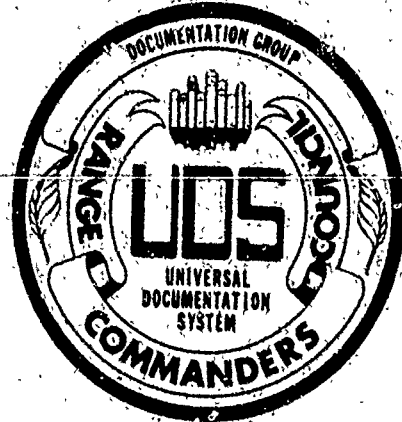


13

DG-501-84-SUPPL
DOCUMENT 501-84

AD-4141 850

UNIVERSAL DOCUMENTATION SYSTEM
HANDBOOK



SUPPLEMENT 2

PROCEDURES
FOR THE
ELECTRONIC PROCESSING
OF
LEVEL 1, 2, AND 3 TEST REQUIREMENTS
AND SUPPORT INFORMATION

DTIC
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JUN 04 1984
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DOCUMENTATION GROUP
RANGE COMMANDERS COUNCIL

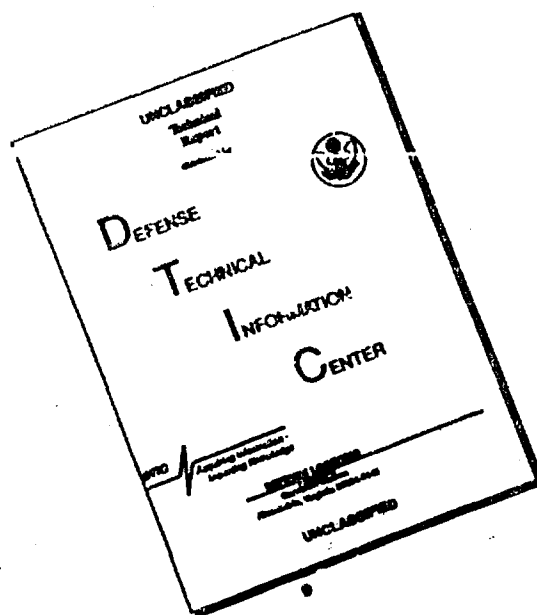
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| 1. REPORT NUMBER Document 501-84 | 2. GOVT ACCESSION NO. ADA 141 850 | 3. RECIPIENT'S CATALOG NUMBER |
| 4. TITLE (and Subtitle) Universal Documentation System Handbook, Supplement 2, Procedures for the Electronic Processing of Level 1, 2, and 3 Test Requirements and Support Information | | 5. TYPE OF REPORT & PERIOD COVERED |
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| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) PI/SC formats, PRD/OR and PSP/OD Formats, Universal Documentation System (UDS) horizontal forms, vertical forms, electronic transmission, electronic process- ing, typewriters, optical character recognition readers, word processors, high-speed computers, high-speed printers, technical requirements, support information, master record storage, test coding, electronic sorting, automatic data entry expansion capability | | |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) N/A | | |

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DOCUMENT 501-84

UNIVERSAL DOCUMENTATION SYSTEM
HANDBOOK

SUPPLEMENT 2



FOR THE
ELECTRONIC PROCESSING
OF
LEVEL 1, 2, AND 3 TEST REQUIREMENTS
AND SUPPORT INFORMATION

Prepared by
Documentation Group
Range Commanders Council

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STEWS-SA-R
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New Mexico 88002-5503



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1.0 INTRODUCTION

This supplement describes the procedures for converting the Universal Documentation System (UDS) horizontal forms to a vertical format more conducive to electronic transmission. This system may be used in conjunction with UDS documents using standard UDS forms or in place of the standard format when automation or electronic processing of UDS documents is desired. The Universal Documentation System Handbook, Document 501-79, Volumes 1, 2, and 3, dated 11-79,^V should be used for detailed instructions.

(AD-108901)
These procedures do not address the electronic transmission of classified information.

These procedures were approved by the Documentation Group (DG) of the Range Commanders Council for electronic processing of the Universal Documentation System.

Any corrections, changes, or recommendations should be presented to the Documentation Group at the following address:

Documentation Group
c/o Secretariat
Range Commanders Council
STEWS-SA-R
White Sands Missile Range, New Mexico 88002-5503

1.1 PURPOSE

The purpose of these procedures is to provide a standard vertical format for manual or electronic processing of the UDS forms which will be compatible with typewriters, optical character recognition readers, word processors, high-speed computers, and high-speed printers.

1.2 BACKGROUND

The requirement for electronic transmission and processing of technical requirements and support information has continued to increase yearly due to the need for fast turnaround of requirements. As a result, the manual process is too slow and difficult to use to meet time schedules. The increasing use of traditional missile ranges by aircraft and other nonlaunch programs, along with the increased launch rates and payload carrying capability of some programs, make heavy demands upon existing manual documentation systems. The flexibility to accommodate quickly changing requirements is needed by these programs. An 8-1/2 by 11-inch format was selected which maintains compatibility with the standard forms and instructions contained in the UDS Handbook. The format is designed to permit support by low cost computer systems, word processors, "old" computer peripheral equipment, "old" telecommunications equipment, and conventional office typewriters. The primary consideration for specifying an automated UDS page format is to allow for the use of electronic processing equipment and electronic communications equipment for expediting the processing of UDS documents, reducing reproduction and distribution time for document transactions between users or support organizations,

and easy access to master record storage. Other features include test coding of information, electronic sorting, and automatic data entry expansion capability.

1.3 **FORMAT DESCRIPTION**

The automated page uses a vertical page format with a 72-column by 60-line character area printed on 8-1/2 by 11-inch paper or displayed on an 80-column CRT. Each page will contain a standard header and paragraph style blocks of text listing each UDS field label found on the respective page of the UDS Handbook.

The sample UDS formats (appendixes A and B) and format specifications/load instructions (sections 2.0 and 3.0) in this supplement are based on word processor or data entry by computer program with a 10-pitch type and print capability.

UDS forms containing graphs, charts, maps, photos, etc., which are not readily adaptable to existing electronic storage and transmission equipment, are not covered in this supplement at this time. This information must be transmitted by other means when necessary.

2.0 UDS LEVEL 1 DOCUMENTS

The following automated format specifications and load instructions are applicable to PI and SC documents.

2.1 PAGE DISPLAY

The text space for a page will be a 72-column by 60-line area. This area may be printed on 8-1/2 by 11-inch paper in either 10 or 12 characters-per-inch pitch or displayed on an 80-column CRT. When printed on 8-1/2 by 11-inch paper with 10 pitch at 6 lines per inch, a top and bottom margin of 1/2 inch and a left margin of 3/4 inch (8 blank spaces) is recommended. If 12-pitch print is used, the left-right margin space is larger since only 72 columns may be printed.

