

NRL SPECIAL PROJECTS CONTROL NO.

NRL BTK-000544-71

HANDLE VIA BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

DATE
3 Nov 1971

hox
7/6/71

ORIGINATOR PM (PM-10)		SERIAL NO. BYE-52290-71	
DATE REC'D IN NRL 19 Nov 71	COPIES REC'D One	COPY NOS. #2	RECEIPT NUMBER #41-71

SUBJECT
COPY Technical Operations Group (TOG) Meeting;
Report of

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NRL CONTROL RECORD NDW-NRL-5216 CONTROL SYSTEMS JOINTLY

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Handle Via Indicated Controls

BYEMAN-TALENT-KEYHOLE

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cleared for the specific projects;

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WARNING

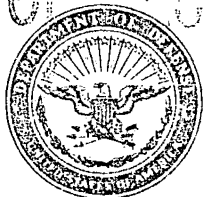
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NRL BTK-000548-71

#41-71

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GROUP 1
Excluded from automatic
downgrading and declassification

~~TOP SECRET~~~~EARPOP~~DEPARTMENT OF THE NAVY
NAVY SPACE PROJECT OFFICE, PM-16
WASHINGTON, D.C. 20360

IN REPLY REFER TO

3 NOV 1971

MEMORANDUM FOR: DIRECTOR, NAVAL RESEARCH LABORATORY
DIRECTOR, NATIONAL SECURITY AGENCY
DIRECTOR, CENTRAL INTELLIGENCE AGENCY
DIRECTOR, NRO STAFF (SS-4)
COMMANDER, NAVAL SECURITY GROUP

Subj: POPPY Technical Operations Group (TOG) Meeting;
Report of

Encl: (1) List of Attendees
(2) TOG Agenda
(3) POPPY Milestone Chart (Oct 71)
(4) POPPY Operational Highlights

1. A TOG meeting was held at 0930, 28 October 1971, at PM-16 in Jefferson Plaza Bldg. 1. The list of attendees and agenda are forwarded as enclosures (1) and (2). Enclosure (3) is the October POPPY Milestone chart. Highlights of the meeting follow:

a. 7105/6/7 Status

(1) NSG - Mission 7105 remains in an essentially stable condition with very low power storage and, as a consequence, is tasked only during sunlight illumination.

(2) NSG - Mission 7106 is regenerative in band 11. This band has been used in conjunction with the SLM feature to intercept [] data. Loss of this band would deprive the community of further technical data concerning this signal from 7106.

(3) NRL - Mission 7107 continues on track for a 14 December launch.

b. 7105/6 Operational Highlights

(1) See enclosure (4) for monthly highlights. The ocean surveillance work for the month in support of friendly naval maneuvers emphasized the fact that US and allied warships have characteristic (though largely uncatalogued) radar signatures which lend their platforms to successful identification.

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BYEMAN-TALENT-7105
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CONTROL SYSTEMS JOINTLYc. POPPY Processing Highlights

(1) NSA - [] data are widely recorded and analyzed; consequently, except for completion of SLM tasks, it has been removed from the POPPY SOI list. [] emanating from a [] USSR, is believed to be used for research only. Regular POPPY tasking will probably yield intercepts and no special task is required.

(2) NSA - [] HEN HOUSE I, with a 189-degree boresight, was first detected in operation by other sensors 8 October 1971, but POPPY data have not yet reflected this activity.

(3) NSA - [] shows sufficient stability to admit the possibility of fingerprinting sites.

(4) NRL - NSA agree that the [] band 815 - 970 MHz in Mission 7107 will be set at -48 dbm threshold sensitivity in one satellite pair and -56 dbm in the other. These sensitivities will permit [] interception of [] while guaranteeing, at least in the lower sensitivity pair, adequate opportunities to obtain unsaturated SLM data for ERP measurements of []

d. PDE/7107 Interaction

(1) NRL - The PDE will be deployed to [] in early November and will undergo technical evaluations with the SEL 810 through the balance of the month. With the launching of Mission 7107, NRL expects to send engineers to [] to work in conjunction with [] personnel to effect simultaneous tests upon mission housekeeping and payload systems. This will permit a 50-percent savings in calibration/testing time. It is also anticipated that the PDE/7107 technical interface, personnel training and hardware/data testing, will be accomplished immediately following satellite checkout.

