

EDITION "A"

MANNED SPACE FLIGHT SCHEDULES

Volume VII

VII.3

CONSTRUCTION OF FACILITIES

MSFC-Book 6-Various Locations



SATURN HISTORY DOCUMENT
University of Alabama in Huntsville
History of Science & Technology Group

Date ----- Doc. No. -----

OMSF PROGRAM STATUS REVIEW AUGUST 1965

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Document No. _____ Name _____

OMSF PROGRAM STATUS REVIEW PROGRAM SCHEDULE ROAD MAP

LEVEL A

**MSFC FACILITIES
VARIOUS**

LEVEL B

| GENERAL SUPPORT & TECHNICAL RELATED FACILITIES | |
|---|--------------|
| PROJECT NO. | TITLE |
| | |

| SATURN I & IB RELATED FACILITIES | |
|---|------------------|
| PROJECT NO. | TITLE |
| 9130 | S-IVB FACILITIES |

| SATURN V RELATED FACILITIES | |
|--|-----------------------|
| PROJECT NO. | TITLE |
| 9118 | S-II STAGE FACILITIES |

| ENGINE RELATED FACILITIES | |
|--------------------------------------|--------------------------------------|
| PROJECT NO. | TITLE |
| 9109 | F-1 ENGINE FACILITIES |
| 9131 | J-2 ENGINE FACILITIES |
| 9133 | FACILITIES FOR H-1 ENGINE PROGRAM |
| 9140 | SUPPORT SERVICES BUILDING |

| | | | |
|--|--|---|---|
| SCHEDULE RESPONSIBILITY _____ STATUS RESPONSIBILITY _____ | MANNED SPACE FLIGHT SCHEDULE TABLE OF CONTENTS VOLUME VII-FACILITIES BOOK 6-MSFC-VARIOUS PROJECT: SCH'D NO: | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> LEVEL </div> | ORIGINAL SCHED. APPROVAL _____ (Date) LAST SCHED. CHANGE _____ (Date) (No.) (Initials) STATUS AS OF _____ (Date) (Initials) |
| CONTRACTOR _____ | | | |

EDITION A

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o Indicates Changes From Last Submission
 * Indicates Deletion of a Milestone
 ** Indicates Additions of a Milestone

| SCHEDULE RESPONSIBILITY _____ | MANNED SPACE FLIGHT SCHEDULE | | (LEVEL) | ORIGINAL SCHED. APPROVAL _____ (Date) | | | |
|-------------------------------|---|-----------|-----------|--|--------------------------------------|-------|---------------|
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| | CONTRACTOR | PROJECT: | | | | | |
| | | SCH'D NO: | | | | | |
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SCHEDULE SYMBOLS

MILESTONE SYMBOLS

| | |
|--|---|
| | SCHEDULED COMPLETION DATE-CONTROLLED MILESTONE |
| | SCHEDULED COMPLETION DATE-SUPPORTING MILESTONE |
| | FIRST SCHEDULE REVISION-CONTROLLED MILESTONE* |
| | FIRST SCHEDULE REVISION-SUPPORTING MILESTONE* |
| | ACTUAL COMPLETION DATE-CONTROLLED MILESTONE |
| | ACTUAL COMPLETION DATE-SUPPORTING MILESTONE |
| | RESCHEDULING REQUEST-CONTROLLED MILESTONE |
| | EXPECTED COMPLETION DATE |
| | LATEST ALLOWABLE COMPLETION DATE |
| | PROJECT (PROGRAM) MANAGERS' ASSESSMENT OF EXPECTED COMPL DATE |
| | EXPECTED AND ASSESSMENT DATES IDENTICAL |
| | EXPECTED, LATEST ALLOWABLE & ASSESSMENT DATES IDENTICAL |
| | SCHEDULED AND EXPECTED DATES IDENTICAL |
| | SCHEDULED, EXPECTED AND LATEST ALLOWABLE DATES IDENTICAL (CONTROLLED MILESTONE)** |
| | SCHEDULED AND EXPECTED DATES IDENTICAL (SUPPORTING MILESTONE) |
| | SCHEDULED, EXPECTED AND LATEST ALLOWABLE DATES IDENTICAL (SUPPORTING MILESTONE)** |