2.2 LINE-COLUMN FORMAT - PI

| <u>Line</u> | <u>Columns</u> | <u>Contents</u> |
|-------------|---|---|
| 1 | 1-17 18-33 34-48 49-72 | Blank "Classification: " Classification, upper case Blank |
| 2 | 1-13 14-16 17-44 45-51 52-70 71-72 | "Revision No. " Revision No., left adjusted Blank "PI No. " PI No., left adjusted Blank |
| 3 | 1-14 15-44 45-52 53 54-70 71-72 | "Revision Date" Revision Date, left adjusted "PI Date" Blank PI Date, left adjusted Blank |
| 4 | 1-70 71-72 | Equal Signs Blank |
| 5-57 | 1-70 | Content of this space is the same as specified in Volume 1 of the UDS Handbook; see Appendix A for an example of each form. |
| | 71 72 | Blank "R" or blank, "R" will indicate lines changed in the current revision. |

2.2 **LINE-COLUMN FORMAT (Con.)**

| <u>Line</u> | <u>Columns</u> | <u>Contents</u> (con.) |
|-------------|----------------|--|
| 58 | 1-72 | Blank or dash line (minus signs) if end of section |
| 59 | 1-9 | "Ref UDS R" (Form No.) |
| | 10-19 | UDS Form No. Referenced, right adjusted |
| | 20-59 | Blank |
| | 60-67 | "PI Page" |
| | 68-70 | Page No., right adjusted |
| | 71-72 | Blank |
| 60 | 1-17 | Blank or Form Revision Date, left adjusted |
| | 18-33 | "Classification: " |
| | 34-48 | Classification, upper case |
| | 49-72 | Blank |

2.3 **LINE-COLUMN FORMAT - SC**

| <u>Line</u> | <u>Columns</u> | <u>Contents</u> |
|-------------|----------------|---------------------------------|
| 1 | 1-17 | Blank |
| | 18-33 | "Classification: " |
| | 34-48 | Classification, upper case |
| | 49-72 | Blank |
| 2 | 1-12 | "Revision No." |
| | 13-16 | Revision No. |
| | 17-36 | Blank |
| | 37-51 | "Answers PI No. " |
| | 52-70 | PI No., left adjusted |
| | 71-72 | Blank |
| 3 | 1-14 | "Revision Date " |
| | 15-36 | Revision Date, left adjusted |
| | 37-45 | "Rev. No." |
| | 46-47 | Revision Number, right adjusted |
| | 48 | Blank |
| | 49-54 | "Dated" |
| | 55-70 | Date, left adjusted |
| | 71-72 | Blank |
| 4 | 1-70 | Equal Signs |
| | 71-72 | Blank |

2.3 LINE-COLUMN FORMAT (Con.)

| <u>Line</u> | <u>Columns</u> | <u>Contents (Con.)</u> |
|-------------|----------------|---|
| 5-57 | 1-70 | Content of this space is the same as specified in Volume 1 of the UDS Handbook; see appendix A for an example of each form. |
| | 71 | Blank |
| | 72 | "R" or blank, "R" will indicate lines changed in current revision. |
| 58 | 1-72 | Blank or dash line (minus signs) if end of section |
| 59 | 1-9 | "Ref UDS S" (Form No.) |
| | 10-19 | UDS Form No. Referenced, right adjusted |
| | 20-59 | Blank |
| | 60-67 | "SC Page" |
| | 68-70 | Page No., right adjusted |
| 60 | 71-72 | Blank |
| | 1-17 | Blank or Form Revision Date, left adjusted |
| | 18-33 | "Classification: " |
| | 34-48 | Classification, upper case |
| | 49-72 | Blank |

3.0 UDS LEVEL 2 AND 3 DOCUMENTS

The following automated format specifications and load instructions are applicable to PRD/OR and PSP/OD documents:

3.1 PAGE DISPLAY

The automated page format has a 72-column by 60-line character area which can be printed on 8-1/2 by 11-inch paper, or displayed on an 80-column CRT. Page margins will vary depending on the paper, pitch, and printing hardware used. Recommended display standard should be 10 characters-per-inch pitch with 6 lines per inch and printed paper margins as follows:

- a. Top - 1/2 inch
- b. Bottom - 1/2 inch
- c. Left - 3/4 inch
- d. Right - 3/4 inch

3.2 PAGE STANDARDS

As described above, the automated page format is a 72-column by 60-line text area. Each page will contain standard headers (above the double dashed line) and blocks of text with UDS box labels depending on the UDS form represented.

Columns 1 through 19 are reserved for UDS box labels except for the R G/A form where Columns 5 through 70 may be used for text after the first line in Box 10.

The data to be entered following each box label is confined to Columns 21 through 70, again, except for the R G/A form as explained above.

Column 71 is always left blank to allow space between text and an "R", indicating "revised", which is always entered in Column 72 when required.

Refer to Figure 3-1, Sample Page Format, for page layout, and paragraph 3.3 for line-column text placement format.

3.3 LINE-COLUMN TEXT PLACEMENT FORMAT - PRD, PSP, OR, OD

The following standards apply to data entry on 8-1/2 by 11-inch pages:

Data entry or N/A (not applicable) will be entered in each box when another entry is not applicable.

Fifty columns per line are available for text entry on all forms except the R G/A form, where 66 columns per line are available for up to 98 lines.

Page title will be centered on Column 36.

3.3 LINE-COLUMN TEXT PLACEMENT FORMAT (Con.)

Left/right margins will be 3/4 inch. The line and column numbers on the following page format apply after the margins have been set.

Table 3-1. Text Placement Format

NOTE: Quotation marks are not used on actual process material unless needed; their use here is only to emphasize words.

| <u>LINE</u> | <u>COLUMNS</u> | <u>CONTENTS</u> |
|-------------|-----------------------|--|
| 1 | 1-20 | Blank |
| | 21-38 | "1. Classification:" |
| | 39 | Blank |
| | 40-51 | Classification, upper case, left adjusted |
| | 52-72 | Blank |
| 2 | 1-72 | Blank |
| 3 | 1-4 | Blank |
| | 5-70 | Section Title, upper case, centered on Column 36 and flanked with blanks (66 characters maximum) |
| | 71-72 | Blank |
| 4 | 1-72 | Blank |
| 5 | 1 | Blank |
| | 2-19 | "2. Replaces Pages: " |
| | 20 | Blank |
| | 21-46 | Replacement Page No., left adjusted |
| | 47 | Blank |
| | 48-59 | "3. Page No.:" |
| | 60-70 | Page No., right adjusted |
| | 71 | Blank |
| 72 | "R" if a revised page | |
| 6 | 1-4 | Blank |
| | 5-10 | "Dated:" |
| | 11-20 | Blank |
| | 21-46 | Date on replaced pages, left adjusted |
| | 47 | Blank |
| | 48-55 | "4. Date:" |
| | 56-70 | Date, right adjusted |
| 71-72 | Blank | |

