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DOCUMENT 501-79

UNIVERSAL DOCUMENTATION SYSTEM
HANDBOOK
VOLUME 1SYSTEM DESCRIPTION
PROGRAM INTRODUCTION
AND
STATEMENT OF CAPABILITY

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PREFACE

At the 31st Meeting of the Range Commanders Council (RCC) on 7-8 November 1967, the members of the RCC mutually approved the documents and procedures prescribed in this handbook. They agreed that UDS use is mandatory by only the national ranges and their users; however, adoption by others is encouraged.

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SECTION 1

INTRODUCTION

1.1 GENERAL

This handbook describes the Universal Documentation System (UDS). The UDS is used to formally document user agency test program support requirements and support agency capabilities and commitments to support those requirements.

The UDS handbook is published in three volumes. Volume 1 describes the total UDS structure, the individual documents within the system, and the use and control of the system. Volume 1 also includes sample forms and specific instructions for the Program Introduction (PI) and Statement of Capability (SC) documents which are the first level of UDS documents.

Volume 2 describes procedures for preparation of the Program Requirements Document (PRD) and the Operations Requirements (OR) document which are more detailed documents in the UDS.

Volume 3 describes procedures for the preparation of the Program Support Plan (PSP) and the Operations Directive (OD) document.

1.2 APPLICABILITY

The UDS and the procedures described in this handbook are intended for application by those agencies which have adopted the UDS. Federal or civilian agencies authorized the use of resources under the control of support agencies which have adopted the UDS should submit their requirements according to the procedures contained in this handbook and according to any instructions prepared by those support agencies.

1.3 AUTHORITY

The Documentation Group (DG) of the Range Commanders Council (RCC) has the responsibility for design and control of the UDS. The UDS and the procedures contained in this handbook have been approved by the RCC.

1.4 DISTRIBUTION

Users of the UDS may obtain UDS handbooks and forms, supplemental instructions, and assistance from the Documentation Centers listed in appendix A of this volume.

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1.5 REVISION

Recommendations for revision of this handbook and/or forms may be made to the DG members at the agencies listed in appendix A. Recommendations for revision must include the reason for the change, deletion, or addition and a sample of the changed or added form with its instructions. The DG is responsible for review of the recommendation and, upon approval, for its incorporation and implementation. These changes do not require RCC approval; however, unusual or controversial changes may require RCC approval at the discretion of the DG.

1.6 DEFINITIONS

Some of the terms that are frequently used in this handbook are defined below. For a more complete listing, refer to RCC documents *A Glossary of Range Terminology* and *UDS Uniform Test Data and Data Product Nomenclature*.

Range/Support Agency: A range/support agency is an operational facility that provides support services to qualified users as determined by current directives. The words "range" and "support agency" are used interchangeably.

User/Requesting Agency: Any U.S. Government agency, industrial organization, or foreign government with authority to use range or support agency resources.

Sponsor: Any element of a government, military, or civilian agency with authority to use range or support-agency resources.

User Requirement: Any item of support requested by a user through the UDS.

Derivative Requirement: Any item of support required by one agency from another agency to meet the first agency's responsibility as levied by a user requirement.

Interagency Program: A program requiring the participation of more than one support agency.

Lead Range/Agency: The lead range/agency is responsible for coordinating total support planning and operations for a particular program, mission, or test. The lead range/agency identifies the support required from other agencies and coordinates the total support effort.

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SECTION 2

UNIVERSAL DOCUMENTATION SYSTEM (UDS)

2.1 PURPOSE

The UDS provides a common language and format for stating requirements and preparing support responses. The UDS encompasses documentation generated by user agencies which states program, mission, or test requirements and those response documents generated by the support agencies to define the support to be provided.

2.2 OBJECTIVES

Use of the UDS will:

- Establish a common language and format to provide more effective communication between the user and support agency.
- Standardize requirement and support methodology between the user and the support agency to achieve an effective planning/performance interface.
- Provide a standard yet flexible and dynamic system that meets the requirement and support needs of both simple and complex programs.
- Provide a format for automation.

2.3 CONCEPT

The UDS is a dynamic process intended to encourage standardization, yet flexible enough to be used by a number of different agencies and to apply to both small and large programs without disturbing the basic system concept. Flexibility of the UDS permits separate instructions to be prepared by each support agency for implementation of the UDS at that agency. These supplemental instructions may contain procedures and policies for the applicability and scope, submission, and revision of documentation.

2.4 SYSTEM CRITERIA

The UDS is based on the following criteria:

A common structure is used to enable users to employ one basic format when presenting requirements to support agencies. This structure is defined in a document outline that combines related subjects of the various program, mission, or test phases into a minimum number of broad categories for simplicity and ease of understanding. It relates support plans to requirements with a minimum of repetition.

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The system provides all the necessary information that must normally pass between the user and all contributing agencies in order to support the program, mission, or test.

The system is sufficiently flexible to be used by support agencies without effecting the internal management of the individual agencies.

2.5 LEVELS AND DOCUMENTS IN THE UNIVERSAL DOCUMENTATION SYSTEM

2.5.1 General

The UDS provides for the following three levels of user and support agency documentation:

<u>LEVEL</u>	<u>USER REQUIREMENTS DOCUMENTS</u>	<u>SUPPORT AGENCY RESPONSE DOCUMENTS</u>
1	Program Introduction (PI)	Statement of Capability (SC)
2	Program Requirements Document (PRD)	Program Support Plan (PSP)
3	Operations Requirements (OR)	Operations Directive (OD)

The Level 1 documents (the PI and SC) are used to initiate test program support planning between users and support agencies. The Level 2 documents (the PRD and PSP) may be required to provide additional or more detailed test program information, especially for the more complex programs. The Level 3 documents (the OR and OD) are used to plan for individual tests within a program.

2.5.2 Level 1 Documents

Program Introduction (PI) - The PI document is the initial planning document submitted by a potential user to the support agency immediately upon identification of the scope and duration of program activity. The potential user should submit the PI using best available information, enabling the support agency to initiate resource and technical planning. This information, while sometimes fragmentary and incomplete, is of substantial value to the support agency in determining the scope of the program. For many programs, the PI is designed to eliminate further documentation except for conduct of specific tests. Refer to section 3 of this volume for details of PI initiation and submission.

Statement of Capability (SC) - The SC document is the support agency's response to the PI. When properly signed, the SC is evidence that a program has been accepted for support by the support agency; subject to approval by higher headquarters, when applicable. Support conditions, qualifications and resources, or other considerations are initially identified by this document and serve as a baseline reference to subsequent acceptance and commitment by the support agency. The PI and the SC complement each other in establishing the scope of the program support activity. Refer to section 3 of this volume for implementation and submission details.

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2.5.3 Level 2 Documents

Program Requirements Document (PRD) - The PRD is a detailed full-program planning document normally required for complex or long lead-time programs. The PRD contains the requirements for support desired from the support agency and may contain supplemental information when needed for clarity of purpose. The need for a PRD will be determined during the analysis of the PI or during early planning meetings and will be so stated in the SC. A PRD is submitted to assure that support capability will be available during the time period required by the user organization. Requirements should be submitted immediately upon identification. The user should not delay submittal of the PRD because of incomplete knowledge of support requirements. Specific details and forms used in the preparation of the PRD are presented in Volume 2 of this handbook.

Program Support Plan (PSP) - The PSP is a response to the requirements presented in the PRD and is prepared by the responsible support agency. This response indicates those requirements that can be met from existing resources, those that can only be met through programming new resources or through alternatives, and those which cannot be met by the support agency. The PSP is prepared on a series of forms similar to the PRD and retains the same outline and format. It is maintained current with revised program requirements by corresponding revision for the duration of the program. Specific details and forms used in preparation of the PSP are presented in Volume 3 of this handbook.

2.5.4 Level 3 Documents

Operations Requirements (OR) - The OR document is a mission oriented document that describes in detail the requirements for each mission, special test, or series of tests. It is prepared by the user. The PRD and OR must be complete documents capable of standing alone. The OR must not reflect new requirements not previously stated in the PI and/or PRD. The OR format must be consistent with the UDS outline. PRD forms may be used in the preparation of the OR.

Operations Directive (OD) - The OD is the support agency's response to the OR and is the detailed plan for implementation of support functions for a specific test or series of tests.

The format of the OD is not prescribed; however, paragraph numbering should be consistent with the UDS outline used in the previously described documents. PSP forms may be used in the preparation of the OD.

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2.6 SUPPLEMENTAL DOCUMENTATION

2.6.1 General

The UDS includes provisions for supplemental documentation. This supplemental documentation includes extracts of selective portions of the basic documents and supplements that are actually parts of the basic document but do not exist under the same basic cover, nor follow the same management or distribution pattern. The required supplemental documentation is determined by joint user-support agency agreement at the time of program initiation.

2.6.2 Document Extracts

Extract documents relate to derivative requirements where requirements placed on a given support agency result in the generation of additional (derivative) requirements that must be placed on other agencies. This relates to the lead support agency concept where one agency is given overall support responsibility when the total support involves a number of agencies.

Examples of extract documents are as follows:

Program Requirements Document Extract (PRDE) - The PRDE becomes a necessary document when requirements which are placed on one agency in turn create additional (derivative) requirements that must be levied on other agencies. This occurs when it is not appropriate to levy the original PRD on these other agencies. The derivative requirements are prepared on PRD forms in accordance with the standard UDS outline.

Operations Requirements Extract (ORE) - The ORE is identical to the PRDE except it applies to the OR and mission/test level as opposed to the program level. It relates to the lead support agency concept where the lead agency must levy derivative requirements on other agencies. In general, the basic requirements will be extracted from the user's original OR and expanded upon by the lead agency.

2.6.3 Sectional Supplements

Sectional supplements break out detailed information of a particular section for separate distribution. Sectional supplements, in general, will be restricted to the larger programs. On the larger programs, certain categories of requirements such as data formatting, processing and display are quite voluminous and apply to only a minority of people concerned with the program. It is appropriate that these requirements be prepared and distributed under separate cover. They should, however, be prepared in standard UDS format and in accordance with the standard UDS outline. They will be clearly entitled with the proper UDS title and section number. These supplements may be sections

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of either a PRD, PSP, OR, or OD. These documents stand on their own and are not bound with the above documents. They are, however, identified as a section of the appropriate document and retain the same format and numbering system.