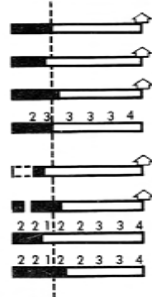
USE OF SCHEDULE SYMBOLS IN CONJUNCTION WITH ACTIVITY BARS

ACTIVITY INITIATION



- PREDICTED INITIATION ON SCHEDULE
- PREDICTED LATE INITIATION
- PREDICTED EARLY INITIATION

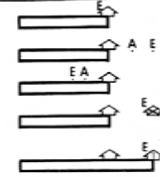
ACTIVITY PROGRESS TOWARD COMPLETION - BASIC SCHEDULE



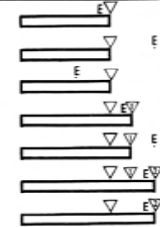
- ACTIVITY ON SCHEDULE
- ACTIVITY BEHIND SCHEDULE
- ACTIVITY AHEAD OF SCHEDULE
- PROGRESS AGAINST SCHEDULED DELIVERIES, TEST FIRINGS, ETC. (ON SCHEDULE)
- LATE INITIATION - BEHIND SCHEDULE
- EARLY INITIATION - AHEAD OF SCHEDULE
- BEHIND SCHEDULE - FOUR CUMULATIVE DELIVERIES
- AHEAD OF SCHEDULE - SEVEN CUMULATIVE DELIVERIES

* THE 2 FOR 2ND RESCHEDULING, 3 FOR 3RD RESCHEDULING ETC.
 ** SHOWN IN CONJUNCTION WITH A MILESTONE RESCHEDULED TWICE.

CONTROLLED MILESTONES



SUPPORTING MILESTONES



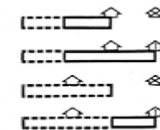
ACTIVITY OR EVENT COMPLETION

- PREDICTED COMPLETION ON SCHEDULE
- PREDICTED LATE COMPLETION WITH PROJECT MANAGERS' ASSESSMENT
- PREDICTED EARLY COMPLETION WITH PROJECT MANAGERS' ASSESSMENT
- PREDICTED LATE COMPLETION WITH PROJECT MANAGERS' REQUEST FOR RESCHEDULING
- RESCHEDULING REQUEST APPROVED, FIRST SCHEDULE REVISION. PREDICTED COMPLETION ON SCHEDULE
- PREDICTED COMPLETION ON SCHEDULE
- PREDICTED LATE COMPLETION (PROJECT MANAGERS' ASSESSMENT OPTIONAL)
- PREDICTED EARLY COMPLETION
- FIRST SCHEDULE REVISION-PREDICTED COMPLETION ON SCHEDULE
- FIRST SCHEDULE REVISION-PREDICTED LATE COMPLETION
- SECOND SCHEDULE REVISION-FIRST MONTH SUBMISSION
- SECOND SCHEDULE REVISION-2ND MONTH SUBMISSION

RANDOM SITUATIONS

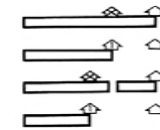
(E AND A SYMBOLS HAVE BEEN OMITTED IN PORTRAYING RANDOM SITUATIONS)

PREDICTED LATE INITIATION & LATE COMPLETION



- CONDITION "A"--PROPOSED
- CONDITION "A"--ACCEPTED
- CONDITION "B"--PROPOSED (PREDICTED INITIATION LATER THAN SCHEDULED COMPLETION)
- CONDITION "B"--ACCEPTED

PREDICTED EARLY INITIATION & EARLY COMPLETION



- CONDITION "C"--PROPOSED
- CONDITION "C"--ACCEPTED
- CONDITION "D"--PROPOSED (PREDICTED COMPLETION EARLIER THAN SCHEDULED INITIATION)
- CONDITION "D"--ACCEPTED

NEW PREDICTED COMPLETION DATE

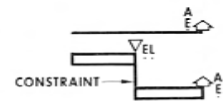


- EXISTING SCHEDULE
- PROPOSED
- ACCEPTED

GRAPH CURVES

- PLANNED
- ACTUAL
- CURVE ESTIMATE


USE OF "LATEST ALLOWABLE" DATE SYMBOL



- KEY MILESTONE - PREDICTED EARLY COMPLETION
- SUPPORTING MILESTONE - PREDICTED LATE COMPLETION
- CONTROLLED MILESTONE - PREDICTED LATE COMPLETION

