

FLIGHT TEST LOG

Date: April 10, 1959

Receiver: Model R-300A Flare Target Receiver (First pre-production prototype)

Receiver Frequency: 309.8 mc

<u>Battery Voltages</u>	<u>Pre-flight</u>	<u>After 42 minutes of operation</u>
✓ 90 VDC	87 VDC	81 VDC
✓ 67.5 VDC	---	62.5 VDC
✓ 6 VDC	6 VDC	5.85 VDC

Note: These voltages measured on a Triplet 310 VOM

Results: 5 miles satisfactory
 10 miles satisfactory
 15 miles satisfactory
 20 miles - no operation
 15 miles - no operation

Conclusions:

Initial operation satisfactory to 15 miles. Failure of operation was found to result from

1. defective 6AF4A
2. bias diode fed from voltage source and remained constant while plate voltage source was decreasing.