

MANNED SPACE FLIGHT
RESEARCH AND DEVELOPMENT
UPDATED SATURN I
FY 1968 BUDGET ESTIMATES
 (MILLIONS OF DOLLARS)

	FY 1966	FY 1967	FY 1968
1st STAGE (S-IB)	51.6	43.1	30.5
2nd STAGE (S-IVB)	64.0	56.9	37.1
INSTRUMENT UNIT	47.7	40.6	22.6
GROUND SUPPORT EQUIPMENT	26.6	11.5	6.5
H-1 ENGINES	10.1	8.1	5.2
J-2 ENGINES	13.5	6.7	.9
VEHICLE SUPPORT	61.3	69.7	53.4
TOTAL	\$ 274.8	\$ 236.6	\$ 156.2

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FIGURE 36

delivery before the end of 1967, and the remaining two uprated Saturn I's are in fabrication leading to delivery to Kennedy during 1968. Follow-on procurement of uprated Saturn I vehicles, which represent a major addition to our Nation's inventory of large launch vehicles and offer a versatile means for conducting a variety of Earth orbital missions, will be discussed under Apollo Applications.

Each line item within the uprated Saturn I project, as you can see, is decreasing from the fiscal year 1967 level.

Stages S-IB and S-IVB: We are requesting \$30.5 million for the Chrysler-produced first stage (S-IB) and \$37.1 million for the Douglas-produced second stage (S-IVB) in fiscal year 1968. These funds support completion of the 8th through 12th flight stages, which are currently phased into manufacturing, assembly, acceptance testing, or checkout.

Instrument unit and GSE: Fiscal year 1968 funds in the amount of \$22.6 million are required for the instrument unit. The fiscal year 1968 funds provide for completion of assembly, checkout, and delivery of the remaining five instrument units required for Apollo-Saturn I vehicles.

We are also requesting \$6.5 million in fiscal year 1968 to cover the operation and updating of stage and vehicle ground support equipment to meet specific mission requirements. Operational requirements for the Marshall breadboard facility, which is also used to validate the computer programs for each mission, are also included.