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~~TOP-SECRET~~HANDLE VIA BYEMAN
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CONCERT 484 CONQUER 648 [] 652 ADIC 307
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~~TOP SECRET~~ 281100Z MAY 71 CITE SIGNAL 89-71
ROUTINE WING INFO WAMCO PROBE MARGO CONQUER [] PADRE
EARNPOP
DR MCLUCAS FROM CAPT GEISER
FOURTH BIRTHDAY FOR POPPY MISSION 7105
1. FOUR YEARS AGO ON MAY 31, 1967 FOUR SATELLITES OF POPPY
MISSION 7105 WERE LAUNCHED BY A THORAL BOOSTER FROM THE AIR
FORCE WESTERN TEST RANGE. A FOURTH BIRTHDAY IN MOST ENDEAVORS
IS NOT SIGNIFICANT BUT IT APPLARS APROPOS IN THE ARENA OF SPACE
TO RECOGNIZE SUCH A MILESTONE.
2. AS A TESTIMONIAL ON THIS ANNIVERSARY, HIGHLIGHTS OF SOME
OF THE IMPORTANT CONTRIBUTIONS THAT THIS SYSTEM HAS MADE TO
SIGINT INTELLIGENCE ARE QUOTED FROM AN EVALUATION OF POPPY
MISSION 7105 PREPARED FOR USIS BY THE CRJINT OVERHEAD
RECONNAISSANCE SUBCOMMITTEE LAST NOVEMBER:

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4000

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"A. THE PRINCIPAL CONTRIBUTION OF POPPY MISSION 7105 HAS BEEN
THE ACQUISITION OF DATA FROM SEARCH/SURVEILLANCE ACTIVITIES OVER
A BROAD FREQUENCY BAND WITH EMPHASIS ON THE USIS SPECIFIED
SOVIET ABM/AES SPECTRUM. WHILE PERFORMING THIS ROLE, POPPY
MISSION 7105 HAS INTERCEPTED A NUMBER OF NEW RADAR SIGNALS
ASSOCIATED WITH SOVIET AGM AND SAM SYSTEMS. EXAMPLES OF THESE
CONTRIBUTIONS ARE:

1. THE FIRST INTERCEPT OF THE []
RADAR SIGNAL WHICH CONFIRMED THAT SOME [] RADARS AT
[] WERE BEING MODIFIED FOR MISSILE TRACKING PURPOSES IN
ADDITION TO THEIR SPACE TRACKING ROLES.

2. POPPY MISSION 7105 WAS THE MAJOR SOURCE OF EARLY
INTERCEPTS OF THE SUSPECT COS HOUSE SIGNAL IN THE SUMMER OF 1967.

3. EARLY DUAL SATELLITE INTERCEPTS BY POPPY MISSION
7105 CONFIRMED THAT CANDIDATE [] SIGNALS ORIGINATED AT
GARY SHAGAN LAUNCH COMPLEXES. POPPY MISSION 7105 ALSO WAS
THE FIRST TO SHOW THAT TWO
[] INFORMATION AT 200000

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AS INDICATE THE SIMILARITY INTERCEPT OF TWO PRFS, THESE DATA WERE USEFUL PRIMARILY FOR THE TASKING AND ACTIVATION OF SENSORS WHICH COULD COLLECT DETAILED SIGNAL PARAMETERS.

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4. ANALYSIS OF POPPY MISSION 7105 INTERCEPTS HAS AIDED IN IDENTIFYING THE TARGET TRACKING SIGNAL OF THE [REDACTED] SA-4 ENGAGEMENT RADAR. MULTIPLE LOCATIONS DERIVED FROM POPPY MISSION 7105 INTERCEPT DATA HAS IDENTIFIED THE [REDACTED] SIGNAL AS A HIGHLY LIKELY CANDIDATE FOR THE ACQUISITION/ENGAGEMENT RADAR OF THE SA-6 MISSILE SYSTEM. ADDITIONALLY, POPPY MISSION 7105 HAS PROVIDED INTERCEPT DATA ON THE DEPLOYMENT AND LOCATIONS OF SA-3 ASSOCIATED RADARS.

5. POPPY 7105 PROVIDED DATA ASSOCIATED WITH VARIOUS BEAMS OF THE [REDACTED] RADAR ABOARD THE [REDACTED] AND THUS PERMITTED AN IMPROVED INTELLIGENCE ASSESSMENT OF ITS FUNCTION AND CAPABILITIES AS AN AIR SURVEILLANCE/TARGET ACQUISITION RADAR.

