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CASMS 7/71
NRL B-000/105-71

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

IN REPLY REFER TO
PM-16:RKG
30 June 1971

MEMORANDUM FOR: Director, Naval Research Laboratory
Director, National Security Agency
Director, Central Intelligence Agency
Director, National Reconnaissance Office
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 (June 1971)

1. A TOG meeting was held at 0930, 24 June 1971, in Room BD-944 of the Pentagon. The list of attendees and the agenda are forwarded as Enclosures (1) and (2). Enclosure (3) is the June 1971 POPPY Milestone Chart. Highlights of the meeting follow:

a. Ocean Surveillance Presentation

(1) Due to the length of the Agenda, the NRL briefing will be rescheduled.

b. 7105/6/7 Status

(1) NRL - There has been no significant change in 7105/7106 payload health. The 7105A battery appears to have no capacity left; however, the payload is functioning in sunlight. Mission 7107A successfully passed the first significant electrical tests. A few 7107 milestones have been changed; however, these should have no impact on the launch schedule.

(2) NRL - A decision must be made within about a week on the orbit parameters for 7107. The retrograde vs prograde orbit question still exists because of the possible shared ride with the P-11. Booster sharing with a P-11 might impose a 500-mile orbit on POPPY which is a disadvantage as it is desirable to go beyond 500 miles to avoid debris at that altitude. POPPY and P-11 cannot go retrograde on an Agena due to weight limitations.

ACTION: SOC will take action on the retrograde/prograde question.

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(1) NSG

(a) [] reported considerable activity from the [] (SA-6) emitter in the UAR. On 10 June five intercept locations were reported within the []. During the following five-day period a total of 15 intercept locations were reported, 80% within ten miles of the []. To date, a total of 57 intercepts of the [] emitter have been made in the UAR.

(b) Project LEMONWOOD was established 10-21 June in support of the SORS requirement for timely reporting of the Soviet multiforce exercise, nicknamed "YUG." The area of reporting was in Southwestern USSR, covering most of the Black Sea and the area due north to latitude of 52 degrees. During this reporting period 32 shipborne locations were reported, 11 of which were identified with specific hull numbers. A majority of these were reported within one hour and 45 minutes after intercept. Eighteen land-based emitters were intercepted by POPPY, the majority from []

[] The majority of these reports were sent five hours after intercept. [] reported seven shipborne locations and identified the Kynda CLGM 853 East of Crimea near the Kerch Straits. Activity was reported both South and West of Sevastopol, possibly associated with ASW operations. On 15 June, exercise "YUG" escalated to nuclear warfare, with simulated attacks against Kiev and Carpathian military districts. During 15-16 June POPPY intercepted five of the eight [] locations.

(c) On 15 June, the U. S. launched a photo satellite with a large radar cross section, hoping to stimulate Soviet antiballistic and antisatellite systems. Project GOLDSMITH was established to provide multi-sensor ELINT collection in coincidence with the photo satellite for a period of 24 hours after launch. POPPY was in coincidence with the photo bird on six revs, with [] participating. There has been no significant report of activity. However, [] intercepted a DOG HOUSE emitter with bore sight of 330 degrees on coincident Rev 20569. In addition, [] intercepted an unusual number (four) of [] emitters active simultaneously during 71060 orbit 8679. [] reported the [] active at 1212Z on the 16th, but this activity was not in coincidence with the photo satellite.

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(d) Ocean Surveillance: During the period 24 May to 21 June there were 177 Soviet fleet shipborne locations reported by POPPY of which 91 were identified as to specific hull number. Soviet naval activity in the Mediterranean was at the highest level this year in conjunction with exercise "YUG." Shortly before the exercise commenced, there was a lull of shipborne radar activity. During the exercise, of 10 major combatants operating in the Mediterranean, 7 were intercepted regularly by POPPY and reported in the SELOR Series, with a total of 52 intercepts. Activity South of Crete was especially high, reflecting ASW and AAW operations. Twelve intercepts were made off the East Crete anchorage, with identification of the Kynda CLGM 842, Kashin DLG 534, and possible identification of the CHG 857 (Leningrad). The Leningrad was definitely intercepted as it transited the Bosphorus Straits on 19 June and intercepted on three occasions while enroute to Sevastopol. Activity in the Mediterranean immediately after exercise "YUG" dropped off sharply. Kashin DLG 534 at the East Crete anchorage was the only shipborne radar activity in the Eastern Basin intercepted regularly by POPPY. Otherwise, Soviet naval activity has been normal. In the Baltic, 2 of the 9 units were identified; of the Northern Fleet, 4 of 11 units were identified; and in the Pacific 5 of the 12 units were identified off Vladivostok in the Sea of Japan. Off the Straits of Gibraltar, Kashin DLG 504 continues its normal patrolling.