| MILESTONES | | CY 1963 | | | | | | | | | | | | CY 1964 | | | | | | | | | | | | CY 1965 | | | | | | | | | | | | CY 1966 | | | | | | | | | | | | CY 1967 | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|
| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | |
| 1 | 9109- F-1 ENGINE FACILITIES (FY-62-65) | [Gantt bar from start of 1963 to end of 1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | E |
| 2 | EDWARDS AIR FORCE BASE | [Gantt bar from start of 1963 to end of 1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (A) CONTROL CENTER | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | ACCEPTANCE TEST #2004 | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (B) TEST STAND I-D | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | ACCEPTANCE TEST #2004 | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (C) TEST STAND I-C | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | ACCEPTANCE TEST #2005 | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | (D) TEST STAND I-E | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FIRST HOT FIRING | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | (E) ENVIRONMENTAL CAPABILITY | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | FIRST ENGINE TEST | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | (F) LOX STORAGE | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | (G) FUEL STORAGE | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | (H) FUEL SUPPLY (NOTE 1) | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | (I) FLAME CHANNEL (REPAIR) | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | (J) RECLAMATION DAM (MODIFICATION) (NOTE 2) | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | (K) DRAIN SYSTEM AND FIRE PROTECTION | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | (L) EROSION CONTROL | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | (M) WEATHER PROTECTION TEST STAND I-A & I-B | [Gantt bar from start of 1963 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES ALL NOTES WILL BE SHOWN ON PAGE 8.

| SCHEDULE RESPONSIBILITY <u>Dr. Wernher von Braun</u> STATUS RESPONSIBILITY <u>Arthur V. Daly</u> | | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS FACILITIES SUMMARY | |  | ORIGINAL SCHED. APPROVAL <u>3/31/63</u> <small>(Date)</small> LAST SCHED. CHANGE <u>4/30/63</u> <small>(Date) (No.) (Initials)</small> STATUS AS OF <u>7/31/65</u> <small>(Date) (Initials)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MILESTONES | | CONTRACTOR NOT APPLICABLE | | PROJECT: SCH'D NO A-9162-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | CY 1963 | | | | CY 1964 | | | | CY 1965 | | | | CY 1966 | | | | CY 1967 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D |
| 1 | (N) CATWALK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | (O) GUARD RAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (P) ROAD BLOCK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | <u>CANOGA PARK</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (Q) ENGINE C/O CELL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (R) ENGINE C/O CELL (NOTE 3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (S) HAZARDOUS TEST CELL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (T) GN ₂ SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | (U) HAZARDOUS TEST CELLS (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | <u>SANTA SUSANA</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | (V) GN ₂ STORAGE BOTTLE (NOTE 4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | (W) FUEL RUN TANK (NOTE 4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | (X) OFF-SITE LOX FILL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | (Y) ISOLATE HYDRO SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | (Z) MODIFICATION FOR PUMP DRIVE (NOTE 4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | (A/1) ROTARY TEST FACILITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | (A/2) BRAVO OFF-SITE LOX STORAGE & TRANSF SYS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 9109-F-1 ENGINE FAC (FY-66) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES | | ALL NOTES WILL BE SHOWN ON PAGE 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MILESTONES | | CY 1963 | | | | | CY 1964 | | | | | CY 1965 | | | | | CY 1966 | | | | | CY 1967 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O |