2.7 OTHER DOCUMENTATION

Program, mission, or test requirements documents in all instances must be completely understandable and stand on their own; however, there is much supporting information that must be documented and related to the requirements in order that support may be provided. Examples of such information are antenna patterns, explosive forces of pyrotechnics, range safety procedures, schedules, security guides, and mission assignments. This information is documented separately and is referenced in the UDS documentation.

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2.8 DOCUMENT STRUCTURE

The common numbering system that serves as a framework for all documents within the UDS is shown in Table 2-1. Section, page, or paragraph numbers, as applicable to the type of document, will be assigned within the blocks listed under "Section/Page/Paragraph Series." In addition to serving as a framework for the documentation system, the numbering system provides format standardization for all agencies. Further UDS outline detail is shown in appendix B of this handbook.

TABLE 2-1
UDS-DOCUMENT STRUCTURE

<u>Category</u>	<u>Subject Matter</u>
1	Program Information, Administrative and Technical
<u>Section/Page/Paragraph Series</u>	
1000-1099	Administrative Information
1100-1299	Program and Mission Information
1300-1399	System Information
1400-1499	System Instrumentation
1500-1599	Requesting Agency's Support Instrumentation/Equipment
1600-1699	System Readiness Procedures/Tests
1700-1799	Test Envelope Information
1800-1899	Operational Hazards
1900-1999	Unassigned
<u>Category</u>	
2 and 3	• Test/Mission Operational Requirements
<u>Section/Page/Paragraph Series</u>	
2000-2099	Test Operational Concepts/Summaries
2100-2199	Metric Measurement and Data Requirements
2200-2299	Telemetry Measurements and Data Requirements
2300-2399	Command Control/Destruct Requirements
2400-2499	Air/Ground Voice Communications Requirements
2500-2599	Composite System Requirements
2600-2699	Other System Requirements
2700-2799	Ground Communications Requirements
2800-2899	Other Communications Requirements
2900-2999	Unassigned
3000-3099	Real-Time Data Display and Control Requirements
3100-3199	Photographic Requirements
3200-3299	Meteorological Requirements
3300-3399	Recovery Requirements
3400-3499	Other Technical Support Requirements
3500-3599	Medical Requirements
3600-3699	Public Affairs
3700-3999	Unassigned

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Category

Subject Matter

4

Coordinate Systems/Data Processing and
Disposition Requirements

Section/Page/Paragraph Series

4000-4099

Coordinate System Descriptions

4100-4199

Data Processing

4200-4299

Data Delivery and Disposition Requirements

4300-4999

Unassigned

Category

5

Base Facilities/Logistics Requirements

Section/Page/Paragraph Series

5000-5099

Unassigned

5100-5199

Personnel Assignments Schedules

5200-5299

Transportation Requirements

5300-5399

Supply/Storage/Service Requirements

5400-5499

Laboratory Requirements

5500-5599

Maintenance Support Requirements

5600-5699

Facilities Requirements

5700-5999

Unassigned

Category

6

Other Support Requirements

Section/Page/Paragraph Series

6000-6099

Other Support Requirements

6100-6999

Unassigned

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2.9 CATEGORIES OF OBJECTIVES AND CLASSES OF REQUIREMENTS

2.9.1 General

Support agency resources and support agency development are planned and based on valid support requirements submitted by the user via the UDS. The requirements are those needed to meet user program, mission, or test objectives. In order to ensure that requirements will be met, the user must determine his category of objectives and the class (accuracy) of his requirements and relate these to basic user needs. Since these objectives and accuracy requirements are vital to support agency planning and development, it is necessary to define precisely discrete categories of objectives and classes of accuracies as well as to establish discrete levels of priorities that relate to these objectives and accuracies.

2.9.2 Categories of Objectives

Category I

Category I objectives are considered mandatory to the program, mission, or test. These objectives are further defined as those items which, if not accomplished, would result in significant impact on program schedules, costs and verification of system performance.

Category II

Category II objectives are considered required to make the program, mission, or test a complete success but are not mandatory. In other words, they are objectives that could be sacrificed to performance, cost, time, or other constraints.

Category III

Category III objectives are considered desirable for design research, environmental research, associated projects, or a supporting engineering effort. Generally, they are objectives that would be beneficial to meet if support can be provided with existing support agency capability.

2.9.3 Classes of Requirements

General

Classes of requirements relate to accuracy and reflect degrees of instrumentation accuracy that are used for implementing, planning and developing support agency capability.

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Class I

Class I accuracy represents the minimum acceptable accuracy values and/or integral of coverage that is acceptable to the user.

Class II

Class II accuracy represents more stringent values that would achieve program, mission, or test objectives to a greater degree of accuracy.

Class III

Class III accuracies represent the ultimate in desired capability.

Class I needs, coupled with objective priority, are generally used for budget justification planning, engineering planning, and for operational support planning. Class II needs are generally used by the support agency in short-range improvement/optimization planning and implementation to meet the more stringent future requirements. Class III accuracy generally represents the ultimate in desired capability as well as the state-of-the-art requirement to be used by the support agency in long-range improvement and development planning.

2.9.4 Requirement Priority Classification

General

A priority of need must be defined in order to evaluate requirements on an overall program, mission, or test basis.

Mandatory

A mandatory classification is the minimum requirement that is essential to achievement of program, mission, or test objectives for which it is specified.

Required

A required priority is support that would materially aid in achievement of all objectives and that is necessary for detailed analysis of system performance.

Desired

A desired requirement is any support in addition to that which is mandatory or required and which can be obtained.

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SECTION 3

DOCUMENT INITIATION, IMPLEMENTATION AND TERMINATION

3.1 GENERAL

The PI is the document that officially introduces a program, mission, or test to a support agency. Potential users must submit a PI at the earliest date consistent with the knowledge that support may be required since this information is necessary to support agency planning and resources development. Larger programs may require all three levels of UDS documentation, and the PI may be followed by the PRD and OR which are respectively answered by the SC, the PSP, and the OD. Initiation, implementation and termination procedures that relate to the UDS in general are discussed in this section. Procedures relating to initial support agency and user contacts and subsequent establishment of documentation requirements are determined by each support agency.

The official position of the RCC allows users to request specific equipment facilities, instrumentation support and support systems. However, while sometimes useful, such stipulations, by themselves, are inadequate for support agency determinations concerning requirements validity, optimum facility utilization, priority implementation and support agency development planning. Therefore, the user, by specifying support equipment or systems, shall not be relieved of his obligation to specify detailed data needs sufficient for support agency determinations to be made.

3.2 DOCUMENTATION LEAD TIME

Lead times will vary considerably from program to program depending upon the scope of the support needed. Documentation lead times will be established by negotiation between the user and support agency. Nominal lead times based on past experience are presented below:

<u>Scope of Augmentation Needed</u>	<u>Lead Time in Years</u>	
	<u>Desired</u>	<u>Required</u>
Major additions requiring new facility construction.	4½	3½
Extensive additions to instrumentation, not requiring major facility construction.	3½	2½
Instrumentation additions funded by user.	2	1
Minor improvements.	1	½

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Documentation will be submitted well in advance of the first requested support or test date. This time is needed for the support agency to provide the required facilities or instrumentation and to review, accept, approve, publish, and distribute the necessary documentation.

3.3 DOCUMENT IMPLEMENTATION

The UDS is designed to accommodate as many conditions as practical. While it is most desirable to have a single PI and SC that contain total program information, it is also acceptable to have several PIs and SCs. This latter approach is used when different ranges/support agencies support unique and unrelated phases of testing, the mission, the flight, and/or recovery. For example: one agency supports engine tests for Program "X," another agency supports structural tests for Program "X," another agency supports launch of Program "X," and another agency provides on-orbit support for Program "X."

The same philosophy applies to the Level 2 documents for which a single PRD and PSP can contain all information at the program level. However, it is also acceptable to have multiple PRDs and PSPs as explained above.

The most detailed level of requirements/support is contained in the OR/OD. Since Level 3 describes specific tests, a single OR/OD or multiple ORs/ODs (as explained above) are acceptable.

The UDS forms and procedures will be used by all agencies desiring support from those agencies that have adopted the UDS. User requirements documents and support agency response documents will be prepared in accordance with the format and procedures in this handbook and in accordance with any supplemental instructions prepared by the support agencies.

a. PI Submission - The potential user should submit the PI as early as possible using best available information. Detailed support needs are often known for minor or short lead-time programs. In these cases the PI is designed to eliminate further documentation except that required to conduct specific tests. All related program activity should be combined into a single PI. The PI must constitute an authoritative expression of user needs and be properly validated.

After review, the support agency assigns a PI document number, reproduces the PI, and distributes it to interested activities. The user is provided as many copies as requested. If further documentation is required, the support agency will assign blocks of numbers to the user to identify these documents. Refer to section 4 of this volume for PI preparation details.

b. SC Response - The PI and SC are designed to complement each other in establishing the scope of user activity and support provided. They are the means by which the user indicates coordination with the support agency when initiating a new program.

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In some cases the support agency may respond to the PI on an exception basis rather than with a definitive support plan. Also, at the discretion of the support agency, commonly supplied items and requirements that can be satisfied with existing capability may be answered in a general all-inclusive statement. The approach taken will depend generally on the nature of the program and the purpose for which the PI is submitted. Refer to section 5 of this volume for SC preparation details.

c. PRD Submission - If the PRD is required by the support agency, it is submitted according to the schedule negotiated by the lead agency and user. The support agency normally takes the lead in schedule establishment since the support agencies are most knowledgeable with respect to support acquisition and implementation. Refer to Volume 2 of this handbook for PRD preparation details.

d. PSP Response - The PSP is the support agency's response to the PRD. The initial issue of the PSP will include an item-for-item response to the program requirements which are known at the time of issue and stated in the PRD. Emphasis should be placed on identifying those support items requiring long-range planning action even though details of implementation may not be known. As more detailed information becomes available, revisions will be made to the documents to incorporate additional information. Refer to Volume 3 of this handbook for PSP preparation details.

e. OR Submission - This document describes in detail an individual mission or test and establishes requirements for that specific portion of the overall program. Refer to Volume 2 of this handbook for preparation details.

f. OD Response - The OD is prepared in response to the OR. The OD provides management information and is a listing of expected coverage detailing the support posture of the support agency for the test covered by the particular OD. Requirements that cannot be met must be identified.

