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COPY NO. 2

**SYSTEM SOURCE SELECTION BOARD
ORAL PRESENTATION
FOR THE
MANNED ORBITING LABORATORY SYSTEM**



(PROGRAM DEFINITION PHASE)

MAY 1965

**HEADQUARTERS
SPACE SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE**

**SPECIAL ACCESS REQUIRED
PROGRAM 632A**

THIS DOCUMENT CONTAINS INFORMATION AFFECTING
THE NATIONAL DEFENSE OF THE UNITED STATES
WITHIN THE MEANING OF THE ESPIONAGE LAWS,
TITLE 18 U.S.C., SECTION 793 AND 794. ITS TRANSMISSION
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EXCLUDED FROM AUTOMATIC
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DOES NOT APPLY

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CONTROL NO. SSG 65-22

DS
65-5685-A2

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SYSTEM SOURCE SELECTION BOARD FOR THE MANNED ORBITING LABORATORY

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE
NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEAN-
ING OF THE Espionage Laws, Title 18, U.S.C., SECTION 793
AND TITLE 18, U.S.C., SECTION 794, THE REVELATION OF
SECRET OR CONFIDENTIAL INFORMATION BY ANY AUTHORIZED BY
LAW.

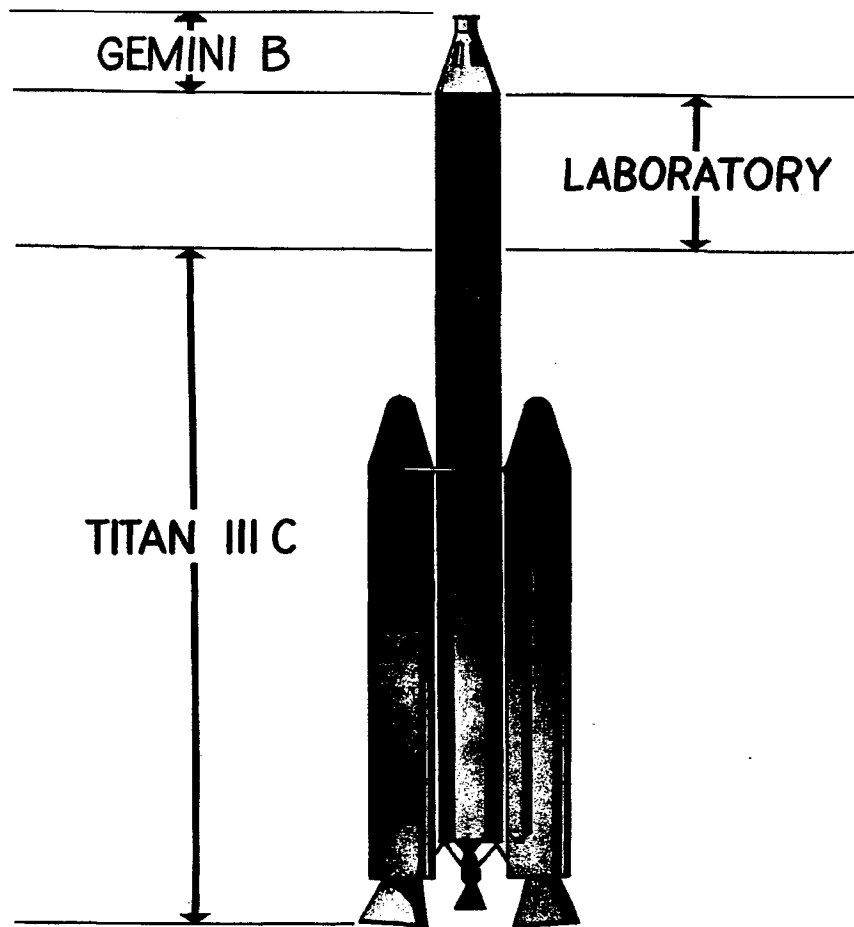
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FORM 652-A

556 65-22-9

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OUTLINE

I. TASK AND APPROACH TO PROBLEM

II. EVALUATION GROUP PROCEEDINGS AND RESULTS

III. SUMMARY OF BOARD FINDINGS

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SSSB TASK

*TO EVALUATE RESULTS OF
MOL PRELIMINARY DESIGN STUDIES*

AND

*TO RECOMMEND ONE CONTRACTOR FOR
MOL PROGRAM DEFINITION PHASE*

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BACKGROUND

- MOL SSSB ORIGINALLY ESTABLISHED PER
AFSC MESSAGE MSF 1-9-6-1, DATED 9 JUNE 1964, AND
SSD SPECIAL ORDER NO. M-290, DATED 31 AUGUST 1964

 - ORIGINAL BOARD CONVENED AT SSD DURING THE PERIODS:
 - 1-2 SEPTEMBER 1964
 - 29-30 SEPTEMBER 1964
 - 19-21 OCTOBER 1964

 - ACTIONS ACCOMPLISHED
 - REVIEWED DRAFT RFP
 - ESTABLISHED GENERAL & SPECIFIC CRITERIA
 - DEVELOPED BIDDER'S LIST
 - ORGANIZED & STAFFED EVALUATION GROUP
 - PREPARED EVALUATION CRITERIA
-

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MOL PROGRAM OBJECTIVES

(DR. BROWN MEMO - 4 JANUARY 1965)

● ***PRIMARY OBJECTIVES:***

- A. DEVELOPMENT OF TECHNOLOGY CONTRIBUTING TO IMPROVED MILITARY OBSERVATIONAL CAPABILITY - MANNED OR UNMANNED***
- B. DEVELOPMENT AND DEMONSTRATION OF MANNED ASSEMBLY AND SERVICE OF LARGE STRUCTURES IN ORBIT WITH POTENTIAL MILITARY APPLICATION***
- C. OTHER MANNED MILITARY EXPERIMENTATION***

● ***ADDITIONAL NATIONAL OBJECTIVES:***

- A. BASIC SCIENTIFIC AND GENERAL TECHNOLOGICAL MANNED EXPERIMENTATION***
- B. DEVELOPMENT AND DEMONSTRATION OF MANNED ASSEMBLY AND SERVICE OF LARGE NONMILITARY STRUCTURES IN ORBIT***
- C. BIOLOGICAL RESPONSES OF MAN IN ORBIT FOR 30 DAYS OR MORE***

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-14-2010 BY 60322 UCBAW/BJS/STP

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FORM 6.632-A

DC UNCLASSIFIED BY 60322 UCBAW/BJS/STP
INTERVALS NOT ALIGNED TO SCALE
UNCLASSIFIED BY 60322 UCBAW/BJS/STP

556 65-22-12

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DIRECTED ACTIONS

- FROM DR. BROWN'S MEMO TO SAFUS - 4 JANUARY 1965
 - A. DEFINE AN EXPERIMENTAL MILITARY PROGRAM WHICH PROVIDES FOR:
 - IMPROVED MILITARY OBSERVATIONAL CAPABILITY
 - DEVELOPMENT & DEMONSTRATION OF MANNED ASSEMBLY & SERVICE OF LARGE STRUCTURES IN ORBIT
 - B. DETERMINE ESSENTIAL VEHICLE CHARACTERISTICS REQUIRED TO ACCOMPLISH THE ABOVE
 - C. ASSESS PROPOSED SPECIFICATIONS OF THE GEMINI B PLUS LABORATORY CONFIGURATION, EMPLOYING LAUNCH CAPABILITIES OF TITAN III-C AGAINST NEEDS CITED ABOVE
 - D. EXAMINE APPROVED CONFIG'S OF THE APOLLO SYSTEM TO DETERMINE EXTENT TO WHICH ANY OF THESE COULD MEET MILITARY NEEDS IN A MORE EFFICIENT, LESS COSTLY OR MORE TIMELY FASHION
 - E. SUBMIT REVIEW BY 15 MAY 1965

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FORM 632-A SECURITY - ALL

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RECONSTITUTED MOL SSSB

- **BOARD RECONSTITUTED PER —**
 - AFSC MESSAGE SCG 13641 DATED 10 FEB 65**
 - AND SSD SPECIAL ORDER M-50, DATED 15 FEB 65**

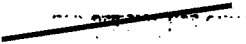
- **RECONSTITUTED BOARD CONVENED AT SSD —**
 - 29 JAN 65**
 - 10-12 FEB 65**
 - 17-19 FEB 65**
 - 23-24 FEB 65**

- **ACTIONS ACCOMPLISHED:**
 - REORGANIZED EVALUATION GROUP**
 - REVISED EVALUATION CRITERIA**
 - ESTABLISHED WEIGHTING FACTORS**
 - EVALUATED CONTRACTORS' PROPOSALS**
 - RECOMMENDED THREE CONTRACTORS**
FOR MOL PRELIMINARY DESIGN STUDY

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BIDDING CONTRACTORS

- **THE BOEING COMPANY**
 - **DOUGLAS AIRCRAFT COMPANY, INC.**
 - **GENERAL DYNAMICS CORPORATION**
 - **GENERAL ELECTRIC COMPANY**
 - **LOCKHEED CORPORATION**
 - **MARTIN COMPANY**
 - **NORTH AMERICAN AVIATION CORP.**
- 

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DESIGN STUDY CONTRACTORS

- *THE BOEING CO.*
- *DOUGLAS AIRCRAFT CO.*
- *GENERAL ELECTRIC CO.*
- *LOCKHEED MISSILES & SPACE CO.*

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CONTINUATION OF MOL SSSB

- CONTINUATION OF MOL SSSB DIRECTED PER AFSC CONFIDENTIAL TWX MSF-1 17935 DATED 26 MAR 65, AND SSG LETTER DATED 15 APR 65, SUBJECT: MOL SYSTEM SOURCE SELECTION BOARD

- BOARD RECONVENED AT SSD:

| | |
|--------------|--------------|
| 16 APR 65 | 13-14 MAY 65 |
| 23 APR 65 | 21 MAY 65 |
| 26-27 APR 65 | |

- ACTIONS ACCOMPLISHED:

- REORGANIZED EVALUATION GROUP
- REVISED EVALUATION CRITERIA
- ESTABLISHED WEIGHTING FACTORS
- EVALUATED PRELIMINARY DESIGN STUDIES
- RECOMMENDED ONE CONTRACTOR FOR PROJECT DEFINITION PHASE

