



5/31/66

S-Band Compatibility Test

PAGE 1 OF 2 PAGES

This ATM is submitted in response to Action Item B051301.

Prepared by James E. Whiteford
J. E. Whiteford

Approved by C. A. Schorke
C. A. Schorke



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S-Band Compatibility Tests

In response to the subject Action Item, following is a statement of Bendix objectives for the proposed test and the dates of availability of the various hardware configurations.

Bendix would like to perform this test as early as possible as a full operational test (acquisition, uplink, and downlink at one time). This test should be done at the allowable limits of power, data, and signal deviations, and Bendix is especially interested in determining the effect of a 1 KHz and 10 KHz ripple on the transmitter modulation pulse.

Listed below are the operational models, except the flight hardware, with their earliest available dates for this test. A period of two weeks has been added to the date of last useage at Bendix to allow for equipment conditioning and transportation requirements.

Engineering Model	2 March 1967
Prototype Model	7 June 1967
Qualification Model	28 August 1967

The date given for the Prototype Model places the MSFN test between the design verification tests and the off-limit test at Bendix. A decision to use this model for the MSFN test will result in an off-limit test delay equal to the test and transportation time required for the MSFN test. This is the only way this unit can be considered for reliable scheduling as refurbishment time after the off-limit test is unpredictable.

The above dates represent availability of complete ALSEP Systems. For this reason, it is recommended that the full MSFN test be scheduled for a single time period with a one time equipment shipment to and from MSC for this purpose. Any partial equipment requirement at an earlier date would be in conflict with a Bendix schedule date and would result in a mainstream effort interference.