Table 3-1. Text Placement Format (cont'd)

| <u>LINE.</u> | <u>COLUMN</u> | <u>CONTENTS</u> |
|------------------|--|--|
| 7 | 1 | Blank |
| | 2-18 | "5. Program Title:" |
| | 19-20 | Blank |
| | 21-70 | Program Title, upper case, left adjusted (50 characters maximum) |
| | 71-72 | Blank |
| 8 | 1 | Blank |
| | 2-16 | "6. Program No.:" |
| | 17-20 | Blank |
| | 21-46 | Program No., left adjusted |
| | 47 | Blank |
| | 48-63 | "7. Revision No.:" |
| | 64-70 | Revision No., right adjusted |
| 71-72 | Blank | |
| 9 | 1-70 | Equal Signs (=) The equal signs separate header information and requirement item/text. |
| | 71 | Blank |
| | 72 | Equal Sign (=) |
| 10 | 1 | Blank |
| | 2-13 | "8. ITEM NO.:" |
| | 14-20 | Blank |
| | 21-70 | Item No., left adjusted |
| | 71 | Blank |
| 72 | "R" will be entered when Item is revised | |
| 11 | 1 | Blank |
| | 2-14 | "9. TEST CODE:" |
| | 15-20 | Blank |
| | 21-70 | Test Code, left adjusted |
| 71-72 | Blank | |
| 12 thru 58 | 1-19 | Labels "10." and greater vary according to the form used. |
| | 20 | Blank |
| | 21-70 | Data entry is in upper and lower case. On R G/A forms, lines will wrap around/back to column 5 after printing of first line. |
| | 71-72 | Blank |

Table 3-1. Text Placement Format (cont'd)

| <u>LINE</u> | <u>COLUMN</u> | <u>CONTENTS</u> |
|-------------|---------------|---|
| 59 | 1-11 | Page No., left adjusted |
| | 12-57 | Blank |
| | 58-64 | Ref UDS |
| | 65 | Blank |
| | 66-71 | Insert UDS form number, left adjusted (6 characters maximum) |
| | 72 | Blank |
| 60 | 1-72 | Same as line 1 |

NOTE 1: Each group of items (i.e., Blocks 8, 9, and 10, etc.) is to be separated with a line of dashes. The dashed line separates items within a section and will follow each item.

NOTE 2: Long titles or descriptions must be abbreviated as necessary to fit in the allotted columns.

Appendix A

PI/SC FORMATS

(This appendix contains automated
formats of all UDS Level 1 forms.)

Classification:

Revision No.
Revision Date

PI No
PI Date

PROGRAM INTRODUCTION

() CATEGORY 1 (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL(U)

3.() Program Title

4.() Short Title(U)

5.() Responsible Agencies and Key Personnel (U)

- a:() Agency
- b:() User Project Representative
- c:() Contractor/Rep
- d:() Lead Support Agency/Rep
- e:() Other Support Agency(s)

6.() Identification Information (U)

- a:() Beginning Date
- b:() First Test Date
- c:() Completion Date
- d:() Pgm/Proj No.
- e:() Contract No.
- f:() DOD Element No.
- g:() Type of Program
- h:() Mul Precedence
- i:() Priority No.
- j:() Program Status

7:(U) As required by Public Law 91-190, The National Environmental Policy Act, and DOD Directive 6050.1, AN

- a. Environmental Assessment Has() Has Not() Been made
- b. Environmental Statement Is() Is Not() Required
- c. Environmental Statement Has() Has Not() Been Prepared

8:() State any Contract terms which specify the quantity, quality or timeliness of services to be provided by the support Agency. (If none, state "NONE")

9:() The services requested herein are required for conduct of the Test Program and are not within any currently approved contractual scope of work except as follows;

.....
REQUESTING AGENCY, SIGNATURE, NAME-TITLE, AGENCY PHONE, DATE

.....
REQUESTING AGENCY, SIGNATURE, NAME-TITLE, AGENCY, PHONE, DATE

.....
LEAD SUPT AGENCY RECEIPT, SIGNATURE, NAME-TITLE, AGENCY, PHONE, DATE

.....
LEAD SUPT AGENCY RECEIPT, SIGNATURE, NAME-TITLE, AGENCY, PHONE, DATE

.....
SUPPORT AGENCY RECEIPT, SIGNATURE, NAME-TITLE, AGENCY, PHONE, DATE

.....
SUPPORT AGENCY RECEIPT, SIGNATURE, NAME-TITLE, AGENCY, PHONE, DATE

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 1 (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL(U)

1100-1299: PROGRAM AND MISSION INFORMATION (U)

SYSTEM BACKGROUND INFORMATION (U)

 SYS. DEVEL. MILESTONES/PHASES(U): FY FY FY FY FY FY
 1 2 1 2 1 2 1 2 1 2 1 2

 TEST PROGRAM AND MISSION INFORMATION/OBJECTIVES(U):

 ACTIVITY PLAN(U): FY FY FY
 1 2 3 4 1 2 3 4 1 2 3 4

Classification:

Revision No.
Revision Date

PI No.
PI Date

() CATEGORY I (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL (U)

1300-1399: () SYSTEM INFORMATION (U)

VEHICLE OR MISSILE
PAYLOAD

() VEHICLE OR MISSILE AND PAYLOAD INFORMATION (U)

- () Length () Max Accel
- () Diameter () CPE
- () Width () Spin Rate
- () Propul Sys () Wt Dry
- () Guidance Sys () Wt Launch
- () Launcher Type () BO Time
- () Explosive Type/Category

() Other Vehicle or Missile System Characteristics (U)

() TIME CORRELATED PERFORMANCE DATA (U):

| CHARACTERISTIC | UNIT | EVENTS |
|------------------|------|--------|
| () Altitude | | |
| () Velocity | | |
| () Range | | |
| () Acceleration | | |
| () Time | | |

() PAYLOAD DESCRIPTIONS (U)

1400-1499: () SYSTEM INSTRUMENTATION (U)

1500-1599: () REQUESTING AGENCY & SUPPORT INSTRUMENTATION/EQUIPMENT (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
() CATEGORY I (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL (U)

