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MSC-APOLLO-4 Vol. I



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

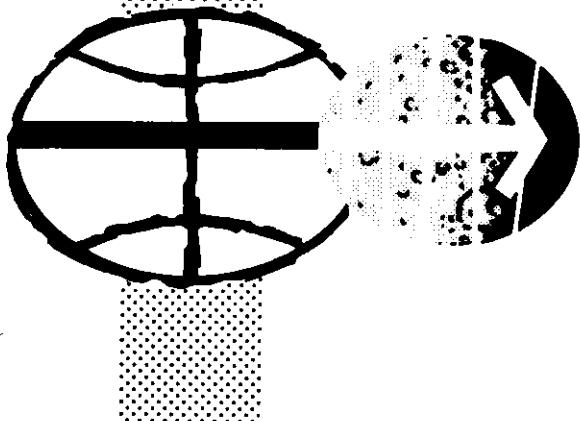
Apollo Engineering and Technology Index

VOLUME I — CORPORATE AUTHOR INDEX

JULY 1968

(THIS ISSUE SUPPLEMENTS THE JANUARY 1968 ISSUE  
AND SUPERSEDES MSC-APOLLO-3 VOL. I)

*✓desir de  
MSC Apollo  
Vol. 1*



MANNED SPACECRAFT CENTER  
HOUSTON, TEXAS



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## INTRODUCTION

The Apollo Engineering and Technology Index (AETI) is a computer print-out listing a majority of the pertinent design and development reports published by the Apollo spacecraft contractors and the National Aeronautics and Space Administration. This index was designed to aid an engineer searching for pertinent reports that relate to engineering developments, decisions, design approaches, and problems encountered in the evolution of his project.

The complete AETI consists of three volumes: Volume I, Corporate Author Index, is an alphabetical listing, by corporate source, of engineering reports; Volume II, Systems Index, separates the published engineering reports by systems with a further breakdown into subsystems and major equipment groups; Volume III, Configurations Index, is a listing of documents grouped by configuration. A configuration is an equipment group assembled for a unique mission. Examples are Boiler-plates (BP-1), Missions (AS-201), NAA Air Frames (AF-001), Grumman Configurations (LTA-8), or NAA Spacecraft (SC 008).

The documents listed in this index can be obtained for reference from the MSC library which is located on the first floor of building 45, Manned Spacecraft Center, Houston, Texas. To locate and obtain a document, either the MSC accession number or the contractor's report number can be used. Since the MSC accession number quickly gives the location of the document, it will be used whenever possible.

Permanent loan copies of any document listed in this index can be obtained on approval of Mr. Herbert L. Tash, Apollo Data Manager, Code PP3, Manned Spacecraft Center, Houston, Texas. All requests for documents will be via a Request for Apollo Documentation (RAD) form or by memo. Additional copies of this index may also be obtained from the Apollo Data Manager. MSC personnel and their local support contractor personnel can obtain additional information by calling extension 2198.

This index, Volume I, is a complete listing of all Apollo documents indexed in the first and second quarters of 1968. This index is intended to supplement the cumulative index published in January 1968 (MSC-APOLLO-2 Vol. I). The index will be compiled quarterly and will contain a cumulative listing of all documents indexed during the current year. The April 1968 edition now may be discarded.

DOCUMENTATION NUMBERING SYSTEMS OF SELECTED  
CORPORATE AUTHORS

Certain corporations have an alphanumeric classification system by which their documentation is identified. The following table gives the documentation identification format used by some of the corporations which appear in the Apollo Engineering and Technology Index.

| Document number format                             | Type of document                          |
|--|---|
| <hr/>  |   |
| <u>AC Spark Plug/Electronics Division, G. M.</u>   |   |
| AP-M-1010  | Monthly Progress Reports                  |
| EP10-101   | Quarterly Progress Reports                |
| EP10-101-10  | General                                   |
| ND-10101010  | Manuals                                   |
| A-1010   | Courses                                   |
| AA-1010  | Courses                                   |
| 63-101 and 64-101                                  | General                                   |
| <hr/>  |   |
| <u>Aerojet-General Corp.</u>                       |   |
| DD-101 No. 10-101                                  | General                                   |
| 1010-101-10  | Monthly Progress Reports                  |
| <hr/>  |   |
| <u>General Dynamics/Convair</u>                    |   |
| CS-63-101  | Manuals                                   |
| DC-12-101  | General                                   |
| GD/C-10-101  | General                                   |
| <hr/>  |   |
| <u>General Electric/Missile and Space Division</u> |   |
| NASW-410-AM-10                                     | Manuals                                   |
| NASW-410-10-10-101                                 | General                                   |
| 63A10101   | ACE Spacecraft End-Item<br>Specifications |
| <hr/>  |   |
| <u>Grumman Aircraft Engineering Corp.</u>          |   |
| ASR 378  | Apollo Extension System Manuals           |
| LED 360-101  | Measurements Lists                        |
| LMA-101-10101                                      | LM Support Manuals                        |

DOCUMENTATION NUMBERING SYSTEMS OF SELECTED  
CORPORATE AUTHORS - Concluded

| Document number format                                | Type of document                              |
|---|---|
| <u>Grumman Aircraft Engineering Corp. - Concluded</u> |   |
| LPC-10-1010   | Procedures                                    |
| LPL-10-10-1010  | Plans   |
| LPR-10-01   | Monthly Progress Reports                      |
| LPR-15-01   | Documentation Summary Reports                 |
| LPR-50-01   | Quality Control Reports                       |
| LSM-14-10101  | General Specifications                        |
| LSP-10-10101  | General Specifications                        |
| LTP-101-1010  | Test Procedures                               |
| LTR-101-1010  | Test Reports and Results                      |
| LVR-101-10101   | Vendor Requirements                           |
| 010101  | Study Guides                                  |
| <u>MIT/Instrumentation Laboratory</u>                 |   |
| E-1010  | General                                       |
| PS010101  | Performance Specifications                    |
| R-101   | General                                       |
| V14-10-101-A  | Catalogues of Engineering Drawings            |
| <u>North American Rockwell Corp./SID</u>              |   |
| ARM-01  | Requirements Manuals                          |
| A-101   | Courses, Study Guides                         |
| CD-101  | Courses                                       |
| SID 01-010  | General                                       |
| SD 01-010   | General                                       |
| SM2A-01-010   | Handbooks and Manuals                         |
| SM3A-01-010   | Handbooks and Manuals                         |
| <u>TRW Systems/Houston Operations</u>                 |   |
| IOC 01-0101.01  | Interoffice Correspondence                    |
| TM-01-0101.1-01                                       | Technical Memorandums                         |
| 1010-H101-01-010                                      | General                                       |
| 10101-0101-01-01                                      | General                                       |
| MSC IN-01-AB-0101                                     | MSC/TRW Joint Studies<br>(AETI notation only) |



## INSTRUCTIONS

In order to use the Corporate Author Index, the following procedure is recommended:

1. Select the desired Corporate Author. The page number of each Corporate Author is found in the table of contents, page iii.
  2. Under the Corporate Author heading, the document is easily found by the contractor report number. The contractor report numbers are listed in alphabetical and/or numerical sequence.

A typical document citation is as follows:

1 Contractor report number 2 Issue date: day, month, year 3 MSC accession number 4 Contract number  
AP-M-2436 11-02-64 \*65-10292 NAS9-497  
LEM RELIABILITY QUARTERLY PROGRESS REPORT, DEC. 1963

- 1 The contractor report number is usually used in references or bibliographies to identify the document.
  - 2 The issue date is the date when the document was printed. A revision of a document will have a new issue date.
  - 3 The MSC accession number indicates the shelf position of the document. This number will be used to obtain a reference document.
  - 4 The contract number distinguishes between similar documents written under different contracts.

# CORPORATE AUTHOR INDEX

## TYPICAL CITATION

① Contractor report number    ② Issue date: day, month, year    ③ MSC accession number    ④ Contract number  
 AP-M-2436    11-02-64    \*65-10292    NAS9-497  
 LEM RELIABILITY QUARTERLY PROGRESS REPORT, DEC. 1963

### AC SPARK PLUG/ELECTRONICS DIV. G. M.

AP-M-7818    30-07-65    \*68-17355    NAS9-497  
 RECOMMENDED APOLLO GROUND EQUIPMENT MASTER LIST 1-FIELD MAINTENANCE EQUIPMENT SECTION  
  
 AQRR AC-284-1    13-02-67    \*68-16382    NAS9-497  
 QUALIFICATION TEST RECORD AND REVIEW REPORT, DIODE, FAST RECOVERY-GE  
  
 AQRR 233-1    13-02-67    \*68-16386    NAS9-497  
 QUALIFICATION TEST RECORD AND REVIEW REPORT, DIODE-GE  
  
 AQRR 285-1    16-03-67    \*68-16383    NAS9-497  
 QUALIFICATION TEST RECORD AND REVIEW REPORT, DIODE, CERTIFIED VOLTAGE REFERENCE-TRANSISTOR  
  
 AQRR 314-1A    09-05-67    \*68-16384    NAS9-497  
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 QUALIFICATION TEST RECORD AND REVIEW REPORT, CAPACITOR-MARSHALL IND  
  
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 DETAILED TEST OBJS. FOR LAUNCH VIBRATION QUL OF THE LM POWER AND SERVO ASSY. AND SIGNAL CONDITIONER ASSY  
  
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 DETAILED TEST OBJS FOR HUMIDITY, REQUALIFICATION OF THE INERTIAL SUBSYSTEM CM BLOCK 2 POWER SERVO ASSY. AND G + N HARNESS GROUP  
  
 EP64-H    00-08-64    \*68-17396    NAS9-497  
 MONTHLY TECHNICAL PROGRESS REPORT (AUG 1964) APOLLO GUIDANCE AND NAVIGATION SYSTEM  
  
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| ND 1021041 REV L 01-09-65 *66-11720 NAS 9-497<br>APOLLO COMMAND MODULE BLOCK-1,SERIES 100 GUIDANCE AND NAVIGATION SYST<br>EM MANUAL VOL. I AND II   |  | TR- 314- 1 09-05-67 *68-16384 NAS9-497<br>QUALIFICATION TEST RECORD AND REVIEW REPORT,TRANSFORMER BUSH  |   |
| ND 1021042 REV AN 01-02-66 *66-11721 NAS 9-497<br>APOLLO-LUNAR EXCURSION MODULE,PRIMARY GUIDANCE,NAVIGATION,AND CONTROL<br>MANUAL.VOLS. I AND II  |  | TR- 331- 1 09-05-67 *68-16387 NAS9-497<br>QUALIFICATION TEST RECORD AND REVIEW REPORT,CAPACITOR-MARSHALL IND  |   |
| ND 1021043 REV U 11-03-66 *66-11722 NAS 9-497<br>APOLLO CM BLOCK II PRIMARY GUIDANCE,NAVIGATION AND CONTROL SYSTEM MAN<br>UAL   |  | TR- 348- 1 05-01-67 *68-16385 NAS9-497<br>QUALIFICATION TEST RECORD AND REVIEW REPORT,MOTOR-TACHOMETER-SOLVERE  |   |
| SM2400 (COURSE) 25-11-66 *67-14027 NAS 9-497<br>APOLLO COMMAND MODULE PRIMARY GUIDANCE,NAVIGATION CONTROL AND SYSTEM.<br>STUDENT STUDY GUIDE BLOCK II   |  | TR-1516 15-12-66 *68-16393 NAS9-497<br>EJECTABLE DUST COVERS USED WITH ASTROSEXTANT PASSIVE THERMAL<br>PROTECTION SYS.+DUAL TESTS BLOCK 1                         |   |
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| TPA 1517 00-02-67 *68-16392 NAS9-497<br>QUAL TEST PLAN FOR CM BLOCK 2 ASTROSEXTANT PASSIVE THERMAL<br>PROTECTION SYS VIBRATION AND SHOCK  |  | 20-P-361 06-02-67 *68-16460 NAS9-497<br>PARTS AND MATERIAL TEST RECORD,DIODE-CERTIFIED VOLTAGE REFERENCE-<br>TRANSITRON ELFCT. CORP.                              |   |
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| NONE                               | 00-01-59 *68-17800 GAEC P.O. 2-24456C<br>LM DESCENT STAGE PROPELLANT TANK ADDITIONAL DOCUMENTATION CONTROL NO LSC-280-4-71 ALLISON SERIAL NO G-032 | NONE                               | 01-09-67 *68-16959 GAEC P.O. 2-24456C<br>COVER-DESCENT STAGE PROPELLANT TANK FUEL-Y-END ITEM DOCUMENTATION PACKAGE FOR COVER P/N 6857259 S/N 121XSB |
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| NONE                               | 00-01-58 *68-17846 GAEC P.O. 2-24456C<br>LM DESCENT STAGE PROPELLANT TANK ADDITIONAL DOCUMENTATION, ALLISON-S/N G-042                              | NONE                               | 00-05-67 *68-16960 GAEC P.O. 2-24456C<br>COVER-OXIDIZER TANK-Z-END ITEM DOCUMENTATION PACKAGE FOR COVER P/N 6857258 S/N 124XSB                      |
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| NONE                               | 00-01-68 *68-17836 GAEC P.O. 2-24456C<br>LM DESCENT STAGE PROPELLANT TANK ADDITIONAL DOCUMENTATION, ALLISON-S/N G-011                              | NONE                               | 04-08-67 *68-16334 GAEC P.O. 2-24456C<br>END ITEM DOCUMENTATION PACKAGE FOR COVER-FUEL TANK S/N 113-114 XRA   |
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① Contractor report number AP-M-2436  
 ② Issue date: 11-02-64  
 ③ MSC accession number \*65-10292  
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| NONE                                      | 00-12-67 *68-17991 GAEC P.O. 3-52518C<br>NARRATIVE END ITEM REPORT FOR THE WATER QUANTITY MEASURING DEVICE,<br>PART NO LSC 360-00009-01-2D, SERIAL NO 163            | NONE                                      | 05-02-68 *68-17467 GAEC P.O. 4-04007C<br>END-ITEM TEST AND INSPECTION DATA SHEETS FOR THE PROPELLANT QUANTITY<br>MEASURING DEVICE S/N 141                             |

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| NONE                                      | 05-09-67 *68-16613 GAEC P.O. 4-04007C<br>NARRATIVE END ITEM REPORT FOR THE PROPELLANT QUANTITY MEASURING DEVICE,PART NO. LSC 360-628-1-18,S/N 119                  | ER-318-25                     | 20-09-57 *68-16829 GAEC P.O. 5-09195<br>INSTALLATION QUALIFICATION TEST RESULTS FOR LEM INTERSTAGE DISCONNECTS  |
| NONE                                      | 18-09-67 *68-16663 GAEC P.O. 4-04007C<br>NARRATIVE END ITEM REPORT FOR THE PROPELLANT QUANTITY MEASURING DEVICE,PART NO. LSC 360-628-1-18,S/N 124                  | ER-318-26                     | 15-04-68 *68-18614 GAEC P.O. 5-09195<br>INSTALLATION QUALIFICATION TEST PLAN FOR LEM INTERSTAGE DISCONNECTS, P/N 318000-1-6 AND 3-3                                 |
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| NONE                                      | 18-09-67 *68-16662 GAEC P.O. 4-04007C<br>NARRATIVE END ITEM REPORT FOR THE PROPELLANT QUANTITY MEASURING DEVICE,PART NO. LSC 360-628-1-18,S/N 122                  | ER-385-5 REV C                | 12-12-67 *68-17517 NCNE<br>QUALIFICATION TEST PROCEDURE HELIUM REGULATOR-MODEL 385000   |
| NONE                                      | 05-09-67 *68-16614 GAEC P.O. 4-04007C<br>NARRATIVE END ITEM REPORT FOR THE PROPELLANT QUANTITY MEASURING DEVICE,PART NO. LSC 360-628-1-18,S/N 119                  | ER-385-6                      | 00-01-68 *68-17417 GAEC P.O. 5-09195<br>QUALIFICATION TEST REPORT-HELIUM REGULATOR-MODEL 385000   |
| NONE                                      | 05-09-67 *68-16615 GAEC P.O. 4-04007C<br>NARRATIVE END ITEM REPORT FOR THE PROPELLANT QUANTITY MEASURING DEVICE,PART NO. LSC 360-628-1-18,S/N 120                  | NONE                          | 00-00-67 *68-18246 GAEC P.O. 5-09195<br>END ITEM ACCEPTANCE DATA PACKAGE FOR THE REGULATOR,ASCENT ENGINE S/N 110-S/N 111,P/N 385000-5-6                             |
| NONE                                      | 00-07-67 *68-16401 GAEC P.O. 4-41954<br>QUALIFICATION TEST PLAN FOR TRANSDUCER,ABSOLUTE PRESSURE,MODELS 1025 AND 1026  | NONE                          | 00-00-67 *68-17470 GAEC P.O. 9-31457<br>END ITEM ACCEPTANCE DATA PACKAGES FOR THE DISCONNECT,CRYOGENIC, INTERSTAGE DESCENT HALF,P/N 318000-1-14K,S/N 038251-1640166 |
| EXPLOSIVE TECHNOLOGY, INC.                |  | NONE                          | 00-09-67 *67-15643 GAEC P.O. 9-31457<br>END ITEM ACCEPTANCE DATA PACKAGE FOR THE DISCONNECT,CRYOGENIC, INTERSTAGE,ASCENT HALF,P/N 318003-3-3 K,S/N 03825K640226     |
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| MONTHLY PROGRESS REPORT, ENVIRONMENTAL CONTROL SYSTEM, 16 DECEMBER 1965<br>TO 15 JANUARY 1966                                       |          |           | BLOCK 2, GROUP 1 QUALIFICATION TEST REPORT, CABIN PRESSURE REGULATOR,<br>PART NO. 910230-1-1                                 |  |  |   |          |           |                            |  |  |
| SS- 1013-R (45)   | 28-02-66 | *68-13179 | P O M3J3XA-406005 M5J3XA-450029  |  |  | SS- 1661-R                                      | 19-0F-66 | *68-16417 | NAA/SID P.O. M5J3XA-450029 |  |  |
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NONE 22-08-66 \*68-18287 NONE  
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NONE 03-10-66 \*68-18285 NONE  
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| LCS-430-62010                                  | 18-07-67 | *68-16298 | NAS9-1100<br>END ITEM CALIBRATION SPECIFICATION SENSOR UNIT INJECTOR FLOW RCS LSC 430-62010           | LED 490-                                       | 1008     | 15-02-65  | *65-10116 NAS9-1100<br>ALLOCATION OF PROPELLANTS AND DELTA V TO MEET THE DELTA V BUDGET               |
| LCS-430-64230                                  | 03-08-67 | *68-16295 | NAS9-1100<br>END ITEM CALIBRATION SPECIFICATION RCS FUEL TRANSFER CONTROL ASSEMBLY LDW 430-64230      | LED 500-                                       | 7        | 01-08-65  | *67-14599 NAS9-1100<br>TRAJECTORY AND ATTITUDE CONSTRAINTS FOR THE LEM VOLUME 2- ATTITUDE CONSTRAINTS |
| LCS-430-64240                                  | 03-08-67 | *68-16294 | NAS9-1100<br>END ITEM CALIBRATION SPECIFICATION RCS OXIDIZER TRANSFER CONTROL ASSEMBLY LDW 430-64240  | LED 520-                                       | 15C      | 29-09-67  | *66-12118 NAS9-1100<br>LEM DESCENT STAGE STRUCTURAL ANALYSIS,VOLUMES I,II. APPENDICES A + B           |
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SVHS 3450-50 14-12-67 \*68-18497 GAEC P.O. 2-18828C  
 LM ECS ITEM I-130, SV 728379 ABSOLUTE PRESSURE TRANSDUCER, QUALIFICATION TEST PLAN FOR

SVHS 3450-51 24-01-68 \*68-18498 GAEC P.O. 2-18828C  
 LM ECS ITEM 190 (TITANIUM FRAME) COMPONENT DESIGN LIMIT/ENDURANCE QUALIFICATION, TEST PLAN FOR

SVHS 3450-52 10-02-68 \*68-18176 GAEC P.O. 2-18828-C  
 ITEM 138-SUIT BY-PASS VALVE, COMBINED DESIGN LIMIT AND ENDURANCE LIMIT QUALIFICATION TEST PLAN FOR + AMEND 1

SVHS 3450-53 17-02-68 \*68-18177 GAEC P.O. 2-18828-C  
 LM ECS ITEM 190 (CODE 2 ALUMINUM FRAME) COMPONENT DESIGN LIMIT/ENDURANCE QUALIFICATION TEST PLAN FOR, AND AMENDMENT 1 AND 2

SVHS 3463 REV B 18-03-68 \*68-18465 GAEC P.O. 2-18828C  
 SPECIFICATION, LM ECS ITEM 118, MOTOR, BRUSHLESS D.C. (GLOBE) FOR SUIT CIRCUIT FAN

