

~~KARPOP~~

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Control System

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MEMORANDUM FOR CHAIRMAN, COMOR SIGINT WORKING GROUP

SUBJECT: Augmentation of Mission 7309

7309

REFERENCE: (S) NRO Memorandum to CSUG, 13 October 1964

Mission 7309, PUNDIT IV, the next scheduled P-11 payload, will be improved over that described in the reference. An additional output from the Mode A receiver (scanning 60-80 mcs) will be employed to operate as Mode C, alone or during either Mode A or B operations which collect Soviet VHF telemetry signals. The scanning (Mode C) data will be detected for AM (TV) and FM and stored on the narrow band recorder. Data bandwidths (not stated in the reference) will be 300 cps AM and 7 kc FM and will yield interfering signal environment information similar to but more refined than that collected by PUNDITs I, II (Missions 7301, 7302). As you know, PUNDIT III (Mission 7303) was on the P-11 aboard the AGENA which failed to orbit 8 October 1964.

This additional capability of the PUNDIT IV to obtain more data on Soviet TV and FM broadcasts will not affect the prime intelligence collection mission. The environment data will be produced in parallel with and independent of the Mode B wideband telemetry data and in parallel with the transponded Mode A data. No change will be made on the automatic recognizer which stops the receiver scan on a Soviet Type B telemetry signal.

Tasking on 7309 will be as per COMOR guidance. A capability beyond that required for the primary mission will be available for tasking on certain geographic and local-time passes to obtain a complete signal environment coverage.

It is anticipated that the environment data collected by PUNDIT IV will be of great engineering value not only to the design of future KARPOP payloads operating in this radio frequency band (for [redacted] as well as VHF telemetry) but also for inputs to airborne and rocketborne collection systems now being developed by other agencies.

25X1

- Cy 1 - ADDRESSEE
- Cy 2 - SS-6
- Cy 3 - SS-4
- Cy 4 - SS-1
- CY 5 - RF#1
- CY 6 - RF#2

JAMES T. STEWART  
Brigadier General, USAF  
Director, (S) NRO Staff

7309

Mr. Thayer/14 Jan 65/cab  
REGRADING: DOD DIR 5200.10  
DOES NOT APPLY

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Page 1 of 1 Pages.  
Control No. Byg 3625-65

**PRIORITY**

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ONE SEVEN EIGHT GUARD  
GUARD PASS MARGO

S E C R E T 052323Z  
PRIORITY WHIG INFO MARGO CITE WORTH 6726.  
EARPOP  
REF: TD MEETING 15-16 DEC 64 PUNDIT IV

1. THE REQUIREMENT TO CHANGE THE OPERATING FREQUENCIES OF THE PUNDIT TRANSMITTERS WAS DISCUSSED AT THE REFERENCED MEETING. THE OUTPUT FREQUENCIES OF THE TWO MODE A SYSTEMS CAN BE CHANGED BY AS MUCH AS 5 MC. A MODIFICATION TO THE POWER AMPLIFIER WOULD DECREASE THE POWER DISSIPATION BY 15 WATTS WHILE SLIGHTLY INCREASING THE OUTPUT POWER.

2. WE RECOMMEND MODIFICATION OF THE POWER AMPLIFIER. IF YOU AGREE TO THE FREQUENCY CHANGE, REQUEST THAT THE NEW TRANSMITTING FREQUENCIES BE SPECIFIED. AN IMMEDIATE REPLY IS REQUIRED IN ORDER TO PREVENT ANY DELIVERY DELAYS AND CHANGES IN OPERATIONAL SCHEDULES.

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SAFSS 6638

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SIX FOUR FIVE WORTH

SECRET 061839Z  
PRIORITY WORTH INFO MARGO CITE WHIG 2229  
REF WORTH 6726

AGREE TO MODIFICATION OF POWER AMPLIFIER.  
AGREE TO RADIO FREQUENCY CHANGE. UNDERSTANDING BY MARGO AT  
LAST MEETING WAS SELECTION COULD BE MADE LATER THIS MONTH. SITE  
SURVEY IS PROCEEDING AND RESULTS WILL BE FORWARDED ASAP.  
COSTS ARE TO BE ABSORBED WITHIN PRESENT FUNDING.

SECRET  
CFN: 2229 WORTH 6729 AGREE AGREE MARGO ASAP  
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7309

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TWO TWO NINE GUARD

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EARPOP

REF: WORTH 6726 AND WHIG 2229  
URGENTLY NEED NEW TRANSMITTING FREQUENCIES FOR PUNDIT IV,  
MISSION 7309. PROCUREMENT LEAD TIME REQUIRES ORDER BE PLACED  
IMMEDIATELY TO PREVENT DELAY AND CHANGES TO OPERATIONAL  
SCHEDULE.

SECRET  
CFN: 6847 6726 2229 IV 7309  
BT

REF-2  
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