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MOL SYSTEM SOURCE SELECTION BOARD MEMBERSHIP

BRIGADIER GENERAL JEWELL C. MAXWELL ——— CHAIRMAN

COLONEL RUSSELL A. BERG ————— MEMBER

COLONEL DAVID L. CARTER ————— MEMBER

COLONEL JAMES J. McMAHON* ————— MEMBER

MR. EUGENE S. SILBERMAN** ————— MEMBER

MAJOR JULIAN E. JAKES ————— RECORDER
















*VICE COLONEL RODNEY NUDENBERG

**VICE MR. CLAUDE T. GIBSON

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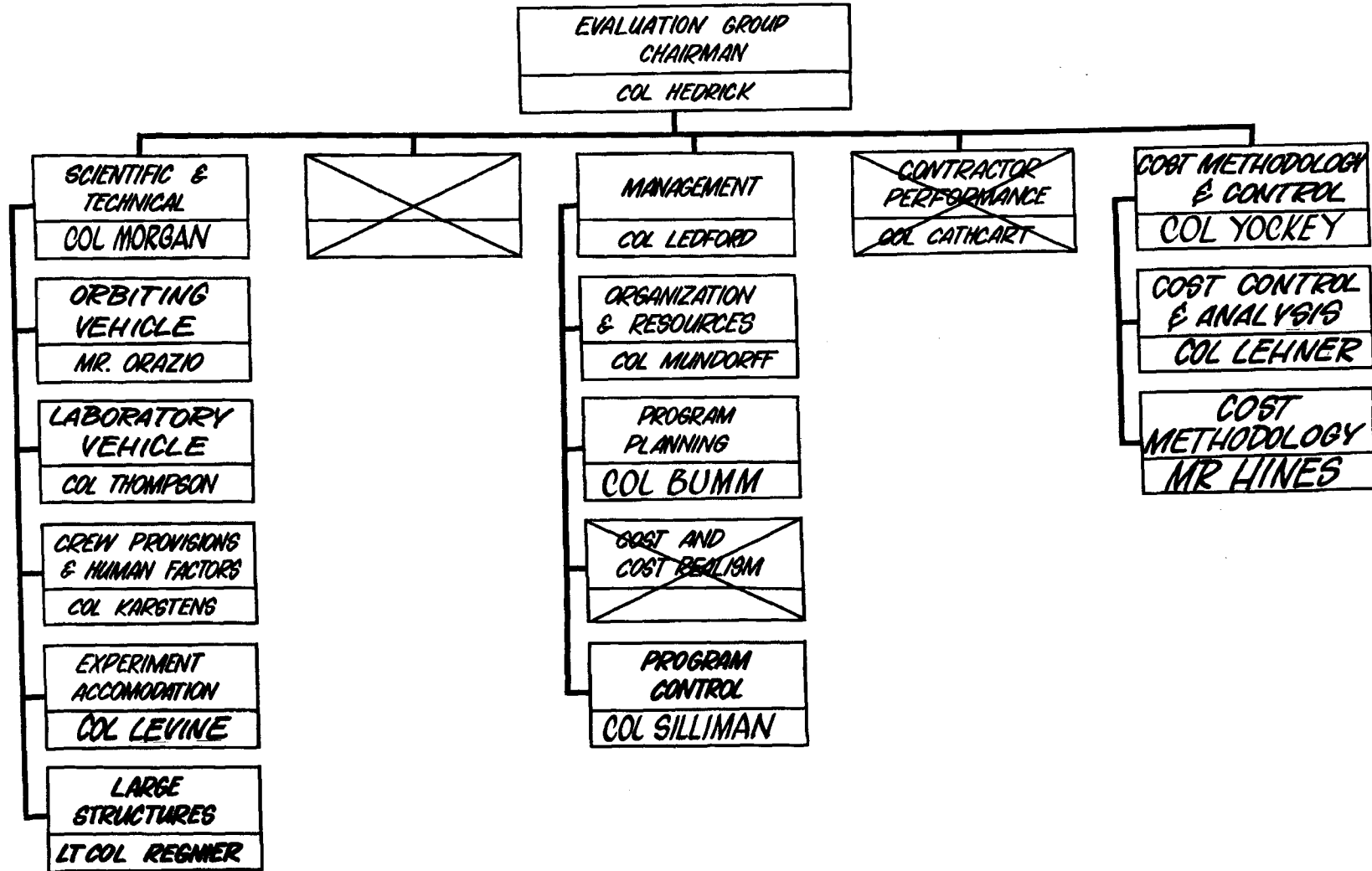
MOL SSSB SCHEDULE

1965

| 11-17 APRIL | 18-24 APRIL | 25 APR-1 MAY | 2-8 MAY | 9-15 MAY | 16-22 MAY | 23-29 MAY | 30 MAY 5 JUNE |
|--|--|---|---|---|---|--|---|
|  16 | SSSB RECONVENED | | | | | | |
| |  22 SSSB BRIEFING TO SAFUS | | | | | | |
| |  23 EVAL GROUP WEIGHTS TO SSSB | | | | | | |
| | |  30 DESIGN STUDIES RECEIVED | | | | | |
| | |  30 |  8 SPO REVIEW OF DESIGN STUDIES | | | | |
| | | |  10 EVAL GROUP CONVENED | | | | |
| | | |  13 |  14 CONTRACTOR ORAL PRESENTATIONS | | | |
| | | | | |  21 EVAL GROUP REPORT TO SSSB | | |
| | | | | | PREPARE FINAL REPORT |  24 | |
| | | | | | RECOMMENDATION TO SSD COMMANDER |  25 | |
| | | | | | RECOMMENDATION TO AFSC COMMANDER |  26 | |
| | | | | | RECOMMENDATION TO AIR COUNCIL |  27 | |
| | | | | | RECOMMENDATION TO MOL POLICY COMMITTEE | |  1 |

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MOL EVALUATION GROUP ORGANIZATION (REVISION 2)



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SPECIAL ASPECTS

- **DEVIATION FROM STANDARD BOARD COMPOSITION**
- **CONTINUATION FROM PREVIOUS BOARD ACTIVITIES**
- **CONCURRENT USE OF REPORTS FOR PREPARATION
OF MOL PTDP & SOURCE SELECTION**
- **RELATED EFFORT**
- **SCHEDULE**

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*EVALUATION GROUP
PROCEEDINGS
AND RESULTS*

~~SECRET~~

MOL OBJECTIVES

(PER WS)

- DEVELOP TECHNIQUES TO IMPROVE CAPABILITIES FOR MANNED AND UNMANNED OPERATIONS OF MILITARY SIGNIFICANCE.
TO INCLUDE INTERMEDIATE STEPS TOWARD OPERATIONAL SVS.
- DEVELOP AND DEMONSTRATE -
 - MANNED ASSEMBLY
 - SERVICE
 - TEST OF LARGE STRUCTURES (TELESCOPES AND ANTENNAE) FOR POTENTIAL MILITARY USE.
- CONDUCT OTHER MANNED MILITARY EXPERIMENTS AS LISTED.
- ACCOMPLISH KEY SCIENTIFIC EARTH-ORBIT EXPERIMENTS OF NATIONAL IMPORTANCE.

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SSG 65-22-1

BASIS OF EVALUATION

(SSHKM LETTER OF 8 APR. 1965)

● **TECHNICAL**

*UNDERSTANDING OF THE PROBLEM
TECHNICAL APPROACH
COMPLIANCE WITH REQUIREMENTS
SPECIAL FACTORS — UNIQUE IDEAS*

○ **MANAGEMENT**

*OVER-ALL MANAGEMENT APPROACH
RESOURCES & ORGANIZATION
INTEGRATION PLANNING
PROGRAM PLANNING
SCHEDULING
MANAGEMENT & FINANCIAL CONTROLS*

● **COST**

*REALISTIC COST ESTIMATES
TOTAL PROGRAM COSTS
REALISTIC BUDGETING
SUPPORTING DATA*

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CONTRACTOR FINAL REPORT ORGANIZATION

(PER PCO LTR OF 8 APR 65)

VOL I - TECHNICAL

TASK I - LARGE STRUCTURES

TASK II - ORBITING VEHICLE ANALYSIS

TASK III - LABORATORY VEHICLE ANALYSIS

MAJOR ELEMENTS AND SUBSYSTEMS

CREW PROVISIONS AND HUMAN FACTORS

TASK IV - EXPERIMENTS ACCOMMODATION

VOL II - PRELIMINARY PROGRAM PLAN - TASK II LESS COST

VOL III - COST DATA

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SSSB EVALUATION CRITERIA

● GENERAL

- *CORRECTION POTENTIAL*

● TECHNICAL

● *SYSTEM ANALYSIS*

- *FLEXIBILITY*
- *GROWTH*
- *INTERFACES*
- *INTEGRATION*

● *CREW CONSIDERATIONS*

- *SUSTENANCE*
- *CREW INTEGRATION*
- *HEALTH & SAFETY*
- *E. V. CAPABILITY*
- *ESCAPE*

● *VEHICLE ELEMENTS*

- *STRUCTURAL INTEGRITY*
- *DYNAMICS*
- *SUB-SYSTEM INTEGRATION*

● *EXPERIMENTS ACCOMMODATION*

- *FLEXIBILITY*

● *LARGE STRUCTURES*

- *STRUCTURAL INTEGRITY*
- *DYNAMICS*
- *TEST, CHECKOUT & SERVICING*

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SSSB EVALUATION CRITERIA (CONT'D)

