

BYE-55410-92

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Draft/

msh/13 Jan 69

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C/1#1

MEMORANDUM FOR THE CHAIRMAN, SORS

SUBJECT: Mission Description of SIGINT Mission 7106 (POPPY)

1. The mission description for Mission 7106 is forwarded as an attachment to this memorandum.
 - a. What system is designed to do.
 - b. Where it will do it.
 - c. In what frequency range.
 - d. In order to meet what requirement.
2.
 - a. Where it will be launched, when.
 - b. Type of orbit
 - c. Type of launch vehicle
 - d. Life time expectancy
 - e. Mission control/tracking stations and which will perform data handling, processing, evaluation and/or storage.
3.
 - a. Special features of satellite if different from past satellites.

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Control SystemMission Description of SIGINT Mission 7106 (POPPY)I Objective

The broad objective of the mission.

II Mission Performance Objectives

a. Primary objectives

1. Type of signal to be intercepted
2. Frequency range
3. Where or what target

b. Secondary objectives

Development of new techniques in reception, telemetry, collection
location, maneuvering, component life, data analyzing, etc.

III System Description - Satellite1. General

a. Receiver

b. Payload system

c. Ground data system

d. e. Characteristics - orbit, ~~whr~~, size, etc.

f. Gravity gradient stabilization

g. Microthrusters

Intercept System
Block Diagram

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2. Specific

- a. Intercept receiver antenna
- b. Telemetry antenna
- c. Intercept receiver(s)
- d. Tracking, telemetry and command subsystems
- e. Gravity gradient stabilization system
- f. Ancillary systems - micro thrusters

Pictorial Diagram
of Satellite

Block Diagram

Picture?

IV System Description - Mission Ground Station

1. General

- a. Functions
 - (1) Vehicle control and monitoring
 - (2) Intercept control and monitoring
 - (3) Payload data control and monitoring

Picture

2. Specific

- a. A review of the data handling procedures and other info as appropriate. Digitizers, etc.

Block Diagram
of Positions

- b.
- c. Communications and data flow.

Block diagram of
on line configuration

- (1) Requirement
- (2) Tasking
- (3) Collection
- (4) Analyzing
- (5) Consumer

Diagram of
data flow

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V Mission Profile

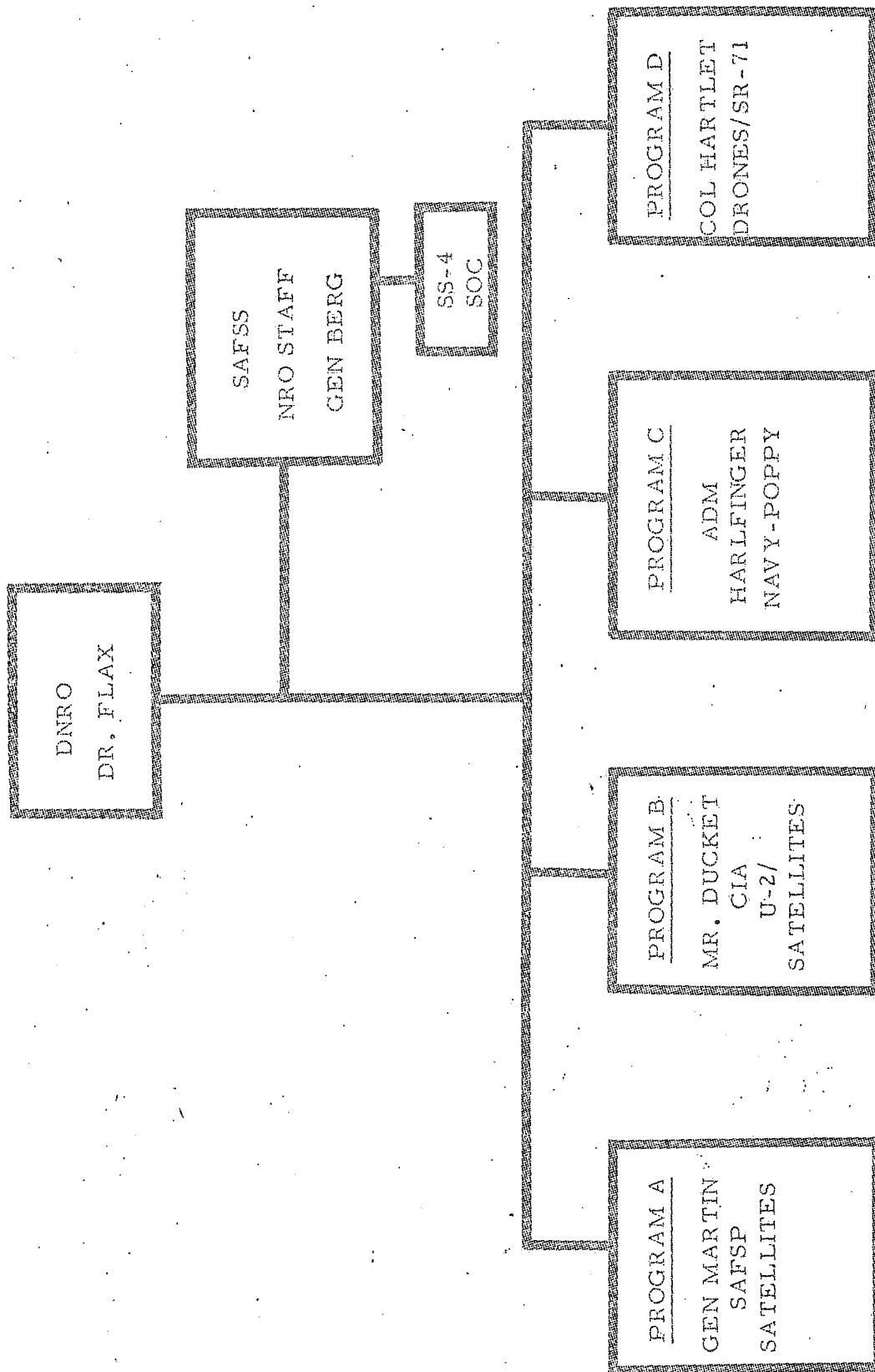
- a. Launch and injection phase
- b. Transition phase
- c. Mission environmental phase
- d. Mission positioning