SVHS 3500- 10 20-06-67 \*68-16594 NONE  
 CABIN DUMP AND RELIEF VALVE LEM ECS ITEM 307

### HAMILTON STANDARD DIV./UNITED AIRCRAFT CORP. - Continued

SVHS 3500- 8 REV E 05-12-67 \*68-18467 GAEC P.O. 2-18828C  
 RFCIRCULATION ASSEMBLY, COOLANT-LM END ITEM 290, ACCEPTANCE TEST PLAN

SVHS 3500-15-D 31-10-67 \*68-16973 GAEC P.O. 2-18828-C  
 EMERGENCY WATER BOILER, LEM ECS ITEM 107, ACCEPTANCE TEST PLAN

SVHS 3500-16 REV D 22-04-65 \*68-18203 NONE  
 WATER SEPARATOR-CENTRIFUGAL LEM ECS ITEM 109, ACCEPTANCE TEST PLAN

SVHS 3500-17, REV C 18-11-67 \*68-18506 GAEC P.O. 2-18828C  
 ACCEPTANCE TEST PLAN, REGENERATIVE HEAT EXCHANGER-SUIT CIRCUIT LEM ECS ITEM 111

SVHS 3500-18 REV E 05-01-68 \*68-18162 GAEC P.O. 2-18828-C  
 SUIT CIRCUIT ASSEMBLY LM ECS ITEM 190-ACCEPTANCE TEST PLAN, REV E

SVHS 3500-26, REV B 19-11-67 \*68-18505 GAEC P.O. 2-18828C  
 ACCEPTANCE TEST PLAN, RELIEF VALVE-SUIT CIRCUIT LEM ECS ITEM 117

SVHS 3500-27E 06-10-67 \*68-16595 NONE  
 WATER BOILER-POROUS PLATE LEM ECS ITEM 209

SVHS 3500-52G 16-06-67 \*68-16596 NONE  
 WATER CONTROL MODULE LEM ECS ITEM 490

SVHS 3500-53, REV G 27-01-68 \*68-18504 GAEC P.O. 2-18828C  
 ACCEPTANCE TEST PLAN, VALVE 02 INFLOW REGULATOR LEM ECS ITEM 306

SVHS 3500-71 REV C 01-11-67 \*68-16977 GAEC P.O. 2-18828-C  
 REDUNDANT/SECOND PRIMARY COOLANT WATER EVAPORATOR LEM ECS ITEM 224

SVHS 3500-84 16-12-67 \*68-18500 GAEC P.O. 2-18828C  
 LM ECS ITEM 138, VALVE, SUIT BY-PASS, PRODUCTION ACCEPTANCE TEST PLAN FOR

SVHS 3500-86 11-10-67 \*68-16975 GAEC P.O. 2-18828-C  
 LM ECS ITEM 406-WATER SHUT OFF VALVE ACCEPTANCE TEST PLAN

SVHS 3500-87 01-12-67 \*68-18499 GAEC P.O. 2-18828C  
 LM ECS ITEM 102 MOTOR, CABIN FAN, ACCEPTANCE TEST PLAN FOR

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SVHS 3500-R8 10-12-57 \*68-18794 GAEC P.O. 2-24494-C  
LM FCS I-130 SV 728379 ABSOLUTE PRESSURE TRANSDUCER,PRODUCTION  
ACCEPTANCE TEST FOR

SVHS 3647 REV A 05-12-57 \*68-18466 GAEC P.O. 2-18828-C  
SPEC,DIELECTRIC SEALING (POTTING AND MOLDING) OF ELECTRICAL  
CONNECTORS AND COMPONENTS FOR HIGH TEMPERATURES (-65 TO 500 DEG)

SVHS 3995D 27-02-69 \*68-16597 NONE  
ELECTRICAL TESTING,SUBASSEMBLY,LM-118 SUIT CIRCUIT FAN MOTOR REV D

SVHS 4007 19-04-67 \*68-16599 NONE  
ENGINEERING TEST PROGRAM-LM ITEM 209

SVHS 4031 19-07-57 \*68-16599 NONE  
TEMPERATURE AND PRESSURE AGING FOR LM 1-126,1-130,AND 1-202 PRESSURE  
TRANSDUCER

SVHS 4063A 12-09-67 \*68-16600 NONE  
VALVE,SUIT BY-PASS-ITEM 138

SVHS 4098 11-09-67 \*68-16665 NONE  
TRANSDUCER,DIFFERENTIAL PRESSURE,PART NO. SV 728378 AND SV 728380,  
PROCUREMENT SPECIFICATION (GAEC TYPE 1)

SVHS 4099 11-09-67 \*68-16666 NONE  
TRANSDUCER,ABSOLUTE PRESSURE,PART NO. SV 728379,PROCUREMENT  
SPECIFICATION (GAEC TYPE 1)

SVHS 4346 27-03-58 \*68-18642 NONE  
WIRING,ELECTRICAL,INSTALLATION OF

SVHSE 3197 09-03-65 \*68-17567 GAEC P.O. 2-18828-C  
APOLLO EXTRAVEHICULAR MOBILITY UNIT TO THE AIR FORCE SPACE SYSTEM  
DIV AFSC AND AEROSPACE CORPORATION (U)

SVHSE 4299A 15-12-66 \*68-16971 GAEC P.O. 2-18828-C  
DESIGN LIMIT TEST RPT-LM-FCS CABIN AIR RECIRCULATION ASSY,CABIN  
TEMP CONTROL VALVE,WATER SHUT OFF VALVE

SVHSE 4301 REV A 09-04-68 \*68-18574 GAEC P.O. 2-18828-C  
DESIGN LIMIT QUALIFICATION TEST REPORT,DESCENT WATER TANK ASSEMBLY,IT  
EM 404,P/N SV 707778,S/N 5

SVHSE 4302 REV A 09-03-68 \*68-18597 GAEC P.O. 2-18828-C  
DESIGN LIMIT QUALIFICATION TEST REPORT,ITEM 409,ASCENT WATER TANK  
ASSEMBLY,P/N SV 707779,S/N 7

SVHSE 4304 07-11-67 \*68-18160 GAEC P.O. 2-18828-C  
DESIGN LIMIT PENALTY QUALIFICATION TEST REPORT,(SUPPLEMENT 1) LM  
ITEM 118-SUIT CIRCUIT FAN REF LSC-330-118

SVHSE 4323 REV. A 14-03-57 \*68-16970 GAEC 2-18828-C  
QUALIFICATION TEST REPORT-FLUXLESS BRAZED HEAT EXCHANGER,LSC-330-101  
-5-4,LM ECS

## HAMILTON STANDARD DIV./UNITED AIRCRAFT CORP. - Continued

SVHSE 4345 REV A 15-02-67 \*68-18575 GAEC P.O. 2-18828-C  
ENDURANCE QUALIFICATION TEST REPORT,ASCENT WATER TANK ASSEMBLY,ITEM  
409,P/N SV 715129,S/N 1

SVHSE 4346 REV A 10-04-68 \*68-18576 GAEC P.O. 2-18828-C  
ENDURANCE QUALIFICATION TEST REPORT,DESCENT WATER TANK ASSEMBLY,ITEM  
404,P/N SV 707778,S/N 13

SVHSE 4349 07-11-67 \*68-16960 GAEC 2-18828-C  
ENDURANCE LIMIT PENALTY QUALIFICATION-TEST REPORT LM ITEM 118-SUIT  
CIRCUIT FAN LSC-330-118

SVHSE 4373 12-11-67 \*68-16972 GAEC P.O. 2-18828-C  
ENDURANCE QT RPT-LM FCS CABIN AIR RECIRCULATION ASSY,CABIN TEMP  
CONTROL VALVE,WATER SHUT OFF VALVE

SVHSE 4392 22-08-57 \*68-16579 GAEC P.O. 2-18828-C  
QUALIFICATION TEST REPORT,FLUXLESS BRAZED HEAT EXCHANGER LSC-330-204,  
LM ENVIRONMENTAL CONTROL SYSTEM

SVHSE 4474 00-07-67 \*68-16570 GAEC P.O. 2-24494-C  
LM GENERAL PURPOSE INVERTER PHASE 2 QUALIFICATION TEST

SVHSE 4513 00-06-67 \*68-16574 NONE  
MOTOR ENDURANCE TEST-ITEM 191-CABIN AIR RECIRCULATION ASSEMBLY  
(ASU-06752)

SVHSE 4525 11-09-67 \*68-16581 GAEC P.O. 2-18828-C  
SUBLIMATOR QUALIFICATION EVALUATION TEST PROGRAM,VOLUME 2,  
FINAL TEST REPORT

SVHSE 4525 11-09-67 \*68-16580 GAEC P.O. 2-18828-C  
SUBLIMATOR QUALIFICATION EVALUATION TEST PROGRAM,VOLUME 1,FINAL  
TEST REPORT

SVHSE 4593 00-07-67 \*68-16577 GAEC P.O. 2-18828-C  
QUALIFICATION TEST REPORT FOR ITEM 425-FLOWLIMITER (LSC-330-425-1-1)

SVHSE 4594 00-07-67 \*68-16571 NONE  
POST QUALIFICATION TESTING LM ENVIRONMENTAL CONTROL SYSTEM

SVHSE 4705 00-07-67 \*68-16576 NONE  
LM ITEM 118 SUIT CIRCUIT FAN-ELECTRONIC PACKAGE TEMPERATURE  
FEASIBILITY TEST REPORT

SVHSE 4709 00-11-67 \*68-18153 GAEC P.O. 2-18828-C  
ENDURANCE QUALIFICATION TEST REPORT FOR CABIN DUMP VALVE LM ITEM 307,  
SV715386 REF GAEC LSC 330-307,APPENDIX 1

SVHSE 4711 18-01-67 \*68-16578 GAEC P.O. 2-18828-C  
DESIGN FEASIBILITY TEST REPORT OXYGEN SECTION,OXYGEN PRESSURE REG-  
ULATOR,LEM ITEM 306

SVHSE 4717 23-09-67 \*68-16575 NONE  
POST QUALIFICATION TESTING,LUNAR MODULE-ENVIRONMENTAL CONTROL SYSTEM,  
LM ITEM 100

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## TYPICAL CITATION

① Contractor report number ② Issue date: day, month, year ③ MSC accession number ④ Contract number  
 AP-M-2436 11-02-64 \*65-10292 NAS9-497  
 LEM RELIABILITY QUARTERLY PROGRESS REPORT, DEC. 1963

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### HAMILTON STANDARD DIV./UNITED AIRCRAFT CORP. - Continued

SVHSER 4741 08-12-67 \*68-18152 GAEC P.O. 2-18828-C  
 BACTERICIDAL WATER TEST OF THE WATER MANAGEMENT SECTION OF THE LUNAR  
 MODULE ENVIRONMENTAL CONTROL SYSTEM, SUPPLEMENT 1  
 SVHSER 4751 10-11-67 \*68-17052 GAEC P.O. 2-18828-C  
 QUALIFICATION TEST REPORT-FLUXLESS BRAZED HEAT EXCHANGER, LSC-330-106-  
 5-3, LEM ENVIRONMENTAL CONTROL SYSTEM  
 SVHSER 4752 10-11-67 \*68-17009 GAEC P.O. 2-18828-C  
 QUALIFICATION TEST REPORT, FLUXLESS BRAZED HEAT EXCHANGER LSC-330-111-  
 3-4, LM ECS  
 SVHSER 4769 00-02-68 \*68-18276 NONE  
 DESIGN LIMIT QUALIFICATION TEST REPORT FOR LM OXYGEN SUPPLY MODULE  
 SVHSER 4770 12-02-68 \*68-18159 GAEC P.O. 2-18828-C  
 SPECIAL VIBRATION QUALIFICATION TEST REPORT, LM ITEM 118 SUIT CIRCUIT  
 MOTOR  
 SVHSER 4771 23-02-68 \*68-18158 GAEC P.O. 2-18828-C  
 SPECIAL VIBRATION QUALIFICATION TEST REPORT, LM ECS ITEM 102 CABIN FAN  
 MOTOR  
 SVHSER 4780 00-12-67 \*68-18154 GAEC P.O. 2-18828-C  
 DESIGN FEASIBILITY TEST REPORT THERMAL CONTROL SUBLIMATOR, LM ITEM NO  
 209 (E + F CONFIGURATIONS)  
 SVHSER 4782 29-01-68 \*68-17587 GAEC P.O. 2-24488-C  
 POST QUALIFICATION TEST REPORT  
 SVHSER 4796 01-11-67 \*68-18156 GAEC P.O. 2-18828-C  
 LUNAR MODULE GENERAL PURPOSE INVERTER EMI FILTER CAPACITOR-  
 DISCHARGE TEST REPORT  
 SVHSER 4801 00-11-67 \*68-18155 GAEC P.O. 2-18828-C  
 LUNAR MODULE GENERAL PURPOSE INVERTER EMI FILTER QUALIFICATION  
 TEST REPORT  
 SVHSER 4804 07-12-67 \*68-18469 GAEC P.O. 2-18828C  
 INVERTER, GENERAL PURPOSE, LM, LIFE TESTING, TEST PLAN FOR  
 SVHSER 4807 03-01-68 \*68-18468 GAEC P.O. 2-18828C  
 INVERTER, GENERAL PURPOSE, LM, PHASE 2, SUPPLEMENTARY QUALIFICATION TEST  
 PLAN FOR  
 SVHSER 4913 30-11-67 \*68-16965 GAEC P.O. 2-18828-C  
 DESIGN LIMIT QUALIFICATION TEST REPORT, ITEM 122, LIOH CARTRIDGE,  
 LSC-330-122-3-5, LM ECS AIR REVITALIZATION SYSTEM

### HAMILTON STANDARD DIV./UNITED AIRCRAFT CORP. - Continued

SVHSER 4970 00-12-67 \*68-18470 GAEC P.O. 2-18828C  
 DESIGN FEASIBILITY TEST REPORT, CABIN PRESSURE SWITCH, LM ITEM NO 323,  
 P/N SV 707917, SV715266, SV717281, AND SV716278  
 SVHSER 4976 11-12-67 \*68-18157 GAEC P.O. 2-18828-C  
 DESIGN FEASIBILITY TEST REPORT WATER BACTERIA FILTER SYSTEM LOGIC  
 GROUP W  
 NCNE 00-03-65 \*68-17454 NONE  
 APOLLO EXTRA-VEHICULAR MOBILITY UNIT PRESIDENTIAL SCIENTIFIC  
 ADVISORY COMMITTEE  
 NONE 20-06-67 \*68-16573 GAEC P.O. 2-24494-C  
 END ITEM NARRATIVE REPORT LEM GENERAL PURPOSE INVERTER S/N 126  
 NONE 20-06-67 \*68-16572 GAEC P.O. 2-24494-C  
 END ITEM NARRATIVE REPORT LEM GENERAL PURPOSE INVERTER, S/N 125

### HONEYWELL/MILITARY PRODUCTS GROUP

APP-111-001 00-05-67 \*68-17042 NONE  
 REPORT OF POST QUALIFICATION TEST ON JG 90781 SERVOMETRIC INDICATOR  
 APP-112-001 00-05-67 \*68-17041 NONE  
 REPORT OF POST QUALIFICATION TEST ON JG 904 A 1 SERVOMETRIC INDICATOR  
 APP-113-002 00-05-67 \*68-17043 NONE  
 REPORT OF POST QUALIFICATION TEST ON JG 903A2 SERVOMETRIC INDICATOR  
 APP-114-001 00-05-67 \*68-17044 NONE  
 REPORT OF POST QUALIFICATION TEST ON JG905A1 SERVOMETRIC INDICATOR  
 R-ED 24568 27-02-67 \*68-18781 NAS9-6849  
 STATEMENT OF WORK, FOR NASA-MSC, LABORATORY DEMONSTRATION SYSTEMS,  
 EXHIBIT A

### HUGHES AIRCRAFT CORP.

HO206 06-01-66 \*68-17202 NONE  
 LEM OPTICAL RENDEZVOUS SUBSYSTEM PROGRAM REVIEW

|                           |   |                                      |  |
|---------------------------|---|--------------------------------------|--|
| IBM/FEDERAL SYSTEM DIV.   |   | WALTER KIDDE CO./WEBER AIRCRAFT DIV. |  |
| NONE                      | 23-06-67 *68-18631 NAS9-996<br>SIMULATION VEHICLE SYSTEMS-AS-500 SATURN DEVELOPMENT-VOL 2, RTCC-APOLL<br>O PROGRAMMING SYSTEMS                    | DR 5991                              | 00-08-56 *68-17316 NAS9-3497<br>PHASE 1 AND 2 FINAL REPORT ON THE DEVELOPMENT OF A NET COUCH-<br>RESTRAINT SYSTEM (STAR FILE 68-16183)           |
| NONE                      | 19-07-67 *68-18630 NAS9-996<br>MISSION SYSTEMS, AS-200 MISSION PLANNING, VOL 1-RTCC APOLLO PROGRAM<br>TESTING                                     | DR 5935                              | 00-03-57 *68-17317 NAS9-3497<br>APOLLO STOWABLE NET COUCH, PHASE 3 FINAL REPORT (STAR FILE 68-17173)   |
| NONE                      | 15-12-67 *68-17100 NAS9-996<br>MISSION SYSTEMS AS-200 TELEMETRY VOL. 2 RTCC-APOLLO PROGRAMMING<br>SYSTEMS   | NONE                                 | 30-06-67 *68-18555 NAA P.O. M7J3XAW-470001A<br>APOLLO FOLDABLE CREW COUCH SYSTEM, MONTHLY PROGRESS REPORT, 1 JUNE THRU<br>30 JUNE 1967           |
| LEACH CORP.               |   |                                      |  |
| NONE                      | 23-09-57 *68-16993 NAS9-996<br>SIMULATION VEHICLE SYSTEMS-LM DEVELOPMENT-VOL. 1 RTCC, APOLLO<br>PROGRAMMING SYSTEMS                               | FLR 13R3                             | 14-11-67 *68-18213 GAEC P.O. 3-50000-C<br>RE-QUALIFICATION TESTING OF DATA STORAGE ELECTRONICS ASSEMBLY  |
| NONE                      | 12-07-67 *68-16994 NAS9-996<br>MISSION SYSTEMS AS-200 MISSION PLANNING VOL. 2 RTCC APOLLO PROGRAM<br>TESTING                                      | LTP 24-00729                         | 06-11-67 *68-18212 GAEC P.O. 3-50000-C<br>QUALIFICATION TEST PROCEDURE (SUPPLEMENTARY) FOR DATA STORAGE<br>ELECTRONICS ASSEMBLY                  |
| NONE                      | 15-12-67 *68-17039 NAS9-996<br>MISSION SYSTEMS AS-200 ORBIT TRAJECTORY COMPUTATIONS VOL. 2 RTCC<br>APOLLO PROGRAMMING SYSTEMS                     | 125-027                              | 00-05-67 *68-16377 GAEC P.O. 3-50000-C<br>LEM DSEA AND TEST STATION MONTHLY PROGRESS REPORT COVERING 1 JUNE<br>THROUGH 30 JUNE 1967              |
| NONE                      | 15-12-67 *68-17038 NAS9-996<br>MISSION SYSTEMS AS-200 SYSTEMS INTEGRATION RTCC APOLLO PROGRAMMING<br>SYSTEMS VOL. 2                               | 125-130 THRU 125-132                 | 00-00-67 *68-19249 GAEC P.O. 3-50000-C<br>LEM DSEA MONTHLY PROGRESS REPORTS FOR SEPTEMBER THRU<br>NOVEMBER REPORTING PERIOD                      |
| NONE                      | 23-06-57 *68-17092 NAS9-996<br>SIMULATION VEHICLE SYSTEMS-AS-500 SATURN DEVELOPMENT-VOL 1 RTCC-<br>APOLLO PROGRAMMING SYSTEMS                     | NONE                                 | 01-05-67 *68-15559 GAEC P.O. 3-50000-C<br>END ITEM NARRATIVE REPORT, LEM DATA STORAGE ELECTRONICS ASSEMBLY,<br>GRUMMAN P/N LSC 350-12-5, S/N 121 |
| NONE                      | 15-12-67 *68-17100 NAS9-996<br>MISSION SYSTEMS AS-200 TELEMETRY VOL. 2 RTCC-APOLLO PROGRAMMING<br>SYSTEMS   | NONE                                 | 23-06-67 *68-16245 GAEC P.O. 3-50000-C<br>END ITEM NARRATIVE REPORT, LEM DSEA, LSC-360-12-5, S/N 124   |
| INTERNATIONAL LATEX CORP. |   | LEAR SIEGLER, INC./INSTRUMENT DIV.   |  |
| 8812700411-03             | 01-11-67 *68-16875 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM MONTHLY PROGRESS REPORT (FOR THE PERIOD<br>OCTOBER 1, 1967 THROUGH OCTOBER 31, 1967)   | GRR-001-0268                         | 00-01-68 *68-19651 GAEC P.O. 2-24489-C<br>LM ATTITUDE INDICATOR, GASTA AND TDHP, PERIOD COVERED, JANUARY, 1968 PR<br>N° 37                       |
| 8812700411-04             | 01-12-67 *68-17024 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM MONTHLY PROGRESS REPORT  | GRR-004-0168                         | 00-12-67 *68-17225 GAFC P.O. 2-24489-C<br>LM ATTITUDE INDICATOR, GASTA AND TDHP, MONTHLY PROGRESS REPORT NO. 36                                  |
| 8812700411-05             | 01-01-68 *68-17209 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM MONTHLY PROGRESS REPORT, DEC. 1-DEC. 31-<br>1967                                       | GRR-67-1317                          | 00-05-67 *68-18402 GAEC P.O. 2-24489-C<br>LM ATTITUDE INDICATOR, GASTA AND TDHP, MONTHLY PROGRESS REPORT NO. 30                                  |
| 8812700411-05             | 01-02-68 *68-17585 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM-MONTHLY PROGRESS REPORT, FOR PERIOD<br>JANUARY 1, 1968-JANUARY 31, 1968                | GRR-67-1325                          | 00-07-67 *68-17564 GAEC P.O. 2-24489-C<br>LM ATTITUDE INDICATOR, GASTA AND TDHP (PERIOD COVERED, JULY 1967)                                      |
| 8812700411-07             | 01-03-68 *68-18145 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM-MONTHLY PROGRESS REPORT, (FOR PERIOD OF<br>FEB 1, 1968 THRU FEB 29, 1968) (STAR FILE ) |                                      |  |
| 8812700411-09             | 01-04-68 *68-19456 NAS9-6100<br>APOLLO EMU GARMENT PROGRAM,MONTHLY PROGRESS REPORT FOR PERIOD MARCH 1<br>1968 THRU MARCH 31, 1968                 |                                      |  |

