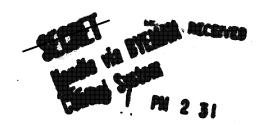
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WORTH/INFO WHIG/CITE MARGO 151-6

EARPOP

REF: WORTH 9960

SUBJ: LEIGE/PLICAT TESTING

L. MARGO PRIMARILY INTERESTED IN PLICAT PAYLOAD BENCH TESTS.

2. MARGO FARTICIPANT, VILL REMAIN FOR

PERIOD OF PLICAT TESTING. MAJ WILLIAMS AVAILABLE FOR GUIDANCE

SECRET

CFN: MARGO 151-6

EARPOP

REF: WORTH 9960

SBJ: LEIGE/PLICAT TESTING

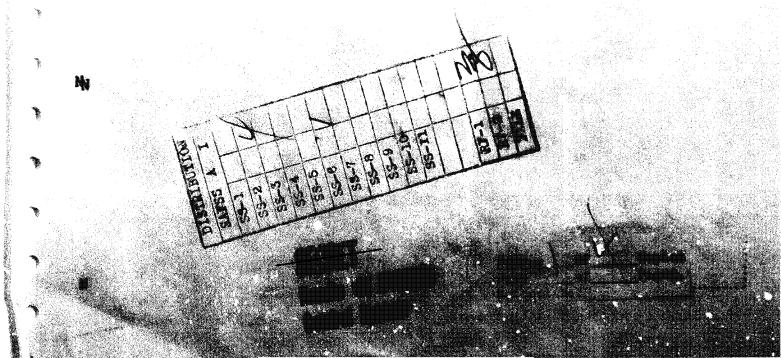
L. MARGO PRIMARILY INTERESTED IN PLICAT PAYLOAD BENCH TESTS.

2. MARGO PARTICIPANT.

VILL REMAIN FOR

PERIOD OF PLICAT TESTING. MAJ WILLIAMS AVAILABLE FOR GUIDANCE

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SECRET 2316002 PRIORITY WHIG WAHOO WORTH INFO WEDGE CITE MARGO 287-6 EARPOP REF: MADAM 1259 (NOTAL) UNDERSTAND FROM REF THAT MISSION 7311 WILL NOT BE THOROUGHLY BENCH TESTED BUT WILL ONLY BE CALIBRATED AT VAFB AFTER NATING WITH BOOSTER. IF THIS UNDERSTANDING IS CORRECT, STRONGLY RECOMMEND POSTPONEMENT OF THIS MISSION FOR PROPOER TESTING IN ORDER TO ENSURE RELIABILITY. PACT THAT QUOTE MAJOR DESIGN PROBELY UNQUOTE HAS BEEN DETECTED STRENGTHENS THIS RECOMMENDATION. O - REWIN ATTENDED TO SECRET CFN: 287-6 OK 25 FEB EARPOP REF: MADAM 1259 (NOTAL) UNDERSTAND FROM REF THAT MISSION 7311 VILL NOT BE THOROUGHLY MEMEN TESTED BUT WILL ONLY BE CALIBRATED AT VANB AFTER NATING WITH BUCUTER. IF THIS LANDERSTANDING IS CORRECT, STRONGLY RECONNEND POSTPONEMENT DISPRIBULL OF THES MESSIEGH FOR PROPOSER TESTING IN ORDER TO ENSURE RELIABILITY. SATES A FACT THAT AMOUTE HAJOR DESIGN PROBELM UNQUOTE HAS BEEN DETECTED 53-1 STREMETHENS THIS RECOMMENDATION. H

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SECRET Handle de Messel Control System SAFS A

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SECRET 2022 325Z WHIG WAHOO WORTH/INFO WEDGE MADAM/CITE MARGO 350-6 EARPOP /

REF: A. MARGO 287-5 (NOTAL).

B. 23-25 FEB TD MEETING.

C. PHONECON KRANSKI TO POTTS 23 FEB.

D. MADAM (ESAO) DTG 211630Z FEB 66.

1. UNDERSTAND FROM REF B THAT MISSION 7311 WILL BE LAUNCHED 0/A 25 APRIL. AND THAT CALIBRATION WILL BE DONE AT VAFB. IN ACCORDANCE WITH REF C PER WORTH'S REQUEST. NO MARGO REPRESENTATIVE WILL PAR-TICIPATE IN THIS CALIBRATION.

2. IT IS ESSENTIAL THAT THE CALIBRATION RESULTS BE FORWARDED TO MARGO 30 DAYS PRIOR TO LAUNCH. APPRECIATE AND ACCEPT YOUR OFFER TO SEND REPRESENTATIVE FROM MADAM TO MARGO WITH TEST TAPES AND CALI-BRATIONS WHEN THESE ARE AVAILABLE.