B. POPPY MISSION 7105 INTERCEPTS HAVE PROVIDED THE FIRST INDICATIONS THAT SOVIET GROUND RADARS OPERATING IN THE 14,800-15,100 MHZ FREQUENCY BAND HAVE SCAN CHARACTERISTICS OF FIRE CONTROL RADARS. THESE CONTINUING INTERCEPTS SUGGEST THAT NEW SOVIET RADARS OPERATING IN THE 15,000 MHZ FREQUENCY AREA MAY HAVE APPLICATIONS FOR MISSILE GUIDANCE AND FIRE CONTROL.

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C. POPPY MISSION 7105 CONTINUES TO PROVIDE DATA ON SOVIET AIR SURVEILLANCE RADARS. THE FIRST INTERCEPT OF THE SOVIET [REDACTED] AIR SURVEILLANCE/SPACE TRACKING RADAR WAS MADE BY POPPY 7105.

D. POPPY MISSION 7105 HAS BEEN PARTICULARLY RESPONSIVE TO TASKING FOR OCEAN SURVEILLANCE PURPOSES AND HAS PROVIDED [REDACTED] INFORMATION ON SOVIET NAVAL VESSELS AND IMPORTANT TOWNS. TACTICAL FLEET COMMANDERS.

E. FROM POPPY 7105 LAUNCH IN MAY 1967 THROUGH 30 SEPT 1970, NSA HAS PROCESSED OVER THREE MILLION RADAR INTERCEPTS FROM POPPY MISSION 7105 IN SUPPORT OF THE ELINT SEARCH AND SURVEILLANCE REQUIREMENTS.

F. POPPY MISSION 7105 HAS MET DESIGN SPECIFICATIONS IN VIRTUALLY ALL RESPECTS. THE POPPY 7105 SYSTEM IS HIGHLY RELIABLE AND HAS OPERATED WELL BEYOND ITS SPECIFIED LIFE OF ONE YEAR. THIS MISSION HAS FUNCTIONED WITH ONLY MINOR DEGRADATION."

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2. POPPY MISSION 7105 INTERCEPTS HAVE PROVIDED THE FIRST INDICATIONS THAT SOVIET GROUND RADARS OPERATIVE IN THE 14,300-15,100 MHZ FREQUENCY BAND HAVE SCAN CHARACTERISTICS OF FIRE CONTROL RADARS. THESE CONTINUING INTERCEPTS SUGGEST THAT NEW SOVIET RADARS OPERATIVE IN THE 15,000 MHZ FREQUENCY AREA MAY HAVE APPLICATIONS FOR MISSILE GUIDANCE AND FIRE CONTROL.

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D. POPPY MISSION 7105 HAS BEEN PARTICULARLY RESPONSIVE TO TASKING FOR OCEAN SURVEILLANCE PURPOSES AND HAS PROVIDED [] LOCATION INFORMATION ON SOVIET NAVAL ASSETS OF IMPORTANCE TO U.S. TACTICAL FLEET COMMANDERS.

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F. POPPY MISSION 7105 HAS MET DESIGN SPECIFICATIONS IN VIRTUALLY ALL RESPECTS. THE POPPY 7105 SYSTEM IS HIGHLY RELIABLE AND HAS OPERATED WELL BEYOND ITS SPECIFIED LIFE OF ONE YEAR. THIS MISSION HAS FUNCTIONED WITH ONLY MINOR DEGRADATION.

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3. ON 10 MAY NSA FORWARDED THE FOLLOWING MESSAGE ON MISSION 7105 INTERCEPTS:

"1. SPECIAL TASKING OF THE POPPY SYSTEM FOR PROJECT FLAVOR AND OTHER HIGH INTEREST SPECIAL TASKING HAS PRODUCED A SIGNIFICANT AMOUNT OF ELINT DATA. IN THE UMR FOR EXAMPLE OF THE 46 INTERCEPTS OF THE SA-6 SIGNAL [] 39 HAVE BEEN FROM [] THERE HAVE BEEN A TOTAL OF 15 ELO REPORTS WRITTEN FROM POPPY INTERCEPTS OF []"

2. "IN RECENT MONTHS POPPY MISSION 7105 HAS PRODUCED SIGNIFICANT DATA ON THE [] AND ALSO NEW INFO ON THE SIGNAL STRUCTURE OF THE [] RADAR INSTALLATIONS ALONG THE SOVIET-MONGOLIAN BORDER."

4. OUR BEST WISHES FOR CONTINUED SUCCESS AND GOOD HEALTH TO POPPY MISSION 7105.

5. BY THIS MESSAGE PERSONNEL AT [] CONQUER, NAMBO, PADRE AND NAMBO WHO HAVE SUPPORTED THIS ENDEAVOR ARE ALSO CONGRATULATED FOR THEIR PERFORMANCE."

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