- 1300-1399: () SYSTEM INFORMATION (U)
 () TARGET SYSTEM INFORMATION (U)
 () TARGET PERFORMANCE PARAMETERS (U):
 () SPEED (MAX) (MIN)
 () ALTITUDE (MAX) (MIN)
 () TYPE PROPULSION
 () ENDURANCE (MAX) (MIN)
 () COMMAND CONTROL SYSTEM
 () LAUNCH MODE
 () TRANSPONDER (YES) (NO) () TRANSPONDER TYPE
 () TARGET AUXILIARY SYSTEM (TAS)
 ()
 ()
 () OTHER CHARACTERISTICS

() TIME CORRELATED PERFORMANCE DATA (U):

| CHARACTERISTIC | UNIT | T+ | T+ | T+ | T+ | T+ | T+ |
|------------------|------|----|----|----|----|----|----|
| () ALTITUDE | | | | | | | |
| () VELOCITY | | | | | | | |
| () RANGE | | | | | | | |
| () ACCELERATION | | | | | | | |
| () | | | | | | | |

1400-1499: () SYSTEM INSTRUMENTATION (U)

1500-1599: () REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
() CATEGORY 1 (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL (U)
=====

1300-1399: () SYSTEM INFORMATION (U)

() AIRCRAFT SYSTEM INFORMATION (U)

MANNED
UNMANNED

() SOURCE OF TEST AIRCRAFT

() AIRCRAFT PERFORMANCE PARAMETERS:

() SPEED (MAX) (MIN) (OPER) (TEST)

() ALTITUDE (MAX) (MIN) (OPER) (TEST)

() ENDURANCE

()

() OTHER INFORMATION

1400-1499: () SYSTEM INSTRUMENTATION (U)

1500-1599: () REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)

.Classification:

Revision No.
Revision Date

PI No.
PI Date

) CATEGORY 1 (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL (U)

1300-1399:) SYSTEM INFORMATION (U)

) ELECTRONIC/ELECTRO-OPTICAL SYSTEM INFORMATION (U)

) NOMENCLATURE/DESIGNATOR

) PLATFORM

) RADIATION SOURCE

) POWER REQUIREMENTS

) MODES OF OPERATION

) SYSTEM OPERATING PARAMETERS AND CHARACTERISTICS

1400-1499:) SYSTEM INSTRUMENTATION (U)

1500-1599:) REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

() CATEGORY1(1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL(U)

1300-1399: ()SYSTEM INFORMATION(U)

1400-1499: ()SYSTEM INSTRUMENTATION(U)

1500-1599:()REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT(U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 1 (1000-1999) PROGRAM INFORMATION ADMIN. AND TECHNICAL (U)

1600-1699: SYSTEM READINESS PROCEDURES/TESTS (U)

1700-1799 TEST ENVELOPE INFORMATION (U)

| | RANGE | ALT | QE | AZIMUTH | MAX PERF | REMARKS |
|------------------------------|-------|-----|----|---------|----------|---------|
| <input type="checkbox"/> MAX | | | | | | |
| <input type="checkbox"/> TYP | | | | | | |
| <input type="checkbox"/> MIN | | | | | | |

1800-1899: OPERATIONAL HAZARDS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 2 & 3 (2999 2000-3999)TEST/MISSION OPER. REQUIREMENTS(U)

2000-2099: TEST OPERATIONAL CONCEPTS/SUMMARIES (U)

2100-2199 METRIC MEASUREMENTS AND DATA REQUIREMENTS (U)

TEST PHASE UNIT POS VEL ACCEL PITCH YAW ROLL

OTHER

2200-2299: TELEMETRY MEASUREMENTS AND DATA REQUIREMENTS (U)

2300-2399 COMMAND CONTROL/DESTRUCT REQUIREMENTS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
 CATEGORY 2 & 3 (2000-3999) TEST/MISSION OPER. REQUIREMENTS (U)

2400-2499: AIR/GROUND VOICE COMMUNICATIONS REQUIREMENTS (U)

2500-2599 COMPOSITE SYSTEM REQUIREMENTS (U)

2600-2699 OTHER SYSTEM REQUIREMENTS (U)

2700-2799 GROUND COMMUNICATIONS REQUIREMENTS (U)

Ref UDS R 6
May 77

Classification:
A-11

PI Page .

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
 CATEGORY 2 & 3 (2000-3999) TEST/MISSION OPER. REQUIREMENTS (U)

2800-2899: OTHER COMMUNICATIONS REQUIREMENTS (U)

TELEVISION

TIMING

OTHER

3000-3099 REAL TIME DATA DISPLAY AND CONTROL REQUIREMENTS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
 () CATEGORY 2 & 3 (2000-3999) TEST/MISSION OPER. REQUIREMENTS (U)

3100-3199 () PHOTOGRAPHIC REQUIREMENTS (U)

 () DOCUMENTARY

() ENGINEERING

() -----
3200-3299 () METEOROLOGICAL REQUIREMENTS (U)

3300-3399 () RECOVERY REQUIREMENTS (U)

() -----
Ref UDS R 8 Classification: PI Page
May 77 A-13

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
 CATEGORY 2 & 3 (2000-3999) TEST/MISSION OPER. REQUIREMENTS (U)

3400-3499 OTHER TECHNICAL SUPPORT REQUIREMENTS (U)

RANGE SHIPS AND AIRCRAFT

TARGETS

FREQUENCY CONTROL

MISCELLANEOUS

3500-3599 MEDICAL REQUIREMENTS (U)

3600-3699 PUBLIC AFFAIRS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

() CATEGORY 4 (4000-4999) COORD SYS/DATA PROCESS & DISPOSITION RQMTS (U)

4000-4099 () COORDINATE SYSTEMS DESCRIPTION (U)

4100-4199 () DATA PROCESSING (U)

4200-4299 () DATA DELIVERY AND DISPOSITION REQUIREMENTS (U)

DATA CATEGORY/DATA TYPE

- ()
- ()
- ()
- ()
- ()
- ()

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 5 (5000-5999) BASE FACILITIES/LOGISTICS REQUIREMENTS (U)

5100-5199 PERSONNEL ASSIGNMENT SCHEDULES (U)

| FY | | | | FY | | | | FY | | | |
|----|---|---|---|----|---|---|---|----|---|---|---|
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |

OTHER

5200-5299 TRANSPORTATION REQUIREMENTS (U)

5300-5399 SUPPLY/STORAGE/SERVICE REQUIREMENTS (U)

SECURITY

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====
 CATEGORY 5 (5000-5999) BASE FACILITIES/LOGISTICS REQUIREMENTS (U)

5300-5399 SUPPLY/STORAGE/SERVICE REQUIREMENTS (U)

FUELS & LUBRICANTS

OTHER

5400-5499 LABORATORY REQUIREMENTS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 5 (5000-5999) BASE FACILITIES/LOGISTICS REQUIREMENTS (U)

5500-5599 MAINTENANCE SUPPORT REQUIREMENTS (U)

5600-5699 FACILITIES REQUIREMENTS (U)

FACILITIES (GENERAL)

| FY | | FY | | FY | | FY | |
|----|---|----|---|----|---|----|---|
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

-
-
-
-
-
-
-

FACILITIES (LAUNCH OR TEST PLATFORM)

LOCATION:

DESCRIPTION:

Classification:

Revision No.
Revision Date

PI No.
PI Date

 CATEGORY 6 (6000-6999) OTHER SUPPORT REQUIREMENTS (U)

6000-6999 OTHER SUPPORT REQUIREMENTS (U)

Classification:

Revision No.
Revision Date

PI No.
PI Date

=====

REQUIREMENTS FOR SUPPORT AGENCIES

1. FROM
2. TO
3. FOR THE REQUESTING SUPPORT AGENCY

SIGNATURE
NAME & TITLE

DATE

-
4. PAGE/PAR
 - 5.

