

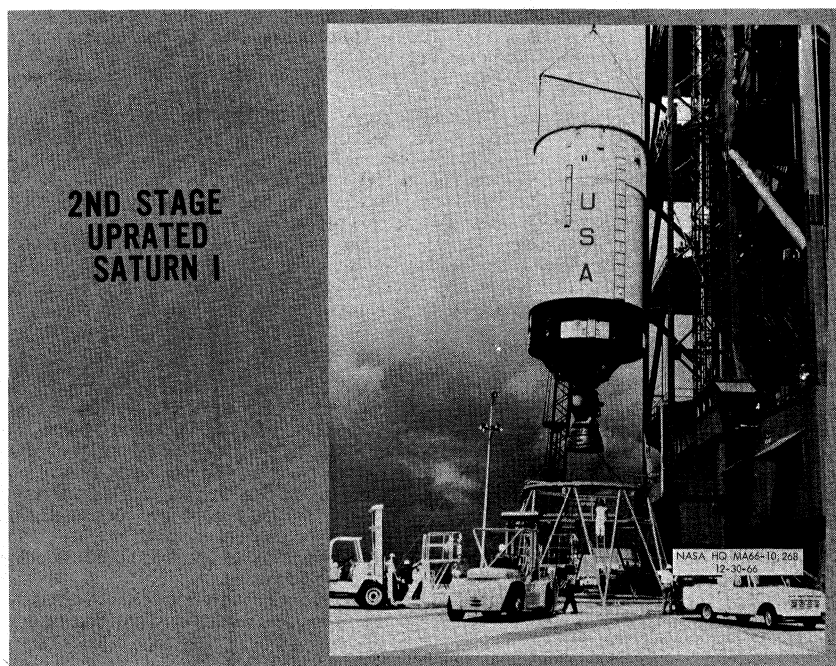


FIGURE 30

*Saturn V launch vehicle*

1967 will be the year of flight test for the Saturn V launch vehicle. The years of design and ground development are nearly complete. The first flight vehicle has been delivered to the launch site, backed up by a full pipeline of vehicles and complete maturity in manufacturing capability (fig. 32, MA66-9694-B).

As part of the 1966 activities we completed nearly all of the major stage ground testing efforts. The major portions of the components qualification were accomplished, and only a small portion of the qualification program remains to be completed in 1967.

*500-F facilities checkout vehicle*

In 1966 we delivered the Saturn V 500-F vehicle to KSC and used it to verify the operations and functions of the Saturn V launch facilities. These included the Launch Umbilical Tower, the Mobile Service Structure, Launch Control Center Firing Room No. 1, and Launch Pad 39A at Launch Complex 39 (fig. 33, MC66-10,397). This non-flight facilities checkout version of the Saturn V provided the necessary verification and valuable training prior to operations with flight hardware.

*1st stage*

Component qualification testing was essentially completed in 1966 for the Saturn V 1st stage (fig. 34, MA66-9237). Reliability testing will be completed by about midyear 1967. The 1st stage program pipeline was filled with the delivery of the first flight article to Launch Complex 39. This was accomplished without any significant hardware or procedural problems.

During 1966 we successfully completed acceptance test firings on the first three flight stages of the 1st stage. S-IC-3, the third of these flight stages, was the first contractor-produced 1st stage to be static fired. We delivered S-IC-1 to KSC in September 1966 where the stage was later erected on Launch Umbilical Tower No. 1 to begin checkout of the first Saturn V launch vehicle.