Acceptance Data Package Requirements Specification

International Space Station Alpha Program

Revision A October 26, 1994

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PREFACE

SSP 30695, International Space Station Alpha Program Acceptance Data Package Requirements Specification, establishes the minimum data required to accompany Space Station hardware or software deliveries/transfers (via Form DD 250, DD 1149, or equivalent form) to assist in rapid determination of hardware or software status by the using organization.

The contents of this document are intended to be consistent with the tasks and products to be prepared by Program participants. The ISSA Acceptance Data Package Requirements shall be implemented on all new ISSA contractual and internal activities and shall be included in any existing contracts through contract changes. This document is under the control of the Space Station Control Board, and any changes or revisions will be approved by the Program Manager.

SSCD 000123

01-11-95

Date

Program Manager International Space Station Alpha

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INTERNATIONAL SPACE STATION ALPHA PROGRAM

ISSA ACCEPTANCE DATA PACKAGE REQUIREMENTS SPECIFICATION

OCTOBER 26, 1994

CONCURRENCE

PREPARED BY:	M. Guina	24852
	PRINT NAME	ORGN
	/s/M. Guina	9–30–94
	SIGNATURE	DATE
CHECKED BY:	D. Buratti	24852
	PRINT NAME	ORGN
	/s/D. Buratti	9/30/94
	SIGNATURE	DATE
SUPERVISED BY (B	DEING): J. Martin	2–4852
	PRINT NAME	ORGN
	/s/J. Martin	9/30/94
	SIGNATURE	DATE
SUPERVISED BY (N	ASA): J. H. Taylor	OE
	PRINT NAME	ORGN
	/s/J. Harold Taylor	1/20/95
	SIGNATURE	DATE
DQA:	J. Prince	2–6640
	PRINT NAME	ORGN
	/s/J. Prince	94/10/03
	SIGNATURE	DATE

SPACE STATION PROGRAM OFFICE

ISSA ACCEPTANCE DATA PACKAGE REQUIREMENTS SPECIFICATION

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1.0 INTRODUCTION

To support hardware or software deliveries for the International Space Station Alpha (ISSA), specific data must be provided to the using organizations as defined herein. The accumulation of this data in a hardware and/or software package is known as the Acceptance Data Package (ADP).

This ADP provides a complete and verified status, including the as-built configuration, of hardware or software, contains information pertinent to acceptance, and enables the continuation of required activities by the using organization. The ADP is prepared as part of the hardware or software acceptance/delivery criteria and maintained throughout the hardware or software life cycle after government acceptance, including integrated testing, ground processing, launch site processing, on orbit, postlanding, and maintenance/modification/refurbishment activities.

1.1 PURPOSE

For hardware, this specification defines the minimum data required to accompany hardware delivery to a using organization and to establish the requirement for maintenance of this data by the organization having hardware custody.

For software, this specification defines the minimum data required to accompany software deliveries to a using organization via DD–250/1149 or equivalent form.

The data that makes up an ADP is required for assurance purposes and to facilitate integration, operational, or refurbishment/modification activities conducted by the organization receiving hardware or software custody.

1.2 SCOPE

For hardware, this specification applies to all hardware items designated as ISSA deliverable flight, Orbital Support Equipment, Flight Support Equipment, Ground Support Equipment (GSE), and associated spares, mod kits, and loose equipment.

For software, this specification applies to all ISSA software products (and to their approved changes) designated as operational software, which is defined as flight software and ground software that (1) interfaces with on–orbit elements in real–time or (2) is critical to the mission (such as all control center, test and certification software), including associated models and simulations and Software Support Environment (SSE) Software which interfaces with on–orbit elements in real–time or is critical to the mission. A software delivery may include one or more Computer Software Configuration Items (CSCIs), a release.

Historical data for each deliverable hardware item or software delivery, which may or may not be required at a later date, is retained by the contractor/NASA procuring center and is subject to recall when and if additional data is required by the using site.