(2) NRL - Mission 7107 satellite pairs will require some 42 days to achieve a one-horizon separation and approximately 90 days to thrust sufficiently for a half-orbit spacing. Following this effort, a Phase II engineering evaluation will be needed. NRL expects in the future to monitor the health of the ELINT payloads in Mission 7107 more stringently than it has in previous missions.

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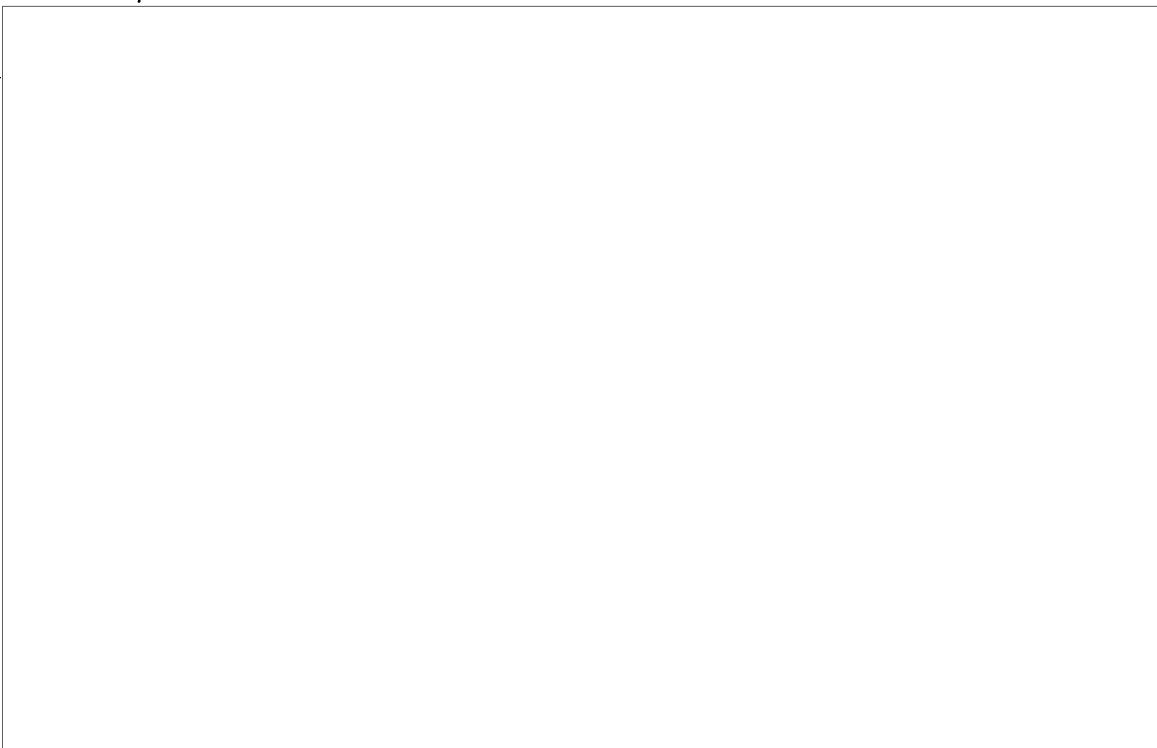
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(3) SOC - The SOC agrees with the importance of complete engineering evaluations for the new mission and understands that tests involving 7107/PDE may be running for some 12 - 18 hours/day for 2 weeks after launch, with at least 10 more days required for PDE checkout. Tasking will be planned accordingly.

(4) PM-16 - NRL is asked to provide SOC and NSA its requirements for engineering tasking and SOC will develop appropriate task groups in consultation with NSA. A meeting is scheduled at NRL for 1330, 15 November.