| 1 | 9118-S-11 STAGE FACILITIES (FY-62-65) (NOTE 5) | [Gantt bar spanning from start of 1963 to end of 1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | <u>DOWNEY</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (A) CRYOGENIC TEST FACILITY | [Gantt bar from early 1963 to mid-1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (B) ELECTRO-MECH MOCKUP | [Gantt bar from early 1963 to mid-1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | <u>SEAL BEACH</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (C) SITE PREPARATION | [Gantt bar from early 1963 to mid-1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (D) BULKHEAD FABRICATION FACILITY | [Gantt bar from early 1963 to mid-1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (E) VERTICAL ASSEMBLY & HYDRO TEST FACILITY | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | (F) WATERING CONDITIONING FACILITY | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | (G) PNEUMATIC, PAINT, & PACKAGING FACILITY | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | (H) STRUCTURAL STATIC TEST FACILITY | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | (I) DOCK | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | (J) SERVICE BUILDING | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | (K) WAREHOUSE & STORAGE FACILITY | [Gantt bar from early 1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | (L) ADDITION TO BULKHEAD FABRICATION FACILITY | [Gantt bar from early 1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | (M) VERTICAL C/O FACILITY | [Gantt bar from early 1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | INSTALL S-II-1 | [Gantt bar from early 1965 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | <u>SANTA SUSANA</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | (N) SITE PREPARATION CONTROL CENTER | [Gantt bar from early 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | (O) MODIFICATION | [Gantt bar from early 1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES | | ALL NOTES WILL BE SHOWN ON PAGE 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SCHEDULE RESPONSIBILITY <u>Dr. Wernher von Braun</u> STATUS RESPONSIBILITY <u>Arthur V. Daly</u> | | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS FACILITIES SUMMARY | | | | | | | | | | | | ORIGINAL SCHED. APPROVAL <u>3/31/63</u> (Date) LAST SCHED. CHANGE <u>4/30/64</u> (Date) (No.) (Initials) STATUS AS OF <u>7/31/65</u> (Date) (Initials) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | CONTRACTOR NOT APPLICABLE PROJECT: SCH'D NO A-9162-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MILESTONES | | CY 1963 | | | | CY 1964 | | | | CY 1965 | | | | CY 1966 | | | | CY 1967 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D |
| 1 | (P) PROPELLANT SYSTEMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | (Q) HI PRESS GAS & THERMAL CONTROL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (R) COCA I TEST STAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | START BATTLESHIP TESTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (S) COCA IV TEST STAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 9118- SATURN V SECOND STAGE S-II DEVELOPMENT FAC (FY-66) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MILESTONES | | CY 1963 | | | | | | | | | | | | CY 1964 | | | | | | | | | | | | CY 1965 | | | | | | | | | | | | CY 1966 | | | | | | | | | | | | CY 1967 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9130-S-IVB FACILITIES (FY-62-65) (NOTE 6) | [Gantt bar from start of 1963 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SACTO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (A) SITE PREPARATION | [Gantt bar from start of 1963 to mid-1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (B) FOUNDATION PILING | [Gantt bar from start of 1963 to early 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (C) TEST STAND BETA-1 | [Gantt bar from start of 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | INSTALL B/S | [Gantt bar from mid-1963 to early 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (D) CONV OF BETA-1 FOR ACCEPT TEST (NOTE 6) | [Gantt bar from mid-1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | INSTALL #203 | [Gantt bar from mid-1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | (E) BETA-COMPLEX SUPPORT | [Gantt bar from start of 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | (F) TEST STAND BETA-3 | [Gantt bar from start of 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | INSTALL FACILITY C/O VEHICLE | [Gantt bar from mid-1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | (G) ATTITUDE CONTROL MOTOR TEST SITE | [Gantt bar from start of 1963 to mid-1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | (H) ATTITUDE CONTROL MOTOR ASSY BLDG | [Gantt bar from mid-1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | (I) CHECKOUT TEST FACILITY | [Gantt bar from mid-1964 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | BEGIN INSTL GSE IN TEST CONTROL CENTER | [Gantt bar from mid-1965 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | CG DETERMINATION IN POSITION #1 | [Gantt bar from mid-1965 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | POST STATIC C/O POSITION #2 | [Gantt bar from mid-1965 to mid-1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES | | ALL NOTES WILL BE SHOWN ON PAGE 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**MANNED SPACE FLIGHT SCHEDULE
MSFC-VARIOUS LOCATIONS
FACILITIES SUMMARY**



