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20 OCT 1964

MEMORANDUM FOR GENERAL STEWART

SUBJECT: Transmittal of P-11 Security Plans

1. Reference our presentation to SAFUS on 17 September 64 proposing the transfer of P-11 operation responsibilities from the SCF to SAC.

2. In response to the Secretary's request at the presentation, the following are forwarded:

a. Detailed Security Plan for P-11 (Byeman)

b. The Security Tab (Secret) to the Preliminary Development Plan left with you on 17 September.

2 Atchs

1. P-11 Security Plan

2. Tab 7, Security

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John L. Martin, Jr.

JOHN L. MARTIN, JR.
Brig Gen, USAF
Vice Director

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Project 417

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REGRADING; DOD DIR 5200.10
DOES NOT APPLY

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DETAIL SECURITY PLAN
FOR
P-11 OPERATION
WITH
SAC SATELLITE READOUT STATIONS

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P-11 SECURITY PLAN

GENERAL

The purpose of this plan is to define the security procedures which are to be employed upon the transfer of P-11 on-orbit operations from the Satellite Control Facility (SCF) network to the SAC satellite readout station network. Operational use of the SAC network will be shared by P-417 and P-11; however, the plan contained in this document is concerned with only P-11 security.

At the current time the true P-11 mission has been concealed with a cover story that the P-11 is a scientific space research vehicle. This story has been substantiated by allowing the vehicle (without any reference to payload) to be treated unclassified, and by having it designed and built in the Research Payload Laboratory (RPL) of IMSC; an organization which is actively producing scientific payloads. The P-11 is completely separated from the payload until immediately before it is mated to the Agena; only then is the payload added and tested. During the entire operation, knowledge of the true nature of the payload is restricted to Earpop clearance.

On-orbit operations in the SCF network are conducted in a similar manner. To the majority of the people the P-11 is a scientific research vehicle. Only a limited number of people at the Satellite Test Center (STC) are briefed. No information concerning the purpose of each launch is given at the STC nor to anyone at the tracking stations. Occasionally, to enforce the cover story, a true scientific payload is launched and the nature of that payload is "leaked".

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When orbit control of the P-11 is transferred to the SAC network, there will be no change in the cover story and only a minimum of changes to other security procedures. A very small group of SAC personnel will be cleared Earpop and aware of the true mission of the P-11. The remainder will be told that the P-11 is a research vehicle. The lack of information about the exact nature of the payload will be attributive to the sensitive nature of research which includes scientific data gathering, state-of-art advancement, and testing of new hardware and concepts. Personnel at the STC who are currently working on the P-11 will be transferred to other positions as the P-11 load decreases. They will be told that due to the heavy load in the STC the P-11 operation is being moved to a new set of stations outside of the SCF network. The fact that the stations are operated by SAC will be Confidential.

The SAC satellite readout network is operated by the 4000th Support Group (SAC) located at Offutt AFB, Nebraska. It is composed of a Communication Control Center (CCC) located at Offutt AFB, and two readout stations located at Loring AFB Maine (LRS) and Fairchild AFB Washington (FRS).

At [] there are three organizations directly involved with the P-11; the IMSC Data Processor (the group that integrates and controls P-11 payload development) located in [] the IMSC Technical Advisor (RPL) located in building 522, []

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[] To all outward

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appearances the Research Payload Laboratory in building 522 is the only Lockheed department that has interest in P-11. [redacted]

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[redacted]
[redacted]

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PROCEDURES & COMMUNICATIONS

Functional Relationships:

The functional ties between the various agencies during P-11 on-orbit operations are depicted on the chart on the following page. The relationships between the tasking and using, and the coordinating levels are identical to those presently in use. The ties to the control and operating levels have only been changed to reflect the substitution of Spacetrack and the SAC network for the SCF network. The P-11 and P-417 offices are not shown on the chart because they are not in the direct on-orbit operational line.