2. The next TOG meeting is scheduled for 0930, 15 November 1971 at NRL.

R. K. GEIGER
CAPT, USN
Director, Program C

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LIST OF ATTENDEES

(28 Oct 71 TOG Meeting at PM-16)

PM-16NRL

Mr. Lorenzen
Mr. Mayo
Mr. Van DeMeer
Mr. Hellrich

NRONSANSG

CDR McGraw
LCDR Cole
LT Morgan
ENS Kellogg

CIA

ENCLOSURE (1)

TOG Agenda0930 28 October 1971

1. 7105/6/7 status (NSG)
2. 7105/6 Op report (NSG)
3. POPPY processing highlights (NSA)
4. PDE/7107 interaction (PM-16)
5.

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ENCLOSURE (2)

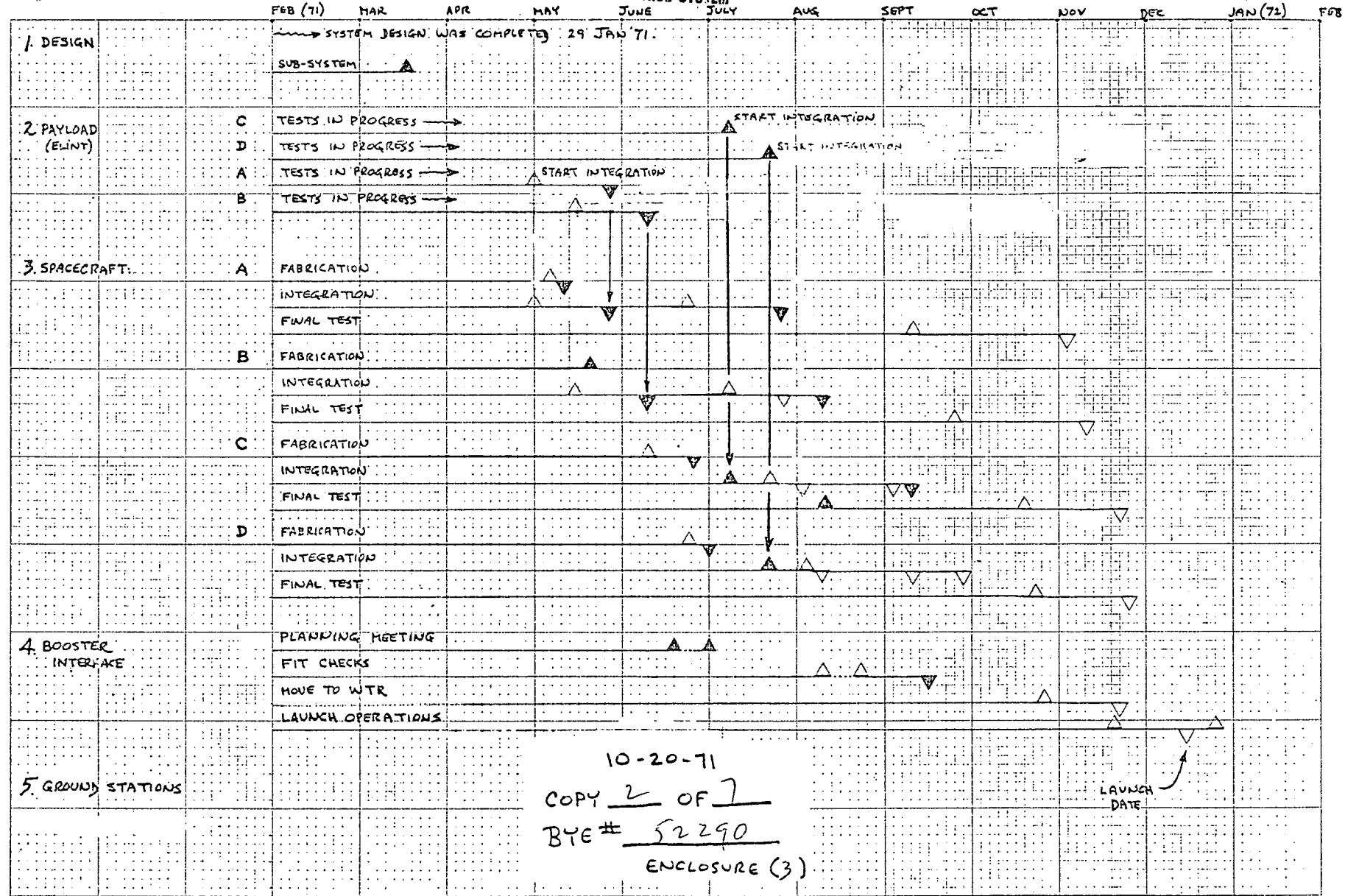
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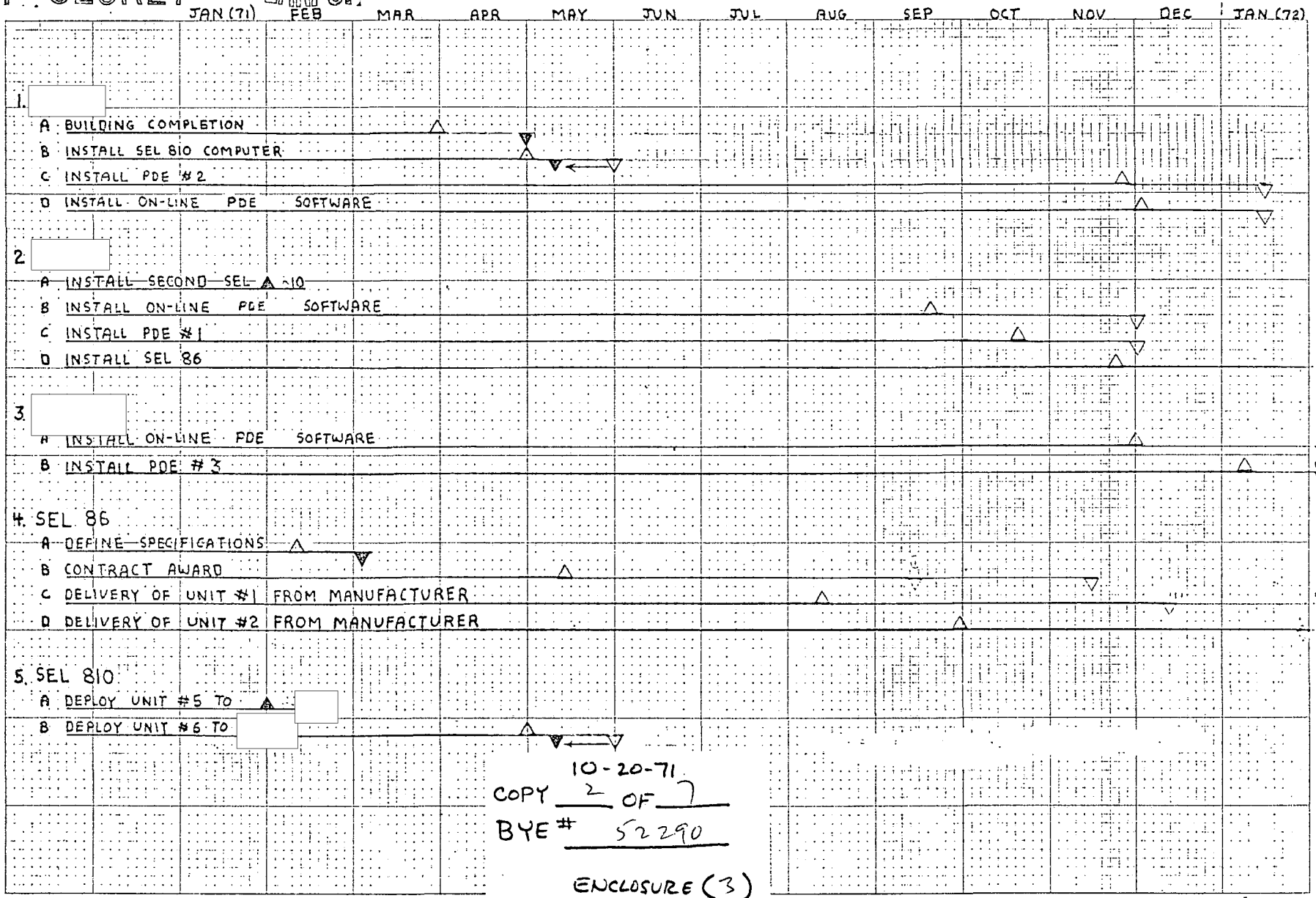
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GROUND SITE ANTI-CONTAMINATION SCHEDULE