● MANAGEMENT

● ORGANIZATION & RESOURCES

- PROGRAM ORGANIZATION
- EXPERIENCE & BACKGROUND

● PROGRAM PLANNING

- TIME PHASING
- MANPOWER BUILDUP

● PROGRAM CONTROL

- SCHEDULE & FISCAL

● COST

● METHODOLOGY

● COMPLETENESS, REALISM & VALIDITY

● COST CONTROL

● COST DEFICIENCIES

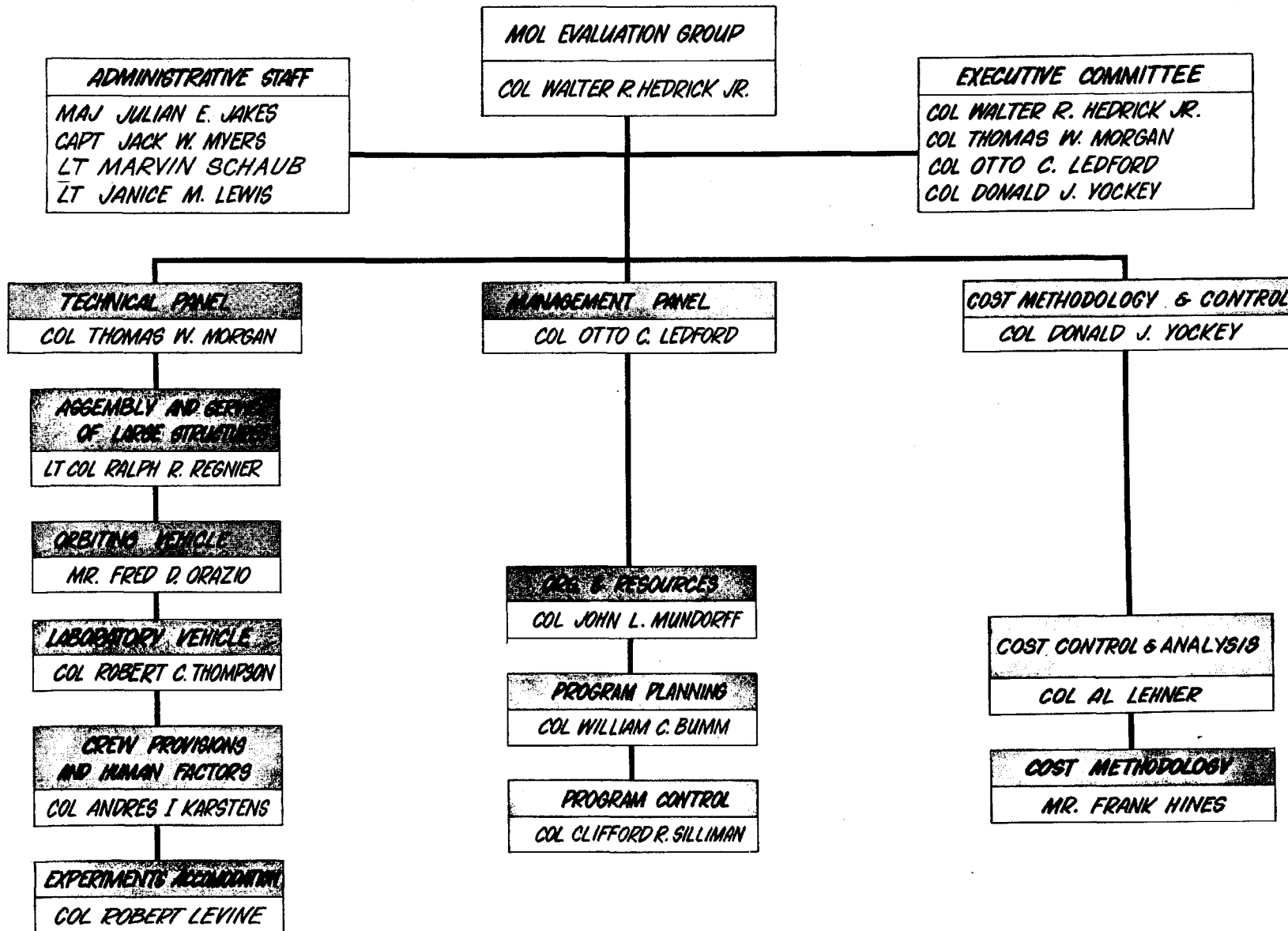
● EXPENDITURE

● FACILITIES & EQUIPMENT

● PROFIT PATTERNS

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EVALUATION GROUP EXPERIENCE

- AVERAGE YEARS GOVERNMENT SERVICE 19.8
- AVERAGE YEARS RESEARCH AND DEVELOPMENT EXPERIENCE 9.4
- SPO EXPERIENCE 58%
- PROCUREMENT EXPERIENCE 47%

- HIGHEST EDUCATIONAL LEVEL COMPLETED:
 - DOCTOR 14%
 - MASTER 35%
 - BACHELOR 41%

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EVALUATION GROUP FUNCTIONS

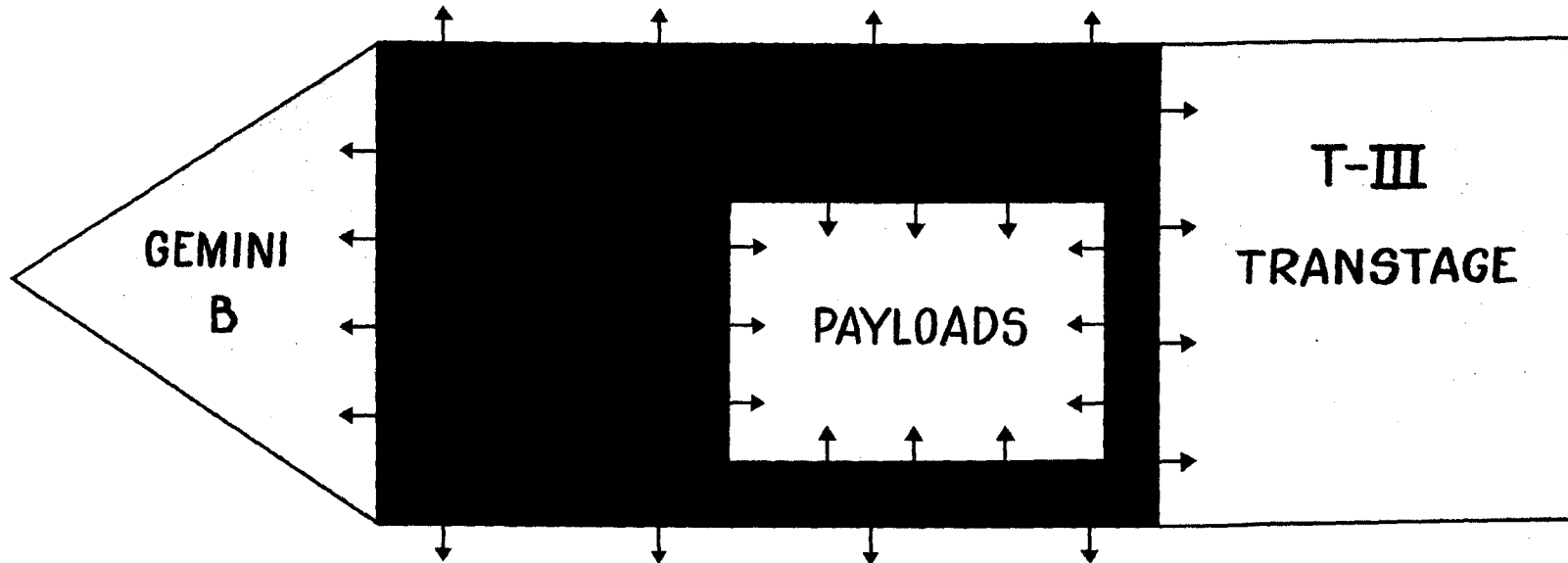
- *DEVELOP DETAILED CRITERIA*
- *ESTABLISH EVALUATION GROUP WEIGHTS*
- *SECURE SSSB APPROVAL OF RATING SYSTEM*
- *RECEIVE & EVALUATE DESIGN STUDIES USING APPROVED RATING SYSTEM*
- *ARRANGE FOR CONTRACTOR PRESENTATIONS*
- *PRESENT EVALUATION RESULTS & RATING OF CONTRACTORS TO SSB*

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WHAT WAS EVALUATED?

PRELIMINARY DESIGN STUDIES



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PROGRAM NO. ~~SECRET~~ ALL

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55G-65-22-22

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WEIGHTING CONSIDERATIONS

- *TASK COMPLEXITY*
- *MAGNITUDE OF TASK*
- *SIGNIFICANCE OF TASK*
- *STATE-OF-THE-ART*

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EVALUATION WEIGHTS (CONT'D)

| | |
|--|-------------|
| 2.0 MANAGEMENT AREA | <u>1000</u> |
| 2.1 ORGANIZATION & RESOURCES | <u>350</u> |
| 2.1.1 ORGANIZATION AND MANAGEMENT | <u>160</u> |
| 2.1.2 EXPERIENCE (COMPANY) | <u>100</u> |
| 2.1.3 SUBCONTRACTING | <u>90</u> |
| 2.2 PROGRAM PLANNING | <u>350</u> |
| 2.2.1 PHASE I PLAN | <u>180</u> |
| 2.2.2 PHASE II PLAN | <u>170</u> |
| 2.3 PROGRAM CONTROL | <u>300</u> |
| 2.3.1 SCHEDULE CONTROL | <u>150</u> |
| 2.3.2 CONFIGURATION MANAGEMENT | <u>150</u> |
| | |
| 3.0 COST METHODOLOGY & CONTROL | <u>1000</u> |
| 3.1 COST CONTROL & ANALYSIS | <u>600</u> |
| 3.1.1 ESTIMATE ANALYSIS | <u>180</u> |
| 3.1.2 RESEARCH & PRODUCTION PROPERTY, EQUIPMENT & ASSOCIATE CONTRACTOR SUPPORT SERVICES | <u>120</u> |
| 3.1.3 COST CONTROL | <u>210</u> |
| 3.1.4 INCENTIVES AND PROFIT | <u>90</u> |
| 3.2 COST METHODOLOGY | <u>400</u> |
| 3.2.1 COST ESTIMATE | <u>240</u> |
| 3.2.2 METHODOLOGY OF FINANCIAL MANAGEMENT | <u>160</u> |

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EVALUATION TECHNIQUE

3 AREAS & 3 PANELS

1.0 TECHNICAL

2.0 MANAGEMENT

3.0 COST METHODOLOGY
& CONTROL

AFM 70-10 ATTACH #3
"CRITERIA TO BE
EMPLOYED"

SSDR 70-10
ATTACH #1
"EXAMPLES OF FACTORS
TO BE CONSIDERED
IN EVALUATING
PROPOSALS"

10 ITEMS & 10 SUBPANELS

- 1.1 ASSEM & SERV. OF LG. STRUCT.
- 1.2 ORBITING VEHICLE
- 1.3 LABORATORY VEHICLE
- 1.4 CREW PROV. & HUM. FACT.
- 1.5 EXPERIMENTS ACCOM.
- 2.1 ORG & RESOURCES
- 2.2 PROGRAM PLANNING
- 2.3 PROGRAM CONTROL
- 3.1 COST CONT. & ANAL.
- 3.2 COST METHODOLOGY

ORGANIZATION OF
CONTRACTOR FINAL
REPORTS PER
PCO LTR DATED
8 APRIL 1965

30 FACTORS

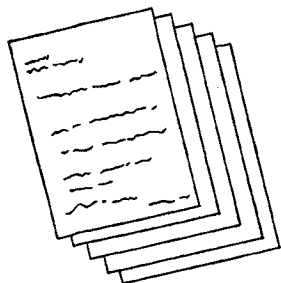
- | | |
|-------|-------|
| 1.1.1 | 1.5.3 |
| 1.1.2 | 1.5.4 |
| 1.1.3 | 2.1.1 |
| 1.2.1 | 2.1.2 |
| 1.2.2 | 2.1.3 |
| 1.2.3 | 2.2.1 |
| 1.3.1 | 2.2.2 |
| 1.3.2 | 2.3.1 |
| 1.3.3 | 2.3.2 |
| 1.3.4 | 3.1.1 |
| 1.4.1 | 3.1.2 |
| 1.4.2 | 3.1.3 |
| 1.4.3 | 3.1.4 |
| 1.5.1 | 3.2.1 |
| 1.5.2 | 3.2.2 |

SSSB
LTR OF INSTRUCTIONS
TO EVALUATION GROUP
CHAIRMAN ATTACH #1
"CRITERIA TO BE EMPLOYED"

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EVALUATION TECHNIQUE

88
SUBFACTORS



RATED
BY
10
SUBPANELS
OF
EVAL
GROUP

- 10 EXCELLENT
- 8 VERY GOOD
- 6 GOOD (NORMAL)
- 4 FAIR
- 2 POOR
- 0 UNACCEPTABLE
- N INSUFFICIENT
INFORMATION FOR
EVALUATION

SCORES ABOVE
OR BELOW
"6"