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## TYPICAL CITATION

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| <b>① Contractor report number</b>                    | <b>② Issue date: day, month, year</b> | <b>③ MSC accession number</b> | <b>④ Contract number</b> |
| AP-M-2436  | 11-02-64                              | *65-10292                     | NAS9-497                 |
| LEM RELIABILITY QUARTERLY PROGRESS REPORT, DEC. 1963 |                                       |                               |                          |

### LEAR SIEGLER, INC./INSTRUMENT DIV. - Continued

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| GRR-67-1353   | 00-09-67 | *68-17222 | GAEC P.O. 2-24489-C |
| LM ATTITUDE INDICATOR, GASTA AND TDHP MONTHLY PROGRESS REPORT NO. 33                |          |           |                     |
| GRR-67-1368   | 00-10-67 | *68-17223 | GAEC P.O. 2-24489-C |
| LM ATTITUDE INDICATOR, GASTA AND TDHP MONTHLY PROGRESS REPORT NO. 34                |          |           |                     |
| GRR-67-1380   | 00-11-67 | *68-17224 | GAEC P.O. 2-24489-C |
| LM ATTITUDE INDICATOR, GASTA AND TDHP MONTHLY PROGRESS REPORT NO. 35                |          |           |                     |
| PA 1063N  | 05-02-68 | *68-16563 | NONE                |
| ACCEPTANCE TEST PROCEDURES FOR LSI MODEL 4068E, INDICATOR ATTITUDE (INCOMPLETE REV) |          |           |                     |

### LING TEMCO VOUGHT, INC.

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| 00.682   | 31-08-65 | *68-18192 | NAS9-4502 |
| APOLLO (S-TB) LAUNCH VEHICLE TRAINING/EVALUATION SIMULATION PROGRAM (U)  |          |           |           |
| 332.54   | 20-01-67 | *68-16437 | NAS9-150  |
| TEST REPORT FOR GROUP 1 QUALIFICATION TEST ON HEATER, WATER GLYCOL RADIATOR, P/N 332A10001-1                     |          |           |           |
| 332.60   | 17-03-67 | *68-16436 | NAS9-150  |
| TEST REPORT FOR GROUP 1, PHASE A QUALIFICATION TEST ON APOLLO RADIATOR TEMPERATURE CONTROLLER, P/N 332A20001-103 |          |           |           |
| 350.2  | 28-07-67 | *68-18061 | NAS9-6807 |
| APOLLO BLOCK 2 COMMAND MODULE THERMAL SIMULATOR (FINAL REPORT FOR TASK 3.1.1), VOLUME 1 (STAR FILE )             |          |           |           |
| 350.3  | 11-08-67 | *68-17137 | NAS9-6807 |
| LUNAR MODULE ASCENT STAGE THERMAL SIMULATOR, VOL. 1/FINAL REPORT FOR TASK 3.1.2 (STAR FILE X68-12129)            |          |           |           |
| 350.4  | 18-08-64 | *68-17099 | NAS9-6807 |
| LUNAR MODULE DESCENT STAGE THERMAL SIMULATOR, VOL. 1 (STAR FILE X68-12132)                                       |          |           |           |
| 350.6  | 29-09-67 | *68-16845 | NAS9-6807 |
| RUN TIME OPTIMIZATION (STAR, X- )  |          |           |           |
| 350.7  | 29-09-67 | *68-16949 | NAS9-6807 |
| COMPUTER PROGRAM AND PERFORMANCE PREDICTIONS FOR APOLLO BLOCK 2 POWER GENERATION AND HEAT REJECTION SYSTEM       |          |           |           |

### LING TEMCO VOUGHT, INC. - Continued

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| 350.8   | 30-11-67 | *68-17109 | NAS9-6807 |
| COMPUTER ROUTINE MODIFICATION/PERFORMANCE PREDICTIONS APOLLO BLOCK 1 POWER GENERATION/HEAT REJECTION SYSTEM (STAR FILE X68-11438) |          |           |           |
| 350.9   | 28-02-68 | *68-19789 | NAS9-6807 |
| LTA-B TEST NARRATIVE (STAR FILE )   |          |           |           |
| 4-24300W/6R-32  | 02-11-66 | *68-16439 | NAS9-150  |
| REPORT OF QUALIFICATION (GROUP 1) TEST ON SENSOR TEMPERATURE WATER-GLYCOL RADIATOR FLOW VALVE, P/N 401-07700                      |          |           |           |
| 4-24300W/6R-33  | 08-06-66 | *68-16440 | NAS9-150  |
| REPORT OF QUALIFICATION (GROUP 1) TEST ON WATER-GLYCOL FLOW PROPORTIONING VALVE CONTROLLER, P/N 401-07650-01                      |          |           |           |
| 4-24300W/6R-34  | 29-11-66 | *68-16438 | NAS9-150  |
| REPORT OF QUALIFICATION (GROUP 1) TEST ON WATER-GLYCOL RADIATOR FLOW PROPORTIONING VALVE, P/N 401-07711-01                        |          |           |           |
| 4-24300W/6R-39A   | 20-01-67 | *68-16441 | NAS9-150  |
| REPORT OF GROUP 3 QUALIFICATION TESTS ON APOLLO FLOW PROPORTIONING SUBSYSTEM, VOLUME 1 OF 3, REV. A                               |          |           |           |
| 4-24300W/6R-48B   | 17-01-67 | *68-16443 | NAS9-150  |
| REPORT OF GROUP 3 QUALIFICATION TEST ON APOLLO FLOW PROPORTIONING SUBSYSTEMS, VOLUME 3 OF 3 REV. B                                |          |           |           |
| 4-24300W/6R-69A   | 00-00-67 | *68-16442 | NAS9-150  |
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| LMSC/A841686   | 01-12-66 | *68-18464 | NAS9-5882              |
| A THERMAL ANALYSIS OF LUNAR EXCURSION MODULE PROPULSION SYSTEM, PROGRESS REPORT 1 NOVEMBER 1966 TO 30 NOV 1966 |          |           |                        |
| 588-M-52   | 31-12-64 | *68-18638 | NAA P.O. M3J3XA-406011 |
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| <p>4869-8-23- 21068-R75 10-02-58 *68-19607 NCNE<br/>BI-MONTHLY PROGRESS REPORT, WASTE MANAGEMENT SECTION, LFM (PERIOD COVERING DEC 1967 THRU JAN 1968)</p> <p>4869-8-23- 61057-R59 12-04-67 *68-18220 GAEC P.O. 3-69582<br/>BI-MONTHLY PROGRESS REPORT WASTE MANAGEMENT SECTION LEM (PERIOD COVERING 1 APRIL 1967 THRU 31 MAY 1967)</p> <p>4869-8-23-121067-R69 10-12-57 *68-18224 NONE<br/>BI-MONTHLY PROGRESS REPORT WASTE MANAGEMENT SECTION LEM (PERIOD COVERING OCTOBER 1967 THRU NOVEMBER 1967)</p> <p>4869-8-23101067-R6E 10-10-67 *68-18219 GAEC P.O. 3-69582<br/>BI-MONTHLY PROGRESS REPORT WASTE MANAGEMENT SECTION LEM (PERIOD COVERING AUGUST 1967 THRU SEPT 1967)</p>  | <p>ER 14264 00-06-66 *68-16928 NAS9-5730<br/>ANALYSIS OF CREW PERFORMANCE IN THE APOLLO COMMAND MODULE (PHASE 1-VOLUME 1)</p> <p>ER 14396 00-10-66 *68-16929 NAS9-5730<br/>ANALYSIS OF CREW PERFORMANCE IN THE APOLLO COMMAND MODULE (PHASE 2-VOL. 2-APPENDIX)</p> <p>ER 14395 00-01-67 *68-16990 NAS9-5730<br/>ANALYSIS OF CREW PERFORMANCE IN THE APOLLO COMMAND MODULE (PHASE 2-VOL. 1)</p>  |
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| <p>A-1069 17-04-67 *68-18570 NAA P.O. M4J7XAZ-406013A<br/>R-4D SUPPLEMENTAL QUALIFICATION TEST REPORT FOR THE APOLLO SERVICE MODULE REACTION CONTROL SYSTEM ENGINE (REVISED APRIL 17, 1967)</p> <p>A-1072 22-09-57 *68-17037 NAS9-6003<br/>FINAL REPORT-COLUMBIUM COMBUSTION CHAMBER DEVELOPMENT PROGRAM</p> <p>L 1001-46 10-05-67 *68-16248 GAEC P.O. 2-18831-C<br/>MONTHLY PROGRESS REPORT FOR THE PERIOD 16 MARCH 1967 THROUGH 15 APRIL 1967</p> <p>L 1001-50 15-01-68 *68-18042 GAEC P.O. 2-18831-C<br/>TRANSMITTAL OF TMC REPORT L1001-50, MONTHLY PROGRESS REPORT DATED 26 DECEMBER 1967</p> <p>L 1001-51 01-02-68 *68-18656 GAEC P.O. 2-18831-C<br/>MONTHLY PROGRESS REPORT FOR THE PERIOD 16 DECEMBER 1967-15 JANUARY 1968</p> <p>L 1030 11-12-68 *68-16930 GAEC P.O. 2-18831-C<br/>INSTRUMENTATION ACCURACIES AND COMPUTED PARAMETER ERROR ANALYSES</p> <p>L 1044 07-09-57 *68-16922 GAEC P.O. 2-18831-C<br/>LM SHORT ELECTRICAL PULSE WIDTH ENGINE-TEST REPORT</p> <p>L 1045 16-01-68 *68-17798 GAEC P.O. 2-18831-C<br/>LM RCS ENGINE PRIMING, CONTAMINATION, SHORT PULSE AND HEATER INTEGRATION TEST PROGRAM</p> | <p>NONE 00-00-68 *68-18535 GAEC P.O. 3-63448C<br/>MONTHLY PROGRESS REPORTS, DESIGN AND FABRICATION OF SWITCHES, ROTARY DISPLAY, JANUARY THRU MARCH 1968</p> <p>NONE 00-02-58 *68-18302 GAEC P.O. 3-63448C<br/>ACCEPTANCE DATA PACKAGE (DOCUMENT LIST)-SWITCH, ROTARY, HERMETIC SEALED P/N LSC-350-80326-11-1 (S/N 120 THRU 122)</p> <p>NONE 00-00-68 *68-18303 GAEC P.O. 3-63448C<br/>ACCEPTANCE TEST DATA (DOCUMENTATION LIST)-SWITCH, ROTARY, HERMETIC SEALED, P/N LSC-350-80314-11-2 (S/N 125 THRU 127)</p> <p>NONE 00-00-67 *68-18295 GAEC P.O. 3-63448C<br/>MONTHLY PROGRESS REPORTS-DESIGN AND FABRICATION OF SWITCHES, ROTARY DISPLAY, SEPTEMBER THRU DECEMBER 1967</p> <p>NONE 00-00-66 *68-18296 NAA P.O. M4H3KAA-425017<br/>MONTHLY PROGRESS REPORTS-ROTARY SWITCH, HERMETICALLY SEALED, JULY THRU NOVEMBER 1966</p> <p>NONE 00-01-68 *68-18304 GAEC P.O. 3-63448C<br/>ACCEPTANCE TEST DATA (DOCUMENT LIST)-SWITCH, ROTARY, HERMETIC SEALED, P/N LSC-350-80305-11-1, S/N 122 THRU 125</p> |
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| ER 14264 00-06-56 *68-16927 NAS9-5730<br>ANALYSIS OF CREW PERFORMANCE IN THE APOLLO COMMAND MODULE (PHASE 1-VOLUME 1)   | <p>LTP-19 22-02-56 *68-17520 GAEC P.O. 2-74654<br/>FLUID COMPATIBILITY TEST PLAN FOR MC10600 AND MC10601 VALVE RELIEF</p> <p>LTP-26 24-10-57 *68-17523 GAEC P.O. 3-59091<br/>END ITEM TEST PLAN FOR MC9005-2-7, MC9006-3-4-5-6 VALVE-SOLENOID, LATCHING (FFV ?)</p> <p>LTP-21 12-08-56 *68-17524 GAEC P.O. 2-74654<br/>CLEANING AND ASSEMBLY PLAN FOR MC 10600-1 AND MC 10601 VALVE-RELIEF</p> <p>LTP-34 REV AR 00-05-57 *68-17519 GAEC P.O. 2-74654<br/>QUALIFICATION TEST PLAN FOR MC10600 AND MC10601 VALVE-RELIEF</p>   |

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| LTP-41       | 09-03-57 *68-17525 | GAEC P.O. 2-74654  | RE-RUN OXIDIZER COMPATIBILITY TEST PLAN FOR MC 6417-2 VALVE-RELIEF                                     |
| LTP-42 REV C | 28-02-58 *68-17520 | GAEC P.O. 3-59091C | END ITEM TEST PLAN FOR MC 9005-4, MC 9006-7, 8 VALVE-SOLENOID,<br>LATCHING (REV C)                     |
| LTP-44       | 14-12-67 *68-17528 | GAEC P.O. 3-59091C | CLEANING AND ASSEMBLY PLAN FOR VALVE-SOLENOID MC 9005-4-MC 9006-<br>7, 8 CHANGE-A                      |
| LTP-45       | 29-01-68 *68-18641 | GAEC P.O. 3-59091C | DELTA QUALIFICATION TEST PLAN FOR MC 9005-31 AND MC 9006-8 (MINUS<br>V.A.T.) VALVES, SOLENOID LATCHING |
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| 148          | 02-01-68 *68-17519 | GAEC P.O. 2-74654  | MC10600 AND MC10601 VALVE-RELIEF QUALIFICATION TEST  |
| NONE         | 00-00-67 *68-17522 | GAEC P.O. 3-59091  | VALVE-SOLENOID PROGRESS REPORTS FOR 1967   |
| NONE         | 00-00-67 *68-17527 | GAEC P.O. 2-74554  | VALVE-RELIEF PROGRESS REPORTS-1967 (APRIL, JUNE THRU AUGUST, OCTOBER<br>THRU DEC)                      |

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| 67-0000-007 REV A | 10-02-68 *68-18608 | GAEC P.O. 5-42888 | CIRCUIT BREAKERS, CALIBRATION-TEMPERATURE, ALTITUDE TEST PROCEDURE                   |
| 67-160-005        | 20-11-67 *68-18218 | GAEC P.O. 5-42888 | VIBRATION TEST REPORT FOR GAEC LM/APOLLO PROGRAM                                     |
| NONE              | 03-08-67 *68-16327 | NONE              | PROPOSAL FOR FLAMEPROOFING METHODS FOR APOLLO CIRCUIT BREAKERS,<br>PROPOSAL NO. 6711 |

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| APP-109-039 | 00-07-57 *68-1619A | NCNE              | REPORT OF POST QUALIFICATION TEST ON JG 912AI FLAG INDICATOR                   |
| APP-109-040 | 00-07-57 *68-16199 | NONE              | REPORT OF POST QUALIFICATION TEST ON JG 913AI FLAG INDICATOR                   |
| 2032B-PR 22 | 10-05-67 *68-16786 | GAEC P.O. 3-50010 | PROGRESS AND STATUS REPORT, ATTITUDE CONTROLLER ASSEMBLY                       |
| NONE        | 27-04-67 *68-16787 | GAEC P.O. 3-50010 | END ITEM DATA FOR LFM, ATTITUDE CONTROLLER ASSEMBLY, GAEC PART NO. 300-190-3-2 |

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| 85-10.17            | 85-10.18 REV A | 00-08-67 *68-17634 | GAEC P.O. 352519  | MATERIALS + PROCESS SPECIFICATIONS/PLASTICS CAP TOGGLE SWITCH<br>MOMENTARY 4 WAY/TARGET ASSY DOCKING                                 |
| 85-10.4, 10.6, 10.9 |                | 00-08-67 *68-17634 | GAEC P.O. 352519  | MATERIALS + PROCESS SPECIFICATIONS/PLASTICS CAP TOGGLE SWITCH<br>MOMENTARY 4 WAY/TARGET ASSY DOCKING                                 |
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| 85-14. 2 REV C      |                | 00-09-67 *68-17611 | GAEC P.O. 3-52519 | END ITEM TEST PLAN/TEST + INSP PROCEDURE PROD MODEL SELF LUMINOUS<br>SWITCH TIP FABRICATED TO MEET DESIGN CONTROL SPECS LSP 340-404A |
| 85-14. 7 REV B      |                | 15-01-68 *68-1R222 | GAEC P.O. 3-52519 | QUALIFICATION TESTING KEL-F SWITCH TIPS (DETAILED TEST PLAN)   |

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| P5-1E. 8 30-12-57 *68-17506 GAEC P.O. 3-52519 TEST REPORT-QUALIFICATION TESTING,K/E 1-F SWITCH TIPS   |  |  |  | PS1900030 05-07-55 *68-17314 NAS9-4065 DETAIL SPEC, PERFORMANCE/DESIGN + PRODUCT CONFIG REQS GROUND SUPPORT EQUIPMENT FOR APOLLO G + N SYSTEM                                       |  |  |  |
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| E-1142 REV 55 00-02-68 *68-18771 NAS9-4065 SYSTEM STATUS REPORT FEBRUARY,1968   |  |  |  | R-507 REV 1 00-10-65 *68-17270 NAS9-4065 GUIDANCE AND NAVIGATION SYSTEM OPERATIONS PLAN,MISSION AS 204A/205,VO L 2 (U)  |  |  |  |
| E-1142 (REV. 41) 00-02-66 *68-10792 NAS9-4065 SYSTEM STATUS REPORT FOR FEB-66 (U)   |  |  |  | R-518 15-09-65 *68-16915 NSP-22-009-068 LEM TRUCK,GUIDANCE AND NAVIGATION STUDY,FINAL REPORT (STAR FILE. X68-19184)   |  |  |  |
| E-1142 (REV. 52) 00-08-67 *68-16547 NAS9-4065 SYSTEM STATUS REPORT  |  |  |  | R-542 (REV 1) 00-07-66 *68-16648 NONE THE MIT/IL GIMBALLED IMU,DEVELOPMENT,TEST,AND PERFORMANCE (U)   |  |  |  |
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| E-1956 00-05-66 *67-15021 NAS9-4065 AN AUTOMATED DOCUMENTATION TECHNIQUE FOR INTEGRATING APOLLO CREW PROCEDURES AND COMPUTER LOGIC (STAR FILE.X67-2033) |  |  |  | R-547 REV. 1 00-12-67 *68-17065 NAS9-4065 GUIDANCE SYSTEM OPERATIONS PLAN FOR MANNED CM EARTH ORBITAL MISSION USING PROGRAM SUNDISK-SECTION 6 CONTROL DATA (STAR FILE. )            |  |  |  |
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| F-2055 00-12-66 *67-15016 NAS9-4065 DATA ACQUISITION AND REDUCTION MIT-15 HORIZON DEFINITION EXPERIMENT PHASE 2 (STAR FILE X67-20223)                   |  |  |  | R-547 REV. 1 00-03-68 *68-17008 NAS9-4065 GUIDANCE SYSTEM OPERATIONS PLAN FOR MANNED CM EARTH ORBITAL MISSIONS USING PROGRAM SUNDISK SECTION 5 GUIDANCE EQUAT (STAR FILE.X68-14614) |  |  |  |
| E-2097 00-03-67 *67-15027 NAS9-4065 A MULTIPROCESSING STRUCTURE (STAR FILE X67-20078)   |  |  |  | R-547 (REV 1) 22-11-67 *68-16996 NAS9-4065 GUIDANCE SYSTEM OPERATIONS PLAN FOR MANNED CM EARTH ORBITAL MISSIONS USING PROGRAM SUNDISK (STAR- ) SEC 2 GNCS DATA LINKS                |  |  |  |
| F-2099 00-03-67 *67-15008 NAS9-4065 FINAL REPORT ON ERASABLE MEMORY INVESTIGATIONS (STAR. N67-35251)  |  |  |  | R-557 00-12-67 *68-17106 NAS9-4065 GUIDANCE SYSTEM OPERATIONS PLAN FOR MANNED LM EARTH ORBITAL MISSIONS USING PROGRAM SUNDANCE SECTION 2,DATA LINKS                                 |  |  |  |
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 END ITEM (ACCEPTANCE) TEST DATA SHEETS FOR LEM S-BAND TRANSCEIVER, S/N 120, GAEC P/N LSC-380-00130-51-06  
  