Classification:

Ref UDS R 16
May 77

A-21

PI Attachment 1
PI Page

Revision No.
Revision Date

Classification:

PI No.
PI Date

Ref UDS R/S 17
May 77

Classification:

A-22

PI/SC Page

Classification:

Revision No.
Revision Date

Answers PI No.
Rev. No. Dated

=====

STATEMENT OF CAPABILITY

1.SC DATE

2.SC NO

3. () PROGRAM TITLE

4. () SHORT TITLE (U)

5. () PROGRAM INFORMATION (U)

() REQUESTING AGENCY

() CONTRACTOR

() BEGINNING DATE

() FIRST TEST DATE

() COMPLETION DATE

() LEAD SUPPORT AGENCY

() LEAD SUPPORT AGENCY REPRESENTATIVE

() SUPPORT AGENCY

() LAUNCH SITE(S)

() PRIORITY

6. () RECOMMENDATIONS/APPROVALS (U)
RECOMMENDATIONS

PLAN-
NING

SUP-
PORT

NON-
ACCEPT

SIGNATURE
NAME AND TITLE

DATE

() () ()

() SIGNATURE
NAME AND TITLE

DATE

() () ()

APPROVAL

SIGNATURE
NAME AND TITLE

DATE

() () ()

7. () STATEMENT OF RESPONSIBILITIES - REQUESTING/SUPPORT AGENCIES (U)

() ADDITIONAL DOCUMENTATION REQUIRED (U)

Classification:

Revision No.
Revision Date

Answers PI No.
Rev. No. Dated

=====

1. () PROGRAM SHORT TITLE

8. () PROGRAM/SUPPORT RESTRAINTS (U)

- | | | |
|-------------------|------------------------|------------------|
| () SCHEDULING | () MEASUREMENTS | () TECH SUPPORT |
| () DATA DELIVERY | () LOGISTICAL SUPPORT | () FACILITIES |
| () FUNDING | () OTHER | |
| () REMARKS (U) | | |

9. () SUPPORT DEVELOPMENT PLANS STATUS (U)

| | | FY | | | | FY | | | | FY | | | | | | | | | | | |
|--|--|----|---|---|---|----|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|
| | | O | N | D | J | F | M | A | M | J | J | A | S | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |

- | | |
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| () | |
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| () | |

() NOTES

Classification:

Revision No.
Revision Date

Answers PI No.
Rev. No. Dated

=====

1. (U)PROGRAM SHORT TITLE

2. PAGE/PAR

3. ()INFORMATION/SUPPORT PLAN (U)

Appendix B

PRD/OR FORMATS
PSP/OD FORMATS

(This appendix contains completed automated format samples of selected UDS Level 2 and 3 forms. UDS forms not included will be reformatted similarly.)

1. Classification: UNCLASSIFIED

ADMINISTRATIVE - GENERAL

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX1000.1
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: K1
9. TEST CODE: N/A
10. DESCRIPTION: The John F. Kennedy Space Center (KSC) Shuttle Launch and Landing (L&L) Program Requirements Document (PRD) consists of two volumes.

VOLUME I - SHUTTLE

The L&L PRD - Volume I - Shuttle is prepared by KSC in accordance with the National Aeronautics and Space Administration (NASA) Headquarters document NMI 8610.10 dated May 20, 1977. Requirements for the flight segment are documented in the flight PRD prepared by the Johnson Space Center (JSC).

VOLUME II - CARGO

The Volume II - Cargo - Basic contains management information, a listing of the assigned cargo annexes, and support requirements that are not mission peculiar relating to the Space Transportation System (STS) cargo.

CARGO ANNEX

Each payload assigned a JSC-Payload Integration Plan (PIP) number and a KSC-Launch Site Support Plan (LSSP) number will be assigned a unique L&L PRD annex number. Separate annexes for the payload-unique requirements permit individual preparation, publication, update, and use regardless of the cargo flight assignment. Further, the annex revision cycle can be different and independent from that of the L&L PRD Volume I - Shuttle and Volume II - Cargo.

The total cargo requirements of a particular mission can be developed by combining the annexes for the individual payloads.

8. ITEM NO.: K2
9. TEST CODE: N/A
10. DESCRIPTION: This document is an initial issue of a Launch and Landing PRD utilizing procedures for electronic processing in accordance with UDS Document 501-84, Supplement 2.

Specific document formats and procedures may require revision as implementation of the Launch and Landing automated system matures or Supplement 2 is revised.

XX1000.1

1. Classification: UNCLASSIFIED

Ref UDS R 102

1. Classification: UNCLASSIFIED

REVISION APPROVAL

| | | | |
|--------------------|----------------------------------|------------------|----------|
| 2. Replaces Pages: | ADDED | 3. Page No.: | XX1030.2 |
| Dated: | N/A | 4. Date: | |
| 5. Program Title: | L&L PRD-VOL II, ANNEX XX, WIDGET | | |
| 6. Program No.: | 20,000 | 7. Revision No.: | 2 |

8. ITEM NO.: N/A

10. REVISION NOTES: This issue contains Revision 2 pages forming a complete Launch & Landing Program Requirements Document (PRD) and supersedes issue dated December 15, 1981.