ORIGINAL SCHED. APPROVAL 3/31/63
(Date)
LAST SCHED. CHANGE 4/30/64
(Date) (No.) (Initials)
STATUS AS OF 7/31/65
(Date) (Initials)

CONTRACTOR NOT APPLICABLE PROJECT: SCH'D NO A-9162-1

SCHEDULE RESPONSIBILITY Dr. Wernher von Braun
STATUS RESPONSIBILITY Arthur V. Daly

| MILESTONES | | CY 1963 | | | | | CY 1964 | | | | | CY 1965 | | | | | CY 1966 | | | | | CY 1967 | | | | | | | | | | | | | |
|------------|---|--|---|---|---|---|---------|---|---|---|---|---------|---|---|---|---|---------|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O |
| 1 | 9131- J-2 ENGINE FACILITIES (FY-62-65) | [Solid bar from start of 1963 to end of 1965] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SANTA SUSANA | [Empty] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (A) DELTA 2 TEST STAND | [Solid bar from start of 1963 to end of 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (B) DELTA 1 TEST STAND | [Dotted bar from start of 1965 to end of 1967] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | ACTIVATION | [Dotted bar from start of 1966 to end of 1967] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (a/1) LH ₂ RUN TANK | [Dotted bar from start of 1966 to end of 1966] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (a/2) LOX RUN TANK | [Dotted bar from start of 1966 to end of 1966] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (a/3) HYPER-FLOW SYSTEM | [Dotted bar from start of 1966 to end of 1966] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | (a/4) DIFFUSER | [Dotted bar from start of 1966 to end of 1966] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | (a/5) ALTITUDE CAPSULE | [Dotted bar from start of 1966 to end of 1966] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | (a/6) TEST STAND STRUCTURE | [Dotted bar from start of 1966 to end of 1967] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | (C) CTL III LOX PUMP CAL CELL 15B | [Solid bar from start of 1963 to end of 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | (D) CTL III LH ₂ PUMP CAD CELL 45 | [Solid bar from start of 1963 to end of 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | (E) PRODUCTION TEST FACILITY | [Solid bar from start of 1963 to end of 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | (F) CTL III 500 SEC LH ₂ PUMP TEST CAPAB | [Solid bar from start of 1963 to end of 1963] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | (G) HELIUM SYSTEM | [Solid bar from start of 1964 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | (H) LOX STORAGE SYSTEM | [Solid bar from start of 1964 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | (I) GH ₂ RECOVERY SYSTEM | [Solid bar from start of 1964 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | (J) BOWL LOX SYSTEM MODIFICATION | [Solid bar from start of 1964 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | (K) INSTRUMENT DATA TRANSMISSION SYSTEM | [Solid bar from start of 1964 to end of 1964] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES | | [Empty] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MSFC - Form 1975-5 (October 1963)

SCHEDULE RESPONSIBILITY Dr. Wernher von Braun

STATUS RESPONSIBILITY J.R. Lada
J. R. Lada

MANNED SPACE FLIGHT SCHEDULE
MSFC-VARIOUS LOCATIONS
CONSTRUCTION OF FACILITIES
OBLIGATION TABULATION



ORIGINAL SCHED. APPROVAL _____ (Date)
LAST SCHED. CHANGE 7/31/65 (23) (Date) (No.) (Initials)
STATUS AS OF 7/31/65 (Date) (Initials)

CONTRACTOR

PROJECT:
SCH'D NO:

| PROGRAM OR PROJECT ELEMENT | TOTAL OBLIGATIONS PRIOR FY | PLANNED OBLG TO DATE CURRENT FY | PLANNED OBLG JUNE (65-2) | ACTUAL OBLG TO DATE CURRENT FY | ACTUAL OBLG JULY | PLANNED TOTAL OBLG CURRENT FY | PLANNED TOTAL OBLG AT COMPL |
|--|---|---|---|---|---|--|---|
| (C OF F SUPPORT OF APPROVED R & D PROJECTS) | | | | | | | |
| 9109 - F-1 ENGINE PROGRAM | 56,450 (15,158) (29,451) (31) (10,464) (15) (1,331) (0) | 0 (0) (0) (0) (0) (0) (0) (0) | 0 (0) (0) (0) (0) (0) (0) (0) | -60 (-90) (0) (0) (0) (0) (0) (0) | -60 (-90) (0) (0) (0) (0) (0) (0) | 4,783 (265) (59) (66) (1,669) (131) (1,376) (1,217) | 61,233 (FY-62: 15,423) (FY-63: 29,510) (FY-64: 97)FP&D (FY-64: 12,133) (FY-65: 146)FP&D (FY-65: 2,707) (FY-66: 1,217) |
| 9118 - S-II STAGE FACILITIES | 3,296 (537) (3,664)* (13,708)* (555) (9,000)* (200) (0) (2,004) | 13 (0) (0) (0) (0) (0) (0) (0) (13) | 13 (0) (0) (0) (0) (0) (0) (0) (13) | 38 (0) (0) (0) (0) (0) (0) (25) (13) | 38 (0) (0) (0) (0) (0) (0) (25) (13) | 2,486 (0) (0) (0) (0) (0) (0) (126) (20) | 5,827 (FY-62: 537)FP&D (FY-62: 3,664)* (FY-63: 13,708)* (FY-63: 600) (FY-64: 9,000)* (FY-64: 200)FP&D (FY-65: 126)FP&D (FY-66: 2,340) |
| 9130 - ADV. SATURN THIRD STAGE S-IVB STATIC TEST FACILITY | 9,051 (180) (195) (20,250)* (353) (4,407) (12) (3,904) | 0 (0) (0) (0) (0) (0) (0) (0) | 0 (0) (0) (0) (0) (0) (0) (0) | 169 (0) (-2) (0) (0) (0) (0) (100) | 169 (0) (-2) (0) (0) (0) (0) (100) | 2,277 (0) (0) (0) (82) (698) (10) (1,487) | 13,450 (FY-62: 180)FP&D (FY-63: 195)FP&D (FY-63: 20,250)* (FY-64: 560)FP&D (FY-64: 5,105) (FY-65: 22)FP&D (FY-65: 7,388) |
| 9131 - J-2 ENGINE FACILITIES | 17,997 (6,292) (20) (4,791) (170) (6,434) (22) (268) (0) | 142 (0) (0) (0) (0) (0) (0) (142) (0) | 142 (0) (0) (0) (0) (0) (0) (142) (0) | 505 (-295) (0) (0) (0) (0) (35) (765) (0) | 505 (-295) (0) (0) (0) (0) (35) (765) (0) | 6,223 (0) (0) (0) (43) (0) (183) (3,732) (2,265) | 26,259 (FY-62: 6,300) (FY-63: 20)FP&D (FY-63: 4,950) (FY-64: 213)FP&D (FY-64: 6,477) (FY-65: 205)FP&D (FY-65: 5,829) (FY-66: 2,265) |

