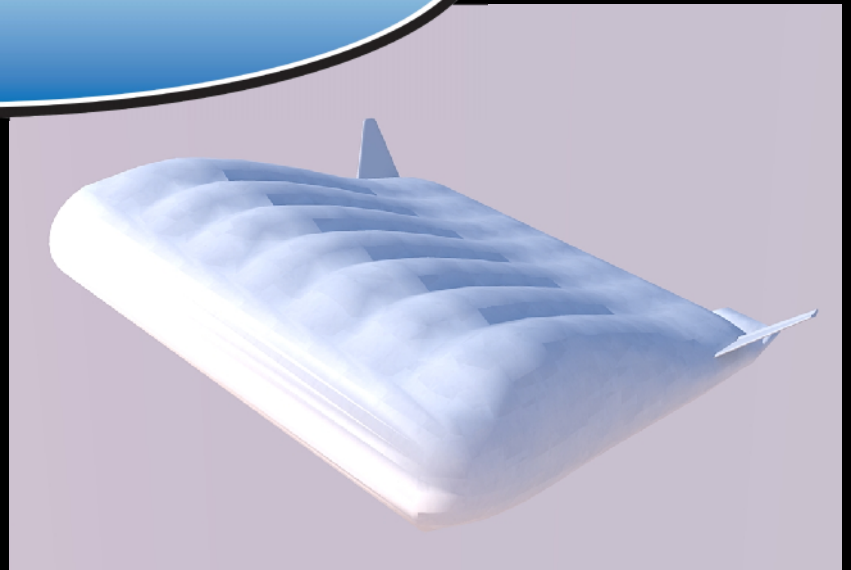
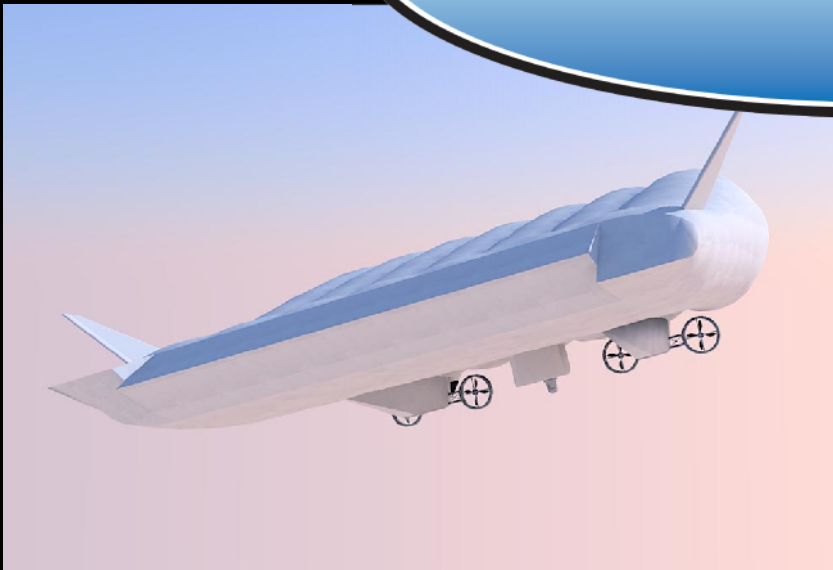


STAR ✦ SHADOW



- Hybrid, unmanned medium altitude airship
- Available in two variants, the A-model has a 500 lbs payload capacity, the B-model has a 2,500 lbs payload capacity
- Leverages our proven, high performance, lighter-than-air GNSS envelope shape
- Airfoil combines buoyancy and aerodynamic lift to deliver optimum flight performance
- Solar and light fuel power generation, electrically operated subsystems
- Current Status: Research and Development

- Flight envelope: 15,000 – 30,000 feet MSL
- Flight duration: 3-weeks
- Payload capacity for the A-model is 500 lbs and 3 kW, 2,000 pounds and 16 kW for the B-model
- Forward speed: 50 knots cruise, 80 knots dash
- C-130 airlift deployable
- Remote operations capable, does not require a prepared surface

- Optional pilot module is available
- Autonomous and real-time flight control
- Low-drag airfoil shape delivers higher velocities and longer mission duration
- Combines aerodynamic lift with buoyancy lift to reduce envelope size and lower fuel consumption
- Hybrid power system enables long flight endurance:
 - Solar cells with nanorod coating
 - Hybrid APU with recuperators
 - Lithium batteries and ultra capacitors

- Patented, fully tested, flight proven, hybrid lighter-than-air envelope shape provides the foundation for Star ✧ Shadow's outstanding flight performance
- Hybrid power system enables the long endurance required
- Airship components are primarily off-the-shelf
- System is currently in R&D phase
- First prototype flight projected for summer 2010

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