 3062/3.6.3-1 10-06-66 \*68-18458 NONE  
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 X-507-66- 60 00-02-66 \*68-17444 NONE  
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 X-507-67-281 00-06-67 \*68-17436 NONE  
 ANALYSIS OF THE APOLLO REENTRY RADAR  
  
 X-507-67-283 00-06-67 \*68-17443 NONE  
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 X-513-64- 85 06-03-64 \*68-17447 NONE  
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 X-513-64-353 00-11-64 \*68-17446 NONE  
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 X-513-64-359 24-11-64 \*68-17445 NONE  
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 X-513-65- 4 05-12-64 \*68-17442 NONE  
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| NASA/KENNEDY SPACE CENTER  |   | 15-09-67 *68-16770 NCNE<br>15-09-67 *68-16771 NCNE<br>07-09-67 *68-16772 NCNE<br>07-07-67 *68-16773 NCNE<br>15-07-67 *68-17642 NCNE<br>22-05-67 *68-17643 NCNE<br>16-11-67 *68-17645 NCNE<br>16-10-67 *68-17644 NCNE   | APOLLO S-V SPACE VEHICLE COUNTDOWN DEMONSTRATION TEST, SUPPORT DIRECTIVE 40001 (LATEST REVISION RECEIVED)<br>APOLLO-SATURN V FLIGHT READINESS TEST, SUPPORT DIRECTIVE 40002 (LATEST REVISION RECEIVED)<br>APOLLO-SATURN V INTERFACE TESTS, SUPPORT DIRECTIVE 48001 AND UP (LATEST REVISION RECEIVED)<br>APOLLO-SATURN V APOLLO SOFTWARE INTEGRATION TEST, SUPPORT DIRECTIVE 48009 (LATEST REVISION RECEIVED)<br>SPACECRAFT OPERATIONS RELIABILITY + QUALITY PROBLEM REPORT, LS-QAL-1<br>SPACECRAFT OPERATIONS RELIABILITY + QUALITY PROBLEM REPORT<br>SPACECRAFT OPERATIONS RELIABILITY + QUALITY PROBLEM REPORT<br>SPACECRAFT OPERATIONS RELIABILITY AND QUALITY PROBLEM REPORT |  |   |
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 AP-M-2436 11-02-64 \*65-10292 NAS9-497  
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IN.68-EE-5 00-02-68 \*68-18486 NONE  
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 ONLY S-BAND OMNI ANTENNA PATTERNS (W FILE.W68-10,243)

IN.68-EE-6 01-02-68 \*68-18411 NONE  
 DYNAMIC OPERATIONAL COMPATIBILITY TESTS OF THE S-BAND STEERABLE  
 ANTENNA (W FILE.W68-10,232)

IN.68-EG-23-03 06-03-68 \*68-18481 NONE  
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 TERRAIN OF FIVE OF THE PROPOSED APOLLO LNDG SITES (W FILE.W68-10,247)

IN.68-EG-25-01 10-01-68 \*68-17319 NONE  
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 EVALUATION (W FILE.W68-10,073)

IN.68-ET-6 00-04-68 \*68-18490 NONE  
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IN.68-ET-7 00-04-68 \*68-18812 NONE  
 COMMAND + SERVICE MODULE COMPATIBILITY WITH MCDONNELL DOUGLAS TYPE S  
 LA LAB (W FILE.W68-10,252)

IN.68-ET-9 00-04-68 \*68-18814 NONE  
 COMMAND AND SERVICE MODULE FOR AN EXPANDED AAP-1A TYPE MISSION  
 ( W FILE.W68-10,263)

IN.68-FM- 2 01-02-68 \*68-17304 NONE  
 RTCC REQUIREMENTS FOR MISSION G LANDING SITE DETERMINATION USING ON  
 BOARD OBSERVATIONS (W FILE. W68-10,097)

IN.68-FM- 5 05-01-68 \*68-17134 NONE  
 LOGIC AND EQUATIONS FOR THE REAL-TIME COMPUTATION OF THE LUNAR MODULE  
 LAUNCH WINDOW AND RECOMMENDED LIFT-OFF TIME (W FILE.W68-10035)

IN.68-FM- 6 08-01-68 \*68-17133 NONE  
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 DOCUMENT (W FILE.W68-10028)

IN.68-FM- 8 08-01-68 \*68-17282 NONE  
 A PRELIMINARY MONTE CARLO DISPERSION ANALYSIS ON THE LUNAR LANDING  
 MISSION ( W FILE.W68-10,074)

IN.68-FM- 11 09-01-68 \*68-17132 NONE  
 APOLLO 5 MISSION (AS-204/LM-1) SPACECRAFT OPERATIONAL  
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IN.68-FM- 12 15-01-68 \*68-17283 NONE  
 LOGIC + EQ(S) FOR REAL-TIME COMPUTATION OF A SATELLITE EPHEMERIS  
 ABOUT MOON IN TERMS OF A SPEC POTENTIAL (W FILE.W68-10,076)

IN.68-FM- 15 11-01-68 \*68-18325 NONE  
 MISSION B-1/LM-1 (APOLLO 5) SEPARATION AND RECONTACT ANALYSIS S-IVB/  
 LM-1 SEPARATION VOL 2 LGC/DAP CONTROL (W FILE.W68-10,037)

IN.68-FM- 17 18-01-68 \*68-17285 NONE  
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 ACTIVE RENDEZVOUS ( W FILE.W68-10,078)

IN.68-FM- 18 22-01-68 \*68-17288 NONE  
 LOGIC AND EQUATIONS FOR THE RTCC LUNAR ASCENT PREDICTOR (W FILE. W  
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IN.68-FM- 19 22-01-68 \*68-17284 NONE  
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 FILE.W68-10,080)

IN.68-FM- 20 22-01-68 \*68-17287 NONE  
 STATUS REPORT ON THE LUNAR MISSION ENTRY MONITORING AND BACKUP MODE  
 DEVELOPMENT (W FILE. W68-10,091)

IN.68-FM- 23 26-01-68 \*68-17291 NONE  
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 MODULE DESCENT PLANNING TABLE (W FILE.W68-10,093)

IN.68-FM- 26 30-01-68 \*68-17305 NONE  
 APOLLO MISSION C REQUIREMENTS FOR THE REAL-TIME PROGRAM REENTRY  
 PHASE (W FILE. W68-10,098)

IN.68-FM- 94 15-04-68 \*68-18797 NONE  
 APOLLO MISS D (AS-503/CSM-103/LM-3) SPACECRAFT REFERENCE TRAJECTORY  
 VOLUME 2-TRAJECTORY LISTING (W FILE.W68-10,303)

IN.68-FM- 95 17-04-68 \*68-18798 NONE  
 COMPATIBILITY OF LM PGNCS AND AGS RENDEZVOUS MANEUVER COMPUTATIONS  
 (W FILE.W68-10,282)

IN.68-FM-101 19-04-68 \*68-19697 NONE  
 PREDICTED LAUNCH ABORT LANDING DATA COMPUTED DURING APOLLO 6 (W FILE.  
 W68-10,275)

IN.68-FM-102 24-04-68 \*68-19799 NONE  
 RTCC REQS FOR MISSIONS D,E AND F,REENTRY PHASE (W FILE.W68-10,302)

IN.68-FM-117 15-05-68 \*68-18693 NONE  
 RTCC REQS FOR MISS F + G,SELENOGRAPHIC-MNBY VEL TRANSFORMATION  
 FORMULATION (SUPER IN 68-FM-98-W68-10,277) (W FILE.W68-10,368)

IN.68-FM-16 18-01-68 \*68-17747 NONE  
 PREFLT DATA FOR A LUNAR LNDG MISS VOL 3-TRAJ PARAMETER SUMMARIES FOR  
 EACH LAUNCH-DAY IN MONTHLY WINDOW (W FILE. W68-10,069)

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| IN.68-FM-39                           | 14-02-68 *68-17757 NCNE<br>A PRELIMINARY STUDY OF A LUNAR LANDING MISSION TO COPERNICUS ( W FILE W68-10,165)   | IN.68-FM-69                           | 14-03-68 *68-18262 NCNE<br>RTCC REQUIREMENTS FOR MISSION F AND G,EARTH ORBIT INSERTION PROCESSOR (W FILE.W68-10,206)   |
| IN.68-FM-40                           | 16-02-68 *68-17758 NONE<br>VERIFICATION OF THE PROPAGATION CONTROL PACKAGE OF THE MPB ORBIT DETERMINATION PROGRAM (W FILE.W68-10,163)                          | IN.68-FM-71                           | 18-03-68 *68-18417 NCNE<br>APOLLO MISSION E (AS-504/CSM-104/LM-4) SPACECRAFT REFERENCE TRAJECTORY, VOLUME 2-TRAJECTORY LISTING (W FILE.W68-10,235)                     |
| IN.68-FM-43                           | 18-02-68 *68-17759 NONE<br>ERRORS INCURRED WITH RTCC LUNAR ORBIT INSERTION LOGIC (W FILE. W68-10,166)  | IN.68-FM-72                           | 27-03-68 *68-18347 NCNE<br>APOLLO MISSION F (AS-504/CSM-104/LM-4) SPACECRAFT REFERENCE TRAJECTORY VOL I-MISSION PROFILE (W FILE.W68-10,224)                            |
| IN.68-FM-52                           | 23-02-68 *68-17760 NCNE<br>RTCC REQUIREMENTS FOR MISSION G,LUNAR MODULE ATTITUDE DETERMINATION USING ONBOARD OBSERVATIONS (W FILE.W68-10,164)                  | IN.68-FM-73                           | 27-03-68 *68-18415 NCNE<br>COMPARISON OF LM PGNCs AND AGS ORBIT INSERTION GUIDANCE LOGIC AND PROCEDURES (W FILE .W68-10,229)   |
| IN.68-FM-53                           | 26-02-68 *68-17761 NCNE<br>RTCC REQUIREMENTS FOR MISSIONS E,F, AND G,GREENWICH HOUR ANGLE FORMULATION FOR THE PREDICTOR (W FILE.W68-10,162)                    | IN.68-FM-74                           | 29-03-68 *68-18345 NCNE<br>LM POWERED ASCENT TRAJECTORY FOR THE APOLLO LUNAR LANDING MISSION (W FILE.W68-10,222)   |
| IN.68-FM-54                           | 27-02-68 *68-18264 NCNE<br>PRELIM ANAL MONITOR IGM-STEERED HYPERSURFACE-TARGETED TLI MANEUVER-CMS LAMBERT STEERING + SATURN-PREFERRED ALGN (W FILE.W68-10,204) | IN.68-FM-75                           | 15-03-68 *68-18265 NCNE<br>SPACECRAFT DISPERSION ANALYSIS FOR APOLLO 6 (A-2 OR AS-502/CSM-020) (W FILE.W68-10,201)   |
| IN.68-FM-57                           | 29-03-68 *68-18346 NCNE<br>MSC/MSC LUNAR MISSION TARGETING EXERCISE (W FILE.W68-10,219)  | IN.68-FM-76                           | 21-03-68 *68-18266 NCNE<br>APOLLO 6 (A-2 OR AS-502/020)OPERATIONAL MODE 1 LAUNCH ESCAPE VEHICLE ABORT PLAN (W FILE.W68-10,201)   |
| IN.68-FM-60                           | 01-03-68 *68-17762 NONE<br>RTCC REQUIREMENTS FOR MISSION G,THE TRANSLUNAR MIDCOURSE CORRECTION PROCESSOR (W FILE. W68-10,169)                                  | IN.68-FM-78                           | 29-03-68 *68-18344 NCNE<br>LM POWERED DESCENT TRAJECTORY FOR THE APOLLO LUNAR LANDING MISSION (W FILE.W68-10,223)  |
| IN.68-FM-61                           | 05-03-68 *68-17763 NCNE<br>APOLLO 6 (AS-502/CSM-020/LTA-2R1) SPACECRAFT OPERATIONAL TRAJECTORY VOLUME 3-TRACKING TIME HISTORY (W FILE.W68-10,168)              | IN.68-FM-79                           | 12-04-68 *68-18692 NCNE<br>MATHEMATICAL MODEL FOR THE LM LUNAR DESCENT HYBRID SIMULATION (W FILE W68-10,276)   |
| IN.68-FM-62                           | 13-03-68 *68-18052 NCNF<br>APOLLO 6 A-2 OR AS-502/CSM-0201 SPACECRAFT OPERATIONAL TRAJECTORY, VOLUME 1-MISSION PROFILE (W FILE.W68-10,193)                     | IN.68-FM-80                           | 26-03-68 *68-18414 NCNE<br>GENERAL EXPLANATIONS OF NCO/NSP AND CSM/CDH COELLIPTIC SEQUENCE RENDEZVOUS TECHNIQUES (W FILE.W68-10,234)                                   |
| IN.68-FM-63                           | 13-03-68 *68-18053 NCNF<br>APOLLO 6 (A-2 OR AS-502/CSM-020) SPACECRAFT OPERATIONAL TRAJECTORY, VOLUME 2-TRAJECTORY LISTING (W FILE.W68-10,194)                 | IN.68-FM-83                           | 29-03-68 *68-18487 NCNE<br>COMPARISON OF THE SENSITIVITY OF LAMBERT AND EXTERNAL DELTA VELOCITY GUID TO DISPERSIONS IN THE LDT BURNS OF MISS F + G (W FILE.W68-10,251) |

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① Contractor report number ② Issue date: day, month, year ③ MSC accession number ④ Contract number  
 AP-M-2436 11-02-64 \*65-10292 NAS9-497  
 LEM RELIABILITY QUARTERLY PROGRESS REPORT, DEC. 1963

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IN.68-FM-84 21-04-68 \*68-18698 NONE  
 FEASIBILITY OF MANUAL COMPLETION OF A LOI BURN, VOLUME 2-BMAG DRIFT  
 ABOUT THE PITCH AXIS (W FILE.W68-10,274)

IN.68-FM-85 03-04-68 \*68-18491 NONE  
 RTCC REQUIREMENTS FOR THE TLT BURN GO-NOT GO PROCEDURE  
 (W FILE.W68-10,242)

IN.68-FM-86 10-04-68 \*68-18813 NCNE  
 RADAR DATA FOR CHOOSING PASSES TO SATISFY THE MISSION C (AS-205/CSM-1  
 01) RENDEZVOUS RADAR TEST OBJECTIVE (W FILE.W68-10,261)

IN.68-FM-87 03-04-68 \*68-18489 NONE  
 MPAD VERIFICATION OF APOLLO 6 (A-2/CSM-020) FLIGHT MISSION RULES  
 (W FILE.W68-10,248)

IN.68-FM-96 17-04-68 \*68-18699 NONE  
 APOLLO MISSION C (AS-205/CSM-101) SPACECRAFT REFERENCE TRAJECTORY,  
 VOLUME IV-CONSUMABLES ANALYSIS (W FILE.W68-10,271)

IN.68-FM-97 19-04-68 \*68-18700 NONE  
 COMMUNICATION BLACKOUT REGIONS FOR APOLLO LUNAR MISSION REENTRIES  
 (W FILE.W68-10,270)

IN.68-FM-99 19-04-68 \*68-18696 NONE  
 POSTFLIGHT SIMULATION OF THE APOLLO 5 TRAJECTORY FROM THE SECOND DPS  
 BURN TO TOUCHDOWN (W FILE.W68-10,280)

MD MA 1400.030 00-01-66 \*68-16892 NONE  
 APOLLO TEST PLAN SUMMARY

MSC AAP WP 1334 09-11-67 \*68-17713 NONE  
 REPORT TO FLAMMABILITY TEST REVIEW BOARD, RESULTS OF M-6 LUNAR  
 MODULE MOCKUP FLAMMABILITY TESTS (W FILE.W68-10,134)

MSC AAP WP 5103 16-02-68 \*68-17712 NONE  
 ELECTRICAL POWER SYSTEMS STUDY FOR AN INDEPENDENT CARRIER FOR THE  
 APPLICATIONS A AND B EXPERIMENTS (W FILE. W68-10,135)

MSC EP-R-67-29 22-12-67 \*68-17764 NCNE  
 AN INVESTIGATION OF THE CORRELATION BETWEEN HELIUM AND APOLLO  
 PROPELLANT LEAK DETERMINATIONS (W FILE.W68-10,161)

MSC IN 67-EG-36 06-12-67 \*68-17135 NONE  
 ELECTROMAGNETIC COMPATIBILITY TESTS ON THE 2H-1 BLOCK 2 STABILIZATION  
 AND CONTROL SYSTEM (W FILE. W69-10,022)

MSC QSR NO. 21 00-09-67 \*68-17074 NONE  
 APOLLO SPACECRAFT PROGRAM QUARTERLY STATUS REPORT NO. 21 FOR PERIOD  
 ENDING SEPTEMBER 30, 1967 (W FILE. W68-10,014)

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MSC-A-D-66-8 14-11-66 \*68-17258 NONE  
 APOLLO SPACECRAFT QUALIFIED PARTS LIST

MSC-A-D-67-2 01-01-68 \*67-16152 NONE  
 APOLLO SC PARTS + MATERIALS PRO PARTS + MATERIALS MASTER FILE RPT  
 VOL I-PARTS (REV B SUPERCEDES ALL PREVIOUS) (W FILE. W.10,216)

MSC-A-D-67-6 00-02-68 \*68-17533 NONE  
 TEST DATA LISTING GENERATED FROM CHARACTERISTICS OF MATERIALS (COMAT)  
 COMPUTER SYSTEM (W FILE.W68-10,131)

MSC-FB-R-67-5 01-06-67 \*68-17257 NONE  
 SURVEY OF SATELLITE RELIABILITY, TEST AND CHECKOUT PROGRAMS (W FILE.  
 W67-10,684)

MSC-FB-R-67-9 00-12-67 \*68-18818 NONE  
 THE APOLLO PSEUDO-RANDOM NOISE RANGING SYSTEM (W FILE.W68-10,329)

MSC-ED-P-67-63 21-12-67 \*68-17110 NONE  
 MSC INTERNAL TECHNICAL NOTE, DATA PROCESSING PLAN FOR APOLLO 5 LM-1  
 (W FILE. W68-10,010)

MSC-ED-P-68-69 15-03-68 \*68-18051 NONE  
 MSC INTERNAL TECHNICAL NOTE, DATA PROCESSING PLAN FOR APOLLO 6 (AS 502  
 SC-020/LTA-2R (W FILE.W68-10,190)

MSC-EP-R-67-13 29-12-67 \*68-17303 NCNE  
 APOLLO SERVICE MODULE RCS ENGINE PERFORMANCE TESTS (W FILE. W68-10.  
 096)

MSC-EP-R-67-16 29-12-67 \*68-17111 NONE  
 APOLLO COMMAND MODULE REACTION CONTROL SYSTEM SUBSYSTEMS TEST  
 (W FILE. W68-10,005)

MSC-EP-R-67-19 22-12-67 \*68-17292 NONE  
 EVALUATION OF AN APOLLO BLOCK 1 SPS BIPROPELLANT VALVE ( W FILE.W68-  
 10,091)

MSC-EP-R-67-27 08-09-67 \*68-16839 NONE  
 APOLLO COMMAND MODULE PILOT AND DROGUE PARACHUTE PYROTECHNIC MORTAR  
 TEST (W FILE. W67-10933)