*R&D FUNDS

SCHEDULE RESPONSIBILITY Dr. Wernher von Braun

STATUS RESPONSIBILITY J. R. Lada

MANNED SPACE FLIGHT SCHEDULE
**MSFC-VARIOUS LOCATIONS
 CONSTRUCTION OF FACILITIES
 OBLIGATION TABULATION**

LEVEL

ORIGINAL SCHED. APPROVAL _____ (Date)

LAST SCHED. CHANGE 7/31/65 (23) (Date) (No.) (Initials)


STATUS AS OF 7/31/65 (Date) (Initials)

PROJECT:
 SCH'D NO:

CONTRACTOR

| PROGRAM OR PROJECT ELEMENT | TOTAL OBLIGATIONS PRIOR FY | PLANNED OBLG TO DATE CURRENT FY | PLANNED OBLG JUNE (65-2) | ACTUAL OBLG TO DATE CURRENT FY | ACTUAL OBLG JULY | PLANNED TOTAL OBLG CURRENT FY | PLANNED TOTAL OBLG AT COMPL |
|---|---|--|--|---|---|--|---|
| (C OF F SUPPORT OF APPROVED R & D PROJECTS) | | | | | | | |
| 9133 - H-1 ENGINE FACILITIES | 1,457 (82) (1,375) | 0 (0) (0) | 0 (0) (0) | 0 (0) (0) | 0 (0) (0) | 43 (8) (35) | 1,500 (FY-63: 90)FP&D (FY-64: 1,410) |
| 9140 - SUPPORT SERVICE BLDG. FOR F-L ENGINE | 872 (872) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 885 (FY-63: 885) |
| SUB-TOTAL | 89,123 (717) (21,450) (297) (35,669) (754) (22,680) (49) (7,507) (0) | 155 (0) (0) (0) (0) (0) (0) (0) (0) (0) | 155 (0) (0) (0) (0) (0) (0) (0) (155) (0) | 652 (0) (-385) (-2) (0) (0) (101) (60) (878) (0) | 652 (0) (-385) (-2) (0) (0) (101) (60) (878) (0) | 15,812 (0) (265) (8) (59) (191) (2,402) (450) (6,615) (5,822) | 109,154 (FY-62: 717)FP&D (FY-62: 21,723) (FY-63: 305)FP&D (FY-63: 35,945) (FY-64: 1,070)FP&D (FY-64: 25,125) (FY-65: 499)FP&D (FY-65: 17,948) (FY-66: 5,822) |