Major changes are as follows:

1. Addition of a microabrasion foil experiment
2. Addition of S-band transmission requirement
3. Increase in command/control circuit requirements
4. Deletion of CCTV requirements
5. Deletion of S-band requirements
6. Increase in timing requirements
7. Increase in electrical power requirements
8. Update of:
 - a. Propellants, gases, and chemicals
 - b. Vehicles and Ground Handling Equipment
 - c. Facilities - general

11. SIGNATURE AND DATE:

.....
12. SIGNATURE AND DATE:

.....
13. SIGNATURE AND DATE:

XX1030.2 1. Classification: UNCLASSIFIED Ref UDS R 102

1. Classification: UNCLASSIFIED

KEY TECHNICAL PERSONNEL

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX1064.1
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: Kc1
9. TEST CODE: N/A
10. NAME: Rose, A.
11. ORGANIZATION: MDAC/St. Louis
12. TITLE/OFFICE: Payload Ground Operations Manager
13. BUSINESS ADDR.: Building 101, Mezzanine, Mail Stop 10, MDAC,
St. Louis, P.O. Box 516, St. Louis, MO 53166
14. TELEPHONE NO.: 314-232-6967 (FTS 279-4110)

8. ITEM NO.: K2
9. TEST CODE: N/A
10. NAME: Munsey, W. R.
11. ORGANIZATION: NASA/KSC
12. TITLE/OFFICE: Launch Site Support Manager
13. BUSINESS ADDR.: CP-SPO, Kennedy Space Center, Florida 32899
14. TELEPHONE NO.: 305-867-4670 (FTS 823-4670)

8. ITEM NO.: G3
9. TEST CODE: N/A
10. NAME: Hartman, J.
11. ORGANIZATION: NASA/GSFC
12. TITLE/OFFICE: Mission Operations Manager
13. BUSINESS ADDR.: Goddard Space Flight Center
National Aeronautics and Space Administration
Greenbelt, MD 20071
14. TELEPHONE NO.: 301-344-5747

8. ITEM NO.: K4
9. TEST CODE: N/A
10. NAME: Koenig, N.
11. ORGANIZATION: NASA/KSC
12. TITLE/OFFICE: Technical Support Project Engineer
13. BUSINESS ADDR.: TO-SPD-2, Kennedy Space Center, Florida 32899
14. TELEPHONE NO.: 305-867-4490 (FTS 823-4490)

8. ITEM NO.: K5
9. TEST CODE: N/A
10. NAME: Drysdale, A.
11. ORGANIZATION: MDTSCO-KSD
12. TITLE/OFFICE: Integration Planning Contract Engineer
13. BUSINESS ADDR.: MDTSCO-CAP, P.O. Box 21233, Kennedy Space Center,
Florida 32815
14. TELEPHONE NO.: 305-867-2901 (FTS-823-2901)

XX1064.1

1. Classification: UNCLASSIFIED

Ref UDS R 111

1. Classification: UNCLASSIFIED

MISSION/TEST OBJECTIVES

6

2. Replaces Pages: N/A 3. Page No.: XX1131.1
Dated: N/A 4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000 7. Revision No.: 0

8. ITEM NO.: G1
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: Spacecraft/GSE Receipt - Installation and checkout will verify that the MGSE/EGSE are operationally ready to support WIDGET processing, verify interfaces between spacecraft EGSE and spacecraft Control Center, and RF link to WSGT via NASA Communications Network (NASCOM).

8. ITEM NO.: G2
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: WIDGET/IUS Mechanical Mate Operations will accomplish the mating operations of the WIDGET/IUS

8. ITEM NO.: G3
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: WIDGET/IUS Electrical Mate Operations accomplishes and verifies the electrical mating operation between IUS and spacecraft.

0

8. ITEM NO.: G4
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: WIDGET/IUS Integration Test verifies electrical commands and telemetry interfaces between the WIDGET/IUS and TDRS telemetry transmission via GMIL to WSGT.

8. ITEM NO.: G5
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: Cargo Integration Tests and Evaluation verifies all commands and telemetry interfaces between the WIDGET/IUS and orbiter and all command and telemetry links between the WIDGET/IUS and WSGT.

8. ITEM NO.: G6
9. TEST CODE: N/A
10. CATEGORY: I
11. OBJECTIVES: RSS Operations supports preparations and verifies that WIDGET/IUS is qualified for insertion into orbiter payload bay.

XX1131.1

1. Classification: UNCLASSIFIED Ref UDS R 115

0

1. Classification: UNCLASSIFIED

GROUND COMMUNICATIONS - TERMINATIONS - VOICE

2. Replaces Pages: N/A 3. Page No.: 2760.9
Dated: N/A 4. Date: Feb. 1, 1983
5. Program Title: STS OPS FLIGHT PRD VOL I
6. Program No.: 20,000 7. Revision No.: 0

TITLE: AIR-TO-GROUND-1 (A/G-1)
RESPONSIBLE AGENCY: ETR
8. ITEM NO.: T25E
9. TEST CODE: Z/O
10. CAPABILITY: Monitor
11. NOTE: NASA STS Flight only.
12. TERM. LOCATION: CSC, Hanger AO, CCAFS

TITLE: AIR-TO-GROUND-1 (A/G-1)
RESPONSIBLE AGENCY: DFRF
8. ITEM NO.: X26
9. TEST CODE: Z/O
10. CAPABILITY: Talk
11. NOTE: NASA STS Flight only.
12. TERM. LOCATION: BTCF for distribution

TITLE: AIR-TO-GROUND-1 (A/G-1)
RESPONSIBLE AGENCY: DFRF
8. ITEM NO.: K27X
9. TEST CODE: Z/O
10. CAPABILITY: Monitor
11. NOTE: NASA STS Flight only.
12. TERM. LOCATION: KSC Ground Operations Manager

TITLE: AIR-TO-GROUND-1 (A/G-1)
RESPONSIBLE AGENCY: DFRF
8. ITEM NO.: K28X
9. TEST CODE: Z/O
10. CAPABILITY: Monitor
11. NOTE: NASA STS Flight only.
12. TERM. LOCATION: DFRF ATR

TITLE: AIR-TO-GROUND-1 (A/G-1)
RESPONSIBLE AGENCY: DFRF
8. ITEM NO.: E29X
9. TEST CODE: Z/O
10. CAPABILITY: Monitor
11. NOTE: NASA STS Flight only.
12. TERM. LOCATION: Extend to EAFB

1. Classification: UNCLASSIFIED

GROUND COMMUNICATIONS - RECORDINGS (OIS AND TV)

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX2770.1
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: H1K
9. TEST CODE: LVL IV, SL INT, O&C, OPF
10. STATION OR LOC: O&C
11. RECORDING REQ.: OIS Voice
12. AUDIO/VIDEO REC
A. Start - Start of Test
B. Stop - End of Test
C. A/V - A
D. Speed - 3-3/4 ips
E. Reel Size - N/A
13. TIME CORR.: Yes
14. REMARKS: Operational control voice recording of appropriate OIS channels during verification tests in which WIDGET experiments are involved.