(e) Recent reports from [redacted] indicate possible POPPY intercepts of the [redacted]

[redacted] intercepts and [redacted] made one intercept.

(2) SOC - Why does it take longer to report on a shore radar than on a ship radar? NSG - Density of signals at sea as compared to density on land gives a greater number of signals to be processed. The lengthy list of shore emitters should be cut down if possible. In addition, there is insufficient advanced warning on these special tasks. The system can respond quickly in an emergency but if an upcoming task can be anticipated three days notice is desirable.

d. POPPY Processing Highlights

(1) NSA - Processing is normal at present. There is nothing significant to report.

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f. Trip to [REDACTED]

(1) NSA - The purpose of the visit to [REDACTED] was to study the interface of [REDACTED] and COMSIXTHFLT.

(a) At [REDACTED]

(1) The HRB Singer software seems to give the ground site an excellent processing tool for [REDACTED] machine analysis.

(2) The possibility of reusing tapes is being explored.

(3) More complete software documentation is desired and an advanced look at new concepts coming down the line would be appreciated.

(4) An OPS COMM circuit is needed between [REDACTED] to provide a [REDACTED] reaction capability. This will be the subject of a separate meeting.

ACTION: The Program Manager will arrange a meeting on this subject.

(5) As the Soviets don't seem to pass ephemeris information on POPPY as they do on other spacecraft, it might possibly produce an interesting Soviet reaction if the POPPY TM was turned off for awhile. Possibly TM could be turned off at all times except for the [REDACTED] readout.

(6) The SOI list needs continued work to make it more meaningful.

ACTION: NSG and NSA will work on the SOI list.

(7) It takes 32 days via ARFCOS to get [REDACTED] tapes to NSA.

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(8) [] is concerned about the need for more ground equipment and personnel to support Mission 7107.

ACTION: NSA, NSG, and NRL will investigate this problem.

(b) At [] COMSIXTHFLT

(1) COMSIXTHFLT is very pleased with the [] system and is particularly pleased with the inputs from POPPY. SIXTHFLT ships are repositioned in response to Soviet ship movements detected in POPPY reports.

(2) COMSIXTHFLT desires more out of POPPY or any of the other overhead reconnaissance systems.

(3) COMSIXTHFLT is highly interested in the J-Band location capability.

g. [] Technical Evaluation

(1) NSG - The [] computer is installed and operating with no apparent problems. The system is in a technical reporting phase at present and will be ready to go into full operation about 1 July upon approval by NSA.

ACTION: NSA and NSG will work out the operational date.

(2) NSG - [] will have a continuing need for technical support from NRL. The Program Director has budgeted for this support.

h. Management Agreement

(1) Program Manager - The Management Agreement has gone to Dr. McLucas for approval; NRO will get the other required signatures. When the Management Agreement has been signed by all parties, specific responsibilities will be promulgated by the Program Manager's office.

i. Site Sensitive Tasking

(1) SOC - The SOC has recently promulgated a message discussing recommendations for improved tasking. The SOC will soon contact various activities for assistance in implementing many of the suggestions.

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1. [REDACTED]

2. The next TOG meeting will be at NRL on 22 July 1971 at 0930 in Room 200D of Building 56.

Robert K. Geiger
ROBERT K. GEIGER
Captain, USN
Director, Program C

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LIST OF ATTENDEES

(24 June 1971 TOG Meeting)

Captain Geiger
[redacted]

Commander Glaeser

Mr. Lorenzen

Mr. Wilhelm

Mr. Hammarstrom

Mr. Kennedy
[redacted]Mr. Clarke
[redacted]

[redacted]

Commander McGraw

LtJG Morgan

ENS Kellogg

Program Director

Program Director's Staff

Program Director's Staff

NRL

NRL

NRL

NRO (SOC)

NRO (SOC)

CIA

CIA

NSA

NSA

NSA

NSG

NSG

NSG

ENCLOSURE (1)

