

GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

Memorandum

R-ASTR-NG-67-65
DB Cook/vm/876-7418

TO Mr. R. A. Marmann, R-P&VE-VAW

DATE June 25, 1965

FROM Chief, Guidance and Control Systems Analysis Branch, R-ASTR-NG

SUBJECT Expected Tolerance on Center of Gravity Location for SA-203/S-IVB
at J-2 ETD

REFERENCE R-P&VE-VAW-65-17, "Saturn IB, SA-203 Design Mass Characteristics,"
February 8, 1965

1. This office is presently determining the Auxiliary Propulsion System (APS) attitude control engine propellant requirements. It is therefore necessary to know the expected error or tolerance of the cg location.

2. For the Cartesian coordinates of the cg location in the above reference, will you please furnish R-ASTR-NG with an expected tolerance for both cases, S-IVB residuals aft and forward at J-2 ETD.

Melvin Brooks
for J. L. Mack

Approval:

for *B. B. Gassaway*
F. B. Moore
Chief, Guidance and
Control Division

Copies to: Mr. Moore, R-ASTR-N
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Residual copy
SA71B
SA-203