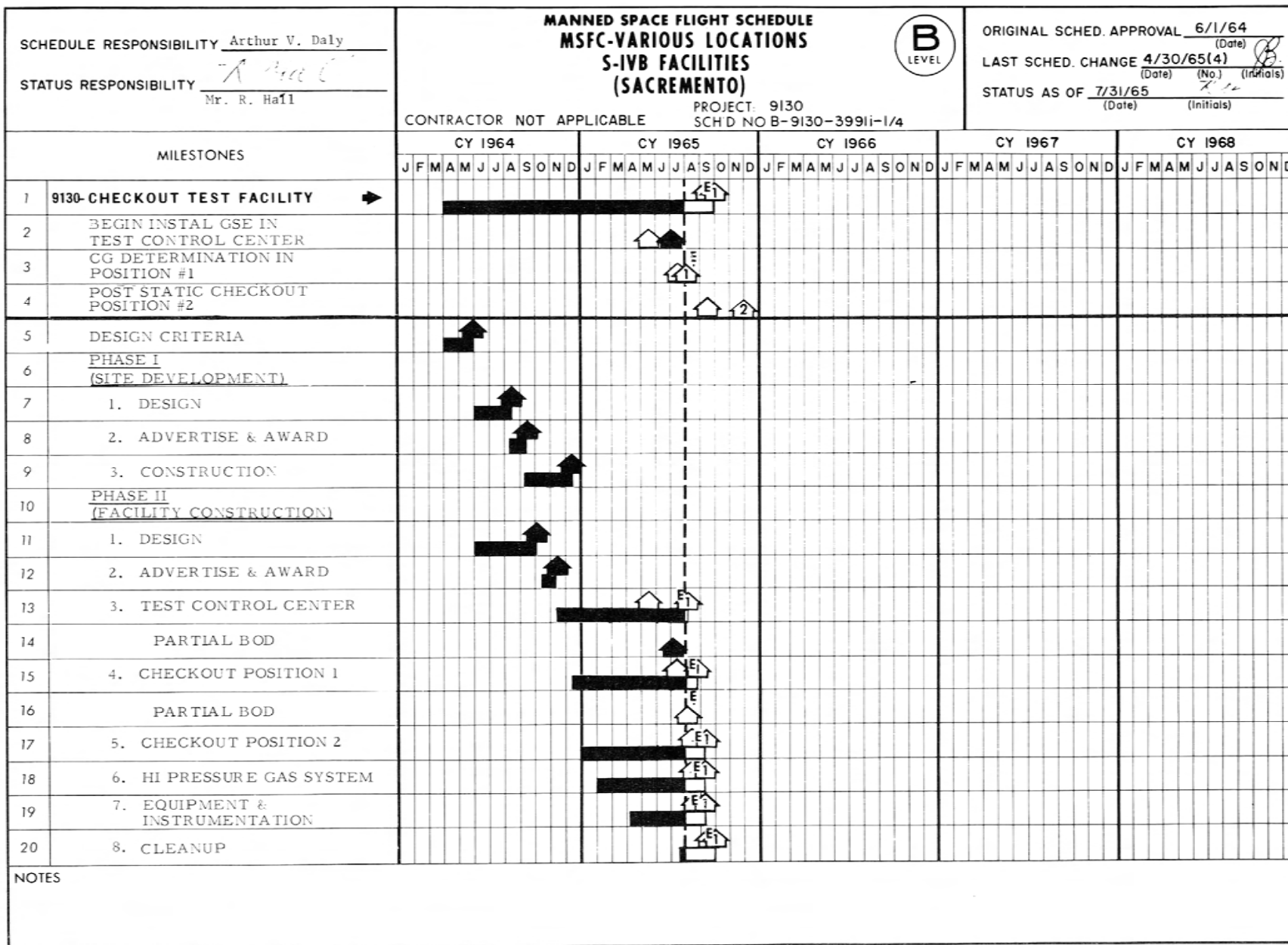
(*) R&D FUNDS

| SCHEDULE RESPONSIBILITY <u>Arthur V. Daly</u> STATUS RESPONSIBILITY <u>Mr. M. Jenkins</u> | | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS F-1 ENGINE FACILITIES (EDWARDS, SUSANA & CANOGA) | | |  | ORIGINAL SCHED. APPROVAL <u>9/30/64</u> <small>(Date)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|---|---|---|---|--|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CONTRACTOR NOT APPLICABLE | | | | | LAST SCHED. CHANGE <u>4/30/65 (1)</u> <small>(Date) (No.) (Initials)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | PROJECT: 9109 SCH'D NO B-9109-4391-1 /1 | | | | | STATUS AS OF <u>7/31/65</u> <small>(Date) (Initials)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MILESTONES | | CY 1964 | | | | CY 1965 | | | | CY 1966 | | | | CY 1967 | | | | CY 1968 | | | | | | | | | | | | | | | | | |
| | | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O |
| 1 | 9109-F-1 ENGINE FAC (FY-66) | | | | | | | | | | | | | | | | | ↑ | | | | | | | | | | | | | | | | | |
| 2 | CRITERIA | | | | | ↑ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | DESIGN | | | | | | | | ↑ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | BID & AWARD | | | | | | | | ↑ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | CONSTRUCTION | | | | | | | | ↑ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | ACTIVATION | | | | | | | | ↑ | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SCHEDULE RESPONSIBILITY <u>Arthur V. Daly</u> STATUS RESPONSIBILITY <u>Mr. R. Bush</u> | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS S-II STAGE FACILITIES (SANTA SUSANA) PROJECT: 9118 SCH'D NO B-9118-3391q-1/6 | (B) LEVEL | ORIGINAL SCHED. APPROVAL <u>3/31/63</u> (Date) LAST SCHED. CHANGE <u>6/30/65 (6)</u> (Date) (No.) (Initials) STATUS AS OF <u>7/31/65</u> (Date) (Initials) |
| MILESTONES | CONTRACTOR NOT APPLICABLE | | |
| | CY 1963 | CY 1964 | CY 1965 |
| | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D |
| 1 | 9118- HI PR GAS & THERMAL CONTROL SYSTEM → | | |
| 2 | CRITERIA | | |
| 3 | DESIGN | | |
| 4 | BID & AWARD | | |
| 5 | PROCUREMENT | | |
| 6 | INSTALLATION | | |
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| NOTES | | | |