The OD is normally prepared in sufficient detail to furnish instructions for a specific test. Standard operation procedures or similar documentation providing general instructions applicable to more than one test may be referenced in the OD. Refer to Volume 3 of this handbook for OD preparation details.

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3.4 DRAFT CONFERENCES

When PI and PRD drafts are prepared, conferences may be held for new programs to discuss the complexity of the support and to consider foreseeable difficulties. The conferences provide the opportunity for early coordination, classification, and assessment of support questions that may arise. The support agency will make distribution of the PI or PRD draft and advise all interested user and support agency personnel when, and if, they are required to attend a draft conference.

A draft OR conference may be held to bring the user and support agency personnel together to clarify requirements and discuss differences between requirements and support available to meet them. Distribution of the draft OR and arrangements for the conference are accomplished in the same manner as for the PI and PRD.

3.5 SECURITY CLASSIFICATION

The safeguarding of classified information is a mutual responsibility of all personnel. Adherence to the related and established security procedures is mandatory.

The user is responsible for identifying the information to be protected, the proper security classification designations (TOP SECRET, SECRET, or CONFIDENTIAL) which apply to the information, and the duration of classification in terms of time or future events. Documents will only be accepted if classified by an original classification authority and promulgated in a security classification guide or other authoritative-type document. A copy of the source of classification authority will be submitted with the document. •

When the classified pages of large documents are few in number, as with some programs, it may be expedient to publish unclassified basic documents. Classified portions of the program will be published in separate document extracts which have limited distribution and which are subject to the control imposed by their classification.

Details for proper classification of documents are to be found in the applicable agency security guides, manuals, or regulations. Procedures for marking or stamping will be found in the applicable document preparation instructions in this handbook.

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3.6 DOCUMENT CANCELLATION

The user or originator notifies the support agency by letter when a PI, PRD, or OR is to be cancelled. The notice includes the title, number and date of the document. Cancellation of the requirements document automatically cancels the corresponding support document.

3.7 DOCUMENT DISPOSTION

The official file copy of all documents will be maintained and retired by the responsible agency in accordance with applicable records disposition directives. All other copies may be destroyed upon completion or cancellation of the program.

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SECTION 4

PROGRAM INTRODUCTION (PI) DOCUMENT PREPARATION INSTRUCTIONS

4.1 GENERAL

The PI document is prepared on a series of standard forms illustrated in the following pages. Blank copies of forms are available from each of the agencies shown in appendix A.

The PI establishes the scope of program activity. Within the defined scope, the user has freedom of action in planning specific tests in detail. The support agency will decide whether further detail should be included in the PI or if more detailed documentation is required.

New program requirements may impose need for additional tracking coverage, additional data products, different frequencies, or other accommodations not available at the support range. The criteria and qualification of such requirements should be stressed in the PI.

Users with programs involving orbital operations or large weapon systems should consider the program as consisting of "phase of a test," examples are: prelaunch phase, orbital phase, recovery phase, test location phase, development phase, and system components phase. In these cases, the user should identify in the PI those requirements that differ and that are unique to a particular phase. If a particular requirement is program-wide and does not differ with the "phase of test," then such a distinction is not necessary.

While the user should make every effort to ensure that the PI is sufficient in scope to include all known and anticipated program requirements, this is not always practicable. For this reason, an accepted PI must be revised when there is a significant change in the user's program. For example, major changes in such items as (1) program scope, (2) milestone dates such as first test date, (3) test vehicle characteristics, (4) operating or launch locations, and (5) support requirements will require document revision.

Revision may be made either by preparing a completely new PI or by submitting a rewritten page that includes the revised information. The user may select either means; however, the user is requested to discuss any proposed revision with the assigned support agency representative. A PI should not be revised to reflect minor changes in the character of a program or support requirements.

The user is responsible for proper security classification and marking of the PI. The overall classification of the PI must equal the highest classification of any page or part thereof. Guidance for properly marking the PI is included in the preparation instructions for each page.

Date: 6-77

4.2 FORM IDENTIFICATION

Each form within the UDS is individually identified on the lower left margin in the following manner:

UDS FORM
(Date of Approval)

Form numbers from R 1-R 99 are reserved for the Program Introduction and are assigned as the forms are approved. The PI forms are further identified with the notation PI PAGE _____ in the lower right hand margin. The pages will be numbered consecutively upon PI preparation. (Note: UDS Form R/S 17 is a multi-purpose general form and may be used to supplement or extend information or requirements in the PI or SC.)

4.3 REQUIREMENTS FOR SUPPORT AGENCIES

UDS Form R 16 is used for imposing support requirements on other agencies in interranger operations. It is mainly used by a lead support agency.

When prepared by a lead support agency, the form is added to the PI document before distribution. If the lead support agency requires support from more than one other agency, a page (or pages) will be prepared for each; however, all pages used in the attachment will be numbered sequentially, beginning with 1.

When prepared by a support agency other than the lead support agency, the additional page (or pages) will be added to the lead support agency attachment. Numbers of the pages added by a supporting agency will continue the sequence initiated by the lead support agency.

4.4 REPRODUCTION

All forms used in the PI must be prepared in accordance with the instructions in the following paragraphs to ensure satisfactory reproduction. Care must be taken during typing, proofreading, handling, and storage of the forms to prevent smudges in the image area, since any undesirable marks on the original will appear on the reproduction.

Typing - The forms have been designed for use with a 12-character-per-inch typewriter. Typewriters that use either black-ink fabric or carbon-surfaced tape ribbons of either paper or plastic base can be used for preparation of the masters. The fabric ribbon should not be used to the point of exhaustion of the ink because the legibility of the reproduced document is dependent upon the intensity and sharpness of the original typed character. Carbon-surfaced ribbons are preferred as they are only typed on once and thus enhance the sharpness and uniformity of the typed characters.

Date: 6-77

Writing Fluid - Black ink should be used for writing, lettering, drawing and ruling. Ball or nib points may be used; however, a draftsman's pen should be used for ruling lines. A brush may be used for filling in solid areas.

Pencil - Black pencil may be used in place of pen and ink. Slightly heavier-than-normal pressure should be used so that good reproduction will result. Guidelines, correctional notes, or instructions made during proofreading and review should be made with a blue nonreproducible pencil only, using less-than-normal pressure. The nonreproducible blue will not have to be erased because it will not reproduce. Other types of pencils must not be used for the above purposes because their marks will reproduce.

Stamping - Use a pad that has been impregnated with black ink only. Press the stamp on the forms with a slight rolling motion to give a sharper image. Reproducing (offset) ink is not required.

Tracing - Diagrams and sketches should be traced onto the master using fresh carbon paper and a ballpoint pen, hard pencil, or stylus. Used carbon paper may result in unevenness and skips. Tracings should be "fixed" with a light application of plastic spray to prevent smudging.

Paste-Ups - Drawings and figures of suitable size may be fastened to the form with rubber cement or clear plastic tape. This method may be more desirable than tracing, provided all data on the original is sufficiently legible for reproduction. When using tape, try to affix it so that the tape does not cover the original.

Erasures or Corrections - Erasures and corrections may be made on the forms with a soft rubber eraser. A few strokes of the eraser are usually enough to remove the unwanted image. A faint "ghost" image remaining after an erasure will not reproduce.

Data may also be erased and corrected on the form by the use of white, fast-drying, opaque substances such as Snopake or equivalent. These solutions should be thinned properly to provide a smooth surface suitable for typing. Corrective tape may also be used. These methods are preferred to rubber erasers which frequently smear the image or destroy the paper surface.

4.5 PREPARATION INSTRUCTIONS

The following pages illustrate the PI outline and contain samples of PI forms and detailed preparation instructions.

Date: 11-79

REVISION NO _____

REVISION DATE _____

CLASSIFICATION

PROGRAM INTRODUCTION

1. PI DATE

2. PI NO

() CATEGORY 1 (1000-1999) PROGRAM INFORMATION, ADMINISTRATIVE & TECHNICAL (U)

3. () PROGRAM TITLE (U)

4. () SHORT TITLE (U)

5. () RESPONSIBLE AGENCIES & 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

f. () DOD ELEMENT NO

b. () FIRST TEST DATE

g. () TYPE OF PROGRAM

c. () COMPLETION DATE

h. () MUL PRECEDENCE

d. () PGM/PROJ NO

i. () PRIORITY NUMBER

e. () CONTRACT 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 _____

SIGNATURE _____

NAME AND TITLE

NAME AND TITLE

AGENCY

AGENCY

PHONE

DATE _____

PHONE

DATE _____

10. LEAD SUPPORT AGENCY RECEIPT

SIGNATURE _____

SIGNATURE _____

NAME AND TITLE

NAME AND TITLE

AGENCY

AGENCY

PHONE

DATE _____

PHONE

DATE _____

11. SUPPORT AGENCY RECEIPT

SIGNATURE _____

SIGNATURE _____

NAME AND TITLE

NAME AND TITLE

AGENCY

AGENCY

PHONE

DATE _____

PHONE

DATE _____

UDS FORM R 1
NOV 79



CLASSIFICATION

PI PAGE 1

Replaces Form R1 Dated May 1977

Date: 11-79

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 1

PREPARATION INSTRUCTIONS

GENERAL

The originator is responsible for the proper security classification and marking of the PI. A copy of the program security classification guide must be submitted with the PI. Enter the highest security classification of information appearing on this page in the spaces provided at the top and bottom. If the page contains classified information, each portion will be marked to show the level of classification, or that it is unclassified, shown by the appropriate classification symbol placed immediately following the form letter or number, or in the absence of letters or numbers, immediately before the beginning of the information. The parenthetical symbols "(TS)", "(S)", "(C)", and "(U)" will be used. When appropriate, the symbols "RD" for Restricted Data, "FRD" for Formerly Restricted Data, and "(N)" for Critical Nuclear Weapon Design Information (CNWDI) will be added. If the page contains no classified information, enter the word "Unclassified." Use black ink and a rubber stamp with letters at least 1/8-inch high.

