

Mississippi Space & Technology Center

Hal Simoneaux





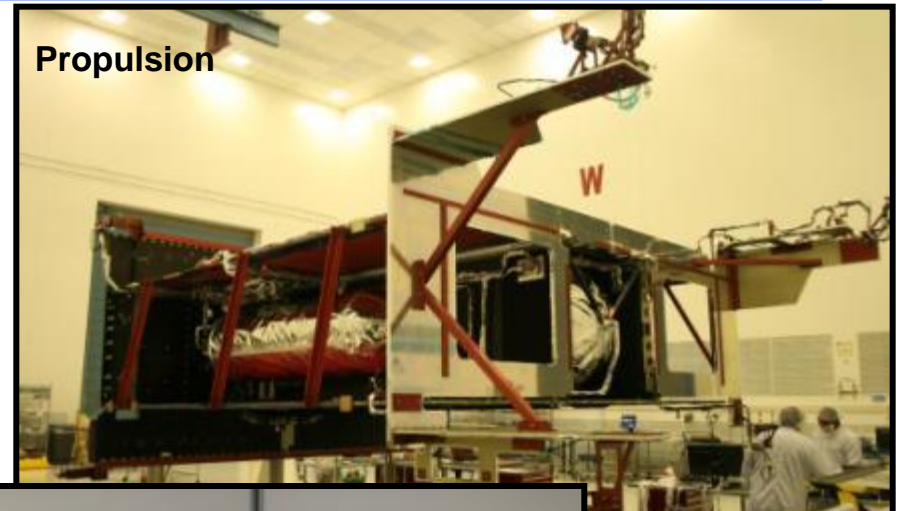
**Mississippi Space & Technology Center
Stennis, MS**

Mississippi Space & Technology Center

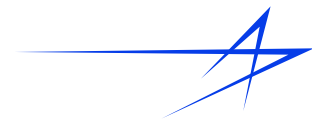


Lockheed Martin Stennis Tenants

- **SSC - Propulsion Manufacturing Center**
 - Manufacture and Test of Propulsion Sub-Systems for Satellites/Missiles
 - Manufacture of Multi-Layer Insulation for Satellites/Missiles propulsion systems and satellites
 - Current Employees: 107
- **IS&GS - Defense**
 - Prototype/manufacturing Machine Shop
 - Metrology Calibration and repair laboratory
 - Support for Rolls Royce jet engine testing
 - Facilities/Production systems operation and maintenance
 - IT systems network and desktop services
 - Transportation services to support on and offsite satellite moves
 - Current Employees: 58
- **IS&GS – Civil**
 - Navy Systems & Software Engineering
 - NASA Remote Sensing
 - EPA IT Support
 - Current Employees: 22



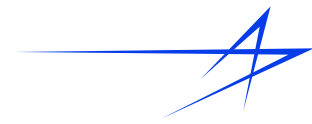
Propulsion Manufacturing Center



CAPABILITIES

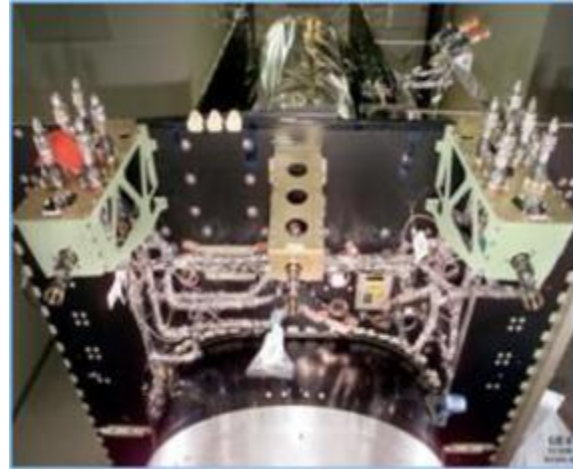
- Complete project management, liaison engineering, procurement, testing, training, logistics, IT, QA, ESH, HR, and HAZMAT services
- 52,519 sq ft of high-bay clean rooms (100K, 10K, and 1K)
- Machine shop, precision cleaning, precision tube production, thermal blanket and heat shield manufacturing, prototype lab, SCIF
- Integrated metrology center (primary Std, equipment calibrations, repair, engineering)
- Large structure x-ray and pressure testing
- Non-union technician workforce, cross-trained and surge capable
- Low-cost operations



