

~~TOP SECRET~~

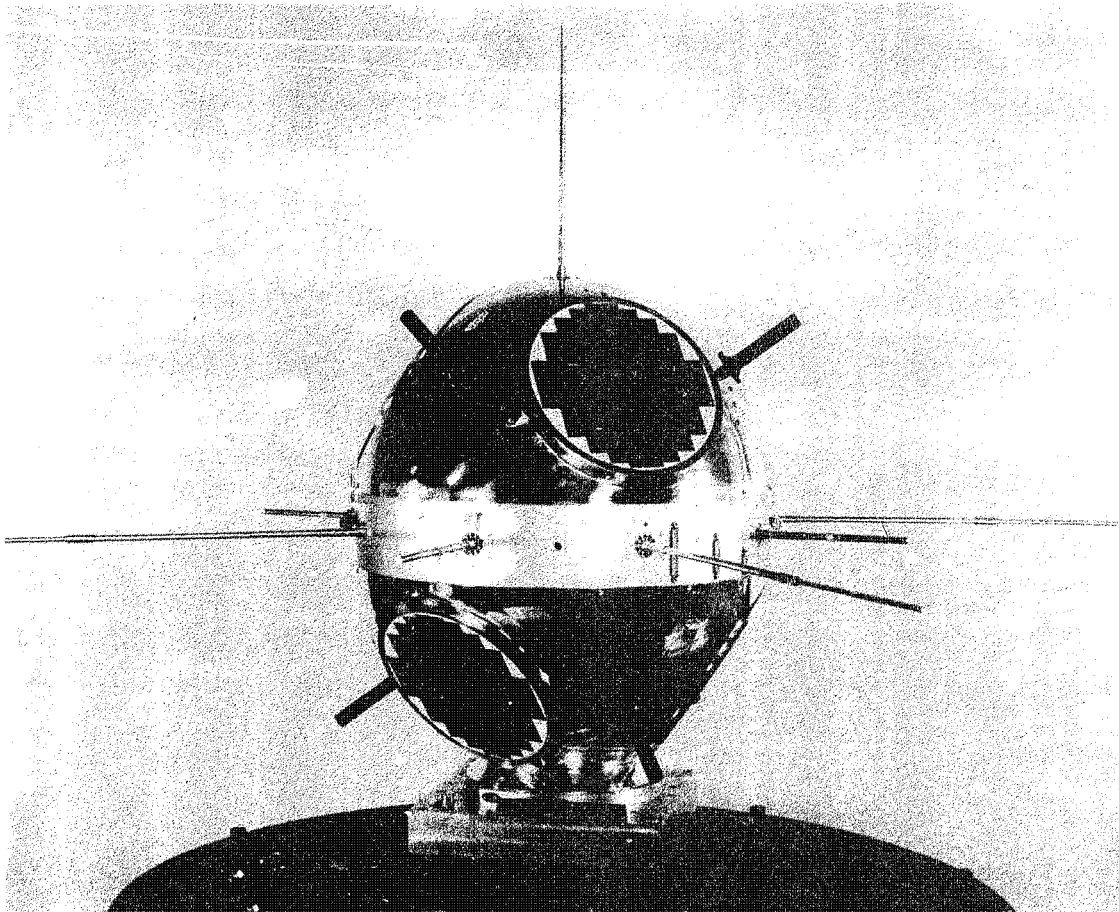
NSA-BYE-33402-4
EV/8-64

21 September 1964

Copies of 4 copies

**NATIONAL SECURITY AGENCY
Washington 25, D.C.**

HANDLE VIA BYEMAN
CONTROL CHANNELS ONLY



WARNING

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793, 794 AND 798, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

~~TOP SECRET~~

~~TOP SECRET~~ EARPOP

-4

1964

opies

NSA-BYE-33402-4
EV/8-64

21 September 1964

PERFORMANCE EVALUATION OF PAYLOAD 7211

INTRODUCTION

1. The 7211 payload (BIRD DOG), launched on 2 July 1964, performed satisfactorily within its programmed objective of interception and location of [redacted] emitters. The collection system utilized a frequency scanning superheterodyne receiver which covers the radio frequency (RF) of [redacted] coupled to a digital recorder. Receiving system sensitivity is -84 dbm.

2. The RF range of [redacted] is interrogated in one-megacycle increments within a minimum scan time of 0.92 secs (no confirmed signals) or a maximum of 2.15 secs (127 signals over threshold). Scan and flyback are accomplished within three seconds.

3. Recording capacity of the BIRD DOG system is 7500 68-bit data words providing signal parameters of radio frequency, pulse repetition frequency, and pulse width. An auxiliary measurement of pulse amplitude (transmitted power) is also provided, e.g., -65 dbm. The accuracy of measurement is as follows:

- a. RF ± 1.0 MCS
- b. PRF ± 50 PPS
- c. PW ± 1 bracket (0.3-0.5m 0.5-1.0, 1.0-3.0, >3usec)
- d. Rel. Sig. Amplitude ± 10 db in range -40 to -80 dbm.

DETAILS



50X1

~~TOP SECRET~~ EARPOP

FORM: 101-33402-6a
11/2-64

23 September 1964

DISTRIBUTION

<u>ORGANIZATION</u>	<u>NUMBER OF COPIES</u>
CIA	12
CNO	1
DIA	16
SAC	1
SAFSC	2
USA	1
USAF	2
NSA(PO4/3PO)	1
NSA(PO432)	1
NSA(C14)	1
NSA(C141)	1
NSA(A374)	2
NSA(A37)	1

~~TOP SECRET~~ EARPOP