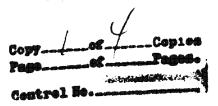
3. SPECIFIC TESTS REQUIRED BY MARGO ARE THOSE OUTLINED IN REF D, AS WELL AS TESTS OF THE TYPE RECORDED WHILE MARGO REPRESENTATIVE WAS AT MADAM 9 FEB - 15 FEB 1966. MAJOR KRANSKI AND MADAM ARE AWARE OF THE REQUIREMENTS WHICH, IN GENERAL, CONSIST OF AN OVERALL SYSTEM CALIBRA-TION SUFFICIENT TO PERMIT THE DETERMINATION OF FREQUENCY, POWER. INTRAPULSE STRUCTURE, AND OTHER CHARACTERISTICS OF THE TARGET SIGNAL. THE CALIBRATION MUST INCLUDE SUFFICIENT VARIETY OF INPUT SIGNALS TO ENABLE THE PROCESSOR TO DETERMINE THE DEGREE TO WHICH SIGNAL CHAR-ACTERISTICS CAN BE IDENTIFIED. IN ADDITION, ENVIRONMENTAL PROBLEMS. EXAMPLE, THE ENCOUNTERED ON MAGNUM) SHOULD ALSO BE SIM-ULATED. FLUCTUATIONS IN CALIBRATION TEST DATA WITH RESPECT TO TEMP-ERATURE VARIATIONS SHOULD BE FORWARDED WITH CALIBRATION RESULTS.

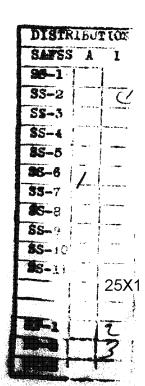
ALSO AN ACCURATE ANTENNA CALIBRATION MUST BE MADE AND RECORDED. 4. MARGO IS CURRENTLY AWARE OF SOME MAJOR PROBLEM AREAS REBARDING CALIBRATION THAT BECAME EVIDENT AS A RESULT OF BENCH TESTS (9 - 15 FEB): FOR EXAMPLE: MARGO CONSIDERS THE FACT THAT THE DISCRIMINATOR OUTPUT LEVEL VARIED WITH RESPECT TO INPUT POWER LEVEL AS WELL AS PREQUENCY IS AN UNDESIRABLE FEATURE MAKING EXTENSIVE CALIBRATION

NECESSARY AND COMPLICATING PROCESSING. PRELIMINARY ANALYSIS OF TAPES RESULTING FROM PREVIOUS BENCH TESTS HAVE SHOWN FURTHER DISCRIMINATOR PROBLEMS. WHEN AN INPUT PULSE, CAT AN RF THAT WOULD EQUATE TO METHOD

REDOMINATELY IN THE LINK 3 OUTPUT), IS RECEIVED, THE DISCRIMINATION ROSE TO A LEVEL GROW THE DUNATION OF THE PLESS THAT SAN HOT DUNATION ALIVE OF INPUT PRESIDENCY, AT THE TRAILING BOME OF THE PALSE THE DESCRIPTION OUT OUT FRAL TO A LEVEL THAT WAS PROVIDED TO IN

DISCRIMINATOR OUTPUT FELL TO A LEVEL THAT WAS PROPORTED INPUT PREQUENCY. THE BOX CAR CIRCUIT DOES NOT HOLD THIS LEVEL AS IT





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SHOULD, BUT BEGINS IMMEDIATELY TO FALL OFF EXPONENTIALLY UNTIL A NEW FULSE IS RECEIVED. WHEN THE ONLY INPUT SIGNAL IS THE 158 MCS CAL-IBRATION PULSE OCCURRING ONCE EVERY 2 SECONDS, THE BOX CAR OUTPUT WAS OBSERVED FALLING OFF FOR THE WHOLE 2 SECOND DURATION WITH NO ONE SECOND BOX CAR EFFECT NOTED. THE PULSE OUTPUT FROM THE DISCRIMINATOR WAS NOTED IN MADAM'S DESIGNATED TEST NUMBER 7, AT INPUT FREQUENCIES OF 153, 156, 157, 159, 160 AND 162 MCS. MARGO CONSIDERS THAT THIS APPEARANCE OF A PULSE IN THE DISCRIMINATOR OUTPUT, ALONG WITH THE LACK OF A PROPER BOX CAR EFFECT ARE INDICATIONS THAT THE DISCRIMINATOR AND BOX CAR CIRCUITRY WERE NOT FUNCTIONING PROPERLY AND SHOULD BE RECHECKED.