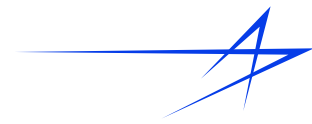


PROPULSION CLEAN ROOMS

- 7,415 sq ft class-6
- 600 sq ft class-7
- 40,031 sq ft class-8
- 4,473 sq ft blast cell & X-ray cell class-8
- Features:
 - Self-contained blast cell and control area for vehicle proof, pressure, and electrical testing
 - Self-contained x-ray cell and processing area
 - Automated and highly repeatable/reliable welding processes for:
 - ~ Stainless steel and titanium
 - ~ Mono and bi-propellant systems
 - ~ Cold gas systems
 - Main assembly area for subsystem integration onto spacecraft core
 - Ante-room for vehicle & tooling preparation

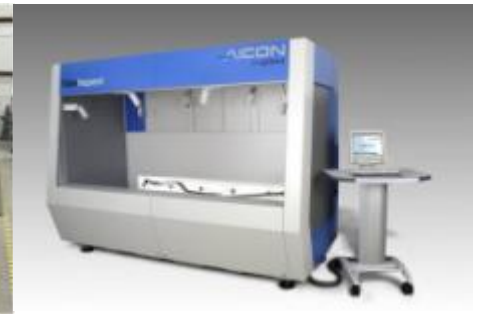


Propulsion Manufacturing Center



PROPULSION TUBE FABRICATION

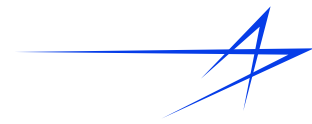
- 2400 sq ft
- Equipment:
 - Manual left and right hand tube bending machines
 - Power facing tools
 - Hydrostatic pressure leak tester with ranges from 0 to 6000 psi
 - Tube Coordinate Measurement Machine
 - Automatic Tube bender ECD December, 2011



PRECISION CLEANING

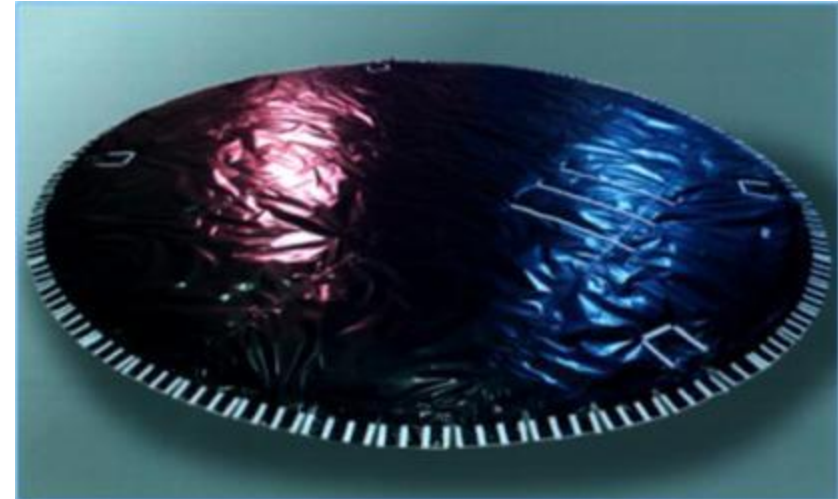
- 3600 sq ft
- Equipment:
 - Self contained class 10K 600 sq. ft.
 - Vacuum oven for bake-out
 - Deionized (DI) water
 - Five stage ultrasonic cleaner
 - Duraclean and DI tube flush station





THERMAL BLANKET FABRICATION

- 8,000 sq ft class 100k clean room with 800 sq ft of table assembly area
- Produces high quality multi-layer insulation (MLI) thermal blankets
- Personnel are skilled at cutting and shaping exotic material such as:
 - Germanium coated Kapton
 - Astro-quartz fabric
 - Fiberglass
 - Beta cloth
 - Foils
 - Aluminum coated Mylar
 - Kevlar
 - Nomex threads
 - Variety of high tech tapes and adhesives



STENNIS PROPULSION MANUFACTURING CENTER EXPERIENCE

OPENED AUGUST 2002

A2100 SPACECRAFT



AMC

(10, 11, 14,
15, 16, 18)



JCSAT

(9, 10, 11, 12, 13)



MUOS

(1, 2, 3)



SIRIUS-4



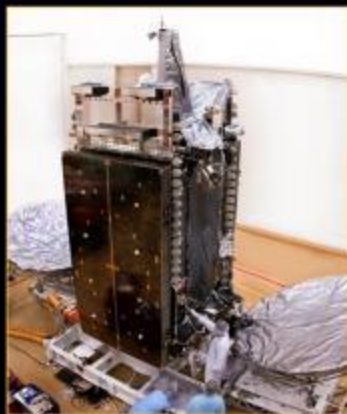
ASTRA

(1KR, 1L)