REQUIRE
WRITTEN
COMMENTS

SELECTED,
DESCRIBED,
& WEIGHTED
BY PANEL &
SUBPANEL CHAIR-
MEN IN JOINT
SESSION 21-23 APRIL

WEIGHTS APPLIED
TO EACH RAW
SCORE

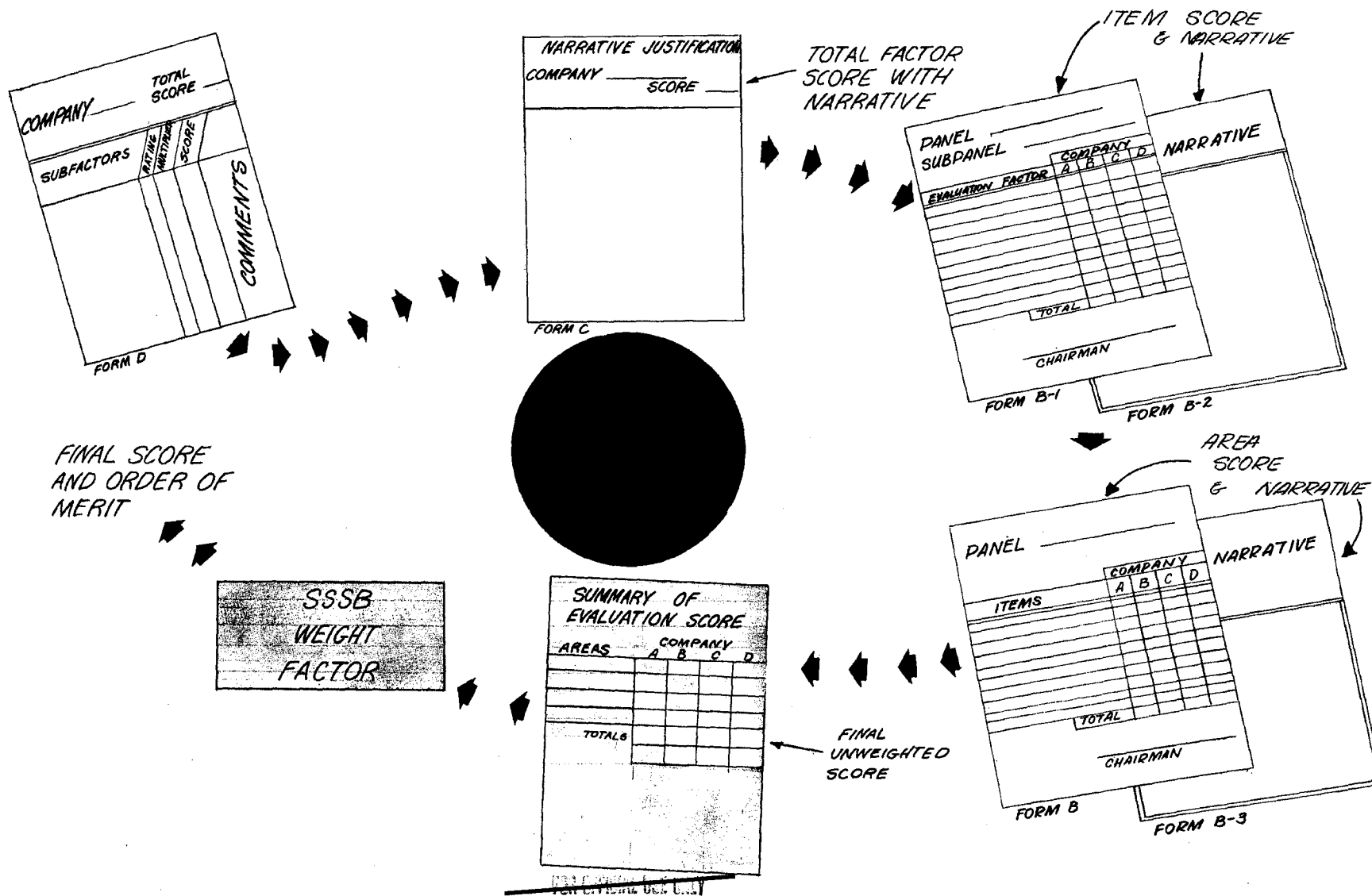
6 / 4 / 24

ALL SUBFACTOR
SCORES UNDER
ONE FACTOR ARE
TOTALLED

TOTAL CONTRACTOR
AREA SCORES
SUBMITTED
TO
SSSB
FOR AREA
WEIGHTING

EACH OF 30
FACTOR SCORES
BACKED BY
NARRATIVE
JUSTIFICATION

EVALUATION TECHNIQUE



*PRELIMINARY
DESIGN
STUDY
SUMMARIES*

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CONTRACTOR TEAMS

| <u>PRIME</u> | <u>MAJOR SUBS AND ASSOCIATES</u> | <u>% SUBCONTRACTED</u> |
|--------------|--------------------------------------|----------------------------|
| BOEING | HONEYWELL-PHILCO-HUGHES | 24% |
| DOUGLAS | IBM-COLLINS RADIO-SPERRY GYRO | 22% |
| GEN. ELEC. | MARTIN-REPUBLIC | 53% |
| LOCKHEED | MCDONNELL-GARRETT/AIRESEARCH | 41% |

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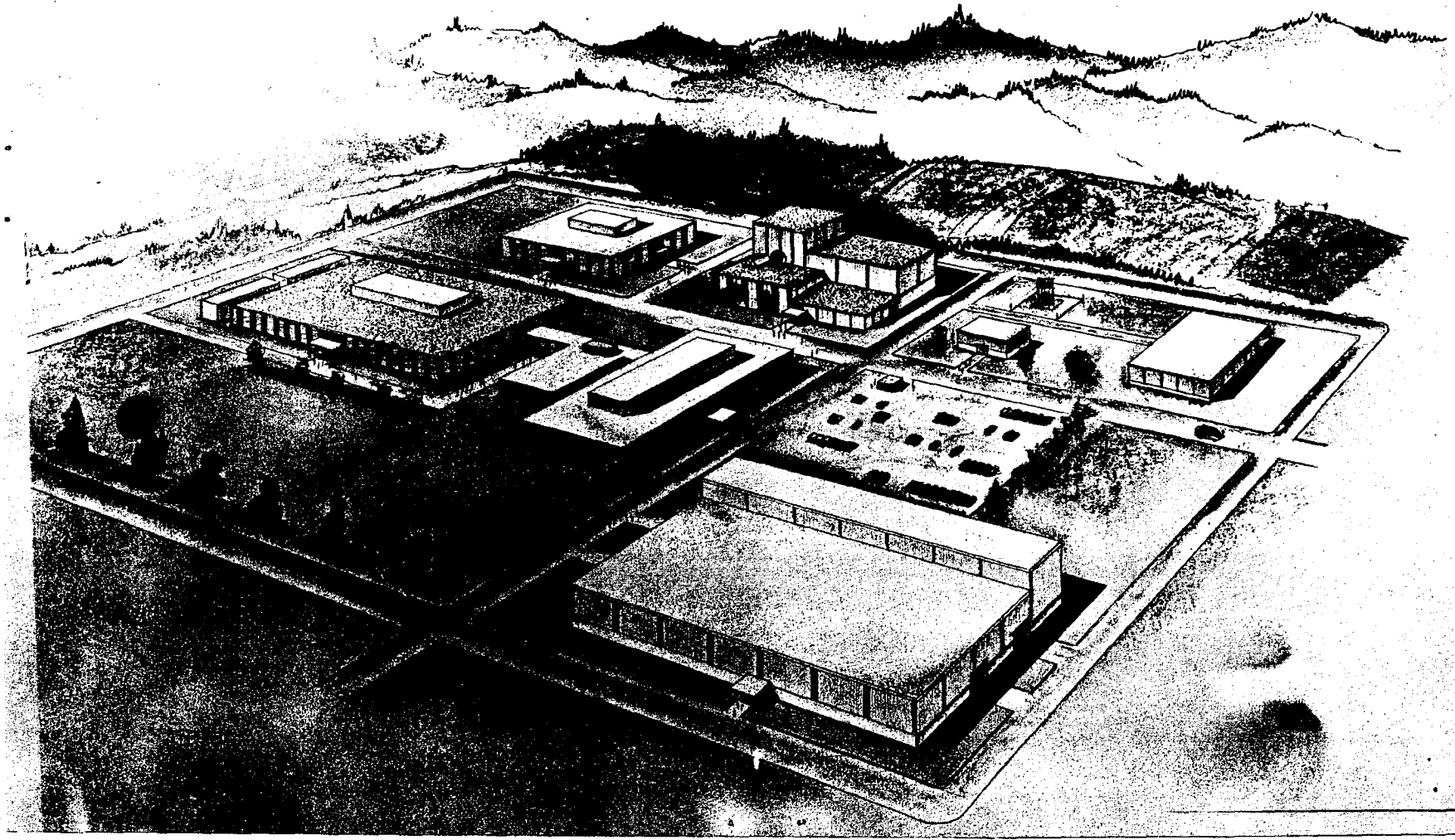
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FACILITIES

| | ORBIT TEST CHAMBER | LV ASSEMBLY BLDG | OV ASSEMBLY BLDG | ACOUSTIC TEST CHAMBER | GENERAL ENGINEERING | PRODUCTION | SUPPORT |
|---|--------------------------|------------------------|------------------------|-----------------------------|------------------------|------------|---------|
| A | M | A | A | A (SIZE ?) | A | A | A |
| B | M | A | C | A (SIZE ?) | A | A | A |
| C | C | A | C | C LARGE | A | A | A |
| D | M | M | M | NO (WPAFB) | A | A | A |