Pictorial
representation

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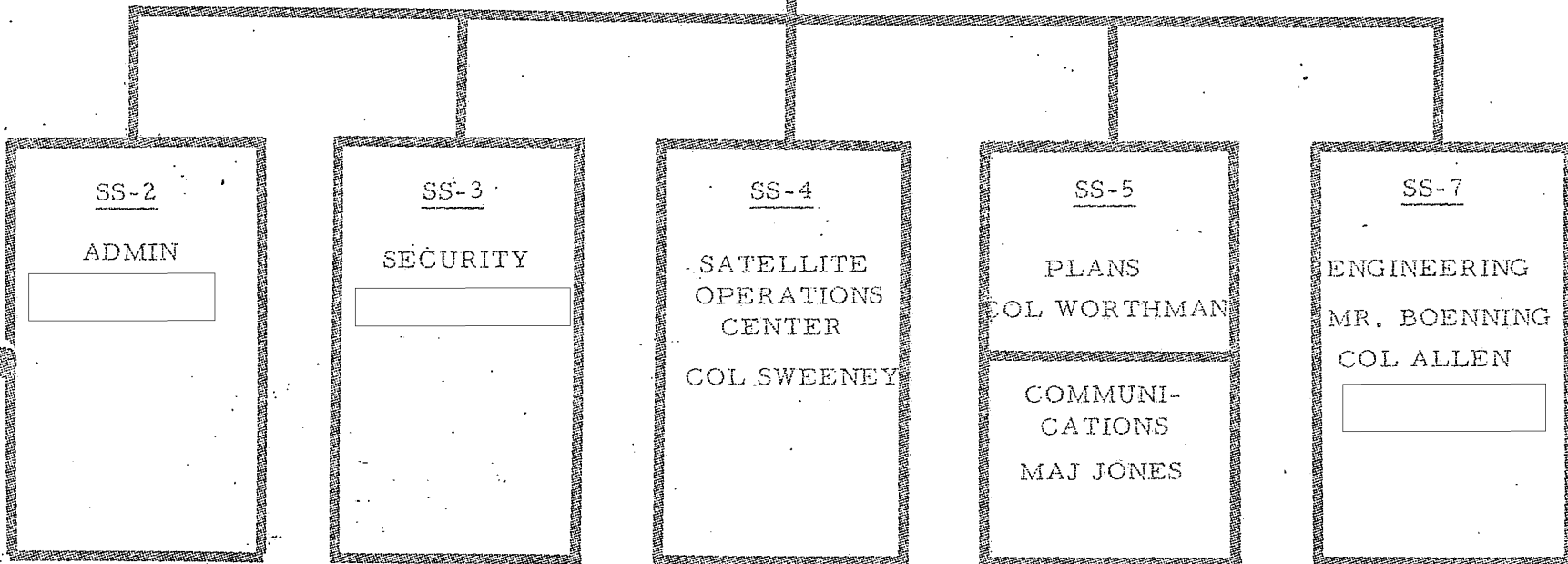