If this is a revision to the basic document, enter the revision number and revision date.

NOTE: If additional space is required in any section or box, use UDS Form R/S 17.

BOX 1: Enter the date of the basic document.

BOX 2: The support agency will complete this box.

BOX 3: Enter the program title.

BOX 4: Enter the official or accepted UNCLASSIFIED short title.

BOX 5: RESPONSIBLE AGENCIES AND KEY PERSONNEL

- a. AGENCY: Enter the agency having prime responsibility for the program.
- b. USER PROJECT REPRESENTATIVE: Give the name of the individual representing the developing or sponsoring agency at the support agency.
- c. CONTRACTOR/REP: Enter the name of the prime contractor for each program and give the name of the individual representing the prime contractor at the support agency.
- d. LEAD SUPPORT AGENCY/REP: Enter the agency having overall support responsibility for the program when the total support involves a number of agencies. Enter the name of the individual representing the lead support agency.
- e. OTHER SUPPORT AGENCY(S): Enter here any agency(s) which will provide support for the program.

BOX 6: IDENTIFICATION INFORMATION

- a. BEGINNING DATE: Give the anticipated date of initial program activity such as arrival of personnel.
- b. FIRST TEST DATE: Give the estimated date of the first significant test event.
- c. COMPLETION DATE: Enter the estimated date of termination of program activity at the support agency.
- d. PGM/PROJ NO: Enter the program or project number.
- e. CONTRACT NO: Enter the basic contract number.
- f. DOD ELEMENT NO: Enter the DOD Program Element Code. For non-DOD programs, enter NA.
- g. TYPE OF PROGRAM: Identify the type of program such as aircraft, missile, target, surface craft sensor, etc.
- h. MUL PRECEDENCE: Enter the assigned DOD Master Urgency List precedence, if applicable.
- i. PRIORITY NUMBER: Enter the Army or Navy priority indicator or the Air Force precedence rating.
- j. PROGRAM STATUS: State whether the program is proposed or approved and whether the PI is being submitted to obtain program planning information or as an official request for support. The response to this document (the Statement of Capability) should be used as evidence of coordination with the support agency when such is needed in obtaining approval of proposed programs. No other statements of support agency program supportability are normally provided.

BOX 7: Self explanatory. Check the appropriate block.

BOX 8: Self explanatory

BOX 9: The certification is for signature of the requesting agency, user's representative or local sponsor, or both, when required as determined by the support agency. This certification is required to assure that a contractor is not provided services, without reimbursement, which the contractor is obligated under contract to provide.

BOX 10: Receipt of the PI will be acknowledged by the lead support agency representative in the space indicated.

BOX 11: Receipt of the PI will be acknowledged by the support agency representative in the space indicated.

Date: 6-77

REVISION NO _____

REVISION DATE _____

CLASSIFICATION

PI NO _____

PI DATE _____

☐ CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & TECHNICAL (U)

1100 - 1299 ☐ PROGRAM AND MISSION INFORMATION (U)

☐ SYSTEM BACKGROUND INFORMATION (U)

<input type="checkbox"/> SYSTEM DEVELOPMENT MILESTONES/PHASES (U)	FY		FY		FY		FY		FY		FY	
	1	2	1	2	1	2	1	2	1	2	1	2
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												

☐ TEST PROGRAM AND MISSION INFORMATION/OBJECTIVES (U)

<input type="checkbox"/> ACTIVITY PLAN (U)	FY				FY				FY			
	1	2	3	4	1	2	3	4	1	2	3	4
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												

UDS FORM R 2
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 2

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1100-1199 PROGRAM AND MISSION INFORMATION

SYSTEM BACKGROUND INFORMATION: Enter a brief narrative description of the system, its purpose and employment, capabilities, and the significant technical characteristics. Explain briefly the operational characteristics of major components and the functional relationships between major components or subsystems of the complete system. Include a list of any documents which are sources of information on the system such as a Program Package Plan, Technical Development Plan, or Test and Evaluation Master Plan.

SYSTEM DEVELOPMENT MILESTONES/PHASES: On this chart, enter appropriate milestones/phases and government fiscal years and half-years. Use double-headed arrows and other appropriate symbols.

TEST PROGRAM AND MISSION INFORMATION/OBJECTIVES: Give a brief narrative description of the test program to be conducted. State the overall objectives and outline the major characteristics and important events of each phase.

ACTIVITY PLAN: Enter the numbers of vehicle launches, flights, or other test and recovery operations to be conducted during each FY quarter. Indicate whether these are captive flights, flyovers, gunnery, etc. Use double-headed arrows to indicate the time span expected to be covered by each phase of program activity such as facilities construction, flight or other test phases, etc.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

() CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & TECHNICAL (U)**1300 - 1399****() SYSTEM INFORMATION (U)****() VEHICLE OR MISSILE AND PAYLOAD INFORMATION (U)**VEHICLE OR MISSILE ☐
PAYLOAD ☐

() LENGTH	() MAX ACCEL
() DIAMETER	() CPE
() WIDTH	() SPIN RATE
() PROPUL SYS	() WT DRY
() GUID SYS	() WT LAUNCH
() LAUNCHER TYPE	() BO TIME
() EXPLOSIVE TYPE/CATEGORY	()

() OTHER VEHICLE OR MISSILE SYSTEM CHARACTERISTICS (U)**() TIME CORRELATED PERFORMANCE DATA (U)**

EVENTS

CHARACTERISTIC

UNIT

() ALTITUDE

() VELOCITY

() RANGE

() ACCELERATION

() TIME

() PAYLOAD DESCRIPTION (U)**1400 - 1499****() SYSTEM INSTRUMENTATION (U)****1500 - 1599****() REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)**UDS FORM R 3
MAY 77

CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 3

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1300-1399 SYSTEM INFORMATION

VEHICLE OR MISSILE AND PAYLOAD INFORMATION: Check the appropriate block to indicate whether the information pertains to the vehicle or missile or to the payload. Use the self explanatory spaces for entering the vehicle, missile, or payload characteristics requested, giving variable values in terms of design criteria. CEP is defined as Circular Error Probable. BO is defined as "burn-out" time of the launch vehicle. This information should describe a total vehicle. For multi-stage vehicles, furnish the applicable information for each stage on an added page. If more than one vehicle configuration is involved, give the additional descriptions on an added page. Use the blank space for giving physical and performance characteristics of test objects or devices not covered in the above table.

TIME CORRELATED PERFORMANCE DATA: Use for giving performance data relative to the typical trajectory described in Section 2100-2199 (UDS Form R 5). Select and enter, under UNIT, a scale for each performance characteristic which best suits the flight particulars (K, ft, fps, NM, G, sec.) Enter the appropriate event in the space provided. On the line TIME, enter appropriate cumulative increments of the selected unit of time in each of the columns. Opposite each listed flight characteristic, enter, in terms of the selected scales, the magnitude of performance occurring at each designated event. If other significant events occur, continue the additional performance data in tabular form on an added page.

PAYLOAD DESCRIPTION: Describe the type and functional characteristics of the payload. If other than a war-head; e.g., instrumented package, identify and indicate purpose of instruments. Describe any remote monitoring equipment employed or required.

SECTION 1400-1499 SYSTEM INSTRUMENTATION

List systems instrumentation which will emit and/or receive radio frequencies, such as transponders, beacons, command control systems, flight safety systems, or telemetry transmitters. Give types, power outputs, known or proposed frequency utilization, and types of antennas to be used.

SECTION 1500-1599 REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Briefly describe all systems or other instrumentation to be operated by the program in connection with test operations. Give antenna types, power outputs, and known or proposed frequency utilization.

NOTE: SELECT FROM UDS FORMS R 3, R 3A, R 3B, R 3C, OR R 3D THE FORM(S) WHICH MOST APPROPRIATELY PROVIDE(S) THE REQUIRED SYSTEM INFORMATION.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

☐ CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & 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+	T+	T+	T+	T+	T+	T+	T+	T+
<input type="checkbox"/> ALTITUDE															
<input type="checkbox"/> VELOCITY															
<input type="checkbox"/> RANGE															
<input type="checkbox"/> ACCELERATION															
<input type="checkbox"/>															

1400 - 1499

☐ SYSTEM INSTRUMENTATION (U)

1500 - 1599

☐ REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)



Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 3A.

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R-1 for security marking guidance.

SECTION 1300-1399 SYSTEM INFORMATION

TARGET SYSTEM INFORMATION: Use the self-explanatory spaces for entering the target characteristics requested. Target Auxiliary Systems (TAS) is to be filled in for those target programs conducted in conjunction with programs requiring the target. It should be defined in terms of ECM, IR, scoring systems, special control systems, and/or seeker simulations. If more than one configuration of the target system is to be utilized or tested, give the additional descriptions on an added page. Use the blank space for giving physical and performance characteristics of the target for which the information in the table is applicable.

TIME CORRELATED PERFORMANCE DATA: Give performance data relative to the test envelope information given in Section 1700-1799 (UDS Form R 4), and for which measurement requirements are stated in Section 2100-2199 (UDS Form R 5). Select and enter, under UNIT, a scale for each performance characteristic which best suits the flight particulars (K, ft, kps, NM, etc). The vertical columns represent times (T) referenced to a particular time during the operation (i.e., T+4 mins, where T is the separation of the target from the mother ship). Opposite each listed flight characteristic, enter, in terms of the selected scales, the magnitude of performance occurring at each designated point.

SECTION 1400-1499 SYSTEM INSTRUMENTATION

List systems instrumentation which will emit and/or receive radio frequencies, such as transponders, beacons, command control systems, flight safety systems, or telemetry transmitters. Give types, power outputs, known or proposed frequency utilization, and types of antennas to be used.

SECTION 1500-1599 REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Briefly describe all systems or other instrumentation to be operated by the program in connection with test operations. Give antenna types, power outputs, and known or proposed frequency utilization.

NOTE: SELECT FROM UDS FORMS R 3, R 3A, R 3B, R 3C, OR R 3D THE FORM(S) WHICH MOST APPROPRIATELY PROVIDE(S) THE REQUIRED SYSTEM INFORMATION.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

() CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & 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)

UDS FORM R 38
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 3B

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1300-1399 SYSTEM INFORMATION

AIRCRAFT SYSTEM INFORMATION: Check whether the aircraft is manned or unmanned. Use the self-explanatory spaces for entering the aircraft characteristics requested, giving variable values in terms of design criteria. If more than one aircraft system configuration is involved, give the additional description(s) on an added page.