BSAT

(3A, 3B, 3C)



ECHO-X



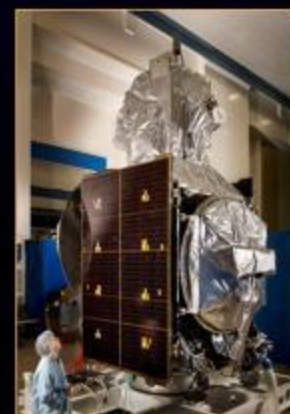
AEHF

(1, 2, 3)



SBIRS

(G1, G2)



PAN

STENNIS PROPULSION MANUFACTURING CENTER EXPERIENCE

OPENED AUGUST 2002

OTHER PROPULSION SYSTEMS



DMSP-19



FALCON
(1, 2)



TARGETS
(3, 4, 5, 6)



IS&GS Defense



Metrology Services

- 40,000 sq ft facility – strict environmental and vibration controls
- Primary/intrinsic standards:
 - Josephson-Junction, Quantized Hall Effect,
 - Iodine stabilized laser, cryogenic noise standards,
 - Laser piston attenuator, cesium beam standard,
 - Temperature fixed points, magnetic flux standard
- Calibration:
 - DC/low frequency to RF/microwave, dimensional,
 - Optical, mechanical, thermodynamics, force,
 - Flow, mass, and others
- Dedicated repair staff/shop
- Consultation / engineering support



IS&GS Defense



Prototype/manufacturing Machine Shop

- Experienced/certified journeymen crafts-persons
- CAD/CAM and latest machine programming technology
- Full line of CNC machining and sheet metal equipment
- Weld - MIG/TIG/ARC
- Precision grinding - OD/ID/flat
- Fabrication/assembly/repair

Operations and Support

- Support for Rolls Royce jet engine testing
- Support systems operation and maintenance including facilities and production
- IT systems network and desktop services
- Transportation services to support on and offsite satellite moves



Doing Business with Lockheed Martin



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How to Register with Lockheed Martin


Potential Supplier Request

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Doing Business with Lockheed Martin



Global Supply Chain



Supplier Partnerships are Essential for Achieving Mission Success
At Lockheed Martin, we achieve mission success by meeting all of our commitments to our customers and attaining total customer satisfaction. That's our strategy, in helping our customers during their defining moments. Suppliers are a big part of that strategy. Doing business with suppliers and small businesses adds fuel to the engine of our economy.

How to Become a Lockheed Martin Supplier
The new reality is that our business environment is more competitive than ever before. Lockheed Martin needs suppliers who demonstrate a commitment to continuous improvement, and who can help us deliver product better, faster

**Dan Pleshko, Vice President
Global Supply Chain Operations**

**How to do business with
Lockheed Martin**

Unidentified network
Internet access

<http://www.lockheedmartin.com/suppliers/doingbusiness/>

Doing Business with Lockheed Martin



Supplier Partnerships are Essential for Achieving Mission Success

At Lockheed Martin, we achieve mission success by meeting all of our commitments to our customers and attaining total customer satisfaction. That's our strategy, in helping our customers during their defining moments. Suppliers are a big part of that strategy. Doing business with suppliers and small businesses adds fuel to the engine of our economy

How to Become a Lockheed Martin Supplier

Lockheed Martin needs suppliers who demonstrate a commitment to continuous improvement, and who can help us deliver a product better, faster and smarter. Working with our category management teams in a long-term business environment will strengthen our supply chain and the integrity of the components of our products.

To be successful, first, become familiar with Lockheed Martin products and services by reviewing the [What We Buy listing](http://www.lockheedmartin.com/suppliers/buy/buyList.html).

<http://www.lockheedmartin.com/suppliers/buy/buyList.html>

Knowing what we produce, purchase and areas of immediate need will help you evaluate your opportunities and prepare information on your capabilities targeted to our requirements.

Doing Business with Lockheed Martin



How to do business with Lockheed Martin

1. Register in the Lockheed Martin corporate supplier [database](#).

<http://www.myexostar.com/registration.aspx?ekmense=c57dfa7b>

Select LM P2P Unsolicited Registration Request to access the registration form.

2. Send an e-mail containing a brief description of your firm's capabilities, business size and status to supplier.communications@lmco.com, along with your company information structured for our database - [download](#) [Excelfile](#).

<http://www.lockheedmartin.com/suppliers/doingbusiness/SDCompanyInfo.xls>

(Do not send proprietary, export controlled, confidential or classified information.)