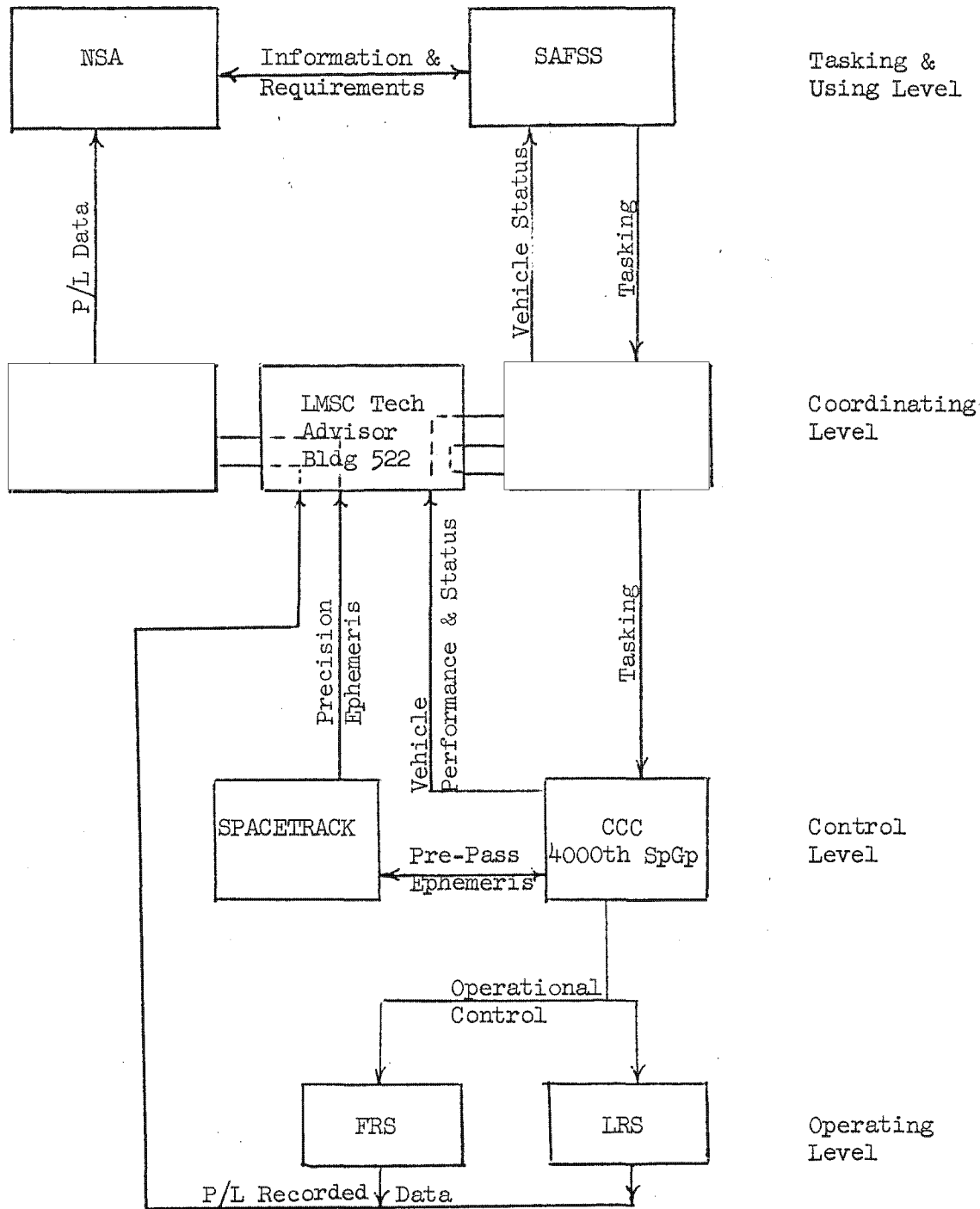
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FUNCTIONAL RELATIONSHIPS