8. ITEM NO.: H2K
9. TEST CODE: LVL IV, SL INT, O&C, OPF
10. STATION OR LOC: OPF
11. RECORDING REQ.: OIS Voice
12. AUDIO/VIDEO REC
A. Start - Start of Test
B. Stop - End of Test
C. A/V - A
D. Speed - 3-3/4 ips
E. Reel Size - N/A
13. TIME CORR.: Yes
14. REMARKS: Operational control voice recording of appropriate OIS channels during verification tests (e.g., during OIT) in which WIDGET experiments are involved.

8. ITEM NO.: H3K
9. TEST CODE: LVL IV, SL INT, O&C, OPF
10. STATION OR LOC: O&C
11. RECORDING REQ.: OIS Voice
12. AUDIO/VIDEO REC
A. Start - Start of Test
B. Stop - End of Test
C. A/V - A
D. Speed - 3-3/4 ips
E. Reel Size - N/A
13. TIME CORR.: Yes
14. REMARKS: Provide upon request cassette recordings of specific OIS voice channels (TBD) obtained during WIDGET integration test and checkout activities. Selected time segments to be recorded are TBD for Experiment INS002.

XX2770.1

1. Classification: UNCLASSIFIED Ref UDS R 222

1. Classification: UNCLASSIFIED

PHOTOGRAPHIC - DETAIL

| | | | |
|---------------------|--|------------------|----------|
| 2. Replaces Pages: | N/A | 3. Page No.: | XX3110.1 |
| Dated: | N/A | 4. Date: | |
| 5. Program Title: | L&L PRD-VOL II, ANNEX XX, WIDGET | 7. Revision No.: | 0 |
| 6. Program No.: | 20,000 | | |
| ----- | | | |
| 8. ITEM NO.: | I1K | | |
| 9. TEST CODE: | N/A | | |
| 10. LOCATION: | SAEF #2 O&C | | |
| 11. CAMERA FORMAT: | 4x5/16mm/35mm | | |
| 12. F/L: | N/A | | |
| 13. FPS: | N/A | | |
| 14. FILM TYPE LOAD: | Black/White, Color, and Polaroid as required | | |
| 15. INTERVAL: | On call | | |
| 16. F/T: | F | | |
| 17. EXP: | Indoor and outdoor | | |
| 18. TIMING: | N/A | | |
| 19. REMARKS: | For test and payload movement | | |
| ----- | | | |
| 8. ITEM NO.: | I2K | | |
| 9. TEST CODE: | N/A | | |
| 10. LOCATION: | OPF and PAD | | |
| 11. CAMERA FORMAT: | 4x5 | | |
| 12. F/L: | N/A | | |
| 13. FPS: | N/A | | |
| 14. FILM TYPE LOAD: | Color | | |
| 15. INTERVAL: | On call | | |
| 16. F/T: | N/A | | |
| 17. EXP: | Indoor and outdoor | | |
| 18. TIMING: | N/A | | |
| 19. REMARKS: | Integration and Launch | | |
| ----- | | | |

XX3110.1

1. Classification: UNCLASSIFIED

Ref UDS R 307

1. Classification: UNCLASSIFIED

SERVICES - PROPELLANTS, GASES & CHEMICALS

2. Replaces Pages: N/A
Dated: N/A
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
3. Page No.: XX5310.1
4. Date:
7. Revision No.: 0

8. ITEM NO.: G1K
9. TEST CODE: PAD
10. NAME/DES.: Isopropyl Alcohol
11. MIL SPEC NO: TI-1-735
12. FED STOCK NO: N/A
13. UNITS: Gallons
14. RA or SA: SA
15. QTY REQD/QTR: FY/QTR-One 200
16. REMARKS: 200 gallon/operation required

8. ITEM NO.: G2K
9. TEST CODE: PAD
10. NAME/DES.: Gaseous N₂
11. MIL SPEC NO: MIL-P-27401C
12. FED STOCK NO: N/A
13. UNITS: Cylinder
14. RA or SA: SA
15. QTY REQD/QTR: FY/QTR-One 10
16. REMARKS: 8 cylinder operation required at base of FSS and
2 cyl/operation at level 2 or PCR.

8. ITEM NO.: G3K
9. TEST CODE: PAD
10. NAME/DES.: Hydrazine
11. MIL SPEC NO: MIL-P-26536C Amendment 1 as modified by Water:
0.5 to 1.0 (% by wt.); Aniline: 0.005 max (% by
wt.); Carbon Dioxide: 0.005 max (% by wt.);
Ammonia: 0.4 max (% by wt.).
12. FED STOCK NO: N/A
13. UNITS: Pounds
14. RA or SA: SA
15. QTY REQD/QTR: FY/QTR-One 3500/1500
16. REMARKS: 1500 lb/flight required: 3500 lb. stored and
available/flight.

8. ITEM NO.: H1K
9. TEST CODE: LVL IV
10. NAME/DES.: GN₂ at 40 psi 0.5 cmf³ for INS001. On-line
Integration Area - Level IV, Off-line
Equipment Preparation Area.
11. MIL. SPEC. NO.: MIL-P-27401-C, Type I, Grade B (GN₂)
12. FED. STOCK NO.: N/A
13. UNITS: SCF
14. RA OR SA: SA
15. QTY. REQD/QTR.: N/A

XX5310.1

1. Classification: UNCLASSIFIED

Ref UDS R 504

1. Classification: UNCLASSIFIED

SERVICES - VEHICLES AND GROUND HANDLING EQUIPMENT

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX5340.3
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: Kc1K
9. TEST CODE: TRANS
10. NAME OR NOMENCLATURE: Van, environmentally conditioned, Power Tail Gate
11. CAPACITY: 5 Ton
12. PURPOSE: MGSE, EGSE Flight Hardware Transfer
13. % USED: N/A
14. RA OR SA: SA
15. NUMBER N/A
REQD/QTR.:
16. REMARKS/SPEC. INST.: Transport following items between WIDGET PPF and OPF:
00E072001 Fluid Systems Module (attached to 00E076001-FSM Support Fixture)
00E072009 Sample Storage Module
00E073002 Experiment Command and Monitor Module
00E073005 Cable Harness Set - CFES Flight
00E073050 Cable Harness Set - CFES Flight
00E076007 Sling Assembly - Hoisting, FSM Support Structure
00E076002 FSM servicing and sterilization cart
00E076001 FSM Support Fixture

8. ITEM NO.: Kc2K
9. TEST CODE: TRANS
10. NAME OR NOMENCLATURE: Van, environmentally conditioned
11. CAPACITY: 1 Ton
12. PURPOSE: GSE Transfer
13. % USED: N/A
14. RA OR SA: SA
15. NUMBER N/A
REQD/QTR.:
16. REMARKS/SPEC. INST.: Transport 00E076002 Servicing and Sterilization Cart between WIDGET PPF and Launch Pad Orbiter middeck access white room (a) one month and (b) four to five days prelaunch. Maintain 75±5°F environment during transport. Minimize exposure to ambient environment. Return servicing cart to WIDGET PPF after servicing operation is completed.