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ENCLOSURE (3)

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FY71

CONTROL SYSTEM

FY72

FY73

	1 st	2 nd	3 rd	4 th	1 st	2 nd	3 rd	4 th	1 st	2 nd	3 rd	4 th
1. BUILDING												
A. A AND E												
1. AWARDED		▲										
2. COMPLETION			▲									
B. BUILDING CONTRACT												
1. BID				▲								
2. OPEN				▲								
3. AWARD				▲								
C. SITE PREPARATION												
1. STARTED		▲										
D. CONSTRUCTION (ESTIMATED)								▲				
2. PERSONNEL												
A. BILLET												
1. RCP SUBMITTED TO NSA		▲										
2. NSA SENDS RCP TO DOD				▲								
3. DOD DECISION					▲							
B. PCS												
1. COORDINATE WITH BUPERS							▲					
2. INITIAL CONTINGENT REPORTS							▲					
3. REMAINING PERSONNEL REPORT								▲				
C. TRAINING												
1. COORDINATION WITH BUPERS							▲					
2. PERSONNEL TO SCHOOLS/FACTORIES							▲					
3. PERSONNEL REPORT								▲				
D. SECURITY												
1. CLEARANCES FOR KEY PERSONNEL						▲						
2. CLEARANCES FOR ADDITIONAL BILLET						▲		▲				
3. SCHEDULE FOR TSCM INSPECTION							▲					
4. SUBMIT FOR BUILDING ACCREDITATION								▲				

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ENCLOSURE (3)

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HANDLE VIA ~~BYE~~

CONTROL SYSTEM

FY71

FY72

FY73

	1 st	2 nd	3 rd	4 th	1 st	2 nd	3 rd	4 th	1 st	2 nd	3 rd	4 th
E. TECH. REP./SUPPORT												
1. INSTALLATION SUPPORT TEAM ARRIVES												
2. SYSTEM CHECKOUT												
3. LOGISTICS												
A. STATION SUPPORT FACILITIES												
1. SURVEY FOR FY73 BASE LOADING												
B. BACHELOR HOUSING												
1. DECISION ON MODERNIZATION PROGRAM ²												
4. COMMUNICATIONS												
A. INTERSTATION [REDACTED] TO SI/GENSER NETWORK												
1. EXPAND COMM CENTER												
B. INTRASTATION (COMM CENTER TO S1SS ZULU OPS)												
1. PROGRAM EQP FOR ECC												
2. COORDINATE INSTALLATION WITH NAVELEX												
3. COMPLETE INSTALLATION												
5. EQUIPMENT ^{3,4}												
A. COLLECTION												
1. SHOULD BE AVAILABLE FOR DEPLOYMENT												
B. ANTENNAS												
1. SHOULD BE AVAILABLE FOR DEPLOYMENT												
C. ANALOG PROCESSING EQP												
1. SHOULD BE AVAILABLE FOR DEPLOYMENT												
D. DIGITAL PROCESSING EQP												
1. RETURN SEL-810A FROM [REDACTED]												
2. CHECKED OUT AND DEPLOYED												

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ENCLOSURE (3)

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JAN (71) FEB MAR APR MAY CONTROL SYSTEM JUL AUG SEP OCT NOV DEC JAN (72)

6 PRIORITY DATA EXTRACTOR

- A COMPLETE SYSTEM DESIGN
- B PROTOTYPE FINISHED
- C PROTOTYPE EVALUATION (DESIGN FINALIZED)
- D PDE #1 COMPLETED
- E PDE #2 COMPLETED
- F PDE #3 COMPLETED