OFN: REQUEST RERUN IF NEEDED. BI

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PRIORITY WHIG WAHOO MARGO INFO MADAM CITE WORTH 0317

EARPOP
WHIG FOR WAHOO FOR MARGO FOR R. POTTS;
MADAM FOR W. HARRIS,
SUBJ: MISSION 7310 7311)
REF: MARGO 287-6

- 1. EXTENSIVE CALIBRATION AND TESTING OF THE SUBJECT MISSIONS WILL TAKE PLACE AT VAFB. THE QUANTITY AND QUALITY OF THE CALIBRATION AND TESTING SCHEDULED FOR VAFB WILL EQUAL OR EXCEED THAT ORIGINALLY SCHEDULED TO BE ACCOMPLISHED AT LMSC BLDG 524.
- 2. NO PAYLOAD CALIBRATION OR TESTING HAS EVER BEEN ACCOMPLISHED AFTER MATING WITH THE BOOSTER. NO PAYLOAD CALIBRATION OR TESTING HAS BEEN PLANNED FOR THIS MISSION AFTER MATING WITH THE BOOSTER.
- 3. THOROUGH PAYLOAD TESTING AND CALIBRATION TO INSURE HIGH RELIABILITY ARE PROGRAM OFFICE PREREQUISITES PRICE TO DEPLOYMENT OF ANY OPERATIONAL SYSTEM.

S E C R E T

CFN: 0317 EARPOP WHIG R THAYER WAHOO

HARRIS 7310/7311 MARGO 287-6 1. VAFB VAFB LMSC BLDG 524. 2. NO PAYLOAD

NO PAYLOAD 3.

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C05098651 Approved for Release: 2024/08/07 C05098651 Control SM SAFSS /081450Z ZPO MADAM BT XXXXX SIX SIX SEVEN WORTH FOUR TWO EIGHT MADAM ONE NINE THREE WEDGE SECRET 081447Z PRIORITY WORTH INFO MADAM WEDGE WHIG CITE MARGO 384-6 EARPOP REF: PHONECON KRANSKE 1140 LOCAL 7 MARCH. SUBJECT: 1311 CALIBRATION TEST RESULTS. FER WORTH REQUEST WILL SEND MARGO TO PARTICIPATE IN MADAM REVIEW AND ANALYSIS OF VANDENBURG CALIBRATION TESTS. WILL ARRIVE 1830 HRS PST AT SAN FRAN INT ON TWA FLT 61. SECRET CFN: CITE MARGO 384-6 **EARPOP** REF: PHONECON KRANSKE 1140 LOCAL 7 MARCH. SUBJECT: 7311 CALIBRATION TEST RESULTS. FER WORTH REQUEST WILL SEND MARGO TO PARTICIPATE IN MADAM REVIEW AND ANALYSIS OF VANDENBURG CALIBRATION TESTS. WILL ARRIVE 1830 HRS PST AT SAN FRAN INT ON TWA FLT 61. BT

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TOPSECRET/BYEMAN CHANNELS

INFO WHIG WEDGE MADAM WORTH WAHOO/CITE MARGO 670-6

REINDEER 24 (MODIFIED)

REF: (A) MARGO 544-6

(B) WORTH 0929

MODIFY PARA B OF REF (A) TO READ AS FOLLOWS:

1. REQUEST SHIPMENT TO MARGO OF ALL LIEGE AND PLICAT MASTER TAPES FROM DATE OF LAUNCH UNTIL ADVISED OTHERWISE BY MARGO. IT MUST BE FIRMLY ESTABLISHED BY MARGO FROM THE TAPE DATA THAT THE RECOGNITION CHANNEL HAS BEEN FUNCTIONING PROPERLY AND PRODUCES WIDEBAND RECORDINGS OF THE TARGET SIGNAL. DURING THIS PERIOD WEDGE REQUIRES DUB TAPES OF ALL MASTUR TAPES SENT TO MARGO.

2. UPON DETERMINATION BY MARGO OF SATISFACTORY RECOGNIZER OPERATION THE ABOVE PROCEDURE WILL BE CHANGED TO MINIMIZE TAPE DUPLICATION EFFORTS, I.E., WHENEVER THERE IS WIDEBAND RECORDER READOUT FROM THE PAYLOAD EITHER BY COMMAND OR RECOGNITION MASTER TAPES WILL BE SHIPPED TO MARGO AND DUB TAPES WILL BE SHIPPED TO WEDGE. WHEN THERE IS PAYLOAD READOUT ON LIEGE ONLY, MASTER TAPES WILL BE SHIPPED TO WEDGE AND MARGO REQUIRES NO REPEAT NO TAPES.

NEW SUBJECT: IN ACCORDANCE YOUR VIEWS EXPRESSED REF (B) PARA 3 MODIFY MARGO 544-6 PARA 3 TO READ: MARGO WILL ACCEPT PAYLOAD R/I, R/O AND GROUND STATION TIME AS PREVIOUSLY SUPPLIED AND WILL MAKE OWN CORRELATION

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