

SATURN V ACCOMPLISHMENTS AND SIGNIFICANT EVENTS - 1966-67

- GROUND TEST PROGRAM NEARING COMPLETION
- FACILITIES CHECKOUT COMPLETED
- FIRST STAGE AND ENGINE MATURITY
- SECOND STAGE ACCOMPLISHMENTS AND FAILURES
- THIRD STAGE LOSS AT DOUGLAS - SACRAMENTO
- LAUNCH VEHICLE GROUND SUPPORT EQUIPMENT - FOR EARLY FLIGHTS DELIVERED, INSTALLED AND CHECKED OUT
- FIRST FLIGHT VEHICLE DELIVERED TO KSC

FIGURE 20

SATURN V COMPONENT QUALIFICATION

3,500 COMPONENTS IDENTIFIED FOR QUALIFICATION.

2,500 QUALIFIED BY PRIOR USE, SIMILARITY OR ENGINEERING ANALYSIS

1,000 REQUIRED QUALIFICATION BY TESTING.

- ELEVEN REMAIN TO BE QUALIFIED

NINE FLIGHT CRITICAL

TWO NON-FLIGHT CRITICAL

FIGURE 21

told this morning the number is now down to 10. We expect to qualify these remaining components before rollout of the AS-501. There is nothing particularly constraining about this except that when a unit fails, it must be run through the entire qualification process again.

Another facet of the Ground Testing Program is Vehicle Dynamics Testing (figs. 22 and 23) which you saw this morning. These tests are conducted to monitor the dynamic response of the flight vehicle under all simulated flight conditions such as launch and stage separation. The tests are planned to confirm flight control system design; to verify vehicle structure dynamic analysis; and to finalize the vehicle guidance and control systems.