The requirements for engineering design data, drawings, specifications, operations and maintenance documentation, logistic data, and other data required by the using organizations,

which are required to be submitted in advance of hardware or software item deliveries, are not addressed in this specification.

1.3 PRECEDENCE

This specification is the source for the definition of ADP requirements for all elements of the ISSA

2.0 APPLICABLE DOCUMENTS

The following documents of the date and issue shown include specifications, models, standards, guidelines, handbooks, and other special publications.

The documents in this paragraph are applicable to the extent specified herein. Inclusion of applicable documents herein does not in any way supersede the order of precedence specified in paragraph 1.3. The references show where each applicable document is cited in this document.

DOCUMENT NO.

TITLE

SSP 41170 23 March 1994	Configuration Management Requirements
ASME Section VIII–1971 Reference	ASME Code for Unfired Pressure Vessels Table 4.0–1
OSHA 29 CFR 1910.1200(G)	Occupational Safety and Health Standards, Hazard Communication, Material Safety Data Sheets
Reference	Table 4.0–1

3.0 REQUIREMENTS

An ADP, as defined in this specification, shall be prepared and made available at acceptance for each applicable hardware item or software delivery (reference paragraph 1.2). The ADP shall reflect the status of the hardware or software at the time of acceptance and shall be delivered concurrently with the hardware item or software delivery. The organization having custody of the hardware or software shall maintain the associated ADP data elements in an up–to–date status.

ADPs for all Space Station hardware deliveries, which includes government and/or prime acceptance, for turnover of ground processing, turnover for launch site processing, return for maintenance/modification/refurbishments, and intersite delivery between Product Groups shall conform to the requirements and provisions of this document.

ADPs for all Space Station operational software delivered for government and/or prime acceptance, which may consist of one or more CSCIs, a specified release/mass storage device image, shall conform to the requirements and provisions of this document.

The requirements contained herein shall apply to all hardware items or software deliveries which are being delivered to NASA by a contractor, subcontractor, or government organization using a DD–250/1149 (or equivalent form).

When a task (or contract) results in several end items, the requirements shall apply to each end item encompassed by the task and delivered to NASA using a DD–250/1149 (or equivalent form).

4.0 DELIVERABLE DATA

The ADP, consisting of the applicable data items specified in Table 4.0–1, Hardware Data Items/Elements, and Table 4.0–2, Software Data Items/Elements, as a minimum, shall be accumulated by the contractor/supplier or government agency during the fabrication/development and testing of each hardware or software deliverable. Updating of the appropriate data elements by the organization having custody of the hardware or software shall continue throughout integrated testing, ground processing, launch site processing, on–orbit, postlanding, and maintenance/modification/refurbishment activities.

The forms, format, and methods of recording (i.e., manual, computer, or combination thereof) to be included in the ADP are optional unless specified in the contract. In those cases where the manual method of recording is used for an initial or subsequent ADP data submission and where an electronic or computer version exists, the custodian/contractor is requested, but not required, to also submit the electronic version. However, the minimum data elements to be included for each applicable data item are mandatory and are specified under "Data Elements" for each corresponding data item (Tables 4.0–1 and 4.0–2). Examples of preferred formats containing the minimum data elements are provided in Appendix C, Hardware Acceptance Data Package Formats, and Appendix D, Software Acceptance Data Package Formats.

TABLE 4.0–1 HARDWARE DATA ITEMS/ELEMENTS (PAGE 1 OF 4)