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| SCHEDULE RESPONSIBILITY <u>Arthur V. Daly</u> STATUS RESPONSIBILITY <u>Mr. R. Bush</u> | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS S-II STAGE FACILITIES (SEAL BEACH, SANTA SUSANA) PROJECT: 9118 SCH'D NO B-9118-3391-1/2 | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="font-size: 24px; font-weight: bold; margin: 0 5px;">B</div> <div style="font-size: 8px; margin: 0 5px;">LEVEL</div> </div> | ORIGINAL SCHED. APPROVAL <u>3/31/63</u> <small>(Date)</small> LAST SCHED. CHANGE <u>6/30/65(2)</u> <small>(Date) (No.) (Initials)</small> STATUS AS OF <u>7/31/65</u> <small>(Date) (Initials)</small> | | |
| MILESTONES | CONTRACTOR NOT APPLICABLE | | | | |
| | CY 1964 | CY 1965 | CY 1966 | CY 1967 | CY 1968 |
| | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D |
| 1 | 9118- SATURN V SECOND STAGE S-II DEVELOPMENT FAC → | | | | |
| 2 | BULKHEAD FAB ADDITION (SEAL BEACH) | | | | |
| 3 | BOND LAY-UP AREA (SEAL BEACH) | | | | |
| 4 | EXPAND DATA RECORDING SYS (SANTA SUSANA) | | | | |
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| NOTES | | | | | |

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| SCHEDULE RESPONSIBILITY <u>Arthur V. Daly</u> STATUS RESPONSIBILITY <u>Mr. R. Hall</u> | MANNED SPACE FLIGHT SCHEDULE MSFC-VARIOUS LOCATIONS S-IVB STAGE FACILITIES (SACTO) | <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="font-size: 20px; font-weight: bold; margin-right: 5px;">B</div> <div style="font-size: 8px; font-weight: bold; margin-right: 5px;">LEVEL</div> </div> | ORIGINAL SCHED. APPROVAL <u>3/31/63</u> <small>(Date)</small> LAST SCHED. CHANGE <u>1/31/65(6)</u> <small>(Date) (No.) (Initials)</small> STATUS AS OF <u>7/31/65</u> <small>(Date) (Initials)</small> | | |
| CONTRACTOR NOT APPLICABLE | | PROJECT: 9130 SCH'D NO B-9130-3291d-1/6 | | | |
| MILESTONES | CY 1963 | CY 1964 | CY 1965 | CY 1966 | CY 1967 |
| | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D |
| 1 | 9130- CONVERSION OF BETA 1 FOR ACCEPT TEST (NOTE 6) → | | | | |
| 2 | INSTALL 203 | | | | |
| 3 | CRITERIA | | | | |
| 4 | DESIGN | | | | |
| 5 | ADVERTISE & AWARD | | | | |
| 6 | PROCUREMENT & CONSTRUCTION (NOTE 6) | | | | |
| 7 | PROPELLANT, GAS STORAGE & TRANSFER MODIF (NOTE 6) | | | | |
| 8 | TEST STAND MODIF (NOTE 6) | | | | |
| 9 | EQUIPMENT & INSTRUMENTATION (NOTE 6) | | | | |
| 10 | FACILITY CHECKOUT (NOTE 6) | | | | |
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| NOTES ALL NOTES WILL BE SHOWN ON PAGE 8. | | | | | |



NOTES