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FIGURE 1

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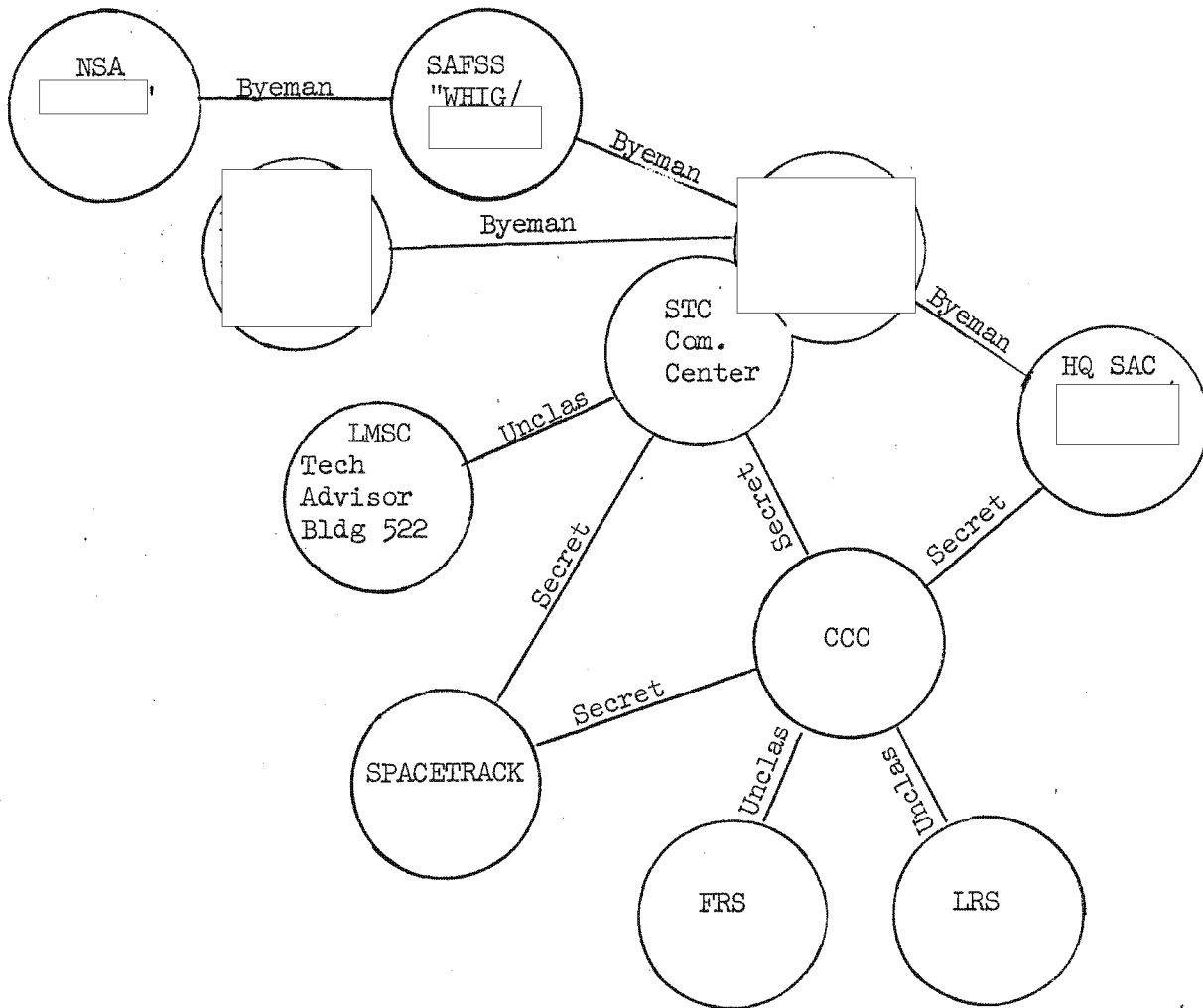
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Electronic Communication Network:

The electronic communication network to be employed in support of P-11 operations is depicted on the chart below. The highest security level which can be transmitted on each line is indicated. All lines except the one from building 522 to the [] are in existence. This new line is required to allow the IMSC technical advisor to have contact with the CCC for immediate post-pass vehicle status data and for mal-function analysis.

