



# ENCLOSURES



**SBX-1 Platform during sea trials in the Gulf of Mexico**

## **RADOME**

- ▶▶ **Challenge:** Design and fabrication of the largest Radome structure in the world
  - ▶▶ Provides primary protection to the X-band radar
  - ▶▶ Structure must be sufficient to withstand winds greater than 130 mph, without degradation of radar performance
  
- ▶▶ **Radome Highlights:**
  - ▶▶ 120 ft diameter, 130 ft tall, 18,000 lbs
  - ▶▶ Air supported
  - ▶▶ Required significant material and process development
  - ▶▶ Constructed of novel material containing Vectran fiber and a customized polyurethane resin matrix system which provides:
    - ▶ Quasi-isotropic modulus characteristics
    - ▶ High strength
    - ▶ High reliability
    - ▶ Highest survivability rating for a Radome of this size.



**Portable  
Secure  
Communications**

**Features:**

- ▶▶ Alcove for isolation of inner room
- ▶▶ Lightweight, inflatable structure
- ▶▶ Specialized outer fabric



**Disposable  
Inflatable  
Room**

**Features:**

- ▶▶ Set up and inflation in minutes
- ▶▶ Chemically resistant film, translucent for visibility
- ▶▶ Potential use for isolation, decontamination, temporary field or clean room applications, etc.