



# ENHANCING THE NATION'S SPACE SITUATIONAL AWARENESS

# SPACE BASED SPACE SURVEILLANCE

Enhancing the nation's space situational awareness



## Meeting a Critical Need

The ability to detect, track and monitor the movement and motives of objects in orbit is critical to protecting our nation's vital space assets. SBSS is the only space based sensor in the U.S. Air Force Space Surveillance Network with the ability to detect distant space objects without interference from weather, atmosphere, or time of day.

The SBSS Block 10 satellite is ready to launch in early 2009 from Vandenberg Air Force Base, California.



## With Unprecedented Capability

- The addition of SBSS to the Air Force Network will provide significant improvements over previous space-based SSN sensors:
  - Sensitivity improved 2-fold.
  - Capacity improved 10-fold.
  - Probability of detecting threats improved 3-fold.
  - Time to detect threats improved at least 2-fold.



## And Flexibility for the Future

- The highly agile, gimbaled design provides capacity to cover increasing actions in space.
- Gimbal provides ability to quickly respond to events such as new foreign launches and maneuvers when coupled with low risk crosslink enhancement.
- Flexible, open ground architecture provides ability to add additional satellites and sensors.
- Re-programmable onboard software enables low risk high performance upgrades.

## The Team

Boeing has overall responsibility for the SBSS system, the Ground System and initial mission operations; with Ball Aerospace providing the satellite and leveraging the Boeing on-board mission processor. The experienced Air Force, Boeing and Ball Aerospace team is committed to sustaining and advancing SBSS capabilities.

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