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FIGURE 2

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Security Levels:

The following levels of security will apply between the various interested agencies:

<u>Agencies</u>	<u>Relationship</u>	<u>Highest Security Level</u>	
SAFSP & SAFSS	Unclassified	Top Secret/Special Handling	
SAFSP & NSA	Secret/Special Handling	Top Secret/Special Handling	
SAFSP & Spacetrack	Unclassified	Secret	
P-11 & P-417	Secret	Secret	
P-11 & 4000th Sup. Gp. (SAC)	Confidential	Secret	
P-417 & 4000th Sup. Gp. (SAC)	Confidential	Secret	
LMSC RPL & 4000th Sup. Gp. (SAC)	Confidential	Secret	
LMSC RPL & Spacetrack	Unclassified	Secret	
LMSC RPL & Readout Stations	Confidential	Secret	
LMSC RPL & <div style="border: 1px solid black; width: 200px; height: 30px; margin: 5px 0;"></div>	Secret/Special Handling	Secret/Special Handling	25X1
4000th Sup. Gp. (SAC)	None	None	
<div style="border: 1px solid black; width: 200px; height: 30px; margin: 5px 0;"></div>	Secret/Special Handling	Top Secret/Special Handling	25X1
NSA			
4000th Sup. Gp. & Spacetrack	Confidential	Secret	
6594th ATW & 4000th Sup. Gp. (SAC)	Unclassified	Secret	

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PROCEDURES

Listed below are the procedures and classifications which are to be employed for each phase of a P-11 on-orbit operation.

Tasking:

1. Payload tasking from SAFSS [] via Byeman teletype.
2. Coordination of tasking between [] and the LMSC technical advisor to verify vehicle feasibility []
[]
3. Payload tasking from [] to the CCC via Secret teletype.
4. Complete vehicle tasking from the CCC to Readout stations via unclassified teletype and/or voice line.

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Payload Data:

1. One copy of payload data will be pre-detection recorded at the readout stations. (The recording is from the IF strip of the receiver and is unintelligible without further frequency reduction.) A handling and control system will be established to insure that payload data tapes are controlled and accounted for with the same degree of accuracy and care as Secret material.
2. The payload data magnetic tapes will be sent to the 6594th ATW via registered mail. They will be picked up at the 6594th ATW by the LMSC technical advisor.

3. The LMSC technical advisor will give the tapes []
[]

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4. After preliminary data reduction and the making of duplicate tapes the [redacted] will forward the tapes to NSA and other users via Byeman procedures.

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Pre-Pass Ephemeris:

1. The CCC will request pre-pass ephemeris data from Spacetrack via Confidential mail or teletype.

2. The pre-pass ephemeris will be sent from Spacetrack to the CCC via Confidential mail or teletype.

Post-Pass Precision Ephemeris:

1. The post-pass precision ephemeris used for payload reduction will be requested from Spacetrack by SP via unclassified teletype.

2. The post-pass precision ephemeris will be sent from Spacetrack to the LMSC technical advisor via Confidential mail or teletype.

3. LMSC technical advisor [redacted]

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4. The precision ephemeris will be forwarded, together with the payload data tapes, to NSA and other users via Byeman Procedures.

Pre-Pass Acquisition Data:

1. The CCC will prepare and furnish to the LMSC technical advisor pre-pass acquisition data via Secret teletype [redacted]

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2. The LMSC technical advisor will forward acquisition tables to SAFSS through [redacted] via Byeman teletype.

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Vehicle Performance and Status:

1. Real time and post-pass vehicle status and control data will

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be sent from the readout stations to the CCC via unclassified teletype and voice lines.

2. Post-pass vehicle performance and status telemetry data furnished by the CCC to the IMSC technical advisor will be sent via unclassified teletype and/or voice through the STC switch.

3. Summary reports of passes furnished by the CCC to the IMSC technical advisor will be sent to a 6594th ATW address via unclassified mail.

4. Summaries of vehicle performance and status will be furnished by the IMSC technical advisor to SAFSS through via byeman teletype.

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Readout Station Control:

1. The readout stations will be furnished pre-pass information and be controlled during each pass by the CCC via unclassified teletype and voice line.