MSC-EP-R-67-30 15-12-67 \*68-17956 NCNE  
 EVALUATION OF APOLLO OXYGEN CRYOGENIC STORAGE SYSTEM FOR APOLLO  
 APPLICATIONS PROGRAM MISSIONS (W FILE.W68-10,177)

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|---------------------------------------|--|---------------------------------------|--|
| MSC-EP-R-67-32                        | 1F-08-67 *68-17979 NONE<br>HELIUM BUBBLE FORMATION IN APOLLO RCS PROP TANK (W FILE.W68-10, )   | MSC-IN-67-EP3                         | 31-07-57 *68-18327 NCNE<br>APOLLO BLOCK 1 EPS RADIATOR FILL STUDY (W FILE.W68-10,728)  |
| MSC-EP-R-67-34                        | 01-12-67 *68-16999 NCNE<br>INVESTIGATION BY RADIODILOGICAL METHODS TRANSPORT KOH THRU HZ<br>RECIRCULATION LOOP OF APOLLO CMS FUEL CELL (W FILE. W67-10899) | MSC-IN-67-FM-195                      | 29-12-67 *68-17228 NONE<br>APOLLO 5 MISSION (AS-204/LM-1) SPACECRAFT OPERATIONAL<br>TRAJECTORY VOLUME 1-MISSION DESCRIPTION (W FILE W68-10,035)                  |
| MSC-EP-R-67-35                        | 08-12-67 *68-17748 NONE<br>APOLLO BLOCK 2 HYDROGEN CRYOGENIC STORAGE SYSTEM TEST (W FILE.<br>W68-10,015)   | MSC-IN-67-FM-197                      | 20-12-67 *68-17078 NONE<br>FINITE AND IMPULSIVE RPIN SIMULATIONS OF FIXED-ATTITUDE TRANSLUNAR<br>INJECTION ABORTS (W FILE.W68-10,018)                            |
| MSC-EP-R-67-40                        | 00-12-67 *68-19815 NONE<br>APOLLO LUNAR MODULE ASCENT AND DESCENT PROPULSION SYSTEM QUAD CHECK<br>VALVE CHATTER INVESTIGATION ( W FILE.W68-10,266)         | MSC-IN-67-FM-198                      | 15-12-67 *68-17079 NONE<br>AS-503A/AS-504A REQUIREMENTS FOR THE RTCC,REENTRY PHASE<br>(W FILF. W68-10,017)   |
| MSC-EP-R-67-42                        | 15-12-67 *68-18702 NONE<br>APOLLO BLOCK 1 SPS PRESSURIZATION MODULE FUNCTIONAL FLOW EVALUATION<br>TEST (W FILE.W68-10,268)                                 | MSC-IN-67-FM-199                      | 15-12-67 *68-17075 NCNE<br>AS-503/504 REQUIREMENTS FOR THE RTCC.THE RETURN-TO-EARTH ABORT<br>PROCESSOR,VOLUME 1-EARTH-CENTERED LOGIC (W FILF.W68-10,009)         |
| MSC-EP-R-68- 1                        | 05-01-68 *68-17113 NONE<br>AS-204 LM ASCENT PROPULSION SYSTEM PREFLIGHT ANALYSIS (W FILE.W68-100<br>27)  | MSC-IN-67-FM-200                      | 27-12-67 *68-17077 NCNE<br>THE MSC CSM ELECTRICAL POWER SUBSYSTEM PROGRAM (W FILE. W68-10,019)   |
| MSC-EP-R-68- 6                        | 22-03-68 *68-18335 NONE<br>APOLLO SERVICE PROPULSION SYSTEM PREFLIGHT ANALYSIS (W FILE.W68<br>-10,225)   | MSC-IN-68-FM- 1                       | 02-01-68 *68-17115 NCNE<br>APOLLO 5 MISSION (AS-204/LM-1) SPACECRAFT OPERATIONAL TRAJECTORY-VOL.<br>IV-CONSUMABLES ANALYSIS (W FILE. W68-10,034)                 |
| MSC-ES-R-67-10                        | 20-10-67 *68-18408 NCNE<br>GRAVITY EFFECTS ON COMBUSTION (W FILE.W67-10,825)   | MSC-IN-68-FM- 4                       | 08-01-68 *68-17136 NONE<br>TRAJECTORY INFORMATION FOR INITIAL PLANNING OF TERMINAL PHASE OF<br>COELIPTIC SEQUENCE RENDEZVOUS IN LUNAR ORBIT (W FILE. W68-10,038) |
| MSC-ES-R-67-11                        | 25-10-67 *68-18409 NONE<br>FREON 1301 AS A FIRE FIGHTING MEDIUM IN AN OXYGEN-RICH ATMOSPHERE<br>( W FILE.W68-10,903)                                       | MSC-IN-68-FM- 9                       | 09-01-68 *68-17114 NONE<br>OPERATIONAL SUPPORT PLAN FOR THE REAL-TIME AUXILIARY COMPUTING<br>FACILITY-APOLLO 5 FLIGHT ANNEX (W FILE. W68-10,016)                 |
| MSC-TESD NO 21-36                     | 14-02-68 *68-18059 NCNE<br>APOLLO SPACECRAFT VOICE SYSTEMS SPECIAL EVALUATION TEST REPORT, MSC/IE<br>SD DOCUMENT 21-36 (W FILF.W68-10,214)                 | MSC-IN-68-FM-22                       | 23-01-68 *68-17954 NONE<br>THE EFFECTS OF WIND FORCES ON A THRUSTING LAUNCH VEHICLE AND LAUNCH<br>ESCAPE SYSTEM FOR APOLLO MODE 1 ABORTS ( W FILE.W68-10,187)    |
| MSC-IN-66-EP-3                        | 02-05-66 *68-18404 NONE<br>PARALLEL PERFORMANCE EVALUATION OF TWO APOLLO FUEL CELL POWER SYSTEMS<br>(W FILE.W67-10,741)                                    | MSC-IN-68-FM-36                       | 14-02-68 *68-17554 NCNF<br>REFNTRY ERROR ANALYSIS FOR THE APOLLO LUNAR LANDING MISSION (W FILE.<br>W68-10,125)   |
| MSC-IN-66-EP-6                        | 00-05-66 *68-18403 NONE<br>ENVIRONMENTAL PERFORMANCE EVALUATION OF AN APOLLO FUEL CELL POWER<br>SYSTEM (W FILE.W66-10,440)                                 | MSC-IN-68-FM-41                       | 16-02-68 *68-17981 NONE<br>PREFLIGHT DATA FOR A LUNAR LANDING MISSION,VOL 2-MISSION PROFILE<br>(W FILE.W68-10,199)   |
| MSC-IN-67-EE-15                       | 00-06-67 *68-17949 NONE<br>FULL SCALE BLOCK 2 COMMAND AND SERVICE MODULE S-BAND OMNI ANTENNA<br>PATTERNS (W FILE.W68-10,181)                               | MSC-IN-68-FM-44                       | 16-02-68 *68-17656 NONE<br>DOPPLER OBSERVABLE MODELING FOR THE APOLLO REAL-TIME ORBIT DETERMINAT<br>ION PROGRAM (W FILE.W68-10,127)                              |
| MSC-IN-67-EE-23                       | 00-12-67 *68-17072 NCNE<br>OPERATIONAL COMPATIBILITY TESTS OF THE CSM HIGH GAIN ANTENNA SYSTEM<br>(W FILE. W68-10,009)                                     | MSC-IN-68-FM-55                       | 04-02-68 *68-17943 NONE<br>PREDICTED LAUNCH ABORT LANDING POINT DATA COMPUTED DURING APOLLO 4<br>(W FILE.W68-10,173)   |
| MSC-IN-67-EG-35                       | 05-12-67 *68-17073 NCNE<br>A SIMPLIFIED LM LANDING RADAR OPERATING BOUNDARY MODEL (WFILE.<br>W68-10,006)   | MSC-IN-68-FM-56                       | 05-01-68 *68-17258 NONE<br>COMPARISON BETWEEN APOLLO REFERENCE MISSION PROGRAM (ARM05) AND HIGH<br>SPEED INTEGRATION PROGRAM (PNIGSAI) (W FILF.W68-10,179)       |

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① Contractor report number ② Issue date: day, month, year ③ MSC accession number ④ Contract number  
 AP-M-2436 11-02-64 \*65-10292 NAS9-497  
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MSC-KA-D-68-1 15-03-68 \*68-18334 NONE  
 APOLLO APPLICATIONS PROGRAM EXPERIMENT GENERAL REQUIREMENTS (W FILE. W68-10,207)  
  
 MSC-PA-D-67-13 09-02-68 \*68-18413 NCNE  
 NONMETALLIC MATERIALS REQUIREMENTS (W FILE. W68-10,231)  
  
 MSC-PA-R-68- 1 00-01-68 \*68-17170 NONE  
 APOLLO 4 MISSION REPORT (W FILE. W68- )  
  
 MSC-PA-R-68- 1 SUPPL 9 00-02-68 \*68-18371 NONE  
 APOLLO 4 MISSION REPORT-GUIDANCE AND NAVIGATION ERROR ANALYSIS-FINAL  
 REPORT (SEE ALSO. TRW NO 05952-H394-R0-00) (W FILE. W68-10,217)  
  
 MSC-PA-R-68- 3 00-01-68 \*68-17403 NONE  
 PRELIMINARY TEST RESULTS SERVICE MODULE 102 SERVICE PROPULSION  
 SUBSYSTEM STATIC FIRTINGS (W FILE. W68-10,118)  
  
 MSC-PA-R-68- 4 25-01-68 \*68-17307 NONE  
 APOLLO 5 MISSION-3-DAY REPORT (W FILE. W68-10,072) (SUPERSEDED BY  
 MSC-PA-R-68-4A)  
  
 MSC-PA-R-68- 4A 00-02-67 \*68-17306 NONE  
 APOLLO 5 MISSION 10-DAY REPORT (W FILE. W68-10,095)  
  
 MSC-PA-R-68- 7 00-03-68 \*68-18412 NONE  
 APOLLO 5 MISSION REPORT (W FILE. W68-10,233)  
  
 MSC-PA-67-15 19-02-68 \*68-18267 NONE  
 PROCEDURE FOR APOLLO DESIGN CERTIFICATION REVIEW (W FILE. W68-10,200)  
  
 MSC-PT-R-67- 3 08-12-67 \*68-17071 NONE  
 APOLLO 4 MISSION-ANOMALY REPORT NO. 2 (W FILE. W67-10893)  
  
 MSC-PT-R-67- 4 08-12-67 \*68-17070 NCNE  
 APOLLO 4 MISSION-ANOMALY REPORT NO. 1 (W FILE. W67-10894)  
  
 MSC-PT-R-67- 6 00-12-67 \*68-17250 NONE  
 APOLLO 4 MISSION,ANOMALY REPORT NO. 3 (W FILE. W68-10,082)  
  
 MSC-PT-R-67-10 00-12-67 \*68-17251 NONE  
 APOLLO 4 MISSION ANOMALY REPORT NO. 7 (W FILE. W68-10,084)  
  
 MSC-PT-R-67-13 00-12-67 \*68-17252 NCNE  
 APOLLO 4 MISSION ANOMALY REPORT NO. 10 (W FILE. W68-10,085)

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MSC-PT-R-68- 2 00-01-68 \*68-17208 NONE  
 APOLLO 4 MISSION,TEST AND CHECKOUT ANOMALY REPORT NO. 1 (W FILE. W68-  
 10,083)  
  
 MSC-PT-R-68-19 00-05-68 \*68-18800 NONE  
 APOLLO 6 MISSION ANOMALY AND FAILURE LISTING REPORT (W FILE. W68-10,  
 301)  
  
 MSC-R-A-65-1 22-01-65 \*68-18480 NCNE  
 POSTLAUNCH REPORT FOR APOLLO MISSION A-002 (BP-23) (W FILE. W68-30,033)  
  
 MSC-R-67-EP-22 01-08-67 \*68-18326 NONE  
 APOLLO DUAL DROGUE DISCONNECT PERFORMANCE EVALUATION (W FILE.  
 W67-10,750)  
  
 MSC-TA-D-67-1 00-09-67 \*68-17112 NONE  
 APOLLO LUNAR SURFACE EXPERIMENTS PACKAGE DATA PROCESSING REQUIREMENTS  
 (W FILE. W68-10, )  
  
 NA-D-68-1 15-02-68 \*68-17765 NONE  
 NONMETALLIC MATERIALS DESIGN GUIDELINES AND TEST DATA HANDBOOK  
 (W FILE. W68-10,167)  
  
 RA-003-002-1A 01-06-66 \*68-16894 NONE  
 FAILURE SUMMARY AND TREND ANALYSIS FOR PERIOD MARCH AND APRIL,1966  
  
 RA-003-002-1A 00-12-66 \*68-16893 NONE  
 FAILURE SUMMARY AND TREND ANALYSIS FOR PERIOD SEPTEMBER AND OCTOBER  
 1966  
  
 RA-003-002-1A 00-10-66 \*68-16896 NONE  
 FAILURE SUMMARY AND TREND ANALYSIS FOR PERIOD JULY AND AUGUST,1966  
  
 SB07-C-001 15-12-67 \*68-17318 NONE  
 APOLLO SPACECRAFT PROGRAM,CONFIGURATION MANAGEMENT (W FILE. W68-  
 10,047)  
  
 SEB-104 REV. A 15-08-67 \*68-16992 NONE  
 GROUND SUPPORT SIMULATION COMPUTER PROGRAM SPECIFICATION  
  
 SEB-105 REV. I 23-06-67 \*68-16991 NCNE  
 GROUND SUPPORT SIMULATION COMPUTER PROGRAM SPECIFICATION  
  
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| SFB-106-GSSC<br>GROUND SUPPORT SIMULATION COMPUTER PROGRAM SPECIFICATIONS,BOOK 2   | 01-11-67 *68-16920 NONE      | W.P. NO. 5102<br>15-12-67 *68-17254 NONE<br>NASA APOLLO APPLICATIONS PROGRAM ELECTRICAL POWER SYSTEMS STUDY FOR AN AUGMENTED LUNAR MODULE (W FILE.W68-10,021)      |    |
| SE-005 003 2H<br>ORDNANCE SYSTEMS SATURN V,LAIUNCH VEHICLE   | 01-04-68 *68-18193 NONE      | (TM 011-003-1)<br>00-01-66 *68-16892 NONE<br>APOLLO TEST PLAN SUMMARY  |    |
| SNA-B-D-027<br>CSM/LM SPACECRAFT OPERATIONAL DATA BOOK VOLUME 3-MASS PROPERTIES ( W FILE.W68-10,1991)  | 00-03-68 *68-18268 NONE      | 500 EDRP-1<br>01-11-67 *68-16919 NONE<br>GROUND SUPPORT SIMULATION COMPUTER PROGRAM SPECIFICATIONS,BOOK 1  |    |
| SPD7-R-002<br>APOLLO 5 MISSION REQUIREMENTS,204/LM-1,B TYPE MISSION,LM DEVELOPMENT-REVISION 5  | 04-12-67 *68-17062 NAS9-4810 | 500 EDRP-1<br>01-11-67 *68-16920 NONE<br>GROUND SUPPORT SIMULATION COMPUTER PROGRAM SPECIFICATIONS,BOOK 2  |    |
| SPDR-R-001<br>MISSION REQUIREMENTS FOR C TYPE MISSION,CSM OPERATING REV 1 CHG B (SUPERCEDES TRW-05952-H169-R0-00;#67-14508)                              | 10-05-68 *68-18677 NONE      | 66-EG-40<br>31-08-66 *68-17746 NONE<br>ORBITAL ATTITUDE CONTROL USING HORIZON SENSOR DATA ONLY ( W FILE.W68-10,042)  |    |
| SPD8-R-009<br>APOLLO 4 (501/017/10R) AND APOLLO 6 (502/020/2R) MISSION REQS UNMANNED SUPERCIR REENTRY,REV 4 (SUPER TRW/0595-2-H-59-R0-0,W66-13619        | 27-09-67 *68-18283 NAS9-4810 | 67-EG-28<br>10-08-67 *68-16842 NONE<br>STRAPDOWN TEST STATION AND EVALUATION TECHNIQUES (W FILE.W67-10828)   |    |
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 AP-M-2436      11-02-64      \*65-10292      NAS9-497  
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| NONE | 00-00-67 *68-1R261 GAEC P.O. 2-92820<br>NARRATIVE END ITEM REPORTS,LATCHING SOLENOID VALVE,OXIDIZER,PART NO 5640014-211,GAEC SERIAL NO 144 THRU 148 |
| NONE | 31-07-67 *68-18188 GAEC P.O. 2-92820<br>NARRATIVE END ITEM REPORT,OXIDIZER LATCHING SOLENOID VALVE,PART NO 5640014-231,SERIAL NO 149 THRU 193       |
| NONE | 00-00-67 *68-18282 GAEC P.O. 4-57708C<br>NARRATIVE END ITEM REPORTS-VALVE,HELIUM,PRESSURE REDUCER,P/N 5660049,GAEC S/N 106 THRU 109                 |
| NONE | 31-07-67 *68-18189 GAEC P.O. 2-92820<br>NARRATIVE END ITEM REPORT,FUEL LATCHING SCLENOID VALVE,PART NO 5640014-221,SERIAL NO 197 THRU 199           |
| NONE | 00-00-67 *68-1R258 GAEC P.O. 2-92820<br>NARRATIVE END ITEM REPORTS,LATCHING SOLENOID VALVE,FUEL PART NO 5640014-241,GAEC SFRIL NO 145 THRU 147      |

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| SCA-8850-5 | 00-01-68 *68-17572 NAS9-7071<br>SPACECRAFT CABIN ANALYZER-MONTHLY PROGRESS REPORT NUMBER 5  |
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| SCA-8851-1 | 00-00-67 *68-15527 NAS9-7071<br>SPACECRAFT CABIN ANALYZER DRAWING AND SPECIFICATION LIST  |
| SCA-8852-1 | 00-09-67 *68-16528 NAS9-7071<br>SPACECRAFT CABIN ANALYZER DOCUMENTATION   |
| SCA-8854-1 | 00-09-67 *68-16529 NAS9-7071<br>SPACECRAFT CABIN ANALYZER WHERE USED PARTS LIST   |

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| Q157           | 30-01-69 *68-17542 GAEC P.O. 4-25815<br>REPORT OF RANDOM VIBRATION TESTS ON THE CO2 SENSOR P/N 575-0100 GAEC                             |

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**TYPICAL CITATION**

|   |                             |   |                                 |   |                         |   |                    |
|---|-----------------------------|---|---------------------------------|---|-------------------------|---|--------------------|
| ① | Contractor<br>report number | ② | Issue date:<br>day, month, year | ③ | MSC accession<br>number | ④ | Contract<br>number |
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FIR-(M)-3320-18 14-07-67 \*68-17066 GAEC P.O. 2-18846-C  
 LEM END ITEM REPORT FOR RENDEZVOUS RADAR ANTENNA ASSEMBLY, MODEL 18, S/N 118, RCA P/N 8343592-509, LSC-370-200-5-3

LCP-P-1100-3B 15-12-65 \*68-17095 NONE  
 RCA LEM CONFIGURATION CONTROL PROCEDURE

LCQ-370-005 28-09-67 \*68-16924 GAEC P.O. 2-18846-C  
 LM DESIGN LIMIT QUALIFICATION TEST PLAN FOR TRANSPONDER ELECTRONIC ASSEMBLY

LCQ-370-005 28-09-67 \*68-16820 GAEC P.O. 2-18846-C  
 LM ENDURANCE QUALIFICATION TEST PLAN FOR TRANSPONDER ELECTRONIC ASSEMBLY

LDIP-(B)-3000-2 00-00-56 \*68-17771 GAEC P.O. 2-24486  
 PROCEDURE FOR CORDWOOD PRINTED WIRING BOARD ARTWORK INSPECTION-LEM PROGRAM

LDRD-P-4700-1 22-02-68 \*68-18033 GAEC P.O. 2-24463-C  
 APOLLO VHF RANGING, LM VHF TRANSCEIVER ASSEMBLY MODIFICATION DESIGN REPORT (CDR) ELECTRICAL/MECHANICAL DESIGN

LDRD-P-4700-2 23-02-68 \*68-17957 GAEC P.O. 2-24463-C  
 APOLLO RANGING-RANGING TONE TRANSFER ASSEMBLY DESIGN REPORT (CDR), ELECTRICAL/MECHANICAL DESIGN

LDR-(B)-6200-14 01-12-57 \*68-16759 GAEC P.O. 2-24486-C  
 AMENDMENT 2, DESCENT ENGINE CONTROL ASSEMBLY, DECA, PRODUCTION MODEL DESIGN REPORT