M MODIFICATION REQUIRED
A AVAILABLE
C CONSTRUCTION REQUIRED

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EVALUATION GROUP FINDINGS

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**EARTH
OBSERVATION
MISSION
WITH
MULTI-SENSORS**

SPECIAL ACCESS REQUIRED
CLASSIFIED SPACE PROJECT PROGRAM 022A

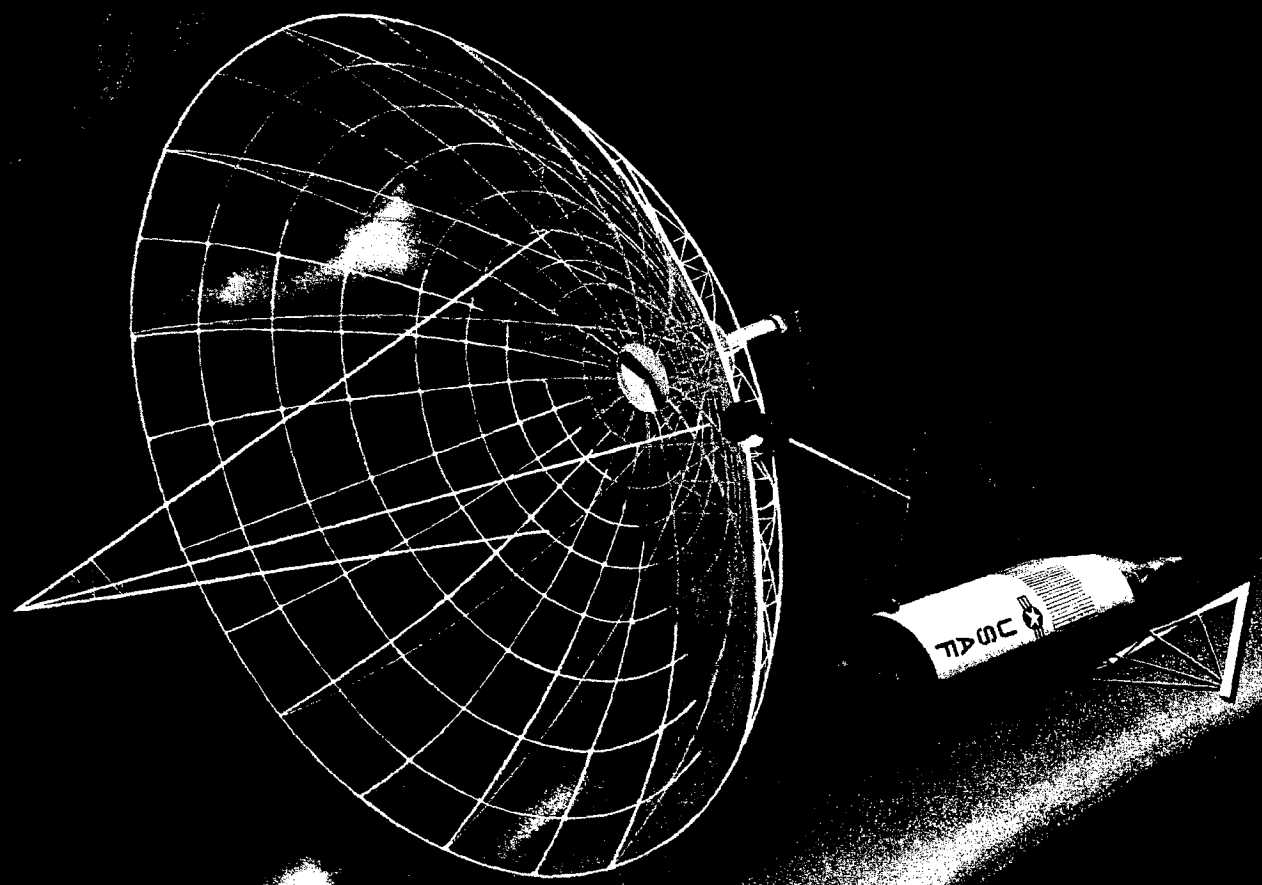
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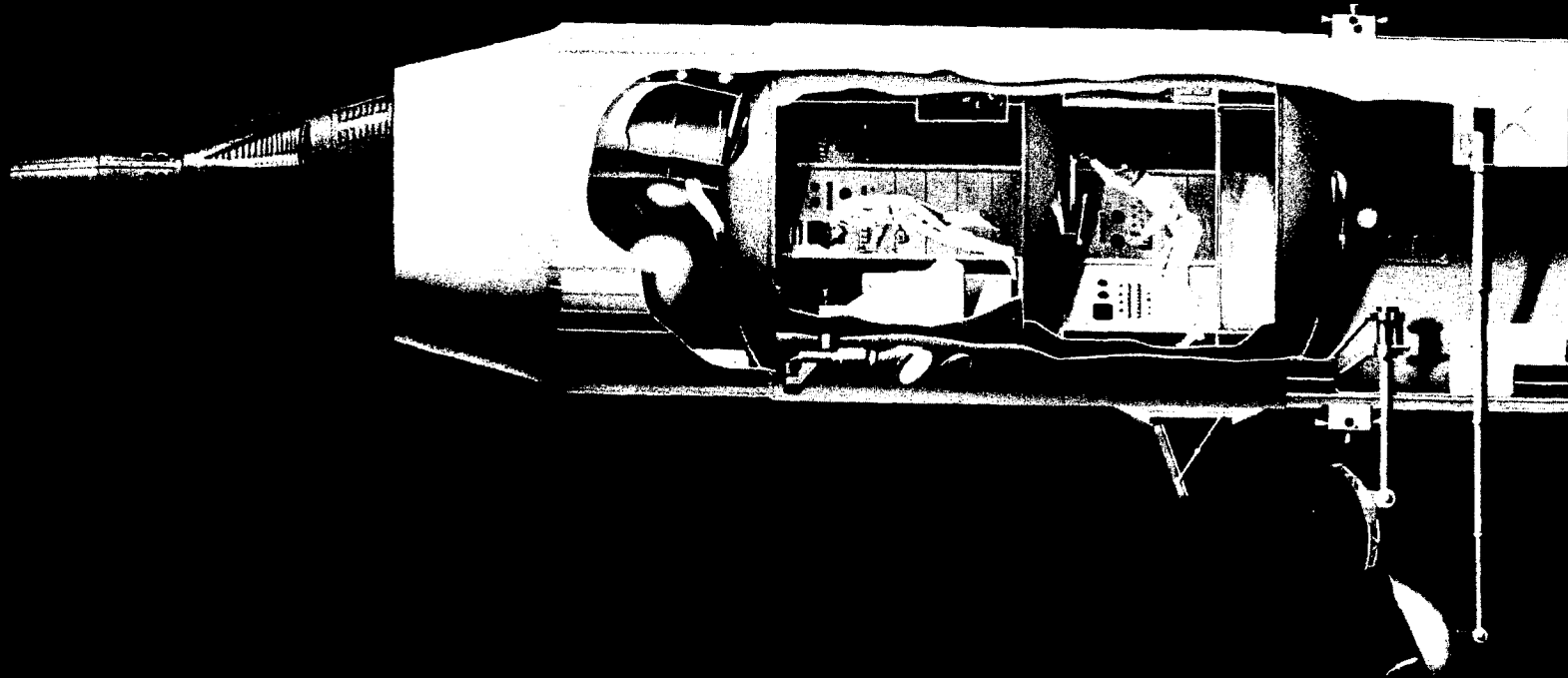
M24436A
C01576

MOL/100 FT. ANTENNA WITH MULTI-SENSORS



M24434
C06129

MOL CONFIGURATION



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CONTRACTOR A

1.0 TECHNICAL

ASSEMBLY & SERVICE OF LARGE STRUCTURES
ORBITING VEHICLE
LABORATORY VEHICLE
CREW PROVISIONS & HUMAN FACTORS
EXPERIMENTS ACCOMMODATION

648 (2)
116 (3)
136 (12)
176 (1)
112 (7)
108 (1)

2.0 MANAGEMENT

ORGANIZATION & RESOURCES
PROGRAM PLANNING
PROGRAM CONTROL

776 (1)
256 (1)
294 (1)
226 (1)

3.0 COST METHODOLOGY & CONTROL

COST CONTROL & ANALYSIS
COST METHODOLOGY

724 (1)
432 (1)
292 (1)

~~SECRET~~

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CONTRACTOR A

STRONG

- AGE DEV AND INTEGRATION
- SIMULATION
- INTERFACE ANALYSIS
- SPECIFICATION REVISIONS
- EXPERIMENTS ACCOMMODATION
- TOP MANAGEMENT SUPPORT
- PROGRAM MANAGEMENT, CONFIGURATION & DOCUMENTATION PROCEDURES
- PROGRAM PLANS
- COST PROPOSAL