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PERSONNEL

All SAC personnel in the 4000th Support Group (SAC) who are involved in the support of P-11 on-orbit operations will receive security briefings stating that the P-11 is a sensitive scientific research vehicle which is to be treated as Secret. A very limited few in the CCC will receive Earpop briefings. No one at the readout stations will be Earpop briefed except the Station Commanders.

All personnel at the CCC and at the radar stations have had background investigations.

EQUIPMENT & SPACE

No new equipment or closed areas will have to be provided for security purposes. An area, cleared for Secret, will be provided at the readout stations for the handling and preparation for mailing of data magnetic tapes. Secret storage space will be provided at the readout stations for magnetic tapes prior to their shipment.

SECRET SECURITY PLAN

Attached to this plan is a copy of the security Tab of the "Plan for the support of P-11 by the 417 System". This will be the security guide for the 417 Program Office and the 4000th Support Group (SAC).

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TAB NO. 7

SECURITY

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TAB NO. 7

SECURITY

P-11 SECURITY GUIDES

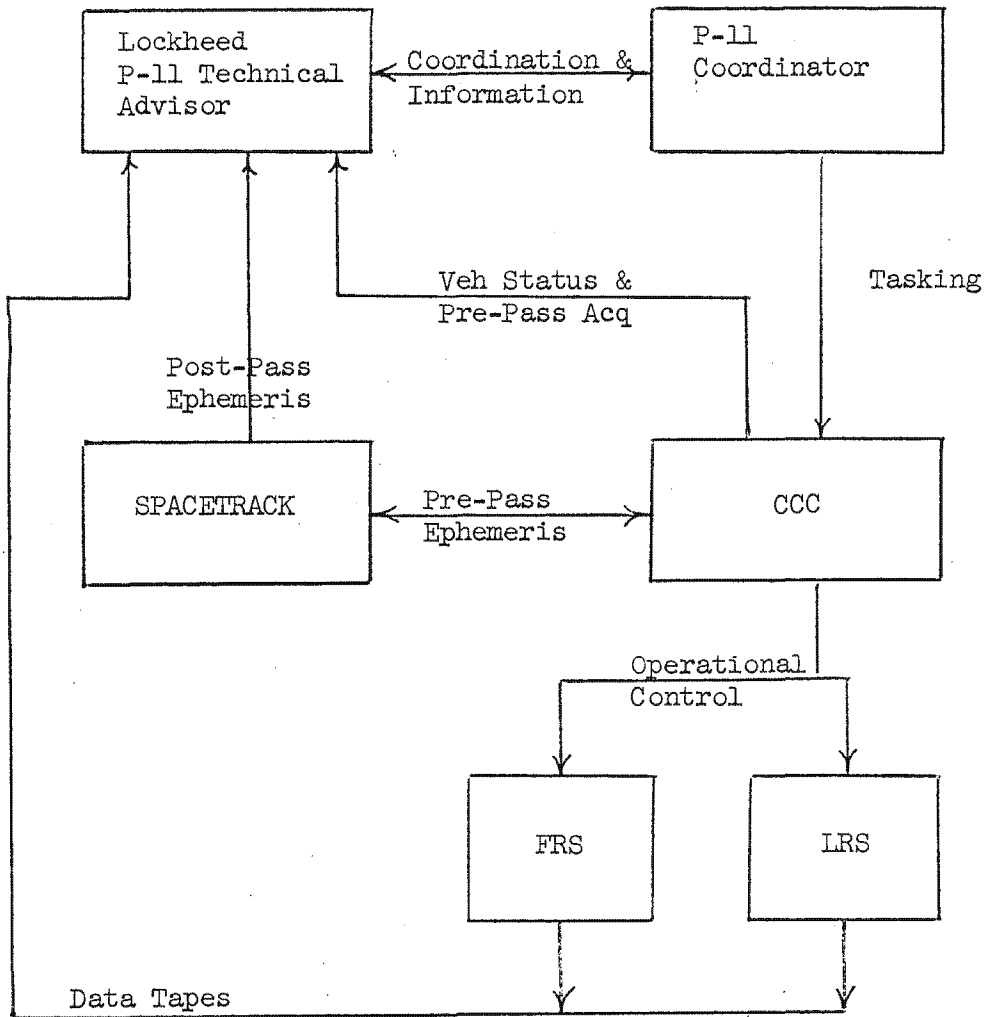
The purpose of this section is to define the security guides and procedures to be employed for the P-11.

