

FOR THE RECORD: These are
Dr. von Braun's comments to present
to President Kennedy during his visit at
Cape Canaveral, Fla., Nov. 16, 1963.

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Comments on SA-5 Mission

We will launch this Saturn I rocket in the near future, before the end of the year. This is the fifth flight model of the vehicle - - we call it SA-5. This is the first of the so-called "Block II" vehicles, and it is a great deal different from the Saturns we have launched so far.

We now see the fruition of the Saturn effort starting back in 1958. This is the first complete Saturn... with a powered upper stage and a capability of placing a rather heavy payload into orbit.

The four Saturns we have launched successfully to date, as you will recall, have had only the first stage "live." Water ballast was carried in the place of upper propulsion units - - simply because we made a decision in late 1959 to go all out and develop new liquid hydrogen upper stages. We could have had conventional upper stages flying much before now, but the advantages of hydrogen were worth the expense and delay brought about by developing this new technology. With hydrogen we get a performance more than a third better than we get from conventional fuels such as the kerosene which is used in the first stage. So we decided to use hydrogen in all such upper stages in the future.

This hydrogen stage, the S-IV, is made by the Douglas Aircraft Co., and uses six engines made by Pratt and Whitney aircraft. The stage

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