OTHER INFORMATION: Give a description of the operation to be performed and a description of the onboard systems/sensors which will be tested during the aircraft operation(s). Also provide aircraft logistics information such as the type of aircraft, physical dimensions, etc.

SECTION 1400-1499 SYSTEM INSTRUMENTATION

List systems instrumentation which will emit and/or receive radio frequencies, such as transponders, beacons, command control systems, flight safety systems, or telemetry transmitters. Give types, power outputs, known or proposed frequency utilization, and types of antennas to be used.

SECTION 1500-1599 REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Briefly describe all systems or other instrumentation to be operated by the program in connection with test operations. Give antenna types, power outputs, and known or proposed frequency utilization.

NOTE: SELECT FROM UDS FORMS R 3, R 3A, R 3B, R 3C, OR R 3D THE FORM(S) WHICH MOST APPROPRIATELY PROVIDE(S) THE REQUIRED SYSTEM INFORMATION.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

☐ CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & 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)

UDS FORM R 3C
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 3C

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1300-1399 SYSTEM INFORMATION

ELECTRONIC/ELECTRO-OPTICAL SYSTEM INFORMATION: Use the spaces for entering the system characteristics requested, giving variable values in terms of design criteria. Use added pages as necessary to cover all modes of operation of the system.

SYSTEM OPERATING PARAMETERS AND CHARACTERISTICS: Give other pertinent characteristics and physical description of the system. For electronic systems, typical parameters would be:

Transmitter - peak power, pulse width, center frequency

Receiver - IF frequencies, bandwidth, sensitivity

Antennas - gain, beam width, polarization, angle track and coverage, scan rate/pattern

For electro-optical systems, typical parameters would be:

Laser - wavelength, beam divergence, power/energy, beam diameter, pulse width and PRF

Receiver - optical characteristic, sensitive wavelengths, field of view

SECTION 1400-1499 SYSTEM INSTRUMENTATION

List systems instrumentation which will emit and/or receive radio frequencies, such as transponders, beacons, command control systems, flight safety systems, or telemetry transmitters. Give types, power outputs, known or proposed frequency utilization, and types of antennas to be used.

SECTION 1500-1599 REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Briefly describe all systems or other instrumentation to be operated by the program in connection with test operations. Give antenna types, power outputs, and known or proposed frequency utilization.

NOTE: SELECT FROM UDS FORMS R 3, R 3A, R 3B, R 3C, or R 3D THE FORM(S) WHICH MOST APPROPRIATELY PROVIDE(S) THE REQUIRED SYSTEM INFORMATION.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

☐ CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & TECHNICAL (U)

1300 - 1399

☐ SYSTEM INFORMATION (U)

1400 - 1499

☐ SYSTEM INSTRUMENTATION (U)

1500 - 1599

☐ REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT (U)

UDS FORM R 3D
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 3D

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1300-1399 SYSTEM INFORMATION

Use this form to provide information for systems not included on UDS Forms R 3, R 3A, R 3B, or R 3C.

SECTION 1400-1499 SYSTEM INSTRUMENTATION

List systems instrumentation which will emit and/or receive radio frequencies, such as transponders, beacons, command control systems, flight safety systems, or telemetry transmitters. Give types, power outputs, known or proposed frequency utilization, and types of antennas to be used.

SECTION 1500-1599 REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Briefly describe all systems or other instrumentation to be operated by the program in connection with test operations. Give antenna types, power outputs, and known or proposed frequency utilization.

NOTE: SELECT FROM UDS FORMS R 3, R 3A, R 3B, R 3C, or R 3D THE FORM(S) WHICH MOST APPROPRIATELY PROVIDE(S) THE REQUIRED SYSTEM INFORMATION.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI NO _____

REVISION DATE _____

PI DATE _____

☐ CATEGORY 1 (1000 - 1999) PROGRAM INFORMATION, ADMINISTRATIVE & 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)

UDS FORM R 4
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 4

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 1600-1699 SYSTEM READINESS PROCEDURES/TESTS

List the major events (procedures, tests) that will be performed in the overall test sequence. Show the nominal time that each major event will commence, referenced to a designated time. Give the time duration of the event and the amount of support agency time that will be required.

SECTION 1700-1799 TEST ENVELOPE INFORMATION

For the maximum, nominal, and minimum spaces, indicate the known or probable values of the characteristics requested. On scoring ranges, the initial conditions of weapons release is required. In the blank space, describe the typical ground plane view of the space over the range and the release/test/firing altitudes within which the test will be conducted. Describe any critical measurement requirements during the test which will differ significantly from those given in Section 2100-2199 (UDS Form R 5) for the typical/nominal tests and for identifying the launch/release sites or areas if known. Describe any other test envelope information pertinent to this section that will provide the support agency with support requirements. List each in a sequentially numbered paragraph.

SECTION 1800-1899 OPERATIONAL HAZARDS

List project materials, items, or test conditions which will present hazards to personnel or material through toxicity, combustion, blast, acoustics, fragmentation, electromagnetic radiation, radioactivity, ionization, or other means. Describe any residual radiation, toxic, explosive, or ionization problems which will or could accumulate as a result of this test.

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☐ CATEGORY 2 & 3 (2999 2000 - 3999) TEST /MISSION OPERATIONAL 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		
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									

☐ OTHER

2200 - 2299

☐ TELEMETRY MEASUREMENTS AND DATA REQUIREMENTS (U)

2300 - 2399

☐ COMMAND CONTROL/DESTRUCT REQUIREMENTS (U)

UDS FORM R 5
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 5

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 2000-2099 TEST OPERATIONAL CONCEPTS/SUMMARIES

Use this space to describe the test operational concepts or to provide a summary of operational aspects of the test which will make the information in Categories 2 and 3 more meaningful.

SECTION 2100-2199 METRIC MEASUREMENTS AND DATA REQUIREMENTS

Enter the measurement requirements as they relate to the typical test described in Section 1700-1799 (UDS Form R 4). On the line for UNIT, enter appropriate measurement units, i.e. feet, meters, feet/second, degrees, etc. In the column TEST PHASE, list the segments of the trajectory or test phase in which different measurements or precisions are required. Segments may be described as intervals between events or in terms of time or range. For example, Launch-to-Booster Burn-out (or T-0 to T+6 sec, or Launch to 1,000 ft). Opposite the applicable segment, enter the quantitative tolerance representing the minimum essential accuracy of final reduced data required for each performance parameter. Each requirement should be a statement of what is actually needed. No attempt should be made to state tolerances for one type of data based on tolerances given for another. If a specific measurement is not required during any particular interval, enter NR. The untitled columns at the right may be used for other performance parameters such as roll rate, miss-distance. Provide supplemental sheets showing geometric or polar plots of test scenario, if available. Use the blank space for narrative requirements not covered above.

SECTION 2200-2299 TELEMETRY MEASUREMENTS AND DATA REQUIREMENTS

List general requirements for data receiving and recording. Give types of recordings desired, e.g., magnetic tape, paper records.

SECTION 2300-2399 COMMAND CONTROL/DESTRUCT REQUIREMENTS

List functions to be performed through the support agency command control system and give the associated function codes. Where applicable, information should comply with IRIG standards for radio command control.

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REVISION DATE _____

PI DATE _____

☐ CATEGORY 2 & 3 (2000 - 3999) TEST/MISSION OPERATIONAL 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)

UDS FORM R 6
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CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 6

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 2400-2499 AIR/GROUND VOICE COMMUNICATIONS REQUIREMENTS

This includes both air-air and air-ground communications. Specify use and number of links required and locations of operating terminals.

SECTION 2500-2599 COMPOSITE SYSTEM REQUIREMENTS

State requirements for support of systems such as unified S-band or recording systems. Give purpose, time periods of coverage required, locations, frequencies and state whether the system(s) will be provided by the user or the support agency.

SECTION 2600-2699 OTHER SYSTEM REQUIREMENTS

List requirements for support of other special instrumentation not covered elsewhere. Give purpose, time periods of coverage required, locations, frequencies and state whether the system(s) will be provided by the user or the support agency.

SECTION 2700-2799 GROUND COMMUNICATIONS REQUIREMENTS

Give types, amounts, purpose and locations of terminals for test inter-communications, telephone, and voice recordings.

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PI DATE _____

☐ CATEGORY 2 & 3 (2000 - 3999) TEST/MISSION OPERATIONAL REQUIREMENTS (U)

2800 - 2899

☐ OTHER COMMUNICATIONS REQUIREMENTS (U)

☐ TELEVISION

☐ TIMING

☐ OTHER

3000 - 3099

☐ REAL TIME DATA DISPLAY AND CONTROL REQUIREMENTS (U)

UDS FORM R 7
MAY 77



CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 7

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 2800-2899 OTHER COMMUNICATIONS REQUIREMENTS

TELEVISION: Give locations and indicate types and size of subjects to be viewed and whether night operations will be required.

TIMING: Give the letter-numerical designations of IRIG timing signals required and types of user's recording instruments. Where applicable, specify the timing correlation required for each station providing support.

OTHER: List other communications requirements not covered elsewhere, i.e., sequencers, count-down indicators, etc.

SECTION 3000-3099 REAL TIME DATA DISPLAY AND CONTROL REQUIREMENTS

State requirements for data assessment and command generation, software development, and whether support agency/user interface solutions will be required. Give locations and types of displays required.

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☐ CATEGORY 2 & 3 (2000 - 3999) TEST/MISSION OPERATIONAL REQUIREMENTS (U)

3100 - 3199

☐ PHOTOGRAPHIC REQUIREMENTS (U)

☐ DOCUMENTARY

☐ ENGINEERING

3200 - 3299

☐ METEOROLOGICAL REQUIREMENTS (U)

3300 - 3399

☐ RECOVERY REQUIREMENTS (U)

UDS FORM R 8
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CLASSIFICATION

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 8
PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 3100-3199 PHOTOGRAPHIC REQUIREMENTS

DOCUMENTARY: Indicate sizes and types of film desired and general types of subjects to be covered.