The design and performance of the P-11 vehicle and the fact that it is carrying scientific data gathering and experimental payloads is unclassified. The P-11's experimental telemetry data is also unclassified. However, due to the valuable and advanced nature of some of the experiments, the recorded telemetry data must be accurately accounted for and carefully controlled. The exact nature of each experiment is Secret with specific need-to-know required.

The functional ties between the various agencies during P-11 on-orbit operations are depicted on the chart on the following page. The P-11 and P-417 offices are not shown on the chart because they are not in the direct on-orbit operational line.

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FUNCTIONAL RELATIONSHIPS

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~~SECRET~~Security Levels:

The following security levels will apply between the various interested agencies:

<u>Agencies</u>	<u>Relationship</u>	<u>Highest Security Level</u>
P-11 Coordinator & Spacetrack	Unclassified	Secret
P-11 & P-417	Secret	Secret
P-11 & 4000th Spt Gp	Confidential	Secret
Lockheed & 4000th Spt Gp	Confidential	Secret
Lockheed & Readout Stations	Confidential	Secret
Lockheed & Spacetrack	Unclassified	Secret
4000th Spt Gp & Spacetrack	Confidential	Secret
6594th ATW & 4000th Spt Gp	Unclassified	Secret

PROCEDURES AND CLASSIFICATIONS

Listed below are the procedures and classifications which are to be employed for each phase of a P-11 on-orbit operation.

Tasking:

1. Payload tasking from P-11 Coordinator at Sunnyvale to the CCC via Secret teletype.

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2. Complete vehicle tasking from the CCC to the Readout Stations via unclassified teletype/voice line.

Experimental Data:

1. One copy of the P-11 experimental telemetry data will be pre-detection recorded (recorded from the IF strip of the receiver) at the readout stations. The recorded magnetic tape will be unclassified but must be accurately accounted for and carefully controlled.

2. The experimental telemetry data magnetic tape will be sent to the 6594th ATW via registered mail. It will be picked up from the 6594th ATW by the IMSC technical advisor.

Pre-Pass Ephemeris:

1. The CCC will request pre-pass ephemeris data from Spacetrack via Confidential mail or teletype.

2. The pre-pass ephemeris will be sent from Spacetrack to the CCC via Confidential mail or teletype.

Post-Pass Ephemeris:

1. The post-pass ephemeris will be requested from Spacetrack by the P-11 Coordinator via unclassified teletype.

2. The post-pass ephemeris will be sent from Spacetrack to Lockheed via unclassified mail or teletype.

Pre-Pass Acquisition Data:

1. The CCC will prepare and furnish to the P-11 Coordinator pre-pass acquisition data via Secret teletype.

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~~SECRET~~Vehicle Performance and Status:

1. Vehicle status data received via P-11 telemetry links will be discriminated, decommutated, and recorded at the readout stations.

It will be unclassified.

2. Real time and post-pass vehicle status and control data will be sent from the readout stations to the CCC via unclassified teletype and voice lines.

2. Post-pass vehicle performance and status telemetry furnished by the CCC to the IMSC technical advisor will be sent via unclassified teletype and/or voice through the STC switch.

4. Summary reports of passes furnished by the CCC to the IMSC technical advisor will be sent to a 6594th ATW address via unclassified mail.

Readout Station Control:

1. The readout stations will be furnished pre-pass information and be controlled during each pass by the CCC via unclassified teletype and voice line.

PERSONNEL

Personnel of the 4000th Support Group (SAC) who are involved with P-11 on-orbit operations will receive security briefings on the contents of this plan. During these briefings, the extremely valuable nature of the P-11 experiments will be stressed.

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~~SECRET~~EQUIPMENT & SPACE

No new equipment will be required for security purposes. An area, cleared for Secret, will be required for the handling and preparation for mailing of data magnetic tapes. Secret storage space will be required at the readout stations for magnetic tapes prior to their shipment.

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