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CONTROL SYSTEMTOG AGENDA0930, 24 JUNE 1971ROOM BD-944, PENTAGON

1. Ocean Surveillance Presentation (NRL)
2. 7105/6/7 Status (NRL)
3. 7105/6 Operational Report (NSG)
4. POPPY Processing Highlights (NSA)
5. [] Briefing (NSA)
6. [] (NSA)
7. [] Technical Evaluation (NSG)
8. Management Agreement (P/M)
9. Site Sensitive Tasking (NRO-SOC)

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ENCLOSURE (2)

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1. Ocean Surveillance Presentation (NRL)
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5. [] Briefing (NSA)
6. [] (NSA)
7. [] Technical Evaluation (NSG)
8. Management Agreement (P/M)
9. Site Sensitive Tasking (NRO-SOC)

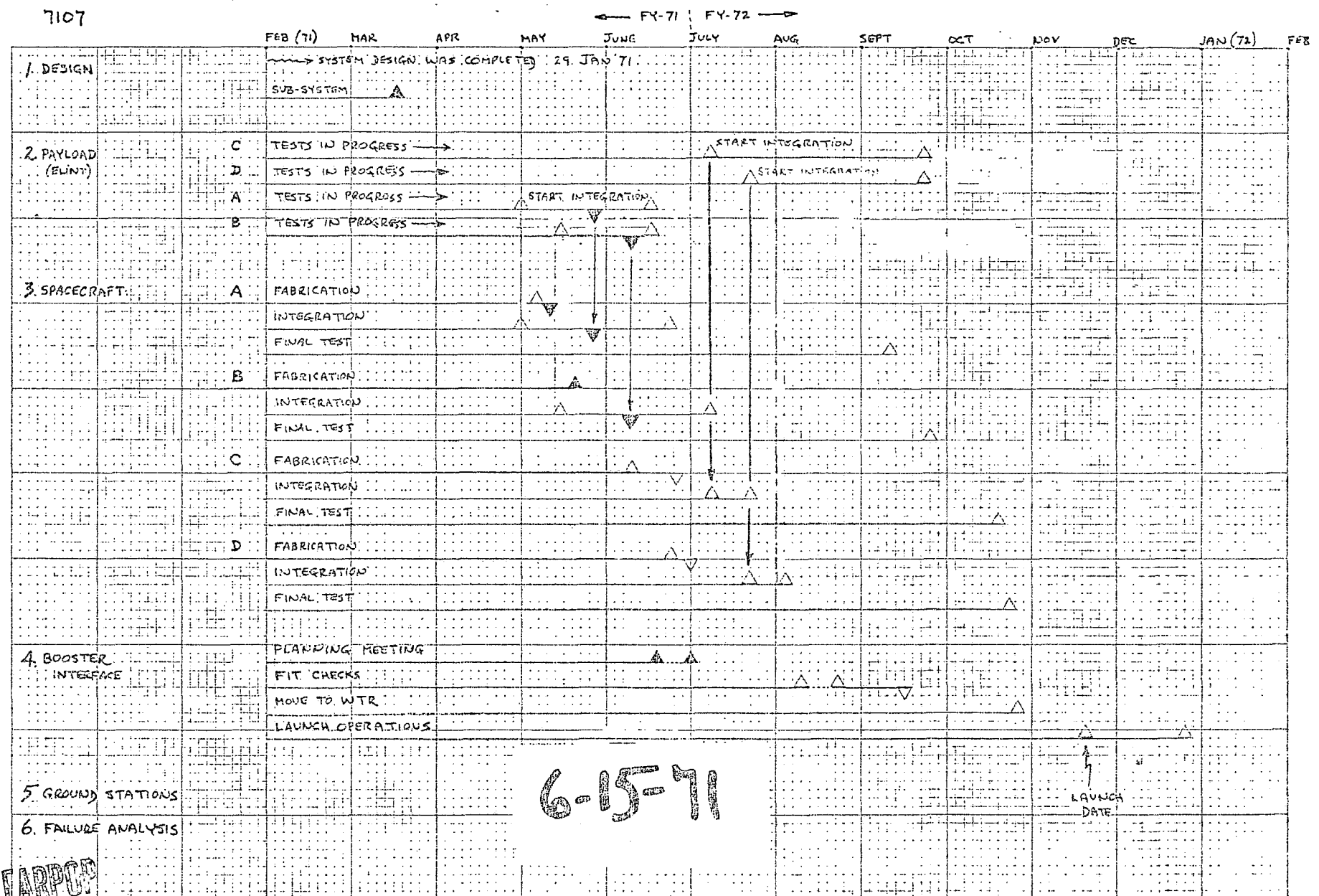
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ENCLOSURE (2)