ENGINEERING: State events and/or intercept measurement requirements referenced to elapsed time from a designated time (T).

SECTION 3200-3299 METEOROLOGICAL REQUIREMENTS

State location and types of forecasts and observations required and time in days or hours before or after operations that the information will be needed.

SECTION 3300-3399 RECOVERY REQUIREMENTS

Give names, types, weights, dimensions, disposition instructions, and security classifications of items or components to be recovered.

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PI DATE _____

☐ CATEGORY 2 & 3 (2000 - 3999) TEST/MISSION OPERATIONAL 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)

UDS FORM R 9
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PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 9

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 3400-3499 OTHER TECHNICAL SUPPORT REQUIREMENTS

RANGE SHIPS AND AIRCRAFT: State only types and purposes of support agency ships or aircraft needed by the user to carry out tests. Do not specify ships or aircraft employed at the option of the support agency for test data acquisition. Do not include sea or air transportation requirements.

TARGETS: Indicate requirements for support agency-furnished targets. Give types, common names, whether moving or stationary, environment in which target(s) will operate (water, air, space, land), documentation required and purpose of use. Specify any special requirements/capabilities required of the target. State if the target should be camouflaged or bunkered and explain any unique or special requirements for camouflaging, bunkering, or construction.

FREQUENCY CONTROL: Provide planned frequency usage by megahertz, type of emission, bandwidth, and power output. State the purposes for which each frequency will be used and explain any special monitoring requirements.

MISCELLANEOUS: State requirements for other types of technical support not covered elsewhere such as geodetics and target acquisition data.

SECTION 3500-3599 MEDICAL REQUIREMENTS

Enter general medical requirements, medical personnel, or medical equipment and facilities required to support the program/mission or test.

SECTION 3600-3699 PUBLIC AFFAIRS

Enter general information concerning public affairs services needed from the support agency.

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PI NO _____

REVISION DATE _____

PI DATE _____

☐ CATEGORY 4 (4000 - 4999) COORDINATE SYSTEMS/DATA PROCESSING AND DISPOSITION REQUIREMENTS (U)

4000 - 4099

☐ COORDINATE SYSTEMS DESCRIPTION (U)

4100 - 4199

☐ DATA PROCESSING (U)

4200 - 4299

☐ DATA DELIVERY AND DISPOSITION REQUIREMENTS (U)

DATA CATEGORY	DATA TYPE					
()						
()						
()						
()						
()						
()						

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PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 10

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 4000-4099 COORDINATE SYSTEMS DESCRIPTION

Provide a description of the rectangular or curvilinear coordinate system(s) required and give the origin and orientation of the major axes. If origin is defined with respect to an event, give an alternate for use if the designated event does not occur or is not identifiable in data records.

SECTION 4100-4199 DATA PROCESSING

Indicate data presentations desired, e.g., plotted, tabular, magnetic tape, etc.

SECTION 4200-4299 DATA DELIVERY AND DISPOSITION REQUIREMENTS

At the top of each column, enter the appropriate data type such as position, velocity, roll, telemetry, etc. In the column marked DATA CATEGORY, enter the appropriate data category from the table below. Under the data type and opposite the data category, show the time after the test(s) in minutes (M), hours (H), or working days (WD) that the different categories of data will be required.

<u>Data Category</u>	<u>Definitions</u>
FINAL DATA	Test Data to which all known or User-requested corrections have been applied and no further processing is anticipated
IN-TEST DATA	Test Data acquired and processed during the conduct of a test
ON-LINE DATA	In-Test Data delivered immediately after the test
POST-TEST DATA	Test Data which normally requires additional effort after the test to produce
PRELIMINARY DATA	Test Data which normally has been partially corrected and is subject to additional correction
PRE-TEST DATA	Any data acquired and/or processed prior to start-of-test
RAW DATA	Test Data which has not been corrected
REAL-TIME DATA	In-Test Data available in useable form in time for use to affect the conduct of the test or to monitor the test in progress

Use the additional space for a description of other data delivery requirements.

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PI NO _____

REVISION DATE _____

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



Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 11

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 5100-5199 PERSONNEL ASSIGNMENT SCHEDULES

List the major locations, including off-agency sites, at which project personnel will be assigned. For each site, list each category of personnel (military officer, military enlisted, civil service, contractor). Enter the expected peak strength of each category at each site in the appropriate quarter-year spaces, showing permanent party (P) and transients (T) separately. Enter any other pertinent personnel assignment information in the space provided.

SECTION 5200-5299 TRANSPORTATION REQUIREMENTS

Include intra-range air, ground, and water transportation of personnel and cargo in direct support of program test operations.

SECTION 5300-5399 SUPPLY/STORAGE/SERVICE REQUIREMENTS

SECURITY: Include clearance and entry, classified storage, perimeter guards, police, and traffic control requirements.

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REVISION DATE _____

PI DATE _____

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

5300 - 5399

☐ SUPPLY/STORAGE/SERVICE REQUIREMENTS (U)

☐ FIRE PROTECTION

☐ UTILITIES

☐ WAREHOUSING & STORAGE

☐ PROPELLANTS

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PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 12

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 5300-5399 SUPPLY/STORAGE/SERVICE REQUIREMENTS

FIRE PROTECTION: List all requirements for fire protection services.

UTILITIES: List requirements for electrical power, water, sanitary facilities, etc.

WAREHOUSING AND STORAGE: List requirements for general purpose indoor and outdoor storage; drum, tank, and magazine storage for items requiring temperature/humidity control or refrigeration; and for flammable, explosive, toxic, or radioactive material.

PROPELLANTS: List requirements for liquid and solid missile propellants, gases, and chemicals.

Date: 6-77

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PI NO _____

REVISION DATE _____

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)

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MAY 77



CLASSIFICATION

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PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 13
PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 5300-5399 SUPPLY/STORAGE/SERVICE REQUIREMENTS

FUELS AND LUBRICANTS: List requirements for aviation and automotive fuels (including diesel), engine lubricating oils, hydraulic fluids, preservatives, and solvents.

OTHER: List requirements for postal services, reproduction services, packing and crating, ground-handling, or other Base support services not covered elsewhere.

SECTION 5400-5499 LABORATORY REQUIREMENTS

State requirements for laboratory services such as physical and chemical analysis, environmental conditioning and structural testing. Do not include calibration requirements (list them in Section 6000-6099, UDS Form R 15).

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CLASSIFICATION

PI NO _____

REVISION DATE _____

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:



Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 14

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 5500-5599 MAINTENANCE SUPPORT REQUIREMENTS

State requirements for maintenance and repair services (exclusive of calibratable equipment). Include requirements for shop services such as sheet metal fabrication, carpentry, painting, welding, and machining.

SECTION 5600-5699 FACILITIES REQUIREMENTS

FACILITIES GENERAL: List the types and locations of facilities required such as office space, blockhouses, warehouses, missile assembly buildings, checkout pads, loading ramps, and hangars. In units of 1,000 square feet, enter the net usable space required for each type in the applicable fiscal half-year. Include with the space requirement the estimated number of occupying personnel, e.g., 2.5/16. Use the additional space provided for requirements not covered in the table.

FACILITIES (LAUNCH OR TEST PLATFORM): Give the type and overall dimensions of the launch pad/platform and describe the required characteristics, such as the type of construction, special instrumentation, special power and coolants. Give the type, weight, and dimensions of the platform. If new construction is required, describe any proposed division of responsibility between the **user** and the support agency. If the **user** has a preference of platform location, state the preference here. Platform location will be assigned with considerations given the user's preference, available support capabilities, and future commitments. Include equipment required of the support agency for the platform and also the equipment which will be provided by the **user**.

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PI NO _____

REVISION DATE _____

PI DATE _____

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

6000 - 6099

☐ OTHER SUPPORT REQUIREMENTS (U)

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PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 15

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

SECTION 6000-6099 OTHER SUPPORT REQUIREMENTS

Use this space for stating support requirements not provided for elsewhere, e.g., calibration and maintenance of equipment.

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PI NO _____

REVISION DATE _____

PI DATE _____

REQUIREMENTS FOR SUPPORT AGENCIES

1. FROM

3. FOR THE REQUESTING SUPPORT AGENCY

SIGNATURE _____ DATE _____
NAME & TITLE

2. TO

4. PAGE/PAR

5.

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CLASSIFICATION

PI ATTACHMENT 1

PI PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT--UDS FORM R 16

PI ATTACHMENT 1

REQUIREMENTS FOR SUPPORT AGENCIES

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

BOX 1: Enter the name of the support agency imposing the requirement.

BOX 2: Enter the name of the support agency to which the derivative requirements are addressed.

BOX 3: Enter the authenticating signature by the representative of the agency imposing the requirement.

BOX 4: Enter the page/paragraph number applicable to the subject matter to be entered in Box 5, e.g., 5/2200 (Telemetry Measurements and Data Requirements).

BOX 5: Enter the requirements in this box in two categories: User's Stated Requirements and Derivative Requirements. Enter all user requirements first and then the Derivative Requirements. Within each category, list requirements in page/paragraph sequence as specified by the system structure. Page/paragraph numbers in Box 4 identifying Derivative Requirements are to be preceded with the letter D, e.g., D-2200.

Date: 6-77

REVISION NO _____

CLASSIFICATION

PI/SC NO _____

REVISION DATE _____

PI/SC DATE _____

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CLASSIFICATION

PI/SC PAGE _____

Date: 6-77

PROGRAM INTRODUCTION (PI) DOCUMENT/STATEMENT OF CAPABILITY (SC)--UDS FORM R/S 17

PREPARATION INSTRUCTIONS

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form R 1 for security marking guidance.

Use this form for notes, remarks, sketches, or diagrams which may be needed to supplement or extend information or requirements as stated in the PI or SC.

If the page is inserted in the basic PI, enter a page number one decimal higher than the preceding page number, e.g., 3.1. If the page is added at the end of the basic PI, enter the next page number on the first added page and continue the page numbers in sequential order, e.g., 18, 19, 20, etc. Use whichever method (inserting or adding pages) that makes the PI more understandable.

Identify each entry in the body of the form by preceding the information with the number and title of the box in the basic PI or SC from which the entry is an extension or continuation.

