

MANNED SPACE FLIGHT
RESEARCH AND DEVELOPMENT
SATURN V
FY 1968 BUDGET ESTIMATE
(MILLIONS OF DOLLARS)

	FY 1966	FY 1967	FY 1968
1st STAGE (S-IC)	191.9	184.9	174.7
2nd STAGE (S-II)	256.2	248.6	245.9
3rd STAGE (S-IVB)	162.0	154.0	151.2
INSTRUMENT UNIT	67.8	72.9	75.1
GROUND SUPPORT EQUIPMENT	107.6	60.9	35.8
F-1 ENGINES	66.2	92.3	105.3
J-2 ENGINES	67.2	83.5	78.5
VEHICLE SUPPORT	216.0	238.5	242.0
TOTAL	\$ 1,134.9	\$ 1,135.6	\$ 1,108.5

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FIGURE 131

This stage, which generates approximately 7.5 million pounds of thrust, is the most powerful developed by this country to date. The S-IC is powered by five liquid oxygen-kerosene F-1 engines, each developing about 1.5 million pounds of thrust. At launch, the S-IC will be lifting a total space vehicle weight of 6 million pounds. During flight, the stage burns for 2½ minutes, consuming about 15 tons of propellant a second.

The Marshall Space Flight Center, with the assistance of the Boeing Corp., manufactured the structural test components, the first ground test stage, and the first two flight stages at Huntsville, Alabama. Manufacturing of the first flight stage began at Huntsville in July, 1964. Boeing was awarded the contract to manufacture two other ground test stages (dynamic and facilities checkout) and 13 flight stages at the Government-owned Michoud Assembly Facility near New Orleans, Louisiana.

Activity in FY 1967 has been highlighted by the delivery of the first flight stage to the Kennedy Space Center. The second flight article has completed post-static checkout and the third has passed its acceptance test firing at Marshall. The fourth flight stage will be delivered to the Mississippi Test Facility to inaugurate acceptance testing at this location. The fifth and sixth are scheduled to complete manufacturing, and the remaining nine will be phased into manufacturing or long-lead procurement by the end of FY 1967.

The FY 1968 funds support completion of the S-IC structural test program and continuation of assembly, in-plant checkout, acceptance testing, and shipment of flight stages to the Kennedy Space Center. The fourth, fifth, and sixth stages will be put through post-static checkout at Michoud, and delivered to the Kennedy Space Center. The seventh and eighth 1st stages are scheduled to complete assembly, in-plant checkout, and static testing; and the ninth and tenth are scheduled to be through manufacturing and checkout at Michoud. The five remaining stages will be in manufacturing during FY 1968.