

BYE-16592-68

As of 31 Dec 67

## Quarterly Program Review

## Project SIGINT

Program Director: Brig Gen J L Martin, Jr  
Project Director: Col D D Bradburn

1. Overview

a. One P-11 vehicle was launched during the quarter, carrying the FACADE payload, the first of a series of QRC general search and technical intelligence P-11s against ABM/AES emitters. It is operating successfully and has detected a suspected ABM radar.

b. The Multi-group and Setter payloads on FTV #2732, launched in Jul, ceased operation on 28 Dec after 157 days of operation. The DONKEY payload on this vehicle is expected to remain operational until 12 Jan 1968. The next vehicle in Multi-group series, FTV #2733, is scheduled for launch in mid-Jan.

c. Of the other SIGINT vehicles which were launched in previous periods and still operational on 1 Oct 1967, three P-11s ceased operation during the quarter and one P-11 and portions of three POPPYs continued in operation through 31 Dec.

2. Program Direction

a. On 28 Sep in CHARGE 9177 we forwarded a revised SIGINT program in response to WHIG 6924.

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Control System

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On 17 Oct WHIG 7008 approved a revised program which, together with Aerospace MTS manning adjustments, resulted in the following program approvals as of 31 Dec:

<u>Project</u>	<u>\$ Million</u>
770	\$ 79.648
989	19.135
POPPY	<u>12.925</u>
Total	\$111.708

b. WHIG 7008 also deleted the redundant DSUs from the last three STRAWMAN vehicles (2736-2738), deleted P-11 vehicle #4423, and rescheduled the P-11 launch schedule as follows:

<u>FTV #</u>	<u>RIDE (MISSION NR)</u>	<u>LAUNCH DATE</u>
4410	1044 (CORONA)	Oct 1967
4411	1045 "	Jan 1968
4412	1046 "	Feb 1968
4413	7106 (POPPY Vehicle 2706)	Jun 1968 ✓
4420	1047 (CORONA)	Jul 1968
4407	1048 "	Oct 1968
4417	1049 "	Feb 1969
4418	1050 "	May 1969
4419	7107 (POPPY Vehicle 2709)	Jun 1969 ✓
4421	1051 (CORONA)	Aug 1969
4422	1052 "	Nov 1969

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c. Subsequently, further direction from the NRO staff and changes in the CORONA and POPPY launch schedules resulted in further adjustments to the P-11 launch schedule (see para 3c, below)

### 3. Program Progress

#### a. Launches during quarter:

<u>Vehicle Number</u>	<u>Planned Launch</u>	<u>Actual Launch</u>	<u>Variance</u>
P-11, FTV 4410	Oct 1967	2 Nov 1967	CORONA launch delay

#### b. Schedule for next five P-770 missions:

<u>FTV #</u>	<u>Payload</u>	<u>Launch Date</u>
2733	MULTIGROUP, SETTER IB-2	Jan 1968
2734	STRAWMAN (THRESHER, REAPER)	Jul 1968
2706	POPPY, P-11 FTV 4407	Oct 1968
2735	STRAWMAN (THRESHER, REAPER)	Nov 1968
2736	STRAWMAN (THRESHER, REAPER)	May 1969

#### c. Schedule for next five P-989 (P-11) missions:

<u>P-11 FTV Number</u>	<u>Payload</u>	<u>Launch Date</u>	<u>Host Program</u>
4412	Tivoli	Jan 1968	CORONA
4411	LAMPAN, SAMPAN II	Mar 1968	CORONA
4420	TRIPOS III, SOUSEA II	Jul 1968	CORONA
4413	VAMPAN	Oct 1968	CORONA
4407	WESTON	Oct 1968	POPPY

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~~TOP SECRET~~4. Technical Status - ABM/AES P-11

P-11 FTV 4410, the first of seven P-11s designed as QRC general search and technical intelligence systems against ABM/AES emitters, was successfully launched on 2 Nov 1967. FTV 4410 provides general search capabilities in the 250-2200 Mhz band and is continuing to operate satisfactorily. FTV 4410 has successfully detected a suspected ABM radar, DOGHOUSE. FTV 4411, which will provide general search in the 1000-4000 Mhz band, and FTV 4412, which will perform technical intelligence in the 100-4000 Mhz band, are both ready for launch. FTV 4413 (General Search 100-1000 Mhz) and FTV 4420 (General Search 4000-8000 Mhz) are on schedule.

5. Technical Status - 770 (MULTIGROUP, STRAWMAN, POPPY)

a. FTV 2732, except for the DONKEY payload, lost ability to accept ground commands on 28 Dec 1967, shortly after completing five months of operation. Payload performance summary is:

MULTIGROUP	Digital	- 5 months
	Analog	- 3 months. After 3 months there was a failure of "turn-on" circuitry to the DSU recorder.
SETTER	Digital	- 5 months, except that an unstable timing circuit resulted in the loss of data in the 2910-2990 Mhz range. The 2604-2910 and 2990-3215 Mhz capability remained nominal throughout the mission.
DONKEY	The payload remains operational via its independent command system. Failure of the basic command system results in the inability to yaw the vehicle. For this reason the vehicle will experience high temperatures which will probably induce electrical power failures, by mid-Jan 1968. DONKEY will become inoperative at that time.	

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b. FTV 2733, the last of the Multi-group series, is being prepared for shipment to VAFB in early Jan. The launch is scheduled for the week of 15 Jan 1968. Late mods were made to the MULTIGROUP Special Signal Detector (SSD) with respect to recognition parameters. These resulted both from experience gained on FTV 2732 as well as new knowledge with regard to signals of interest.

c. FTV 2734, the first of the STRAWMAN series, is proceeding satisfactorily toward a planned launch date of Jul 1968. Pacing items are the LMSC test complex and test software readiness as well as payload delivery to LMSC.

d. FTV 2706. Delivery of the POPPY payload from NRL is expected to slip to Oct 1968, and a dislocation of vehicle manufacturing and launch base scheduling has resulted. No further action is being taken on incorporation of NRL secondary payloads pending their definition by NRL. Work on the Agena vehicle for FTV 2706 has been stopped pending full resolution of the above.

6. Technical Status P-989

a. FTV 4401, PUNDIT, which had ceased effective operation on 20 Jul 1966 after 448 days but had been tasked intermittently since then, was declared dead on 15 Nov 1967 after 931 days.

b. FTV 4406, FANION/TRIPOS, which had ceased effective operation on 7 Dec 1966 after 21 days but had been tasked intermittently since then, was declared dead on 16 Oct 1967 after 395 days.

c. FTV 4405, SAMPAN/SOUSEA, ceased operation on 5 Dec when its last recorder failed after 476 days.

d. The WESTON COMINT payload for FTV 4407 completed aircraft flight tests in Europe. Eight flights were conducted during which recognition signal thresholds were adjusted. The payload successfully locked on to valid signals.

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Control System