Date: 6-77

SECTION 5

STATEMENT OF CAPABILITY (SC) PREPARATION INSTRUCTIONS

5.1 GENERAL

The fundamental purpose of the SC is to provide a response to the user's PI. The PI, in combination with the approved SC, forms a basic agreement between the user and the support agency and guides the more detailed planning directive to support organizations. It also will serve the following additional purposes:

- The support agency management approval date of the SC may be used in applying funding provisions of current funding policy directives.
- The SC may assign existing facilities such as launch complexes, office space, assembly and storage areas, available to meet a requirement as stated in the PI. If new construction by the user is involved, the SC may provide site approval by the support agency.
- When the capability of the support agency will not meet the requirements stated in the PI, the SC will specify such restraints and limitations.

5.2 FORM IDENTIFICATION

Each form within the UDS is individually identified on the lower left margin in the following manner:

UDS FORM
(Date of Approval)

Form numbers from S 1-S 99 are reserved for the SC and are assigned as the forms are approved. The SC forms are further identified with the notation SC PAGE _____ in the lower right hand margin. The pages will be numbered consecutively upon SC preparation. (Note: UDS Form R/S 17 is a multi-purpose general form and may be used to supplement or extend information or requirements in the PI or SC.)

5.3 REPRODUCTION

Refer to section 4.4 of this volume.

5.4 PREPARATION INSTRUCTIONS

The following pages contain samples of the SC forms and preparation instructions.

Date: 6-77

REVISION NO _____

CLASSIFICATION

ANSWERS PI NO _____

REVISION DATE _____

REV NO _____ DATED _____

STATEMENT OF CAPABILITY

1. SC DATE

2. SC NO

3. () PROGRAM TITLE (U)

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 _____ DATE _____ () () ()
NAME AND TITLE

SIGNATURE _____ DATE _____ () () ()
NAME AND TITLE

APPROVAL

SIGNATURE _____ DATE _____ () () ()
NAME AND TITLE

7. [] STATEMENT OF RESPONSIBILITIES—REQUESTING/SUPPORT AGENCIES (U)

() ADDITIONAL DOCUMENTATION REQUIRED (U)



Date: 6-77

STATEMENT OF CAPABILITY (SC)--UDS FORM S 1

PREPARATION INSTRUCTIONS



GENERAL

The originator is responsible for the proper security classification, grouping, and marking of the SC.

On this form, enter the highest classification of the SC in the blocks at the top and bottom. On subsequent SC forms, enter the highest classification of the information on that form in the blocks at the top and bottom.

The parenthetical markings at the beginning of the various sections or paragraphs or at the end of each subject or title are to be used to insert the appropriate symbols to denote the classification of that specific item. These markings are required on all documents containing classified information by DOD Regulation 5200.1R.

If this is a revision to the basic document, enter the revision number and revision date.

NOTE: If additional space is required in any section or box, use UDS Form R/S 17.

BOX 1: Enter the date of the basic document.

BOX 2: Enter the SC number.

BOX 3: Enter the program title.

BOX 4: Enter the accepted or official UNCLASSIFIED short title.

BOX 5: Enter the items of information listed. Enter the name of the requesting agency. The contractors named should be the prime contractors for the program. BEGINNING, FIRST TEST, and COMPLETION DATES should be those shown in the PI unless subsequently changed. The lead support agency is the support agency having prime responsibility for integrating all support. The lead support agency representative is the Program Manager, Project Engineer, Project Monitor, or other individual assigned responsibility for coordinating program support. A support agency is an organization that provides support to a requesting agency's requirements. Enter the agencies providing support. Test site is the launch complex or test area assigned to the program. Enter the priority assigned to the program.

BOX 6: These signature blocks are for use, as required, for management recommendations and/or approvals relative to the program. When signature blocks are used, the appropriate boxes should be checked to indicate whether the recommendation/approval is applicable to planning only, support of the requesting agency program requirements, or non-acceptance of the program for either planning or support.

BOX 7: Describe divisions of responsibility between the requesting agency and support agency which are not self-evident within the information content of the PI/SC or which involve deviations from policy; e.g., exceptions to normal responsibility for providing on-board instrumentation, exceptions to policy concerning disposition of original test data records. If the requesting agency will be required to provide funds in accordance with established policy, describe the circumstances and show the amounts involved. Indicate requesting agency responsibilities for providing additional information such as telemetry simulation tapes or theoretical trajectory tapes needed for flight safety considerations. Indicate what additional documentation the program will be required to submit.

Date: 6-77

REVISION NO _____

CLASSIFICATION

SC NO _____

REVISION DATE _____

SC DATE _____

1. (U) 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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()																				
()																				

() NOTES



Date: 6-77

STATEMENT OF CAPABILITY (SC)--UDS FORM S 2

PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form S 1 for security marking guidance.

If additional space is required in any section or box, use UDS Form R/S 17.

BOX 1: Enter the UNCLASSIFIED program short title.

BOX 8: If there are stated requirements which the support agency is incapable of supporting, check the appropriate box and explain the support restraints and any related actions. If the support agency plans, or is in the process of developing capability to relieve a restraint, describe the action and refer to the status chart in Box 8, if applicable.

BOX 9: List support agency actions, such as instrumentation development and/or procurement, installation, and facilities construction which are planned for the relief of any support restraint described in Box 8. On the time chart, indicate target dates, completion dates, or other significant milestones. Use the blank space for defining symbols used on the chart or other explanatory notes concerning the actions listed.

Date: 6-77

REVISION NO _____

REVISION DATE _____

CLASSIFICATION

SC NO _____

SC DATE _____

1. (U) PROGRAM SHORT TITLE

2. PAGE/PAR

3. () INFORMATION/SUPPORT PLAN (U)

UDS FORM S 3
MAY 77



CLASSIFICATION

SC PAGE _____

Date: 6-77

STATEMENT OF CAPABILITY (SC)--UDS FORM S 3
PREPARATION INSTRUCTIONS

GENERAL

Enter the date of the basic document. If this is a revision to the basic document, enter the revision number and the revision date.

Enter the highest security classification of information appearing on this page. Refer to the instructions for UDS Form S 1 for security marking guidance.

Use this form for notes, remarks, sketches, and diagrams which may be needed to supplement or extend information on UDS Forms S 1 and S 2.

If this page is inserted in the basic SC, enter a page number one decimal higher than the preceding page number, e.g., 3.1. If the page is added at the end of the basic SC, enter the next page number on the first added page and continue the page numbers in sequential order, e.g., 4, 5, 6, etc. Use whichever method (inserting or adding pages) that makes the SC more understandable.

BOX 1: Enter the UNCLASSIFIED program short title.

BOX 2: Enter the page/paragraph number applicable to the subject matter to be entered in Box 3, e.g., 8/2200.

BOX 3: Enter information and support plans as applicable.

Date: 11-79

APPENDIX A

SOURCES OF UDS FORMS AND DOCUMENTS

Prospective users of the Universal Documentation System may obtain documents and assistance in their preparation from the agencies listed below.

Commanding General
ATTN: Range Programs Division (NR-P)
White Sands Missile Range, New Mexico 88002

Commanding General
Ballistic Missile Defense Systems Command
Kwajalein Range Directorate (BMDSC-R)
Post Office Box 1500, West Station
Huntsville, Alabama 35807

Commander, Pacific Missile Test Center
ATTN: Range Management Office (Code 3020)
Point Mugu, California 93042

Commander, Eastern Space and Missile Center
ATTN: Directorate of Plans, Programs and Requirements (XR)
Patrick Air Force Base, Florida 32925

Commander, Western Space and Missile Center
ATTN: Programs Division (ROP)
Vandenberg Air Force Base, California 93437

Commander, Air Force Flight Test Center
ATTN: Programs and Requirements (TEUP)
Edwards Air Force Base, California 93523

Commander, Tactical Fighter Weapons Center
ATTN: 554th Range Group (DOA)
Nellis Air Force Base, Nevada 89191

National Aeronautics and Space Administration
John F. Kennedy Space Center
ATTN: NASA Test Support Office (NTS)
Kennedy Space Center, Florida 32899

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APPENDIX B

UDS DOCUMENT OUTLINE - DETAIL

The UDS described in Volumes 1, 2 and 3 is structured by a common document outline. This outline and common numbering system prescribes the section, page, or paragraph numbers assigned within the applicable UDS document. The following UDS outline details the document structure. Outline content applicable to requirements and/or support documentation is indicated by an "R" or "S" as appropriate. Further documentation detail and instructions for UDS Level 2 and Level 3 documents are contained in Volumes 2 and 3 of this handbook.

CATEGORY 1

PROGRAM INFORMATION ADMINISTRATIVE AND TECHNICAL (1000 to 1999)

ADMINISTRATIVE

R/S	1000	-Administrative - General
R/S	1010	-Approval Authority
R/S	1020	-Distribution List
R/S	1030	-Revision Approval
R/S	1031	-Revision Control
R/S	1032	-Security and Revision Control
R/S	1040	-Index of UDS Forms and Document Outline
R/S	1050	-Program/Mission Security Information
R/S	1052	-System Security Classification
R/S	1054	-System Security Classification Matrix
R/S	1056	-Security Authorization
R/S	1060	-Preface
R/S	1061	-Special Abbreviations and Nomenclature
R/S	1062	-Test Code Definition
R/S	1063	-Item Number Definition
R/S	1064	-Key Technical Personnel
R/S	1065	-Technical References

PROGRAM/MISSION INFORMATION

R/S	1100	-Program Description - General
R/S	1110	-Experiments Description
R	1120	-System Mission Capabilities
R	1125	-System Functional Description
R	1130	-Mission/Test Description
R	1131	-Mission/Test Objectives
R/S	1140	-Test Program Operations Schedule

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VEHICLE & PAYLOAD (SYSTEM) INFORMATION

R 1300 -Space Vehicle Description - General

Launch Vehicle

R 1310 -Description
R 1311 -Characteristics
R 1312 -Drawing
R 1313 -Ordnance Items Description
R 1314 -Ordnance Items Drawing
R 1315 -Flame Plasma Model of the Exhaust Plume

Spacecraft/Payload

R 1320 -Description
R 1321 -Characteristics
R 1322 -Drawing
R 1323 -Ordnance Items Description
R 1324 -Ordnance Items Drawing
R 1325 -Flame Plasma Model of the Exhaust Plume