WEAK

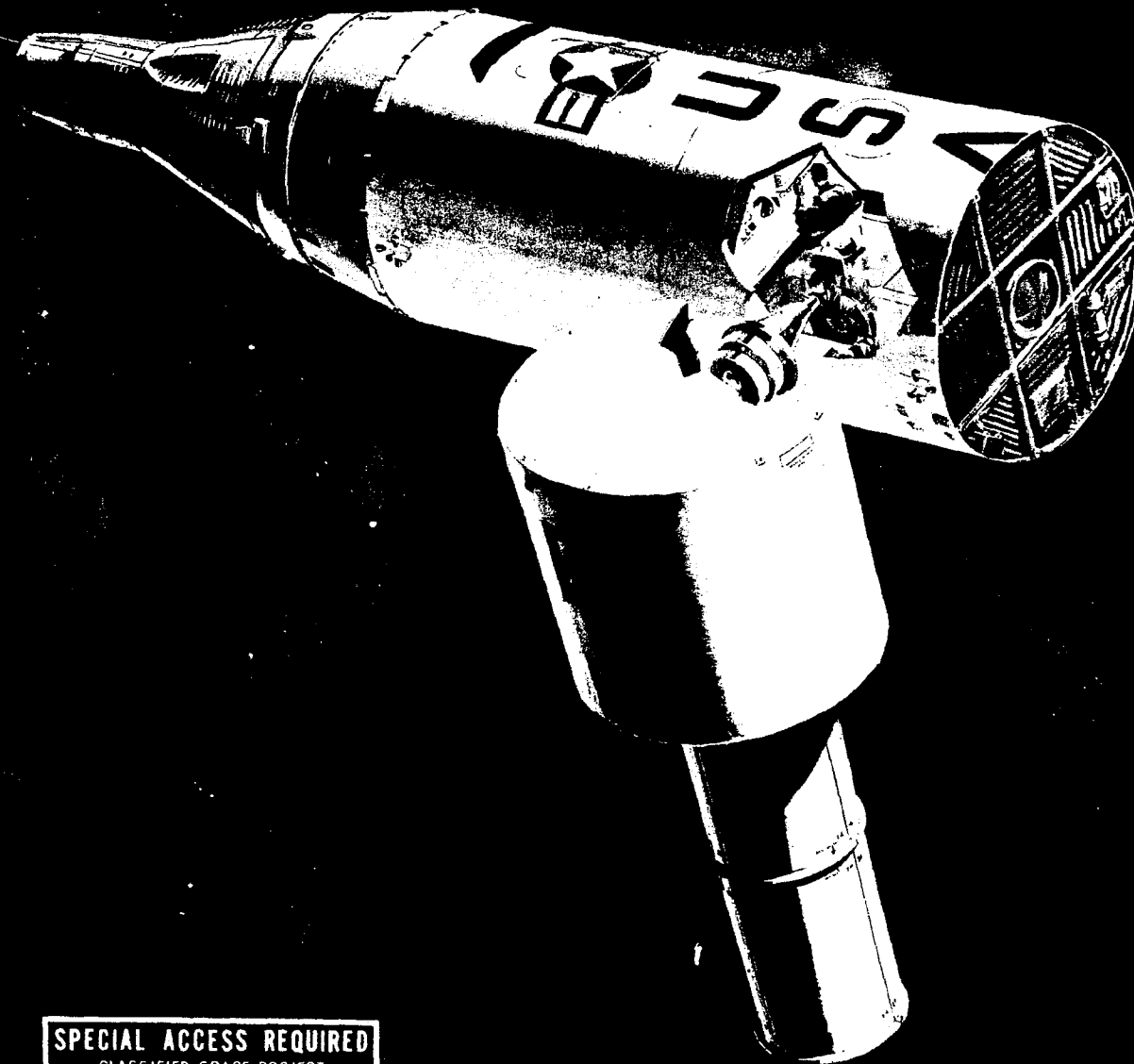
- LARGE STRUCTURE ANALYSIS
- CREW HYGIENE, PERFORMANCE AND UTILIZATION

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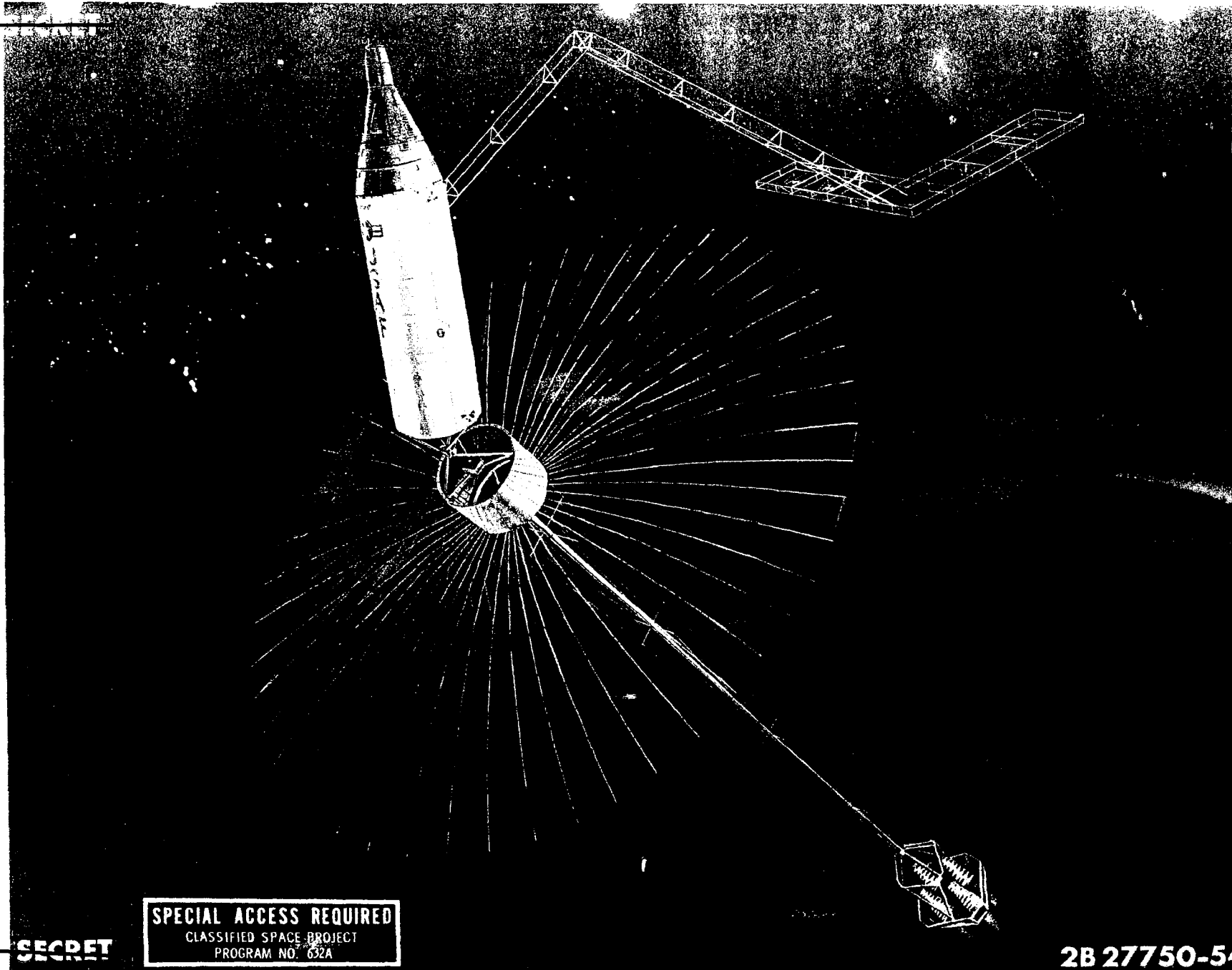
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SECRET

SPECIAL ACCESS REQUIRED
CLASSIFIED SPACE PROJECT
PROGRAM NO. 632A

2B 27750-60

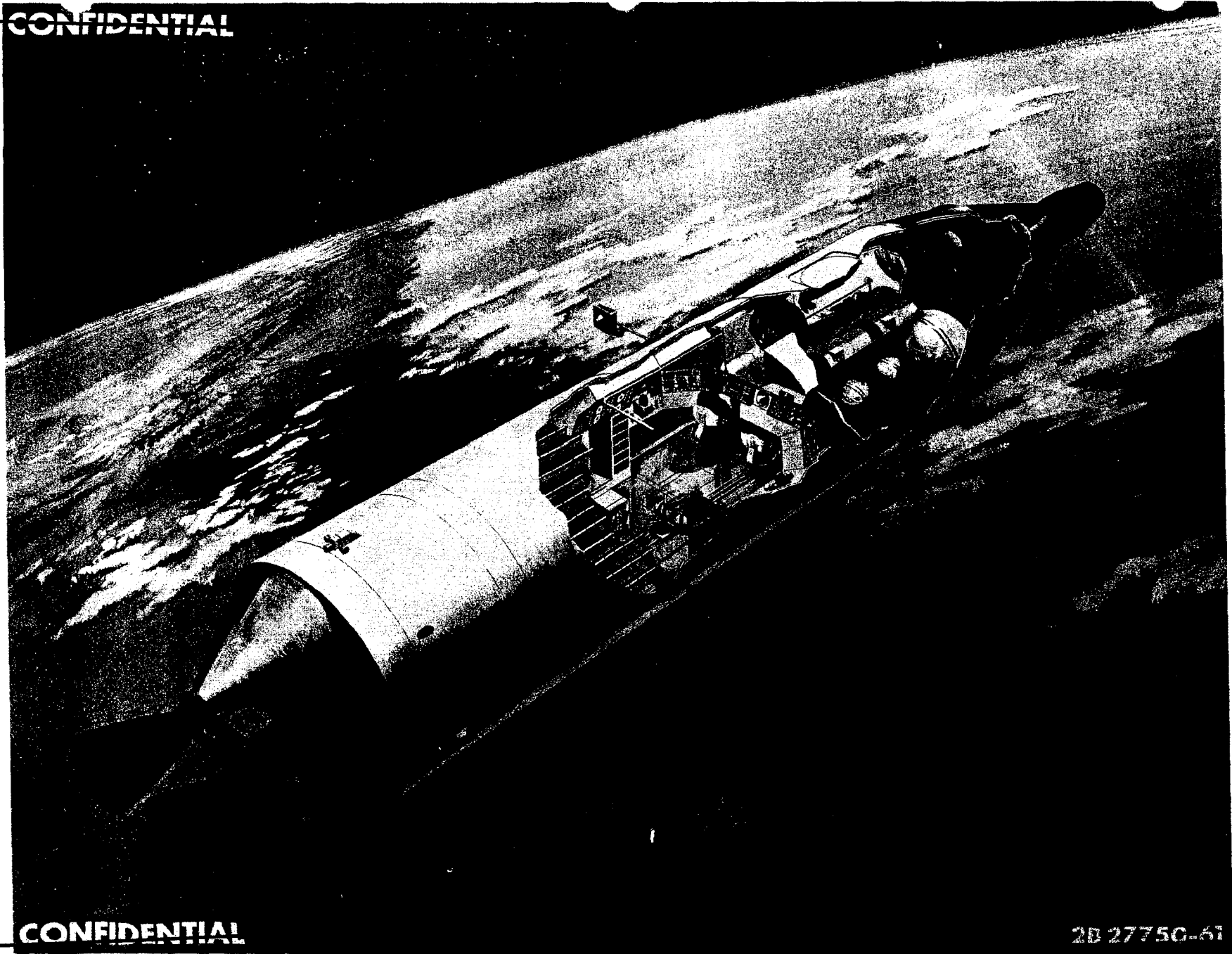


SECRET

SPECIAL ACCESS REQUIRED
CLASSIFIED SPACE PROJECT
PROGRAM NO. 652A

2B 27750-54

CONFIDENTIAL



CONFIDENTIAL

2B 27750-61

~~SECRET~~

CONTRACTOR B

1.0 TECHNICAL

ASSEMBLY & SERVICE OF LARGE STRUCTURES
ORBITING VEHICLE
LABORATORY VEHICLE
CREW PROVISIONS & HUMAN FACTORS
EXPERIMENTS ACCOMMODATION

643 (3)
136 (2)
136 (1-2)
152 (4)
122 (3)
97 (3)

2.0 MANAGEMENT

ORGANIZATION & RESOURCES
PROGRAM PLANNING
PROGRAM CONTROL

630 (3)
204 (3)
220 (3)
206 (3)

3.0 COST METHODOLOGY & CONTROL

COST CONTROL & ANALYSIS
COST METHODOLOGY

594 (2)
354 (3)
240 (2)

~~SECRET~~

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CONTRACTOR B

STRONG

- MISSION OPERATIONS INTEGRATION
- ORBITAL ANALYSIS
- LARGE STRUCTURE ANALYSIS
- INTEGRATION PERT/COST & ACCOUNTING SYSTEM

WEAK

- MANEUVERING AND STABILIZATION SUBSYSTEM DESIGN
- GROUND CHECKOUT EQUIPMENT ANALYSIS
- SIMULATION

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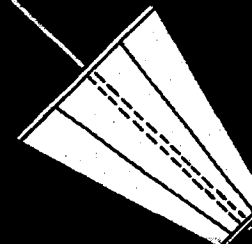
SECRET