LDR-(P)-6100-18 AMEND 1 07-02-68 \*68-18573 GAEC P.O. 2-24470-C  
 ATTITUDE + TRANSLATION CONTROL ASSEMBLY (ATCA), AMENDMENT 1 TO PRODUCTION MODEL DESIGN REPORT

LDR-(T)-3100-3 15-04-66 \*68-18571 GAEC P.O. 2-18846-C  
 LEM DESIGN REPORT NO 3, FREQUENCY MULTIPLIERS FOR THE RENDEZVOUS RADAR, TRANSPONDER, AND LANDING RADAR

LDTP-(B)-3350-8 20-03-57 \*68-16396 GAEC P.O. 4-04002C  
 DETAILED CALIBRATION AND ALIGNMENT PROCEDURES SECTION TEST FACILITY VENDOR ACCEPTANCE TEST EQUIPMENT

### RCA/DEFENSE ELECTRONICS PRODUCTS - Continued

LDTP-(B)-3355-14R 24-04-68 \*68-18528 GAEC P.O. 2-18846-C  
 LM TEST PLAN/PROCEDURE FOR R/R FREQ SYNTHESIZER SUBASSY ENDURANCE REQUAL (MINI-QUAL) TESTS-SPECIAL VIBRATION AND THERMAL VACUUM TESTS

LDTP-(B)-3450-13 REV A 15-03-68 \*68-17803 GAEC P.O. 2-18846-C  
 ACCEPTANCE TEST PROCEDURE FOR TRANSPONDER TEST BENCH (REV A) (SUPERSEDES LDTP-(B)-3450-13)

LDTP-(M)-3320-7 14-08-67 \*68-16462 GAEC P.O. 2-18846-C  
 TEST AND INSPECTION PROCEDURE FOR RENDEZVOUS RADAR ANTENNA ASSEMBLY SEA-AIR EXPOSURE TEST

LDTP-(M)-4120-3A 19-01-68 \*68-17802 GAEC P.O. 2-24463-C  
 DESIGN LIMIT QUALIFICATION TEST AND INSPECTION PROCEDURES FOR ERECTABLE ANTENNA ASSEMBLY, APPENDIX A (REV A)

LDTP-(P)-3350-6B, SUPP 1 10-10-67 \*68-18422 GAEC P.O. 2-18846-C  
 LM ENVIRONMENTAL ENDURANCE QUAL TEST PROCEDURE FOR RENDEZVOUS RADAR ELECTRONICS ASSY (POST QUA DISASSY/INSP INSTRUCTION/CHECK LISTS)

LDTP-(P)-3450-90 30-11-67 \*68-16823 GAEC P.O. 2-18846-C  
 LM ENVIRONMENTAL ENDURANCE QUALIFICATION TEST PROCEDURE FOR TRANSPONDER ELECTRONIC ASSY-REV D ECN R8-3424 INCLUDING AMENDMENTS 1+2

LDTP-(P)-3450-9E 09-04-68 \*68-17423 GAEC P.O. 2-18846-C  
 LM ENVIRONMENTAL DESIGN LIMIT QUALIFICATION TEST PROCEDURE FOR TRANSPONDER ASSEMBLY, REV E ECN R8-3852 (INCLUDING AMENDMENTS 1)

LEIP-(B)-6200-5C 29-05-68 \*68-16233 GAEC P.O. 2-24486-C  
 ACCEPTANCE TEST AND INSPECTION PROCEDURES FOR DECA MODELS 12 AND UP

LEIP-(M)-3320-1C 12-06-67 \*68-16234 GAEC P.O. 2-18846-C  
 END ITEM ACCEPTANCE INSPECTION PROCEDURE FOR RENDEZVOUS RADAR ANTENNA ASSEMBLY

LEP-(B)-6200-5B 29-05-69 \*68-16188 GAEC P.O. 2-24486-C  
 ACCEPTANCE TEST PLAN FOR DECA MODEL 12 AND UP

LEP-(P)-3200-4 19-03-68 \*68-16238 GAEC P.O. 2-18846-C  
 LM END ITEM RR SECTION ACCEPTANCE TEST PLAN WITH A TRANSPONDER (MODELS 10 AND UP) INCLUDING AMENDMENTS 1+2

LEP-(P)-3300-5 15-05-67 \*68-18429 GAEC P.O. 2-18846-C  
 BTC PERFORMANCE VERIFICATION TEST PLAN FOR RENDEZVOUS RADAR SECTION (RREA PRODUCTION MODEL 8 AND RRAA PRODUCTION MODEL 9)

LEP-(P)-3350-2 08-01-68 \*68-17772 GAEC P.O. 2-18846-C  
 LM END ITEM TEST PLAN FOR RENDEZVOUS RADAR ELECTRONIC ASSEMBLY

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| LFP-(P)-3450-3A 11-09-67 *68-16924 GAEC P.O. 2-18846-C<br>LM END ITEM TEST PLAN FOR TRANSPONDER ELECTRONIC ASSEMBLY<br>(PRODUCTION MODELS 8 AND UP)   | LETP-(P)-3200-2 05-07-67 *68-16186 GAEC P.O. 2-18846-C<br>LM END ITEM ACCEPTANCE TEST PROCEDURE FOR THE RENDEZVOUS RADAR<br>WITH A TRANSPONDER                     |
| LESP-(M)-3370-1E 16-10-67 *68-17424 GAEC P.O. 2-18846-C<br>SPEC AND TEST PROCED (CALIB) FOR SPECIAL TEST EQUIP TEST SET,<br>RADIATION AND SYS TEST SET,RR ANT ASSY (MTX -L-8337950-1 AND 2)     | LETP-(P)-3300-7C 21-08-67 *68-16537 GAEC P.O. 2-18846-C<br>LM TEST AND INSPECTION PROCEDURE FOR RENDEZVOUS RADAR HANDLING<br>FIXTURE (MODELS 10 AND UP)            |
| LESP-(P)-43000 REV A 24-01-68 *68-16925 GAEC P.O. 2-24463-C<br>LEM EQUIPMENT SPECIFICATION COMMUNICATIONS SUBSYSTEM SPECIFIC<br>REQUIREMENTS FOR SIGNAL PROCESSOR ASSEMBLY REV C                | LETP-(P)-3350-1M 27-09-67 *68-17012 GAEC P.O. 2-18846-C<br>LM END ITEM INSPECTION AND TEST PROCEDURE FOR RENDEZVOUS RADAR<br>ELECTRONIC ASSEMBLY                   |
| LESP-(P)-4700 11-12-67 *68-17977 GAEC P.O. 2-4463-C<br>LM EQUIPMENT SPECIFICATION,COMMUNICATIONS SUBSYSTEM,SPECIFIC<br>REQUIREMENTS FOR RANGING TIME TRANSFER ASSEMBLY (RTTA) REV 2             | LETP-(P)-3350-1N 15-01-68 *68-17416 GAEC P.O. 2-18846-C<br>LM END ITEM INSPECTION AND TEST PROCEDURE FOR RENDEZVOUS RADAR<br>ELECTRONIC ASSEMBLY                   |
| LETP-(B)-6100-7C 27-06-67 *68-16184 GAEC P.O. 2-24470-C<br>END ITEM TEST AND INSPECTION PROCEDURES FOR ATCA PRODUCTION MODELS   | LETP-(P)-3400-5C 25-09-67 *68-16536 GAEC P.O. 2-18846-C<br>LM TEST AND INSPECTION PROCEDURE FOR TRANSPONDER HANDLING FIXTURE<br>(MODELS 10 AND UP)                 |
| LETP-(B)-6100-7E 01-04-68 *68-17049 GAEC P.O. 2-24470-C<br>END ITEM TEST AND INSPECTION PROCEDURES FOR ATCA PRODUCTION MODELS<br>(REV E) (SUPERCEDES LETP-(B)-61007D)                           | LETP-(P)-3450-3R 19-04-68 *68-16826 GAEC P.O. 2-18846-C<br>LM END ITEM INSPECTION AND TEST PROCEDURE FOR TRANSPONDER<br>ELECTRO ASSY (PROD MODELS 8 AND UP)        |
| LETP-(B)-6200-6B 29-05-68 *68-16233 GAEC P.O. 2-24486-C<br>ACCEPTANCE TEST AND INSPECTION PROCEDURES FOR DECA MODELS 12 AND UP  | LETP-(P)-3450-5 01-04-68 *68-18701 GAEC P.O. 2-18846-C<br>LM END ITEM INSP + TEST PROCED FOR TRANSPORTER ELECTRO ASSY (PROD<br>MODELS 7 AND UP) INCLUDING AM 1 + 2 |
| LETP-(C)-4270-1 28-11-67 *68-19363 GAEC P.O. 2-24463-C<br>END-ITEM TEST PLAN AND PROCEDURE FOR ACCEPTANCE TEST (TP-1-9356324)<br>VHF TRANSCIEVER ASSEMBLY                                       | LMR-(P)-3100-18 31-05-65 *68-17293 GAEC P.O. 2-18846-C<br>LEM,MONTHLY PROGRFSS REPORT LUNAR EXCURSION MODULE RADAR<br>EQUIPMENT                                    |
| LETP-(M)-3320-1F 25-05-68 *68-17310 GAEC P.O. 2-18846-C<br>END ITEM ACCEPTANCE TEST PROCEDURE FOR RENDEZVOUS RADAR ANTENNA<br>ASSEMBLY  | LMR-(P)-3100-22 30-09-65 *68-17096 GAEC P.O. 2-18846-C<br>LEM MONTHLY PROGRESS REPORT LUNAR EXCURSION MODULE RADAR EQUIPMENT                                       |
| LETP-(M)-3320-3D 02-02-68 *68-18446 GAEC P.O. 2-18846-C<br>END ITEM ACCEPTANCE TEST PROCEDURE FOR RENDEZVOUS RADAR ANTENNA<br>ASSEMBLY (MICROWAVE + REFLECTOR SUBASSEMBLY)                      | LMR-(P)-3100-49 25-01-68 *68-18010 GAEC P.O. 2-18846-C<br>MONTHLY PROGRESS LETTER,LM RADAR   |
| LETP-(M)-3320-7B 25-01-68 *68-18032 GAEC P.O. 2-18846-C<br>END ITEM ACCEPTANCE TEST PROCEDURE FOR RENDEZVOUS RADAR ANTENNA<br>ASSEMBLY (PEDESTAL SUB-ASSEMBLY)                                  | LMR-(P)-4700- 1 10-11-67 *68-17330 GAEC P.O. 2-24463-C<br>PROGRESS REPORT,LM VHF RANGING,MONTHLY REPORT NO 1   |
| LETP-(M)-3321-17D 02-02-68 *68-15869 GAEC P.O. 2-18846-C<br>LM END ITEM ACCEPTANCE TEST PROCEDURE FOR RF SILENCER/GSE TEST<br>COUPLER RENDEZVOUS RADAR EQUIPMENT (SUPERCEDES LELP-(M)-3321-17C) | LMR-(P)-4700- 2 10-12-67 *68-17357 GAEC P.O. NO. 2-24463<br>PROGRESS REPORT,LM VHF RANGING,MONTHLY REPORT NO 2   |
| LETP-(M)-3621-1C 15-09-67 *68-18421 GAEC P.O. 2-18846-C<br>END ITEM ACCEPTANCE TEST PROCEDURE FOR PEDESTAL SUBASSEMBLY<br>(LANDING RADAR)-(SUPERCEDES LETP(M)-3621-18 DATED 15AUG 1966)         | LMR-(P)-4700- 3 10-01-68 *68-18012 GAEC P.O. 2-24463C<br>PROGRESS REPORT,LM VHF RANGING,MONTHLY REPORT NO 3  |
| LETP-(P)-3200-1G 15-01-68 *68-17932 GAEC P.O. 2-18846-C<br>LM END ITEM RR SECTION INSPECTION AND ACCEPTANCE TEST PROCEDURE WITH<br>A TRANSPONDER  | LNR-(B)-6100-17 19-08-67 *68-16541 GAEC P.O. 2-24470-C<br>END ITEM NARRATIVE REPORT FOR LM ATTITUDE AND TRANSLATION CONTROL<br>ASSEMBLY PRODUCTION MODEL 20        |
|   | LNR-(B)-6100-18 11-09-67 *68-15542 GAEC P.O. 2-24470-C<br>END ITEM NARRATIVE REPORT FOR LM ATTITUDE AND TRANSLATION CONTROL<br>ASSEMBLY-PRODUCTION MODEL 22        |

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| LNR-(B)-6100-20 02-10-57 *68-18427 GAEC P.O. 2-24470C<br>END ITEM NARRATIVE RPT FOR LM ATTITUDE AND TRANSLATION CONTROL ASSY, PRODUCTION MODEL 21 (RCA ASSY NO 1934300-506,GAEC S/N 21)         | LTP-(M)-3320- 12 10-07-67 *68-16664 GAEC P.O. 2-18846-C<br>TEST PLAN FOR THE QUALIFICATION OF THE PRODUCTION COAXIAL CONNECTOR-CABLE INTERFACE CONFIG. USED ON THE RENDEZVUS RADAR ANTENNA ASSY |
| LNR-(B)-6100-21 SUPP 1 29-11-57 *68-18423 GAEC P.O. 2-24470C<br>END ITEM NARRATIVE PPT FOR LM ATTITUDE AND TRANSLATION CONTROL ASSY, PRODUCTION MODEL 26 (RCA ASSY NO 1934300-506,GAEC S/N 026) | LTP-(M)-3320- 14A SUPP 1 02-01-68 *68-18425 GAEC P.O. 2-18846C<br>TEST PLAN FOR POST QUL DISASSEMBLY AND EVALUATION OF RR/AA MODEL 10 (SUPERCEDES LTP-(M)-3320-14 DATED 27 OCT 1967)            |
| LNR-(B)-6100-22 30-03-59 *68-18520 GAEC P.O. 2-24470-C<br>END ITEM NARRATIVE PPT FOR LM ATTITUDE AND TRANSLATION CONTROL ASSY, PROD MODEL 24,RCA ASSY NO 1934300-506,GAEC S/N 24                | LTP-(M)-3320- 15 15-12-67 *68-18424 GAEC P.O. 2-18846<br>TEST PLAN FOR POST QUL DISASSEMBLY AND EVALUATION OF RR/AA MODEL 8   |
| LNR-(B)-6200-18 26-08-67 *68-16539 GAEC P.O. 2-24486-C<br>END ITEM NARRATIVE REPORT FOR LM DESCENT ENGINE CONTROL ASSEMBLY- PRODUCTION MODEL 017  | LTP-(P)-3450- 4B 28-09-67 *68-16820 GAEC P.O. 2-18846-C<br>LM ENDURANCE QUALIFICATION TEST PLAN FOR TRANSPONDER ELECTRONIC ASSEMBLY   |
| LNR-(B)-6200-19 01-08-67 *68-16235 GAEC P.O. 2-24486-C<br>END ITEM NARRATIVE REPORT FOR LM DESCENT ENGINE CONTROL ASSEMBLY PRODUCTION MODEL 022   | LTP-(P)-3450- 5A 28-09-67 *68-16924 GAEC P.O. 2-18846-C<br>LM DESIGN LIMIT QUALIFICATION TEST PLAN FOR TRANSPONDER ELECTRONIC ASSEMBLY  |
| LNR-(B)-6200-21 04-10-67 *68-18426 GAEC P.O. 2-24486C<br>END ITEM NARRATIVE RPT-LM DESCENT ENGINE CONTROL ASSY,PROD MODEL 24, RCA ASSY NO 1934300-504,GAEC S/N 24 (INCLUDES SUPP 1)             | LTP-(T)-1330- 1 20-12-67 *68-18011 NONE<br>SPECIAL TEST PROCEDURE FOR POST-QUALIFICATION TEST,DIASSEMBLY,AND INSPECTION OF MODEL 201R   |
| LNR-(C)-4270-23 15-07-67 *68-16464 GAEC P.O. 2-24463-C<br>END ITEM NARRATIVE REPORT,LEM COMMUNICATIONS SUBSYS VHF TRANSCEIVER AND DIPLEXER,PRODUCTION MODEL S/N 123                             | LTP-(T)-3324-2 22-09-67 *68-18431 NONE<br>SPECIAL TEST PROCEDURE FOR NOISE VS R-MINUS TO CHASSIS RIPPLE SENSITIVITY ON RENDEZVOUS RADAR MULTIPLIERS   |
| LNR-(C)-4270-25 00-00-57 *68-16748 GAEC P.O. 2-24463-C<br>END ITEM NARRATIVE REPORT,LEM COMMUNICATIONS SUBSYSTEM VHF TRANSCEIVE R AND DIPLEXER,PRODUCTION MODEL SERIAL NO. 125                  | LTR-(B)-2400-20 28-06-67 *68-17050 GAEC P.O. 4-04002C<br>FINAL TEST REPORT,LEM PARTS QUALIFICATION PROGRAM,QSS NO. 764  |
| LTM-(P)-8320-9 28-05-67 *68-18423 GAEC P.O. 2-24463C<br>LM RANGING TEST ASSEMBLY (RTA) EVALUATION REPORT  | LTR-(B)-2400-22 22-06-67 *68-17048 GAEC P.O. 4-04002C<br>FINAL TEST REPORT LEM PARTS QUALIFICATION PROGRAM  |
| LTP-(B)-6100- 9G 22-11-57 *68-16185 GAEC P.O. 2-24470-C<br>END ITEM TEST PLAN FOR ATCA PRODUCTION MODELS  | LTR-(P)-3300-15 10-11-57 *68-17047 GAEC P.O. 2-18846-C<br>LM ENGINEERING TEST REPORT FOR RENDEZVOUS RADAR SECTION (PRODUCTION MODEL 14)   |
| LTP-(B)-6200- 10,SUPP 1 07-09-67 *68-18420 GAEC P.O. 2-24486C<br>SUPPLEMENT 1-TEST PLAN AND PROCEDURE,ELECTROMAGNETIC INTERFERENCE TEST EMI (ADDITIONAL ENVIRONMENTAL EXPOSURE),DECA MODEL 012  | LTR-(P)-3300-17 20-06-67 *68-16544 GAEC P.O. 2-18846-C<br>LM ENDURANCE QUALIFICATION EMI TEST REPORT FOR RENDEZVOUS RADAR SECTION   |
|   | LTR-(P)-3350- 4 01-07-57 *68-17280 GAEC P.O. 2-18846-C<br>LM FINAL ENDURANCE QUALIFICATION TEST REPORT FOR RENDEZVOUS RADAR ELECTRONIC ASSEMBLY-VOLUME 1 OF 3                                   |

