Northrop Grumman Dulles, Virginia Satellite Manufacturing Facility (SMF) is the largest in the United States east of the Mississippi River. The 135,000 square foot SMF, one of the most modern in the world, can accommodate all manufacturing, assembly and testing activities for multiple low-Earth orbit and geosynchronous-orbit satellites and planetary spacecraft.

The SMF is designed to produce high-reliability commercial communications and broadcasting satellites, Earth and space science spacecraft, national defense satellites and deep-space spacecraft.

To date, Northrop Grumman has developed, built and delivered over 195 small- and medium-sized satellites for government and commercial customers. These satellites have amassed nearly 1,500 years of in-orbit experience carrying out critical space science, technology demonstration, remote sensing and communications missions.

Virginia SMF Features
- Satellite assembly and integration areas
  - One Class 100,000 clean room (approximately 22,000 sq ft)
  - Spacecraft integration bay (approximately 10,000 sq ft)
  - Three Class 10,000 clean rooms (each approximately 800 sq ft)
- 28,000 sq. ft. environmental test area
- Anechoic RF chamber housing a state-of-the-art 40 ft x 22 ft horizontal nearfield test range for satellite antenna pattern measurements
- Component fabrication areas
- Electrical harness fabrication area
- Multi-Layer Insulation (MLI) fabrication area
- Surface-mount Circuit Card Assembly (CCA) fabrication area
- Propulsion subsystem manufacturing and NDE inspection area
- Satellite development laboratories with hardware and software simulators
- Office space for engineers, technicians and administrative staff
Facility Layout

- Blanket Shop (2nd Floor)
- Program Offices (3rd Floor)
- Electronic Component Work Center (2nd Floor)
- Antenna Range
- Propulsion Lab
- Vibration Test
- Class 100,000 Clean Room
- Class 10,000 Clean Room
- Assembly & Integration Bay (High Bay)
- Assembly & Integration Bay (Low Bay)
- Remote Proximity Operations Lab
- Class 10,000 Clean Room
- Class 10,000 Clean Room
- Propulsion Class 10,000 Clean Room
- Transition Bay
- Lobby
- Component Test Lab
- Shipping and Receiving
- RPO Lab
- Class 10,000 Clean Room
- Class 10,000 Clean Room
- Class 10,000 Clean Room
- Environmental Test Bay
- Vibration Area
- Thermal Vacuum Area
- Propulsion Work Center
- EMI/EMC Test Area
- Structural Test Area
- Thermal Cycle Area
- Box-Level Vibe Area
- Blast Cage
- Tube Bending Area