MOL OPTICAL CONFIGURATIONS



40°

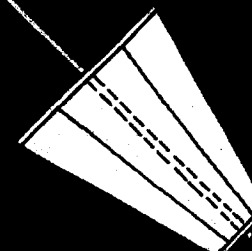
40°



FWD

40°

45°



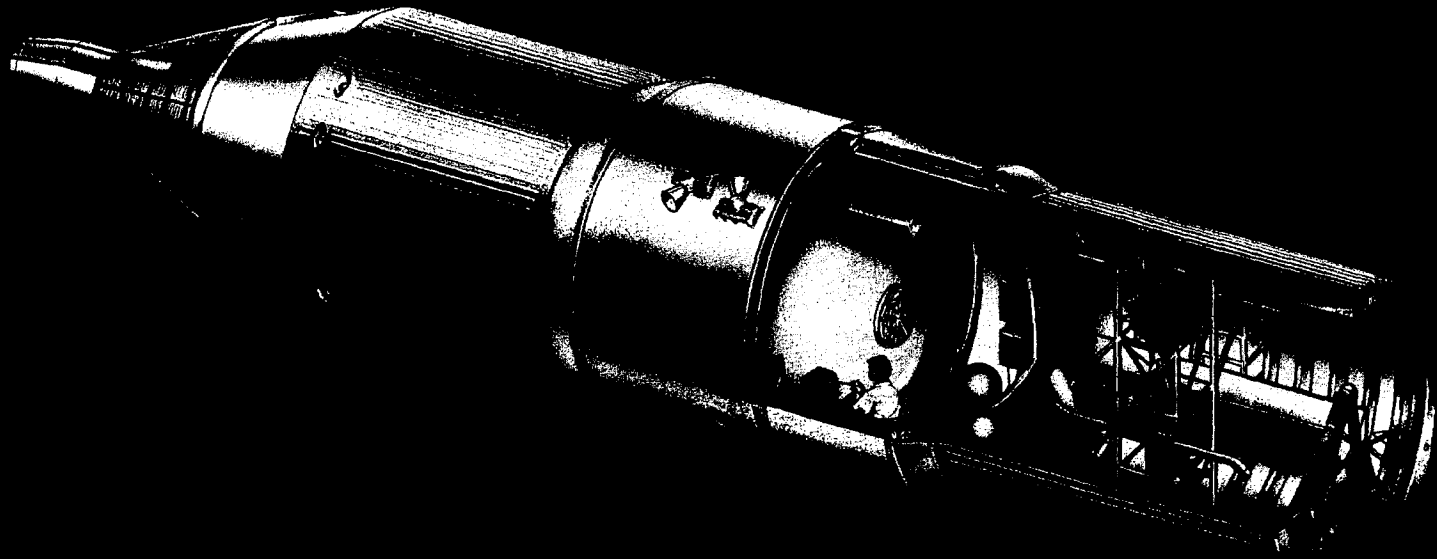
DOWN

SECRET

SECRET

LABORATORY VEHICLE

EXPERIMENTS ACCOMMODATION



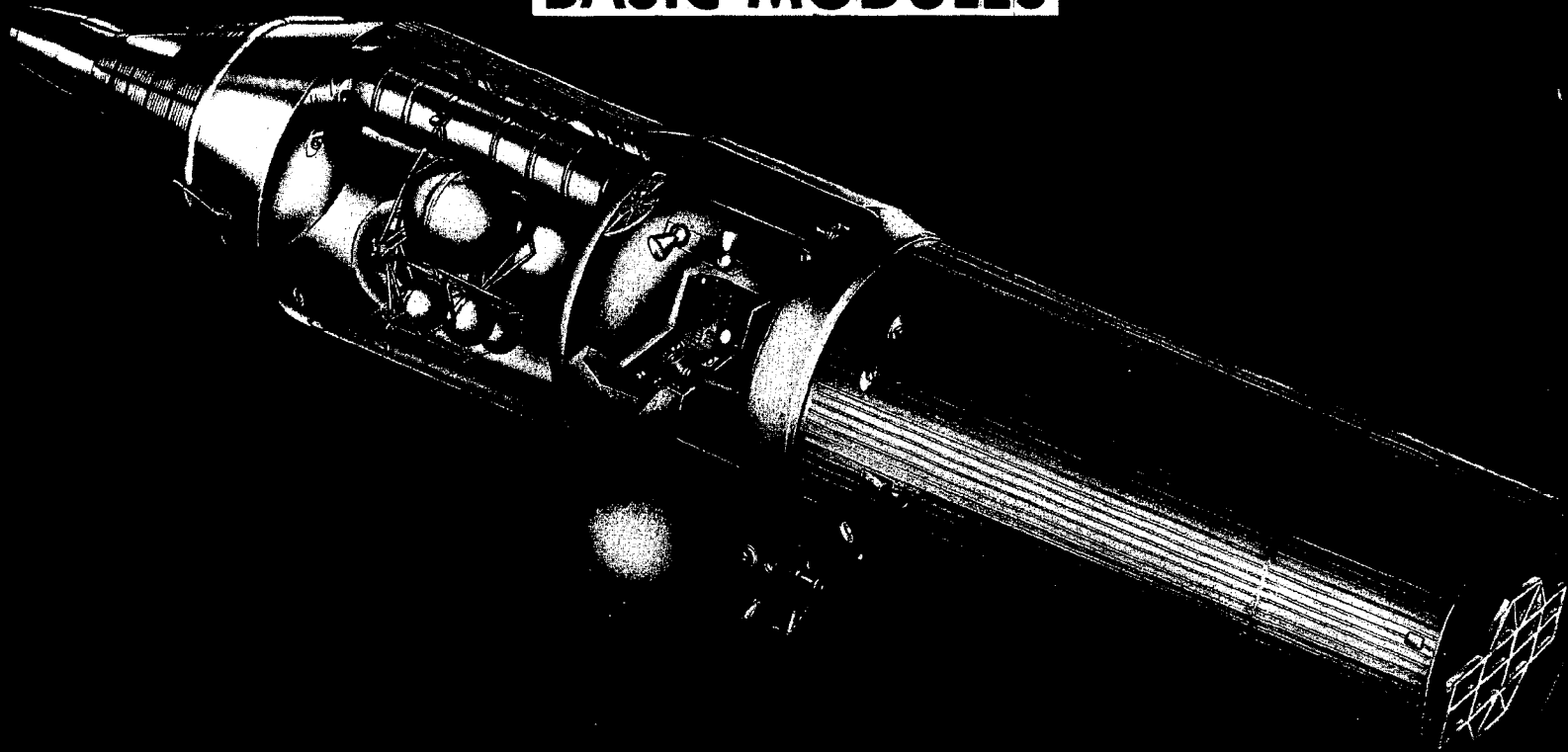
SECRET

2387

SECRET

LABORATORY VEHICLE
BASIC MODULES

2387



SECRET

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CONTRACTOR C

1.0 TECHNICAL

ASSEMBLY & SERVICE OF LARGE STRUCTURES
ORBITING VEHICLE
LABORATORY VEHICLE
CREW PROVISIONS & HUMAN FACTORS
EXPERIMENTS ACCOMMODATION

110 (4)
130 (4)
156 (2-3)
124 (2)
98 (2)
618 (4)

2.0 MANAGEMENT

ORGANIZATION & RESOURCES
PROGRAM PLANNING
PROGRAM CONTROL

190 (4)
210 (4)
185 (4)
585 (4)

3.0 COST METHODOLOGY & CONTROL

COST CONTROL & ANALYSIS
COST METHODOLOGY

372 (2)
200 (4)
572 (3)

~~SECRET~~

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CONTRACTOR C

STRONG

- RECONNAISSANCE ANALYSIS & OPERATIONAL GROWTH
- STRUCTURAL ANALYSIS & DESIGN
- CREW CONDITIONING & EVALUATION

WEAK

- LARGE STRUCTURE ANALYSIS
- PRELAUNCH & LAUNCH INTEGRATION
- AGE DESIGN
- PROGRAM MANAGEMENT, CONFIGURATION & DOCUMENTATION PROCEDURES
- PROGRAM PLANS
- COST ESTIMATE DATA
- CREW UTILIZATION

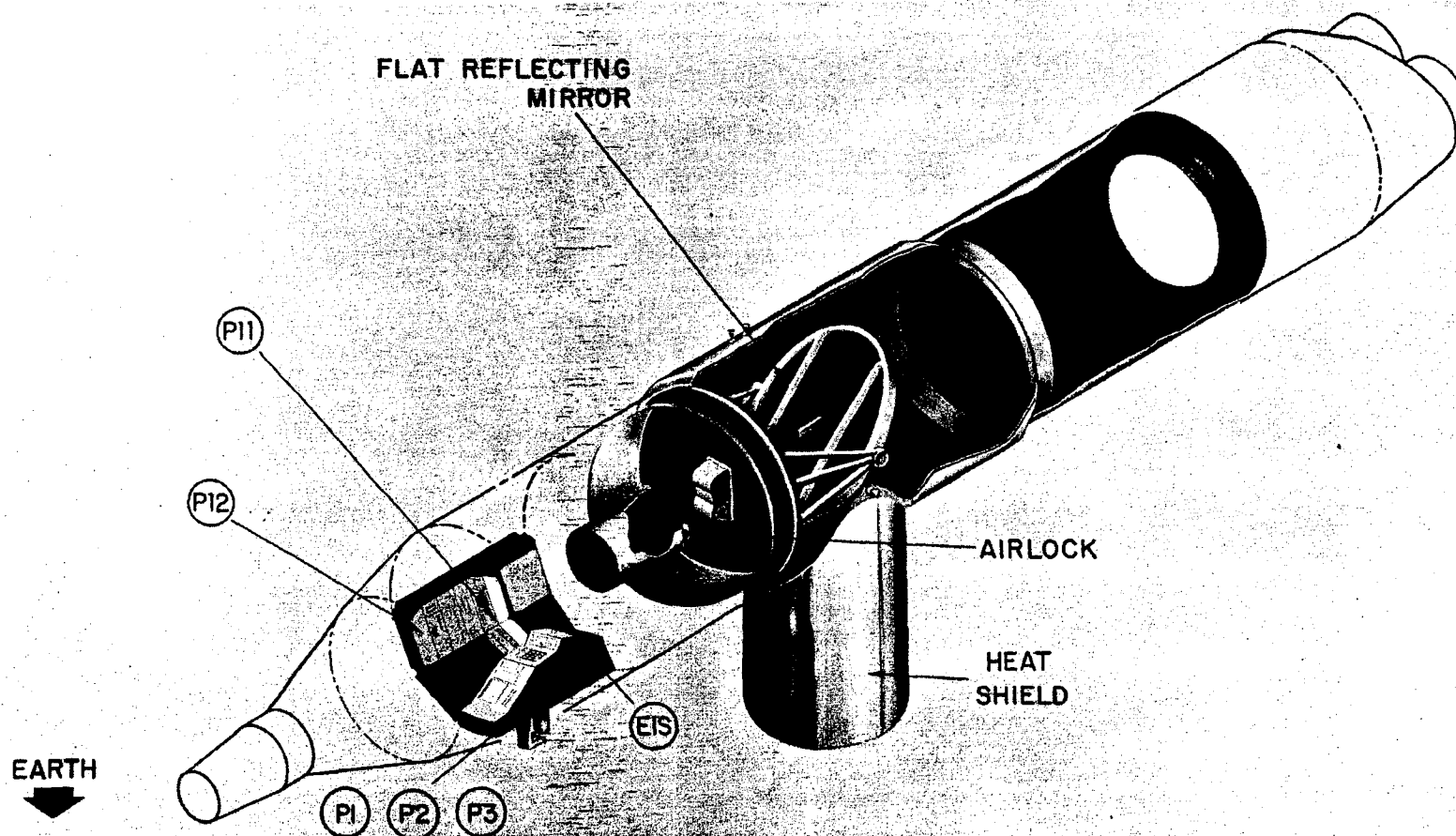
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INTERVALS; NOT AUTOMATICALLY
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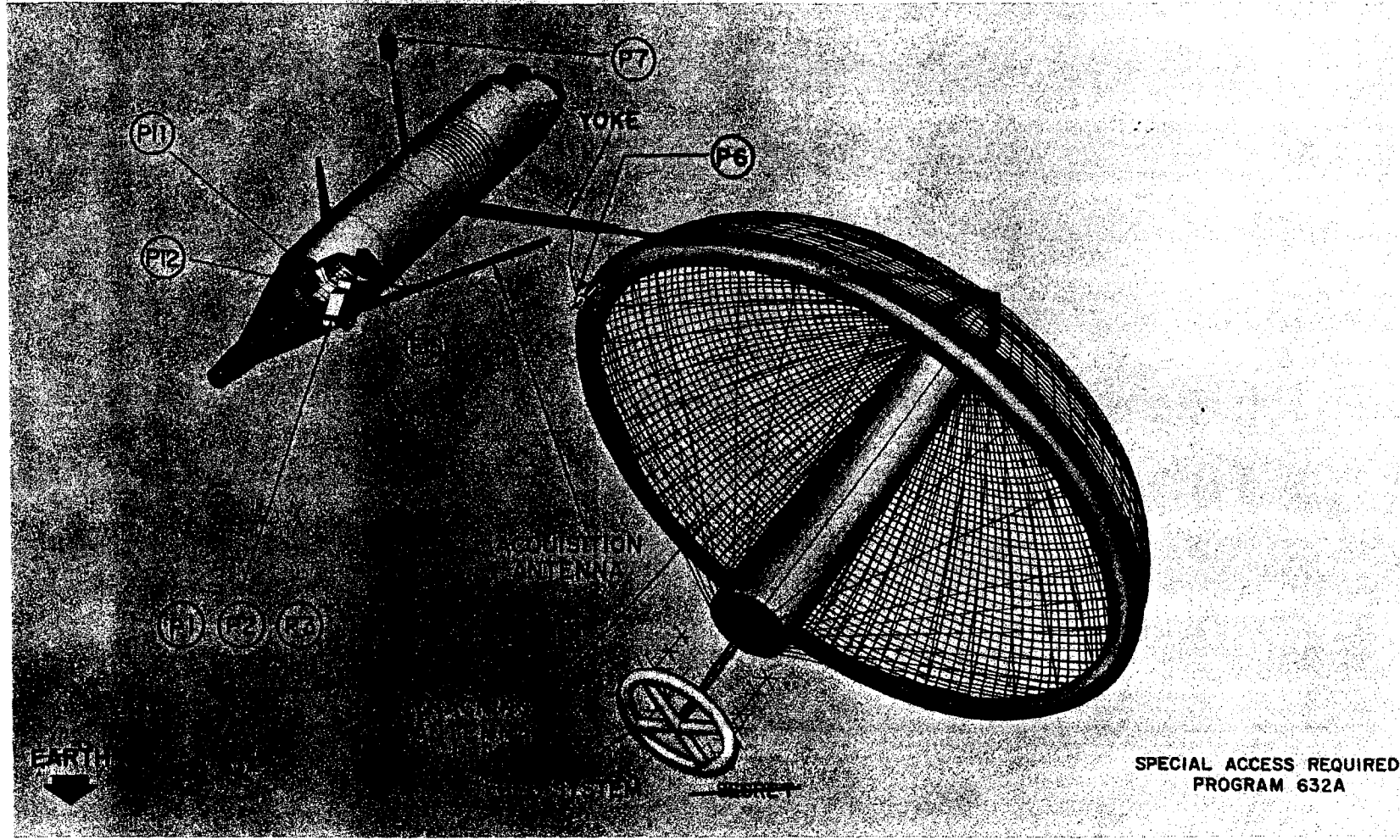
RECONNAISSANCE