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| <p>LTR-(P)-3350- 4            01-07-67    *68-17300    GAEC P.O. 2-18846-C<br/>APPENDIX A-LM ENDURANCE QUALIFICATION VIBRATION-TEMPERATURE<br/>ACCELEROMETER RESPONSE DATA FOR RENDEZVOUS RADAR ELEC ASSY VOL 2 OF 3</p> <p>LTR-(P)-3350- 5            01-08-67    *68-17277    GAEC P.O. 2-18846-C<br/>LM FINAL DESIGN LIMIT QUALIFICATION TEST REPORT FOR RENDEZVOUS RADAR<br/>ELECTRONIC ASSEMBLY, VOLUME 1 OF 3</p> <p>LTR-(P)-3350- 5            01-08-67    *68-17279    GAEC P.O. 2-18846-C<br/>APPENDIX A-LM DESIGN LIMIT QUALIFICATION VIBRATION ACCELEROMETER<br/>RESPONSE DATA FOR RENDEZVOUS RADAR ELECTRONIC ASSEMBLY, VOL 2 OF 3</p> <p>LTR-(P)-3450- 1            20-12-67    *68-17299    GAEC P.O. 2-18846-C<br/>LM ENDURANCE QUALIFICATION FMI TEST REPORT FOR TRANSPONDER</p> <p>SDDR-SY-1                22-01-68    *68-18509    NAS9-750R<br/>REPORT OF PRELIMINARY DESIGN REVIEW-EXTRA-VEHICULAR COMMUNICATION<br/>SYSTEM</p> <p>TP-LM-RAN-1087           05-02-68    *68-18652    GAEC P.O. 2-4463-C<br/>LM VHF SPECIAL TEST PROGRAM, TEST PROCEDURES</p> <p>TP-6-9356324            13-10-67    *68-18430    GAEC P.O. 2-24463C<br/>TEST PROCEDURE, CORONA TESTS, VHF TRANSCEIVER ASSEMBLY (LDTP-C-4270-8)</p> | <p>LDTP-3659-4            22-09-67    *68-17482    RCA P.O. GX-807201-L61<br/>LM LANDING RADAR TEST PROCEDURE FOR CABLING SUBASSEMBLY<br/>MANUFACTURING AND OPERATIONAL PERFORMANCE TESTS</p> <p>LET P 54361-4            22-03-68    *68-18650    RCA P.O. GX-479820-L61<br/>LM LANDING RADAR TEST PROCEDURE FOR ANTENNA HAT FLIGHT TEST MODELS<br/>P11 AND ON</p> <p>LET P-3600-9A            08-12-67    *68-17478    RCA P.O. GX-807201-L61<br/>TEST PROCEDURE FOR END ITEM ACCEPTANCE LM LANDING RADAR MODELS P<br/>19L AND ON, VOLUME 1</p> <p>LET P-55461-2-1,AMEND 3    26-01-68    *68-18556    RCA P.O. GX-479820-L61<br/>LM LANDING RADAR TEST PLAN AND PROCED FOR HAT COUPLER ACCT TEST, MODE<br/>LS PPRL AND ON (DATA SHEETS ONLY-P/N 533441001-G-3,S/N 10)</p> <p>LTP-3600-4B            24-08-67    *68-17490    RCA P.O. GX-807201-L61<br/>SECTION AND ASSEMBLY TEST PLAN FOR DESIGN LIMIT QUALIFICATION TESTS,<br/>MODEL P-13X</p> <p>LTP-3600-5B            19-02-68    *68-17491    RCA P.O. GX-807201-L61<br/>SECTION AND ASSEMBLY TEST PLAN FOR DESIGN LIMIT POST QUALIFICATION<br/>TESTS LDGN RADAR-MODEL P13X (SUPERCEDES LTP-3600-5A,DATED 1 AUG 1967)</p> <p>53965-104              19-09-67    *68-17487    RCA P.O. GX-807201-L61<br/>QUALIFICATION RE-TEST TEST PLAN AND TEST PROCEDURE LM LANDING RADAR,<br/>MODEL P11X-AMENDMENT 3</p> <p>53965-108              25-09-67    *68-17492    RCA P.O. GX-807201-L61<br/>TEST PROCEDURE FOR FINAL CONFIGURATION PHASE IV OF RF VIEW FACTOR<br/>PROGRAM</p> <p>53965-114              21-12-67    *68-17488    RCA P.O. GX-807201-L61<br/>ANTENNA ASSEMBLY PRESSURE OVERSTRESS TEST, TEST PLAN AND TEST<br/>PROCEDURE</p> <p>53965-117              12-01-68    *68-1R165    RCA P.O. GX-807201-L61<br/>THERMAL VACUUM (THERMAL SYSTEMS)-TEST PROCEDURE FOR END ITEM<br/>ACCEPTANCE LM LANDING RADAR ANTENNA,ASSEMBLY MODEL P 27 L ONLY</p> <p>53965-126              26-03-68    *68-18521    RCA P.O. GX-807201-L61<br/>TEST PLAN AND TEST PROCEDURE FOR DELTA QUALIFICATION LM LANDING RADAR<br/>ANTENNA ASSEMBLY MODEL P19L</p> <p>53966-73              11-07-67    *68-17485    RCA P.O. GX-807201-L61<br/>DETAIL TEST REPORT ON PHASE 2 OF RF VIEW FACTOR TEST<br/>PROGRAM LM LANDING RADAR</p> <p>53966-74              06-10-68    *68-17493    RCA P.O. GX-807201-L61<br/>FULL SCALE SOLAR THERMAL VACUUM TEST REPORT ON LM LANDING RADAR DFT/<br/>DVT MODEL P13X ANTENNA ASSEMBLY</p> <p>53966-80              00-00-00    *68-18553    NONE<br/>LM LANDING RADAR-CONFORMAL COATING OF CORDWOOD COMPONENTS AND<br/>SUBASSEMBLIES</p> <p>53966-81              19-10-67    *68-17481    RCA P.O. GX-807201-L61<br/>FORGED TRACKER SEARCH CIRCUIT TEST RESULTS LM LANDING RADAR</p> |
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| 53966-82                              | 01-11-67 *69-17486 RCA P.O. GX-807201-L61<br>FULL SCALE SOLAR THERMAL VACUUM TEST REPORT ON LM LANDING RADAR DFT/DVT MODEL P1IX ANTENNA ASSEMBLY             | P-C 6760R 24-04-68 *68-18439 GAEC P.O. 5-68878<br>CLEANING PROCEDURE FOR AIRITE P/N 6760 TANK ASSEMBLIES AND COMPONENTS (PROPELLANT TANK-DESCENT STAGE) |
| 53966-85                              | 04-12-67 *69-18558 RCA P.O. GX-807201-L61<br>EMI TEST REPORT ON LM LANDING RADAR QUALIFICATION RETEST (MODEL P1IX)   | P-FQ 6760 04-01-68 *68-17593 GAEC P.O. 5-68878<br>FORGING QUALIFICATION PROCEDURE FOR AIRITE P/N 6760-451 FORGING                                       |
| 53966-86                              | 05-01-68 *68-18442 RCA P.O. GX-807201-L61<br>THERMAL CYCLING AND VIBRATION TEST RESULTS ON P13X LVPS INPUT FILTER  | P-H 6760 30-03-68 *68-18667 GAEC P.O. 5-68878<br>HEAT TREAT PROCEDURE FOR AIRITE P/N 6760 COMPONENTS AND TANK ASSEMBLIES                                |
| 53966-88                              | 31-01-68 *68-17945 RCA P.O. GX-807201-L61<br>PRESSURE OVERSTRESS TEST REPORT ON LM LANDING RADAR ELECTRONIC ASSEMBLY MODEL P10L                              | P-I 6760 18-01-68 *68-17602 GAEC P.O. 5-68878<br>INSPECTION LIQUID PENETRANT METHOD OF, FOR AIRITE P/N 6760 COMPONENTS AND TANK ASSEMBLIES              |
| 53966-89                              | 31-01-68 *68-17966 RCA P.O. GX-807201-L61<br>PRESSURE OVERSTRESS TEST REPORT ON LM LANDING RADAR ANTENNA ASSEMBLY MODEL P11X                                 | P-MQ 6760 26-12-68 *68-17592 GAEC P.O. 5-68878<br>MATERIAL QUALIFICATION PROCEDURE FOR AIRITE P/N 6760-53 AND P/N 6760 55 TiGAL-4V FORGINGS             |
| 53966-92                              | 07-03-68 *68-18562 RCA P.O. GX-807201-L61<br>INTERIM REPORT ON PHASE IV OF RF VIEW FACTOR TEST PROGRAM LM LANDING RADAR                                      | P-MT 6760B 31-05-68 *68-17595 GAEC P.O. 5-68878<br>MATERIAL TEST PROCEDURE FOR AIRITE P/N 6760-451 PRODUCTION CLOSURES                                  |
| 53969-54                              | 27-09-67 *68-17480 RCA P.O. GX-807201-L61<br>COLD CASE MISSION ANALYSIS FOR LM LR ANTENNA ASSEMBLY   | P-T 6760 REV B 29-04-68 *68-18308 GAEC P.O. 5-68878<br>ACCEPTANCE TEST REQUIREMENTS FOR THE 6760 PROPELLANT TANK ASSEMBLY                               |
| 53974-41A                             | 23-10-67 *68-17489 RCA P.O. GX-807201-L61<br>HOT CASE MISSION ANALYSIS FOR LM LR ANTENNA ASSEMBLY  | P-X 6760 18-01-68 *68-17594 GAEC P.O. 5-68878<br>RADIOGRAPHIC INSPECTION PROCEDURE FOR AIRITE P/N 6760, COMPONENTS AND TANK ASSEMBLIES                  |
| 53974-54                              | 14-03-68 *68-18444 RCA P.O. GX-807201-L61<br>ANALYSIS OF VELOCITY ERRORS IN LM LANDING RADAR PP-7L FLIGHT TESTS  | P-ZFQ 6760 10-01-68 *68-17596 GAEC P.O. 5-68878<br>FORGING QUALIFICATION PROCEDURE FOR AIRITE P/N 6760-33 CYLINDERS                                     |
| <b>SARGENT INDUSTRIES/AIRITE DIV.</b> |  | P-2MT 6760 09-01-68 *68-17601 GAEC P.O. 5-68878<br>MATERIAL TEST PROCEDURE FOR AIRITE P/N 6760-33 PRODUCTION CYLINDERS                                  |
| MO 6760                               | 21-02-68 *68-18367 GAEC P.O. 5-68878<br>METALLURGICAL REPORT MATERIAL QUALIFICATION FOR P/N 6760-43 Ti-6Al-4V FORGING BILLET STOCK (TMCA HEAT NUMBER G-6535) | P-2M6499 00-00-66 *68-17530 P.O. 2-74655<br>SPECIFICATIONS AND PROCEDURES TANK HELIUM STORAGE REACTION CONTROL SYSTEM                                   |
| MR-05-01                              | 22-01-68 *68-18441 GAEC P.O. 5-68878<br>MATERIAL REVIEW PROCEDURE  | P-2T 6760C 29-05-68 *68-18309 GAEC P.O. 5-68878<br>DESIGN FEASIBILITY ENVIRONMENTAL TEST REQUIREMENTS FOR THE 6760-5 PROPELLANT TANK ASSEMBLY           |

| SARGENT INDUSTRIES/AIRITE DIV. - Continued |                    |                          |  | SARGENT INDUSTRIES/AIRITE DIV. - Continued |                    |                       |   |
|--|--------------------|--------------------------|--|--|--------------------|-----------------------|---|
| P-2WQ 6760A                                | 05-04-68 *68-17597 | GAEC P.O. 5-68878        | DESIGN FEASIBILITY TEST PROCEDURE FOR CLOSURE TO LOWER TANK WELDMENT FOR AIRITE P/N 6760 TANK ASSEMBLIES             | 4P-6499-7                                  | 00-00-67 *68-17622 | P.O. M6J3XAA-600008A  | MONTHLY PROGRESS REPORT JAN THRU JUNE 1967 TANK HELIUM PART NUMBER 6499-7   |
| P-3T 6760                                  | 14-02-68 *68-18307 | GAEC P.O. 5-68878        | QUALIFICATION ENVIRONMENTAL TEST REQUIREMENTS FOR THE 6760-3 PROPELLANT TANK ASSEMBLY                                | 4WQ 6760-1                                 | 09-05-68 *68-18364 | GAEC P.O. 5-68878     | WELD QUALIFICATION REPORT WELD AND WELD REPAIR QUALIFICATION FOR THE CAP-TO-SCREEN ELECTRON BEAM WELDMENT ON THE ZERO G CAN + ADD 1 |
| P-3WQ 6760A                                | 05-04-68 *68-17598 | GAEC P.O. 5-68878        | DESIGN FEASIBILITY TEST PROCEDURE FOR G-1 AND G-2 GIRTH WELDMENTS AIRITE P/N 6760 TANK ASSEMBLIES                    | 4WQ 6760-2                                 | 09-05-68 *68-18512 | GAEC P.O. 5-68878     | WELD QUALIFICATION FOR THE CAP-TO-CYLINDER ELECTRON BEAM WELDMENT ON THE ZERO G CAN AND ADDENDUM 1                                  |
| P-4T 6760A                                 | 20-03-68 *68-18358 | GAEC P.O. 5-68878        | DESIGN VERIFICATION REQUIREMENTS FOR THE 6760-321 TUBE TRANSITION  | 47093                                      | 25-07-66 *68-17852 | GAEC P.O. 2-24498     | QUAL DESIGN LIMIT TESTS ON 12 INCH OXYGEN STORAGE ASCENT TANK   |
| P-4WQ 6760A                                | 29-03-68 *68-17600 | GAEC P.O. 5-68878        | DESIGN FEASIBILITY TEST PROCEDURE FOR THE ZERO G CAN-EB WELDMENTS FOR AIRITE P/N 6760 TANK COMPONENTS                | 47713                                      | 21-12-66 *68-17851 | GAEC P.O. 2-24498     | QUAL DESIGN LIMIT TESTS ON 15 INCH HELIUM STORAGE ASCENT TANK   |
| P-5WQ 6760B                                | 20-05-68 *68-17599 | GAEC P.O. 5-68878        | DESIGN FEASIBILITY TEST PROCEDURES, TUBE WELDMENTS, FOR AIRITE P/N 6760 TANK ASSEMBLIES                              | 5MQ 6760                                   | 04-04-68 *68-18514 | GAEC P.O. 5-68878     | METALLURGICAL REPORT MATERIAL QUALIFICATION FOR P/N 6760-43 TI-6AL-4V FORGING BILLET STOCK (TMCA HEAT NUMBER G-7762)                |
| P-6T 6760A                                 | 30-03-68 *68-18365 | GAEC P.O. 5-68878        | DESIGN FEASIBILITY REQUIREMENTS FOR THE 6760 G CAN   | 7MQ 6760                                   | 05-04-68 *68-18599 | GAEC P.O. 5-68878     | METALLURGICAL REPORT MATERIAL QUALIFICATION FOR P/N 6760-43 TI-6AL-4V FORGING BILLET STOCK (TMCA HEAT NUMBER G-7828)                |
| 1TP-002                                    | 03-01-67 *68-18250 | NONE                     | IDENTIFICATION AND TRACEABILITY PROCEDURE FOR GAEC   | 9MQ 6760                                   | 08-04-68 *68-18598 | GAEC P.O. 5-68878     | METALLURGICAL REPORT MATERIAL QUALIFICATION FOR P/N 6760-43 TI-6AL-4V FORGING BILLET STOCK (TMCA HEAT NUMBER G-7829)                |
| 12P-6438 TO 13P-6438                       | 00-00-66 *68-17624 | NAA P.O. M6J3XAA-500006A | MONTHLY PROGRESS REPORTS FOR JULY THRU AUGUST 1966-TANK, HELIUM, PART NUMBER 6438-101                                | 9P-6499-7                                  | 00-00-67 *68-17622 | P.O. M6J3XAA-600008A  | MONTHLY PROGRESS REPORT JAN THRU JUNE 1967 TANK HELIUM PART NUMBER 6499-7   |
| 18P-6438                                   | 23-02-67 *68-17621 | NAA P.O. M6J3XAA-600006A | MONTHLY PROGRESS REPORT FOR PERIOD ENDING JANUARY 31, 1967-TANK, HELIUM P/N 6438-101                                 | NONE                                       | 00-08-66 *68-18648 | GAEC P.O. 2-74655     | TANK, HELIUM STORAGE, RCS, P/N 6499-5, SERIAL NUMBER 0003 (QUALIFICATION UNIT)  |
| 20P-6438 TO 24P-6438                       | 00-00-67 *68-17623 | NAA P.O. M6J3XAA-600006A | MONTHLY PROGRESS REPORTS FOR MARCH THRU JULY 1967-TANK, HELIUM, P/N 6438-101   | NONE                                       | 00-07-66 *68-18647 | GAEC P.O. 2-74655     | TANK, HELIUM STORAGE, RCS, P/N 6499-5, SERIAL NUMBER 0004 (BURST UNIT)  |
| 26P-6576                                   | 00-10-67 *68-17629 | GAEC P.O. 3-50017        | MONTHLY PROGRESS AND STATUS REPORT, PERIOD SEPT 1967, TANKS, STCR, GOX, FCS, P/N 6576-1 AND P/N 6577-1               | NONE                                       | 22-11-67 *68-18646 | GAEC P.O. 2-24498     | TANK, HELIUM STORAGE, ASCENT PROPULSION, P/N 6529-1, S/N 0036   |
| 27P-6529                                   | 11-10-67 *68-17628 | P.O. 2-24498             | MONTHLY PROGRESS AND STATUS REPORT, PERIOD SEPT 1967, TANK, HE, STOR, ASCENT PROPULSION, P/N 6529                    | NONE                                       | 26-09-66 *68-17921 | GAEC P.O. 2-24498     | TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0024   |
| 28P-6529                                   | 07-11-67 *68-17630 | P.O. 2-24498             | MONTHLY PROGRESS AND STATUS REPORT, PERIOD OCT 1967, TANK, HE, STOR, ASCENT, ASCENT PROPULSION, P/N 6529             | NONE                                       | 10-10-66 *68-17880 | GAEC P.O. NO. 3-50017 | TANK, STORAGE, GAS/EUSS OXYGEN-ASCENT, S/N 0020, GAEC PART NO LSC 330-318-1   |
| 4MQ 6760                                   | 23-02-68 *68-18366 | GAEC P.O. 5-68878        | METALLURGICAL REPORT MATERIAL QUALIFICATION FOR P/N 6760-43 TI-6AL-4V FORGING BILLET STOCK (TMCA HEAT NUMBER G-7759) | NONE                                       | 25-05-67 *58-18000 | GAEC P.O. 2-24498     | TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0042   |

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① Contractor report number AP-M-2436  
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 ④ Contract number NAS9-497  
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| SARGENT INDUSTRIES/AIRITE DIV. - Continued |  | SARGENT INDUSTRIES/AIRITE DIV. - Continued |   |
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| NONE                                       | 21-04-56 *68-17883 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0004                              | NONE                                       | 24-01-67 *68-18542 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, P/N 6577-1, SERIAL NUMBER 0008<br>(ENDURANCE TEST UNIT)            |
| NONE                                       | 30-09-66 *68-17912 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, S/N 0016  | NONE                                       | 22-11-66 *68-18543 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, P/N 6577-1, SERIAL NUMBER 0006<br>(DESIGN FEASIBILITY UNIT)        |
| NONE                                       | 27-08-66 *68-17867 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0010, GAEC PART NO.<br>LSC 270-825-1 | NONE                                       | 13-12-66 *68-18544 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, P/N 6577-1, SERIAL NUMBER 0007<br>(DESIGN LIMIT TEST UNIT)         |
| NONE                                       | 18-04-66 *68-17996 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0005                                  | NONE                                       | 00-00-67 *68-18545 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, P/N 6576-1, SERIAL NUMBER 0014<br>(DESIGN LIMIT QUALIFICATION UNIT) |
| NONE                                       | 11-07-66 *68-17866 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0003, GAEC PART NO<br>LSC 270-825-1  | NONE                                       | 00-00-57 *68-18546 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, P/N 6576-1, SERIAL NUMBER 0015<br>(ENDURANCE QUALIFICATION UNIT)    |
| NONE                                       | 25-04-66 *68-17873 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0018                                  | NONE                                       | 17-03-67 *68-17875 GAEC P.O. NO. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, S/N 0020, GAEC PART NO<br>LSC 330-319-1-1                      |
| NONE                                       | 15-07-66 *68-17864 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN ASCENT, S/N 0016                                     | NONE                                       | 31-10-66 *68-17887 GAEC P.O. NO. 2-74655<br>TANK, HELIUM STORAGE, RCS, S/N 0023   |
| NONE                                       | 08-01-68 *68-18225 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS TANK, SERIAL NUMBER 0034                                 | NONE                                       | 25-05-67 *68-17859 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0041   |
| NONE                                       | 13-01-66 *68-17871 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0009                                 | NONE                                       | 10-10-66 *68-17879 GAEC P.O. NO. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, S/N 0019  |
| NONE                                       | 17-03-67 *68-18002 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0022                                  | NONE                                       | 09-09-66 *68-17870 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0006, GAEC PART NO.<br>LSC 270-825-1                        |
| NONE                                       | 00-00-67 *68-1853R GAEC P.O. 3-50017<br>(DESIGN VERIFICATION TEST UNIT)  | NONE                                       | 07-12-67 *68-18247 GAEC P.O. 2-24462-C<br>FLOW CHART, LEM FUEL TANK ASSEMBLY FABRICATION SEQUENCE, BELL ASSY NO<br>330-471101-9, ASSY S/N 1 AND 2 |
| NONE                                       | 00-00-67 *68-18540 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, P/N 6576-1, SERIAL NUMBER 0001               | NONE                                       | 19-04-66 *68-18003 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0011   |
| NONE                                       | 00-00-66 *68-18541 GAEC P.O. 3-50017<br>(DESIGN FEASIBILITY UNIT)  | NONE                                       | 26-06-67 *68-17878 GAEC P.O. NO. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, S/N 0009   |