VEHICLE (SYSTEM) INSTRUMENTATION

R 1400 -Vehicle Instrumentation Systems - General
R/S 1405 -Frequency Utilization Summary

Vehicle Metric Tracking Systems

R 1410 -Operating Description
R 1411 -Transponder Characteristics
R 1412 -Antenna Systems
R 1413 -Diagram

Vehicle Telemetry Systems

R 1420 -Operating Description
R 1421 -Characteristics
R 1422 -Antenna Systems
R 1423 -Diagram
R 1424 -Analog Channel Description
R 1425 -Digital Format
R 1426 -Data Recorder Characteristics

Vehicle Command Systems

R 1430 -Operating Description
R 1431 -Characteristics
R 1432 -Antenna Systems
R 1433 -Diagram

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VEHICLE (SYSTEM) INSTRUMENTATION (continued)

Vehicle Voice Communications Systems

R 1440 -Operating Description
R 1441 -Characteristics
R 1442 -Antenna Systems
R 1443 -Diagram

Vehicle Composite Systems

R 1450 -Operating Description
R 1451 -Characteristics
R 1452 -Received Data Characteristics
R 1453 -Transmitted Data Characteristics
R 1454 -Antenna Systems
R 1455 -Diagram
R 1456 -Operating Modes
R 1457 -Data Recorder Characteristics

Launch Vehicle Television Systems

R 1460 -Operating Description
R 1461 -Characteristics
R 1462 -Antenna Systems
R 1463 -Format Description

Spacecraft/Payload Television Systems

R 1465 -Operating Description
R 1466 -Characteristics
R 1467 -Antenna Systems
R 1468 -Format Description

Other Vehicle Systems

R 1470 -Recovery Location Aids
R 1480 -Vehicle Systems - Other

REQUESTING AGENCY'S SUPPORT INSTRUMENTATION/EQUIPMENT

Requesting Agency's Instrumentation

R 1500 -General
R 1510 -Characteristics

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SYSTEM READINESS PROCEDURES/TESTS

Prelaunch Test

R	1600	-General
R	1610	-Identification
R	1620	-Sequence
R	1630	-Terminal Countdown

TEST ENVELOPE INFORMATION

R	1700	-Test Envelope Information - General
R	1710	-Major Mission Events - Launch Phase
R	1711	-Major Mission Events - Flight
R	1712	-Space Maneuver - Application of Thrust

Trajectory Data

R	1720	-Plan Views
R	1721	-Profile Views
R	1722	-Launch
R	1723	-Orbital and Space
R	1724	-Terminal

OPERATIONAL HAZARDS

R/S	1800	-Operational Hazards - General
R	1810	-Operational Hazards - Reports

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CATEGORY 2 AND 3

TEST/MISSION OPERATIONAL REQUIREMENTS (2000 TO 3999)

TEST OPERATIONAL CONCEPTS/SUMMARIES

R/S	2000	-Test Operational Concepts - General
R/S	2010	-Ground Support Instrumentation Summary
S	2020	-Summary Support Plan
S	2030	-Support Commitments
S	2040	-Funding Information
S	2050	-Implementation Schedule
S	2051	-Personnel Assignment Schedule
S	2060	-Support Requirements Which Cannot Be Met
S	2070	-Engineering Plan
S	2071	-Engineering Plan - Alternate
S	2080	-Requester's Responsibilities
S	2098	-Flight Safety Operational Concepts
S	2099	-Range-Derived Requirements

METRIC MEASUREMENT AND DATA

Metric Data

R/S	2100	-General
R/S	2110	-Launch
R/S	2111	-Midcourse
R/S	2112	-Orbital and Space
R/S	2113	-(Blank)
R/S	2114	-Terminal
R/S	2115	-Signature
R/S	2116	-Other
R/S	2117	-Accuracies
R/S	2120	-Parameter Recordings
R/S	2130	-Network Coverage
R/S	2160	-Coverage
R/S	2170	-Engineering Sequential

TELEMETRY MEASUREMENT AND DATA

Telemetry

R/S	2200	-Data General
R/S	2210	-Recording Interval
R/S	2220	-Analog Strip Chart Recording Format
R/S	2230	-Event Recording Format
R/S	2240	-Decommuration Processing Specifications
R/S	2260	-Coverage

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COMMAND CONTROL/DESTRUCT

Command

R/S 2300 -General
R/S 2310 -Control
R/S 2320 -Destruct
R/S 2330 -Up-Data Link
R/S 2340 -Up-Data Link Recordings
R/S 2360 -Up-Data Link Stations Coverage

AIR/GROUND VOICE COMMUNICATIONS

Air/Ground Voice Communications

R/S 2400 -General
R/S 2410 -Recordings
R/S 2460 -Coverage

COMPOSITE SYSTEMS

Composite Systems

R/S 2500 -General
R/S 2510 -Detail
R/S 2520 -Parameter Recordings
R/S 2530 -Event Recording Format
R/S 2540 -Analog Strip Chart Recording Format
R/S 2560 -Coverage

OTHER SYSTEMS

Other Systems

R/S 2600 -General
R/S 2605 -Support Instrumentation
R/S 2610 -Data
R/S 2660 -Coverage

GROUND COMMUNICATIONS

Ground Communications

R/S 2700 -General
R/S 2710 -Detail
R/S 2720 -Network Drawing
R/S 2730 -Network Transmission
R/S 2740 -Intercommunications Systems
R/S 2760 -Terminations
R/S 2770 -Recordings
R/S 2780 -Telephone

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OTHER COMMUNICATIONS

Other Communications

R/S	2800	-General
R/S	2805	-Television
R/S	2810	-Timing
R/S	2820	-Sequence
R/S	2830	-Visual Countdown and Status of Indicators

REAL-TIME DATA DISPLAY AND CONTROL

Real Time

R/S	3000	-Data - General
R/S	3010	-Control/Support Centers
R/S	3020	-Control Data Acquisition
R/S	3030	-Displays and Consoles
R/S	3031	-Displays
R/S	3032	-Console Command Panels
R/S	3033	-Console Analog Recorders
R/S	3034	-Console Drawings
S	3035	-Console Module Description
S	3036	-Summary of Console Locations
S	3037	-Summary of Console Module Locations
S	3038	-Data Displays and Consoles - Functional Block Diagram
S	3039	-Other Group Displays and Controls
R/S	3040	-Data Formats - General
R/S	3041	-Tracking Data Format Control
R/S	3042	-Telemetry Data Format Control
R/S	3043	-Telemetry Data Formats - Detail
R/S	3044	-Command Data Format Control
R/S	3045	-Remote Site Data Processing
R/S	3050	-Data Testing
R/S	3060	-Data Interfaces
R/S	3061	-Data Interface Criteria
R/S	3062	-Data Interface Criteria Drawings
R/S	3070	-Data Computer
R/S	3080	-Data Distribution

PHOTOGRAPHIC

Photographic

R/S	3100	-General
R/S	3110	-Detail

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METEOROLOGICAL

Meteorological

R/S	3200	-General
R/S	3210	-Minimum
R/S	3220	-Forecasts
R/S	3230	-Observations
R/S	3240	-Instrumentation Location Diagram
R/S	3250	-Space Environment
R/S	3260	-Consultant Services

RECOVERY

Recovery

R/S	3300	-General
R/S	3310	-Ships and Aircraft Coverage
R/S	3320	-Items To Be Recovered
R/S	3330	-Salvage and Disposition
R/S	3340	-Planned Areas
R/S	3350	-Contingency Areas
R/S	3360	-Abort Areas

OTHER TECHNICAL SUPPORT

Other Technical Support

R/S	3400	-General
R/S	3410	-Aircraft
R/S	3411	-Seacraft
R/S	3420	-Targets
R/S	3430	-Summary of Frequency Use/Protection
R/S	3440	-Geodetic and Gravitational Data
R/S	3450	-Training

MEDICAL

Medical

R/S	3500	-General
R/S	3505	-Bioscience
R/S	3510	-Personnel - Active
R/S	3520	-Personnel - Standby
R/S	3530	-Facility/Equipment

PUBLIC AFFAIRS

Public Affairs Services

R/S	3600	-General
R/S	3610	-Personnel Assignments
R/S	3620	-News Media Personnel Positions

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CATEGORY 4

COORDINATE SYSTEMS/DATA PROCESSING AND DISPOSITION (4000 TO 4999)

DATA PROCESSING

R/S 4100 -Data Computer Processing Specifications - General
R/S 4110 -Data Computer Processing Specifications - Detail
R/S 4160 -Data Processing

DATA DELIVERY AND DISPOSITION

R/S 4200 -Data Disposition - General
S 4201 -Data Availability
R/S 4205 -Data Reports
R/S 4210 -Data Disposition - Detail

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CATEGORY 5

BASE FACILITIES/LOGISTICS (5000 TO 5999)

Personnel Assignment Schedules

R/S 5100 -General
R/S 5110 -Detail
R/S 5120 -Housing

TRANSPORTATION

Transportation

R/S 5200 -General
R/S 5210 -Surface Logistics Schedule
R/S 5220 -Air Logistics Schedule

SUPPLY/STORAGE/SERVICE

Services

R/S 5300 -General
R/S 5310 -Propellants, Gases and Chemicals
R/S 5320 -Aircraft and Ground Vehicle Fuels
R/S 5330 -Miscellaneous Lubricants, Hydraulic Fluids,
Preservatives, Etc.
R/S 5340 -Vehicles and Ground Handling Equipment
R/S 5350 -Requesting-Agency Aircraft
R/S 5360 -Seacraft
R/S 5370 -Chemical Cleaning
R/S 5380 -Local Purchase or Base Funded Items

LABORATORY

Laboratory

R/S 5400 -General
R/S 5410 -Chemical and Physical Analysis
R/S 5420 -Special Environment

MAINTENANCE

Maintenance

R/S 5500 -General

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FACILITIES

Facilities

R/S	5600	-General
R/S	5610	-Drawings
R/S	5620	-Launcher and Platform Characteristics

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CATEGORY 6

OTHER SUPPORT (6000 TO 6999)

Other Support

R/S	6000	-General
R/S	6010	-Test Instrument Maintenance and Calibration
R	6020	-Requirements for Support Agencies