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SPECIAL ACCESS REQUIRED
PROGRAM 632A

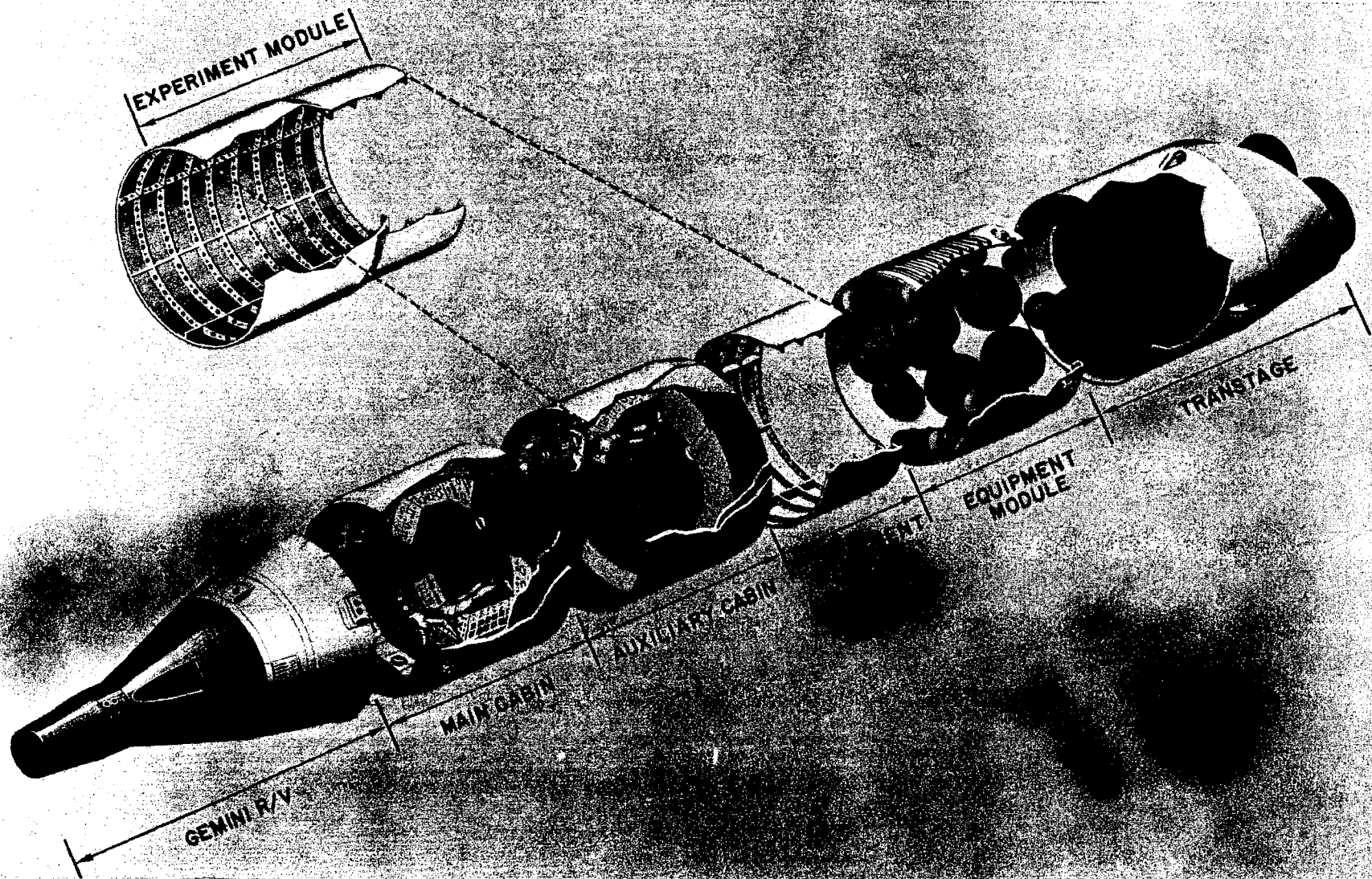
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COMINT / ELINT



EARTH

SPECIAL ACCESS REQUIRED
PROGRAM 632A

MANNED ORBITING LABORATORY



CONTRACTOR D

1.0 TECHNICAL

ASSEMBLY & SERVICE OF LARGE STRUCTURES
ORBITING VEHICLE
LABORATORY VEHICLE
CREW PROVISIONS & HUMAN FACTORS
EXPERIMENTS ACCOMMODATION

150 ①
135 ③
156 ②-3
144 ①
96 ④
681 ①

2.0 MANAGEMENT

ORGANIZATION & RESOURCES
PROGRAM PLANNING
PROGRAM CONTROL

234 ②
234 ②
210 ②
678 ②

3.0 COST METHODOLOGY & CONTROL

COST CONTROL & ANALYSIS
COST METHODOLOGY

324 ④
212 ③
536 ④

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CONTRACTOR D

STRONG

- LARGE STRUCTURE ANALYSIS
- PHYSIOLOGICAL STANDARDS
- CREW HEALTH & HUMAN PERFORMANCE
- GROUND CHECKOUT EQUIPMENT
- DEVELOPMENT TEST & SIMULATION PLAN
- TOP MANAGEMENT SUPPORT

WEAK

- COST ANALYSIS
- COST METHODOLOGY
- LAB SUBSYSTEMS

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INTERVALS, NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

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SUMMARY OF EVALUATION SCORES

| AREAS | CONTRACTOR UNWEIGHTED SCORES | | | |
|-----------------------------------|------------------------------|------------------|------------------|------------------|
| | A | B | C | D |
| 1.0 TECHNICAL | 648 ^② | 643 ^③ | 618 ^④ | 681 ^① |
| 2.0 MANAGEMENT | 776 ^① | 630 ^③ | 585 ^④ | 678 ^② |
| 3.0 COST METHODOLOGY & CONTROL | 724 ^① | 594 ^② | 572 ^③ | 536 ^④ |

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SPECIAL ACCESS REQUIRED

GROUP 1 - EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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SSG 65-22-4

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SUMMARY
OF
SSSB FINDINGS

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WEIGHTING RATIONALE

- ① ***CONTRACTOR TASKS PREDOMINANTLY TECHNICAL***

- ② ***CONTRACTOR MUST POSSESS FOLLOW-ON SYSTEM ACQUISITION CAPABILITY***

- ③ ***COSTS TREATED SEPARATELY***

- ④ ***TECHNICAL VS. MGMT/COST CONSIDERATION***

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SUMMARY OF FINDINGS

| CONTRACTORS (BY RELATIVE RANK) | TECHNICAL | | MGMT | | COST | | TOTAL WEIGHTED SCORE |
|-----------------------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|----------------------------|
| | RAW SCORE | WEIGHTED SCORE | RAW SCORE | WEIGHTED SCORE | RAW SCORE | WEIGHTED SCORE | |
| A | 648 | 388.8 | 776 | 232.8 | 724 | 72.4 | 694.0 |
| D | 681 | 408.6 | 678 | 203.4 | 536 | 53.6 | 665.6 |
| B | 643 | 385.8 | 630 | 189.0 | 594 | 59.4 | 634.2 |
| C | 618 | 370.8 | 585 | 175.5 | 572 | 57.2 | 603.5 |

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RECOMMENDATION

RECOMMEND CONTRACTOR **A**

BE SELECTED FOR M O L

PROGRAM DEFINITION PHASE