XX5340.3

1. Classification: UNCLASSIFIED Ref UDS R 505

1. Classification: UNCLASSIFIED

SERVICES - CHEMICAL CLEANING

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX5370.1
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: G1K
9. TEST CODE: PAD
10. COMPONENT/
SYSTEM:
A. NAME/DESCR.: Propellant and Pressurant Loading Unit (PPLU)
B. QTY.: 1
C. SPECIF.: KSC C-123F
11. CLEANING REQ'T: Clean PPLU and equipment (filters, lines, etc.)
subsequent to fueling operations to meet TRW spec.
PR-2-2 level 1.
12. SERVICE: N2H4 hydrazine
13. REMARKS: N/A

8. ITEM NO.: G2K
9. TEST CODE: N/A
10. COMPONENT/
SYSTEM:
A. NAME/DESCR.: ECS ducting (VPF)
B. QTY.: 40 ft.
C. SPECIF.: KSC-C-123F
11. CLEANING REQ'T: To meet class 100,000 per Fed. Std. 209B. Cap
after cleaning
12. SERVICE: Air
13. REMARKS: N/A

8. ITEM NO.: G3K
9. TEST CODE: N/A
10. COMPONENT/
SYSTEM:
A. NAME/DESCR.: Flex Hose
B. QTY.: 50 ft.
C. SPECIF.: N/A
11. CLEANING REQ'T: Cleaning of 50 feet of 1/4 inch diameter flex
hose
12. SERVICE: Contaminants will be specified at the time a
support request is submitted.
13. REMARKS: N/A

XX5370.1

1. Classification: UNCLASSIFIED Ref UDS R 508

1. Classification: UNCLASSIFIED

CHEMICAL AND PHYSICAL ANALYSIS

2. Replaces Pages: N/A
Dated: N/A
3. Page No.: XX5410.1
4. Date:
5. Program Title: L&L PRD-VOL II, ANNEX XX, WIDGET
6. Program No.: 20,000
7. Revision No.: 0

8. ITEM NO.: G1K
9. TEST CODE: PAD
10. NAME/DES.: GN2
11. MIL. SPEC. NO.: MIL-P-27401C Grade B
12. DETAILS OF ANALYSIS REQ.: Analyze per specification
13. SAMPLE TIMES: (1) Receipt of shipment (2) Prior to loading N2H4
(3) Prior to pressurization of spacecraft
14. REMARKS: N/A

8. ITEM NO.: G2K
9. TEST CODE: PAD
10. NAME/DES.: GN2
11. MIL. SPEC. NO.: MIL-P-27401C Grade B
12. DETAILS OF ANALYSIS REQ.: Analyze per specification
13. SAMPLE TIMES: (1) Receipt of shipment (2) Prior to loading N2H4
in PPLU (3) Prior to pressurization of spacecraft
14. REMARKS: N/A

XX5410.1

1. Classification: UNCLASSIFIED Ref UDS R 510

1. Classification: UNCLASSIFIED

ADMINISTRATIVE - GENERAL

2. Replaces Pages: 1000.1
Dated: 05/25/82
3. Page No.: 1000.1
4. Date: 02/08/83
5. Program Title: L&L PSP-VOL II, CARGO BASIC
6. Program No.: 20,000
7. Revision No.: 3

8. ITEM NO.: K1
9. TEST CODE: N/A
10. DESCRIPTION: The John F. Kennedy Space Shuttle STS Launch and Landing Program Support Plan (PSP) consists of two volumes:
Volume I - Shuttle, the KSC response to the Shuttle OFT, Launch and Landing PRD
Volume II- Cargo Basic and annexes, the KSC response to the Cargo Basic, and payload annexes of the Launch and Landing PRD

8. ITEM NO.: K2
9. TEST CODE: N/A
10. DESCRIPTION: Volume II of the Launch and Landing PSP contains the Cargo Basic program support plans and the annexes for all payload program support plans. Documenting the payload support plans as annexes allows them to be prepared, updated, and used without impacting basic STS program plans regardless of which flight the cargo is assigned. Furthermore, annex revisions can be on a revision cycle independent from that of the basic PSP.

8. ITEM NO.: K3
9. TEST CODE: N/A
10. DESCRIPTION: Each annex will contain a complete issue or reissue of the subject payload support plan including signature authority or revision approval pages and revision control pages.

8. ITEM NO.: K4
9. TEST CODE: N/A
10. DESCRIPTION: A total cargo mission support plan can be developed by the selection of the appropriate annexes for the payloads that constitute the cargo on a particular mission.

8. ITEM NO.: K5
9. TEST CODE: N/A
10. DESCRIPTION: This Launch and Landing PSP contains the KSC support responses to the L&L PRD, Volume II - Basic. Support responses required from other agencies will be contained in separate program support plans published by the support agency.

8. ITEM NO.: K6
9. TEST CODE: N/A
10. DESCRIPTION: This document is an initial issue of the Launch and Landing PSP, utilizing procedures for electronic processing in accordance with UDS Document 501-84, Supplement 2.

Specific document formats and procedures may require revision as implementation of the Launch and Landing automated system matures or Supplement 2 is revised.

1. Classification: UNCLASSIFIED

APPROVAL AUTHORITY

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| 2. Replaces Pages: | N/A | 3. Page No.: | 1010.1 |
| Dated: | N/A | 4. Date: | 03/25/80 |
| 5. Program Title: | L&L PSP-VOL II, CARGO BASIC | | |
| 6. Program No.: | 40,000/20,000 | 7. Revision No.: | 0 |

8. ITEM NO.: K1
 9. TEST CODE: N/A
 10 - 15: Not used
 16. AUTHORITY (REF) N/A

17. NOTES: This is the initial issue of Volume II (Payload Annexes) of the Launch and Landing segment of the Space Shuttle Orbital Flight Tests (UFT) Program Support Plan (PSP).

18. APPROVAL AND
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REVISION APPROVAL

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| 5. Program Title: L&L PSP-VOL II, CARGO BASIC | | |
| 6. Program No.: 40,000/20,000 | 7. Revision No.: | 1 |

8. ITEM NO.: K1

10. REVISION NOTES:

This revision supersedes the Launch and Landing PSP, Volume II - Cargo, Rev. 0, dated March 25, 1980. It contains KSC UIS Termination support requirement responses to off-center support listed in Launch and Landing PRD, Volume II - Cargo-Basic, dated July 15, 1980.

Item and page number commitments are tabulated on Page 2030.1 of this document.

11. APPROVAL AND DATE:

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