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1965 JAN 21 15 46 MM 2 1965

MEMORANDUM FOR CHAIRMAN, COMOR SIGINT WORKING GROUP

SUBJECT: Augmentation of Mission 7309

REPERENCE: (S) Não 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 Bods 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 VEF telemetry signals. The scanning (Mode C) data will be detected for AM (TV) and FW and stored on the narrow band recorder. Bata bandwidths (not stated in the reference) will be 300 cps AM and 7 kc FW 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 IV 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 EARPOP payloads operating in this radio frequency band (for as well as VHF telemetry) but also for inputs to airborne and rocketborne collection systems now being developed by other agencies.

Cy 1 - ADDRESSEE

Cy 2 - SS-6

Cy 3 - SS-4

Cy 4 - SS-1

CY 5 - RF#1

CY 6 - RF#2

Mr: Thayer/14 Jan 6.5/cab NAUMULE DE DEFENDATE REGRADING: DOD DIR 5200.10

DOES NOT APPLY

7309

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

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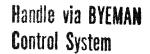
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54-38

TSBA081/060029Z ZEA BT XXXXX ZEA ONE SEVEN EIGHT GUARD GUARD PASS MARGO

S E C R E T 0523237 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.

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 SS-1 DELIVERY DELAYS AND CHANGES IN OPERATIONAL SCHEDULES. SECRET 33-2 CFN: 6726 15-16 DEC 64 1 5MC 15 WATTS 2 88-3 88-4 33-6 SS-9 SS-7 55-8 86-9 85-10 88-11

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SAESS 6638

/061839Z ZEA BT XXXXX ZEA 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 MEFTING WAS SELECTION COULD BE MADE LATER THIS WONTH. SITE

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.

S E C R E T CFN: 2229 WORTH 6729 AGREE AGREE MARGO ASAP BT

NN 1309 | SS-1 | SS-2 | SS-2 | SS-3 |

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STRIBUTION

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HOLD WIL MATE

TSBA 196/2 18813Z ZEA BT XXXXX ZEA TWO TWO NINE GUARD

S E C R E T 2100032
WHIG CITE WORTH-6847
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.
S E C R E T
CFN: 6847 6726 2229 IV 7309
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RF-2

7309

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SECRET.
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