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7107



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SCHEDULED EVENT

COMPLETED EVENT

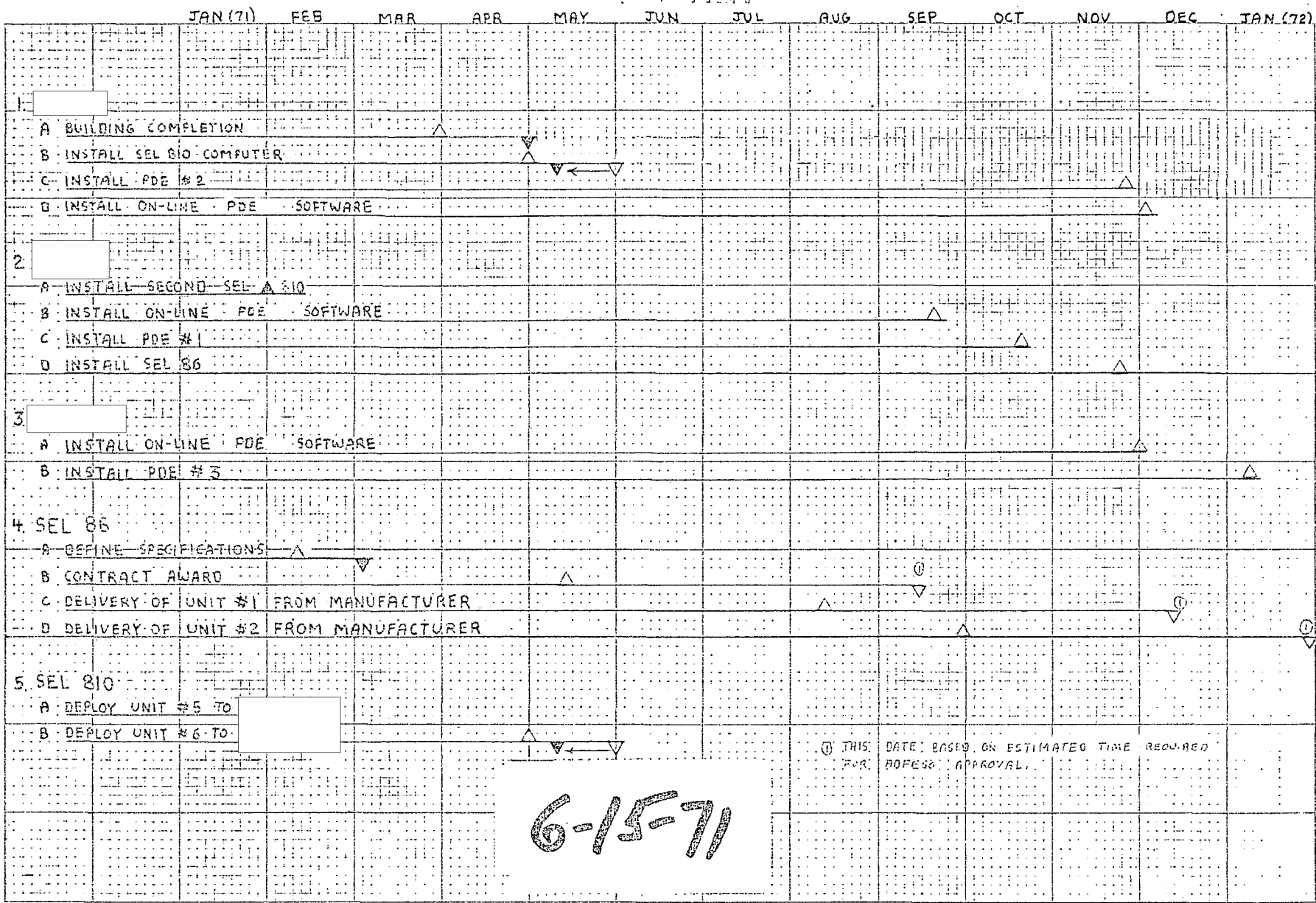
RESCHEDULED EVENT

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ENCLOSURE (3)