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| NONE                                       | 29-06-66 *68-17893 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0009   |  | NONE                                       | 30-03-67 *68-17922 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0038                                    |  |
| NONE                                       | 15-07-66 *68-17876 GAEC P.O. NO. 3-50017<br>TANK,STORAGE,GASEOUS OXYGEN-ASCENT,S/N 0017,GAEC PART NO LSC 330-318-1?                          |  | NONE                                       | 00-08-66 *68-18224 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION, P/N 6668-1, SPECIFICATIONS AND PROCEDURES |  |
| NONE                                       | 07-12-67 *68-18253 GAEC P.O. 2-24462-C<br>FLOW CHART LFM OXIDIZER TANK ASSEMBLY FABRICATION SEQUENCE,BELL ASSY NO 8339-471102-7,ASSY S/N 999 |  | NONE                                       | 25-05-67 *68-17999 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0043                                    |  |
| NONE                                       | 26-05-67 *68-17923 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0040   |  | NONE                                       | 03-02-68 *68-17916 GAEC P.O. 3-50017<br>TANK,STORAGE,GASEOUS OXYGEN-DESCENT,S/N 0024                                      |  |
| NONE                                       | 20-01-68 *68-17911 GAEC P.O. 2-74655<br>TANK,HELIUM STORAGE,RCS,S/N 0004,P/N 6499-1  |  | NONE                                       | 25-05-67 *68-17997 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0045                                    |  |
| NONE                                       | 30-09-66 *68-17882 GAEC P.O. NO. 2-74655<br>TANK,HELIUM STORAGE,RCS,S/N 0018,GAEC PART NO LSC 310-301-03                                     |  | NONE                                       | 30-03-67 *68-17907 GAEC P.O. NO. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0035                                |  |
| NONE                                       | 09-08-66 *68-17908 GAEC P.O. NO. 4-41973<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0007  |  | NONE                                       | 27-02-67 *68-17898 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0017,GAEC PART NO LSC 270-825-1        |  |
| NONE                                       | 19-10-66 *68-17872 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0011,GAEC PART NO. LSC 270-825-1                          |  | NONE                                       | 09-09-67 *68-17909 GAEC P.O. NO. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0008                               |  |
| NONE                                       | 23-11-65 *68-17890 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0008   |  | NONE                                       | 30-06-67 *68-17901 GAEC P.O. NO. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0046                                |  |
| NONE                                       | 07-12-67 *68-18252 GAEC P.O. 2-24462-C<br>FLOW CHART LFM OXIDIZER TANK ASSEMBLY FABRICATION SEQUENCE,BELL ASSY NO 8339-471102-9,ASSY S/N 2   |  | NONE                                       | 25-07-66 *68-17869 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0005,GAEC PART NO. LSC 270-825-1       |  |
| NONE                                       | 16-08-66 *68-17894 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0021   |  | NONE                                       | 30-12-65 *68-17915 GAEC P.O. 3-50017<br>TANK,STORAGE,GASEOUS OXYGEN-ASCENT,S/N 003  |  |
| NONE                                       | 26-07-65 *68-17881 GAEC P.O. NO. 3-50017<br>TANK,STORAGE,GASEOUS OXYGEN-ASCENT,S/N 0018,GAEC LSC 330-318-1                                   |  | NONE                                       | 27-02-67 *68-17897 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0016 GAEC PART NO. LSC 270-825-1       |  |
| NONE                                       | 28-04-66 *68-17919 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0015   |  | NONE                                       | 31-10-66 *68-17892 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0026                                    |  |
| NONE                                       | 17-10-66 *68-17900 GAEC P.O. 4-41873<br>TANK,HELIUM STORAGE,DESCENT PROPULSION,S/N 0013  |  | NONE                                       | 22-02-57 *68-17885 GAEC P.O. NO. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0030                                |  |
| NONE                                       | 30-09-66 *68-17914 GAEC P.O. 2-74655<br>TANK,HELIUM STORAGE,RCS,S/N 0022   |  | NONE                                       | 30-09-66 *68-18583 GAEC P.O. 2-74655<br>TANK,HELIUM STORAGE,RCS,P/N 6439-5,S/N 0020 AND 002,ACCP DATA                     |  |
| NONE                                       | 03-03-66 *68-18004 GAEC P.O. 2-24498<br>TANK,HELIUM STORAGE,ASCENT PROPULSION,S/N 0012   |  | NONE                                       | 00-06-67 *68-18584 GAEC P.O. 2-74655<br>TANK,HELIUM STORAGE,RCS,P/N 6439-5,S/N 0012 THRU 0014,ACCP DATA                   |  |

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| NONE                                       | 28-03-65 *68-18585 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, P/N 6499-5, S/N 0005  | NONE                                       | 30-06-57 *68-17858 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0047   |
| NONE                                       | 00-00-66 *68-18586 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, P/N 6499-5, S/N 0007 THRU 0010, ACCPT DATA                          | NONE                                       | 30-09-66 *68-17913 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, S/N 0017   |
| NONE                                       | 00-00-67 *68-18587 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, P/N 6499-5, S/N 0024 THRU 0027, ACCPT DATA                          | NONE                                       | 26-08-66 *68-17902 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0020, GAEC PART NO LSC 270-711-1         |
| NONE                                       | 23-11-65 *68-17886 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0006, GAEC PART NO LSC 270-711-1              | NONE                                       | 18-05-67 *68-18600 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, P/N 6577-1, S/N 0017                               |
| NONE                                       | 31-03-67 *68-18589 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, P/N 6499-5, S/N 0029 THRU 0032, ACCPT DATA                          | NONE                                       | 00-00-67 *68-18601 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, P/N 6577-1, S/N 0015                               |
| NONE                                       | 00-00-67 *68-18590 GAEC P.O. 3-50017<br>TANK, STOR, GOX-ASCENT, P/N 6576-1, S/N 0005 AND 0006, ACCPT DATA                              | NONE                                       | 00-08-67 *68-18076 GAEC P.O. 3-50017<br>SPECIFICATIONS AND PROCEDURES-TANKS, STORAGE, GOX, DESCENT (ECS), P/N 6577-1              |
| NONE                                       | 30-06-67 *68-18591 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, P/N 6499-5, S/N 0035 THRU 0043, ACCPT DATA                          | NONE                                       | 02-02-67 *68-17884 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0033                                     |
| NONE                                       | 00-00-67 *68-18592 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, P/N 6576-1, SERIAL NUMBER 0021 THRU 0032 ACCEPTANCE DATA | NONE                                       | 18-11-66 *68-17895 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0014  |
| NONE                                       | 00-00-67 *68-18593 GAEC P.O. 3-50017<br>TANK, STOR, GOX-ASCENT, P/N 6576-1, S/N 0033 THRU 0045, ACCPT DATA                             | NONE                                       | 00-00-67 *68-18223 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-ASCENT, (VENDOR P/N 6576-1)<br>SPECIFICATION AND PROCEDURES |
| NONE                                       | 23-11-65 *68-17903 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0007  | NONE                                       | 26-03-66 *68-18050 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS (VENDOR P/N 6499-5) (SPECIFICATIONS AND<br>PROCEDURES)          |
| NONE                                       | 15-07-66 *68-17865 GAEC P.O. 3-50017<br>TANK, STORAGE, GASEOUS OXYGEN-DESCENT, S/N 0001  | NONE                                       | 30-09-66 *68-17877 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, S/N 0015, GAEC PART NO LSC 310-301-3                           |
| NONE                                       | 30-03-67 *68-17924 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0039  | NONE                                       | 22-09-67 *68-17874 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0037, GAEC PART NO LSC 270-711-1             |
| NONE                                       | 31-10-66 *68-17917 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0028  | NONE                                       | 26-05-67 *68-17998 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0044   |

| SARGENT INDUSTRIES/AIRITE DIV. - Continued |  |                               |   |
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| SARGENT INDUSTRIES/AIRITE DIV. - Continued |  |                               |   |
| NONE                                       | 11-07-56 *68-17868 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0001, GAEC PART NO. LSC 270-825-1      | NONE                          | 00-04-56 *68-17632 GAEC P.O. 3-50017<br>TANK, STORAGE GASEOUS OXYGEN DESCENT/ECS AIRITE P/N 6577-1  |
| NONE                                       | 27-02-57 *68-17989 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0020, GAEC PART NO. LSC 270-825-1      | NONE                          | 00-09-67 *68-17610 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE ASCENT PROPULSION (AIRITE P/N 6529-1)  |
| NONE                                       | 31-10-66 *68-17891 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0027                                    | NONE                          | 18-12-57 *68-17620 GAEC P.O. 2-24498<br>FORGINGS 6E29-1 AND 6530-1 HELIUM STORAGE TANK SPECS AND PROCEDURES   |
| NONE                                       | 20-01-69 *68-17910 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE, RCS, S/N 0003, P/N 6499-1                                      | NONE                          | 00-07-66 *68-17633 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE DESCENT PROPULSION AIRITE P/N 6668-1   |
| NONE                                       | 22-11-67 *68-17919 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0031                                    | NONE                          | 00-12-65 *68-17631 GAEC P.O. 3-50017<br>ENVIRONMENTAL CONTROL SYSTEM-END ITEM TANKS STORAGE GOX LEM GASEOUS OXYGEN TANKS (ECS) PRESSURE VESSEL AIRITE P/N 6576-1 SERIAL NO 1-37 |
| NONE                                       | 22-02-57 *68-17905 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0034                                    | <b>SIERRA ENGINEERING CO.</b> |   |
| NONE                                       | 22-02-67 *68-17906 GAEC P.O. NO. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0032                                | 651-950                       | 16-02-68 *68-17718 NAS9-7513<br>DOCUMENTATION LIST-EMERGENCY OXYGEN MASK ASSEMBLY-1-A-1   |
| NONE                                       | 00-00-66 *68-17904 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0017, GAEC PART NO LSC 270-711-1        | 651-951 REV 1                 | 10-04-68 *68-17721 NAS9-7513<br>MASTER END ITEM/CONTRACT END ITEM SPECIFICATION PRODUCT CONFIGURATION REQUIREMENTS-EMER OXYGEN MASK ASSY (REV 1)                                |
| NONE                                       | 31-03-57 *68-17899 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0019, GAEC PART NO LSC 270-825-1       | 651-952                       | 16-02-68 *68-17719 NAS9-7513<br>DRAWING AND SPECIFICATION LIST EMERGENCY OXYGEN MASK ASSEMBLY-1-A-1   |
| NONE                                       | 27-02-57 *68-17896 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0015, GAEC PART NO LSC 270-825-1       | 651-953                       | 16-02-58 *68-17720 NAS9-7513<br>INDENTURED PARTS LIST EMERGENCY OXYGEN MASK ASSEMBLY-1-A-1  |
| NONE                                       | 30-06-57 *68-17861 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0048                                    | 651-954-03                    | 06-03-68 *68-18379 NAS9-7513<br>MONTHLY PROGRESS REPORT JANUARY/FEBRUARY 1968,EMERGENCY OXYGEN MASK ASSEMBLY1-A-1 FOR NATIONAL AERO AND SPACE ADMIN APOLLO PROGRAM              |
| NONE                                       | 26-09-56 *68-17920 GAEC P.O. 2-24498<br>TANK, HELIUM STORAGE, ASCENT PROPULSION, S/N 0023                                    | 651-967                       | 16-02-68 *68-17724 NAS9-7513<br>QUALITY INSPECTION PLAN-EMERGENCY OXYGEN MASK ASSEMBLY-1-A-1  |
| NONE                                       | 27-02-57 *68-17888 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, S/N 0018                                   | 651-959 CHG 11                | 08-04-68 *68-17722 NAS9-7513<br>END ITEM TEST PLAN / TEST + INSPECTION PROCEDURES FOR PREDELIVERY ACCEPTANCE FOR EMERGENCY OXYGEN MASK ASSEMBLY (CHG 11)                        |
| NONE                                       | 31-05-66 *68-18075 GAEC P.O. 4-41873<br>TANK, HELIUM STORAGE, DESCENT PROPULSION, P/N 6568-1 (SPECIFICATIONS AND PROCEDURES) | 651-973 CHG 1                 | 08-04-68 *68-17723 NAS9-7513<br>CLEANING, PRESERVATION, PACKAGING, HANDLING, STORAGE AND SHIPPING PROCEDURES FOR EMER OXYGEN MASK ASSY (CHANGE 1)                               |
| NONE                                       | 20-06-67 *68-17613 GAEC P.O. 2-74655<br>TANK, HELIUM STORAGE RCS   |                               |   |

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| SIMMONDS PRECISION PRODUCTS, INC.    |   | SOUTH WIND DIV./STEWART-WARNER CORP. - Continued   |
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| NO 36                                | 20-09-66 *68-1R376 NAA P.O. M4J3XAA-46036A<br>NAA APOLLO PROGRAM,BLOCKS 1 AND 2,MONTHLY REPORT NO 36 COVERING AUGUST,1966   | 103-20 00-10-67 *68-1R745 GAEC P.O. 3-52522<br>END ITEM NARRATIVE REPORTS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 122,123                                     |
| NO 47 THRU 49                        | 00-00-67 *68-1P356 NAA P.O. M5J7XA-450038<br>MONTHLY PROGRESS REPORTS-NAA APOLLO PROGRAM,BLOCK 2,JULY THRU SEPTEMBER 1967   | 103-20 00-00-69 *68-1R746 GAEC P.O. 3-52522<br>END ITEM NARRATIVE REPORTS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 129,130                                     |
| 45                                   | 00-00-67 *68-16394 NAA/SID P.O. M4J3XAA-46036A<br>NAA APOLLO PROGRAM BLOCK 2 MONTHLY REPCRTS NO. 45 AND NO. 46 COVERING MAY AND JUNE, 1967                                  | 1745 12-06-67 *68-1R752 GAEC P.O. 3-52522<br>MODEL R470-K FUEL TO HELIUM HEAT EXCHANGER BURST TEST SUBSEQUENT TO POST-QUALIFICATION TESTING ON S/N 114                                 |
| 46                                   | 00-00-67 *68-16394 NAA/SID P.O. M4J3XAA-46036A<br>NAA APOLLO PROGRAM BLOCK 2 MONTHLY REPORTS NO. 45 AND NO. 46 COVERING MAY AND JUNE, 1967                                  |  |
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| TP 42411 REV B                       | 17-01-68 *68-1R709 GAEC P.O. 3-52522<br>DESIGN-CONTROL TESTS ON HEAT EXCHANGER,FUEL/HELUM,LEM DESCENT PROPUL IN ACCORDANCE WITH GRUMMAN SPEC LSP-270-820B DATED 1 SEPT 1966 | 103447 07-07-65 *68-16362 NAS9-4022<br>QUALIFICATION TEST PROCEDURE FOR APOLLO BIOINSTRUMENTATION SYSTEM   |
| 103-11                               | 22-09-67 *68-1R753 GAEC P.O. 3-52522<br>DRAWING NUMBERING TRFF (FOR 8470L) EFFECTIVE SERIAL NO 122  | 104331 15-04-66 *68-16358 NAS9-4022<br>QUALIFICATION TEST REPORT FOR APOLLO BIOMEDICAL INSTRUMENTATION SYS.  |
| 103-15                               | 00-10-67 *68-1R744 GAEC P.O. 3-52522<br>ACCEPTANCE TEST DATA SHEETS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 122,123                                | PR-6336 00-07-67 *68-16926 GAEC P.O. 5-18607C<br>JULY 1967 PROG RPT,PRESS CARTRIDGE ASSY,P/N 1-10527-14(LSC 320-319-1)<br>AND EXPLO CARTRIDGE ADAPTER (LSC 320-320-1)                  |
| 103-15                               | 00-00-69 *68-1R743 GAEC P.O. 3-52522<br>ACCEPTANCE TEST DATA SHEETS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 129,130                                | PR-6345 00-08-67 *68-16667 GAEC P.O. 5-18607C<br>AUGUST 1967 PROGRESS REPORT,PRESSURE CARTRIDGE ASSY. P/N 1-10527-14<br>(LSC 320-319-1) AND EXPLOSIVE CARTRIDGE ADAPTER P/N 1-10527-13 |
| 103-18- 5 REV H                      | 03-05-68 *68-1R750 GAEC P.O. 3-52522<br>END ITEM ACCEPTANCE TEST PROCEDURE FOR THE FUEL/HELUM HEAT EXCHANGER,LEM DESCENT PROPULSION SYSTEM,S-W MODEL 8470 PROD UNITS        | QC 800 31-01-67 *68-18612 NONE<br>QUALITY CONTROL PLAN (SPACE ORDNANCE SYSTEMS)  |
| 103-18-10- 1                         | 00-10-67 *68-1R742 GAEC P.O. 3-52522<br>END ITEM CLEANING ANALYSIS REPORTS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 122,123                         | TP 6369 21-02-68 *68-1R613 GAEC P.O. 5-50782<br>TEST PROCEDURE FOR LOT ACCEPTANCE TESTING OF SIMULATOR SET,P/N S022-110729-11  |
| 103-18-10-1                          | 00-00-69 *68-1R741 GAEC P.O. 3-52522<br>END ITEM CLEANING ANALYSIS REPORTS,HEAT EXCHANGER,FUEL/HELUM,DESCENT PROPULSION,P/N 8470L,SERIAL NO 129,130                         | TP6400 REV A 05-03-69 *68-1R552 GAEC P.O. 5-50782<br>TEST PROCEDURE FOR ELECTRO-MAGNETIC INTERFERENCE OF SIMULATOR,P/N S022-110729-11  |
| 103-18-20 REV A                      | 23-01-68 *68-1R751 GAEC P.O. 3-52522<br>QUALIFICATION TEST PROCEDURE,FUEL/HELUM HEAT EXCHANGER UTILIZING A GOLD-NICKEL BRAZE ALLOY,LEM DESCENT PROPULSION SYSTEM            | 6245 17-07-67 *68-16565 NONE<br>TEST PROCEDURE FOR QUALIFICATION TESTING OF PRESSURE CARTRIDGE ASSEMBLY,P/N S01-10527-14   |
|                                      |   | 6246 10-10-67 *68-17004 GAEC P.O. 5-18607C<br>QUALIFICATION TEST REPORT-PRESSURE CARTRIDGE ASSEMBLY  |

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| SPERRY GYROSCOPE CO. (GREAT NECK, N.Y.)  |  | STERER ENGINEERING AND MANUFACTURING CO.                                     |   |
| NO. 50<br>PR 64<br>PR-NO. 63<br>P.R. NOS. 60 61<br>SS-R220-0111<br>NONE            | 01-09-57 *68-16560 NAS9-455 NAS9-2847<br>APOLLO 16 PIP MODEL D PRODUCTION PROGRAM PROGRESS REPORT<br>04-04-68 *68-18649 NAS9-2847-NAS9-455<br>APOLLO 16 PIP MODEL D, PRODUCTION PROGRAM, PERIOD FOR 1 MARCH TO 31<br>MARCH 1968<br>02-01-68 *68-17139 NAS9-2847 NAS9-455<br>APOLLO 16 PIP MODEL D PRODUCTION PROGRAM (PROGRESS REPORT NO. 63)<br>00-11-67 *68-17322 NAS9-2847 NAS9-445<br>APOLLO 16 PIP MODEL D PRODUCTION-PROGRESS REPORT NUMBERS 60-51-OCT<br>1, 1967-NOV 1, 1967<br>00-03-57 *68-16830 NAS9-455<br>APOLLO 16 PIP RELIABILITY TEST PROGRAM-PART 2 FINAL REPORT, LIFE TEST<br>PROGRAM<br>02-02-68 *68-17591 NAS9-2847<br>APOLLO 16 PIP MODEL D PRODUCTION PROGRAM PROGRESS REPORT NO. 64  | ATP-32170, REV H<br>CFATP-27140, REV C<br>DVTP-27140-5-10<br>QTR-27140       | 22-05-57 *68-18624 GAEC P.O. NONE<br>ACCEPTANCE TEST PROCEDURE, HELIUM PRESSURE REDUCING VALVE P/N 32170 +<br>32170-1<br>05-07-67 *68-18625 GAEC P.O. NONE<br>COLD FLOW ACCEPTANCE TEST PROCEDURE, VALVE-HELIUM, PRESSURE REDUCING,<br>P/N 27140<br>11-08-57 *68-18626 GAEC P.O. NONE<br>DESIGN VERIFICATION TEST PROCEDURE VALVE, HELIUM PRESSURE REDUCING,<br>ASCENT PROPULSION, P/N 27140-5-10 AND 27140-7-10<br>21-07-67 *68-18622 GAEC P.O. NONE<br>QUALIFICATION TEST REPORT VALVE, HELIUM PRESSURE REDUCING, ASCENT<br>PROPULSION, P/N 27140-5-9 AND 27140-7-9   |
| STAINLESS STEEL PRODUCTS   |  | SYLVANIA/ELECTRONICS SYSTEMS-EAST  |   |
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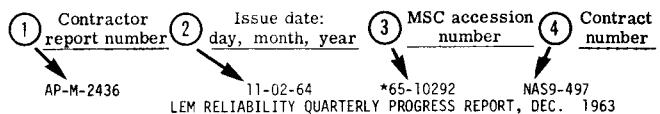
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| NONE  | 21-12-67 *68-18041 GAEC P.O. 4-94460<br>END ITEM TEST PLAN-PUSH TO TALK SWITCH  | E-03M-001F    20-10-67 *68-18135 GAEC P.O. 2-18843-C<br>MEASUREMENTS REFERENCE DIMENSION  |
| NONE  | 21-12-67 *68-18035 GAEC P.O. 4-94460<br>END ITEM TEST PLAN, SWITCHES, TOGGLE, DISPLAY SUBSYSTEM   | E-03P SERIES    00-00-67 *68-18142 GAEC P.O. 2-18843-C<br>LM DESCENT ENGINE, OPERATING PROCEDURES, (CURRENT FILE)                     |
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