7 SEL 86 SOFTWARE

- A START SOFTWARE DEVELOPMENT
- B DEPLOY FIRST SOFTWARE PACKAGE

8 SEL 810 SOFTWARE

- A START ON LINE SOFTWARE (PDE SOFTWARE)
- B DEPLOY ON LINE SOFTWARE AT (PDE SOFTWARE)
- C DEPLOY ON LINE SOFTWARE AT (PDE SOFTWARE)
- D DEPLOY ON LINE SOFTWARE AT (PDE SOFTWARE)

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ENCLOSURE (3)

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~~TOP SECRET~~POPPY OPERATIONAL SUMMARY

24 Sept - 25 Oct 1971

During the last 30 days, the POPPY field sites have continued various special collection tasks besides the general search mission.

[] has been tasked over the last several months to attempt intercepts of the Moscow [] signal during coincident overhead passes of various Soviet satellites. A new special collection effort was established against []

Since 31 August, when extended coverage of the [] emitter in the UAR was terminated, only one intercept location has been reported. No further intercepts have been made in support of Project FLAVOR during the last month.

An analytic effort to isolate emissions parametrically similar to the [] signal and possibly related to the SA-5 activity continues at []. Only the four signals originally reported in late September have been detected to date.

On 25 October, another of a series of joint SAC/DIA/NSA reconnaissance flights was flown against the Soviet air defense zone structure. [] was tasked to collect against emitters in the [] from two orbits of 7105 A/B and two orbits of 7105 C/D. Within the last year, POPPY sites have contributed to six of these missions.

The POPPY field sites have reported a total of 168 Soviet naval emitter locations during this reporting period. This compares to 475 and 350 intercept locations during the past two reporting periods. Locations during the last month were divided among the following geographic areas:

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Mediterranean	24
Black Sea	73
Baltic Sea	19
North Fleet Waters	16
Atlantic Ocean	15
Pacific Ocean	21
TOTAL	168

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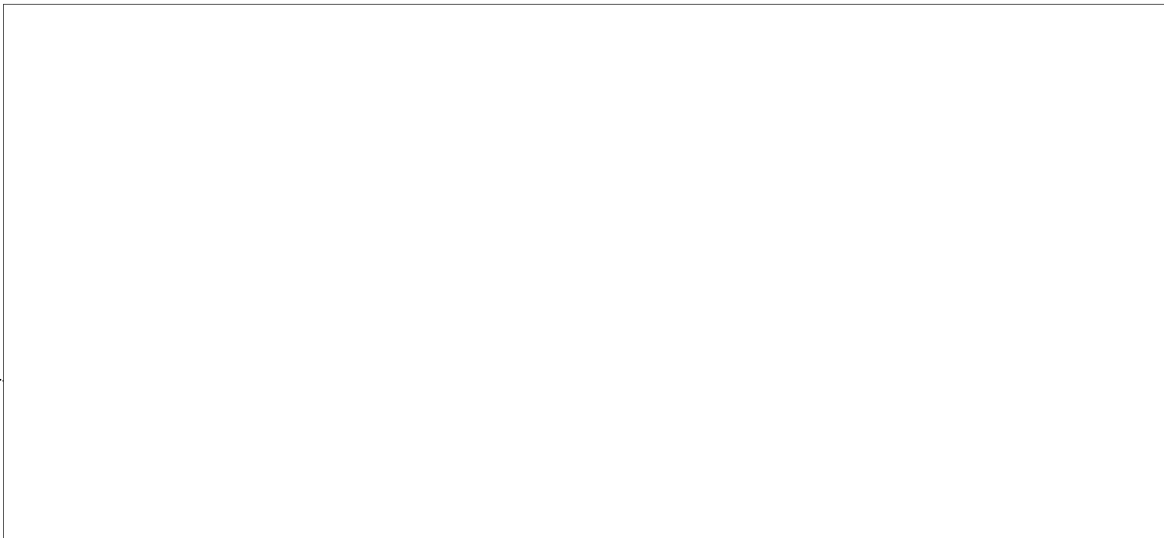
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ENCLOSURE (4)

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ENCLOSURE (4)