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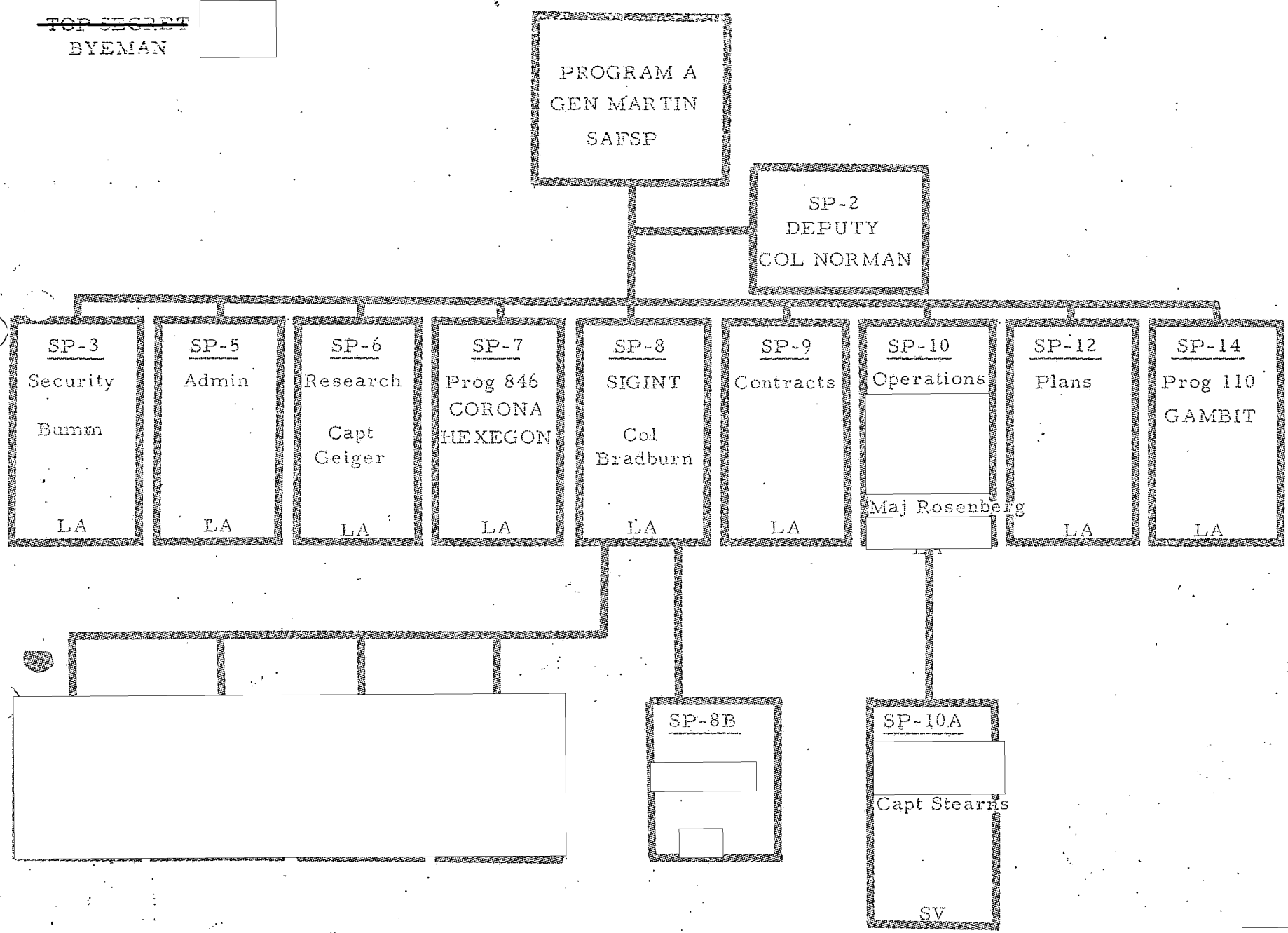
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