## GEORGE C. MARSHALL SPACE FLIGHT CENTER HUNTSVILLE, ALABAMA

Memorandum 10-13-69 THRU: G. Mr. A. Spears, S&E-ASTR-BV

TO

Mr. Duerr, PM-SAT-IU

FROM Chief, Guidance and Control Systems Branch, S&E-ASTR-SG DATE October 13, 1969

In reply refer to: S&E-ASTR-SG-40-69 JEBlanton/sm/453-4580

SUBJECT Proposed Change to "Saturn V, S-10-504 and Subsequent Test and Checkout Requirements, Specifications, and Criteria for use at KSC".

1. As-507 flight control system tests at KSC have revealed a small amount of Control Signal Processer cross-coupling. It has been recognized that some cross-coupling is acceptable and a value of 1% has been agreed upon. This value was proposed and accepted in IBM EPC 2174 for AS-509 and subsequent system test spec at IBM and should also be applied to AS-507 and subsequent subject document.

2. The purpose of this memorandum is to document the applicability of the 1% control signal processer cross-coupling to AS-507 and 508 and to propose that the "Saturn V, S-IU-504 and Subsequent Test and Checkout Requirements, Specifications, and Criteria for use at KSC" be amended to reflect this specification. It is recommended that Subsystem Effectivity 0.3.1.2.1.0, Control-EDS Rate Gyro Control Signal Processor Test, be changed under Specifications and Criteria to read that "Allowable Control Signal Processor cross-coupling shall be ±1% or less".

3. IBM should be directed to make this change to the subject document or to submit an ECP.

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Approval:

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Fred S. Wojtalik Chief, Systems Division

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