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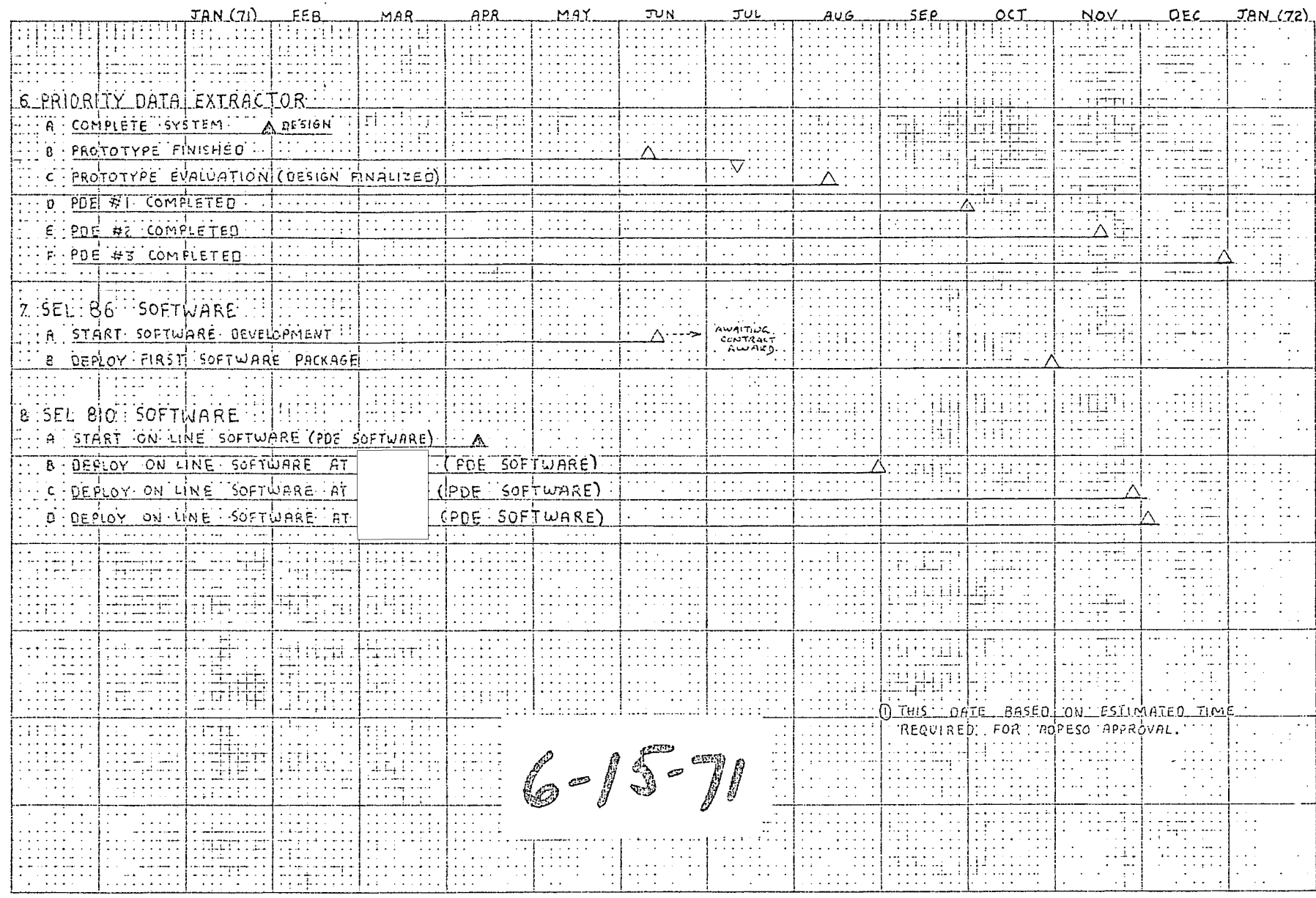
GROUND SITE AND AUGMENTATION SCHEDULE



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Approved for Release: 2024/06/13 C05026290

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	FY71	FY72	FY73
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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. BILLETS			
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 BILLETS			
3. SCHEDULE FOR ISCM INSPECTION			
4. SUBMIT FOR BUILDING ACCREDITATION			

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