- Spring Deployment System
- Separation Ordnance
- Insulated Skin/Ring Structure
- Hinge Pusher Assemblies

#### **Booster Adapter**

- Reaction Control System
- Vehicle Interface Unit (VIU)
- NiCd Battery Packs
- NCU Junction Box
- Skin/Ring Structure with Cork Insulation
- Honeycomb Equipment Plates
- Multi-Branch Cable Harnesses

#### Payload Support Module (PSM)

- KV Mounting Ring
- Payload Access Panels

#### Modified MM Interstage

- Connector Separation Assembly
- Internal Ablative Coating

#### Aft Skirt

- Skirt Structure
- Internal Ablative Coating

# SPICE VICTOR Telementy Support



Testing of the Booster Adapter

## **Space Vector Developed Support Equipment:**

- Booster Erector
- Module Lifting Slings
- Vehicle Emplacement Ring
- Umbilical Cables
- VIU and Booster Adapter Test Stations
- Load Test Fixture
- Handling Carts
- Vibration Plates
- Booster Simulators for M55, M56, M57 and SR19



Umbilical Cable