

BUREAU  
LOCKHEED MISSILES & SPACE COMPANY, INC.  
(A SUBSIDIARY OF LOCKHEED CORPORATION)  
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FOR USE AT ANY TIME

REFERENCE

COMPANY FACT SHEET

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Lockheed Missiles & Space Company, Inc. (LMSC) is a major developer of space systems, missiles, and a variety of other high-technology products. The company's main offices are in Sunnyvale, Calif. Company facilities are also located in other areas including Huntsville Ala., Cape Canaveral, Fla., Charleston, S. C., and at Palo Alto, San Diego, Santa Cruz, and Vandenberg Air Force Base, Calif. LMSC employs approximately 23,000 people.

MAJOR LMSC BUSINESS ACTIVITIES INCLUDE:

SPACE SYSTEMS

Agena and Other Spacecraft -- Since its first launch in 1959, the Lockheed Agena has served as a booster or satellite on more than 300 missions, nearly half of all U.S. space flights. This dependable, three-axis stabilized vehicle continues to be employed in a number of NASA and Air Force programs.

Space Shuttle Thermal Protection System -- LMSC is providing the reusable silica-fiber insulation that protects the Space Shuttle from re-entry temperatures as high as 2300 F. Manufactured in hundreds of shapes and sizes, the tiles will cover more than 70 percent of each vehicle's outer surface. The company is also participating in the development of a new lighter and stronger material called Refractory Composite Insulation (FRCI), a candidate material for later orbiters.

Space Telescope -- LMSC has a contract to design and build the Support Systems Module (SSM), the basic structure for NASA's Space Telescope (ST), which will be one of the first Space Shuttle payloads in the early 1980s. Operating well above the Earth's turbulent atmosphere, the ST will be able to look seven times deeper into space, detect objects 50 times fainter, and view them with 10 times better clarity (resolution) than ground-based observatories.

FLEET BALLISTIC MISSILES

Following successful development and production of the earlier Polaris and Poseidon submarine-launched missiles, LMSC is now producing the new Trident I (C4) missile system for the U.S. Navy. Trident became operational in October, 1979. A three-stage missile, Trident has a range of 4,000 nautical miles -- 60 percent greater than its predecessors.

OCEAN SYSTEMS

Ocean Mining -- Lockheed is a member of the Ocean Minerals Company partnership which is developing hardware and technology to mine manganese nodules from the deep ocean. The nodules are found in water depths of 14,000 to 16,000 feet, and contain manganese, nickel, copper, and cobalt. It is estimated that 1.5 trillion tons of these nodules are located in the Pacific Ocean alone.

Submersibles -- The company-owned research submarine "Deep Quest" has been used by government and industry for a wide range of ocean research. As a testbed for the U.S. Navy, it has established a record for time under water (42 hours), for a research submersible, while equipped with an oxygen-hydrogen fuel cell as a power source. LMSC also designed and built the U.S. Navy's Deep Submergence Rescue Vehicles (DSRV), 50-foot submersibles that can be airlifted