DATA ITEMS	DATA ELEMENTS
Historical Log (Commencing with Acceptance Testing)/ Notes/Comments. Used for documenting events in chronological order to include acceptance, tests performed, rework, modification, etc. Also used for documenting details of any unusual phenomenon, occurrence, difficulty, or questionable condition during fabrication and testing; may also be used for referencing any potential hazards to personnel or equipment. In addition, this section may be used for other data which may be beneficial at the using organization (e.g., maintenance manual/firmware support manual, special handling/storage requirements, alignment data, weight and center of gravity data, proof load data, ding charts, etc.). A computerized printout may be used.	 a. Deliverable item name, part number, CAGE code, and serial number. b. Class (Flight of GSE). c. Specify location if special instructions are included. d. Date, Location, and Historical Event. e. Notes/comments as applicable.
Waiver/Deviation Record. Approved waivers and deviations to the contract and/or other requirements authorizing hardware use or variations as applicable to the physical/functional parameters of the item being delivered (i.e., form, fit, function).	 a. Deliverable item name, part number, CAGE code, and serial number. b. Waiver/Deviation number and affected item name, part number, CAGE code, and serial number. c. A copy of the actual waiver/deviation document with a detailed description and contract authority.
UA Record. Provide a record of any Unexplained Anomalies (UAs) noted during fabrication and/or testing and use of the deliverable hardware item.	 a. Deliverable item name, part number, CAGE code, and serial number. b. Nonconformance Report number index with a copy of the actual Nonconformance Report with detailed description, troubleshooting, acceptance rationale, and authority. c. Nonconformance item name, part number, and serial number.
Shortages. Identification of physical hardware shortages existing at the time of delivery and copy of inspection and test/retest requirements documentation received upon shortage installation.	 a. Deliverable item name, part number, and serial number. b. Part name, part number, and CAGE code of shortage item. c. Quantity short. d. Test procedure(s) and requirement paragraph number. e. Affected next-higher assembly part number and serial number.
Unplanned/Deferred Work. Unaccomplished fabrication, test, inspection, or installation activities remaining to be completed at time of acceptance and delivery because of parts shortages, lack of schedule time, etc., including open Material Review actions, open nonconformance reports, open recurrence control actions, unincorporated engineering changes, mod kits, and other open work applicable to the hardware being delivered and copy of inspection and test/retest requirements per appropriate documentation to complete Unplanned/Deferred Work.	 a. Deliverable item name, part number, CAGE code, and serial number. b. Affected part number or specification, CAGE code and serial number. c. A listing and a copy of the unplanned/deferred work. d. Test procedure(s) and requirement paragraph number.
Preplanned/Assigned Work. Description of work from manufacturing and/or test authorized for accomplishment after item delivery because of a Program decision to ship prior to completion, or deferral of work completion because of authorized shortages. Provide a copy of inspection and test/reject requirements documentation required to complete Preplanned/Assigned Work.	 a. Deliverable item name, part number, CAGE code, and serial number. b. Authorizing work document identification. c. Description and listing of Preplanned/Assigned Work. d. Test procedure(s) and requirement paragraph number.

TABLE 4.0–1 HARDWARE DATA ITEMS/ELEMENTS (PAGE 2 OF 4)

DATA ITEMS	DATA ELEMENTS	
Identification — As Designed/As–Built Listing. An indentured parts list which provides a comparison of the	a. Deliverable item name, part number, CAGE code and serial number.	
as-designed/as-built configuration of the hardware being delivered. The configuration listing consists specifically of the	b. Part indenture level.	
following:	 Part number, CAGE code, part serial or lot number, including Government Furnished Equipment when 	
a. Subsystem, assembly, and subassembly hardware	applicable.	
	d. Quantity.	
b. Parts procured to a Source Control Drawing (traceable and	f. Drawing number and revision.	
	g. Circuit reference designators (Electrical, Electronic, and	
c. Parts procured to a Specification Control Drawing (traceable only).		
For purposes of this specification, the as-designed/as-built configuration excludes specification control drawing parts and standard usage hardware which are exempt from traceability (e.g., nuts, bolts, washers, shims, pins).		
Operating Time/Cycle. Status at time of delivery of accumulated operating time and/or cycles of parts designated as	 Deliverable item name, part number, CAGE code, and serial number. 	
time/cycle critical. This includes maintenance activities which are required based on operating time/cycle.	 Time/cycle part name, part number, CAGE code, and serial number. 	
	 Allowable (specification requirement) and remaining operating time and/or cycles from point of delivery. 	
Age–Sensitive/Time–Action Items. Limited–life items that have a maximum life limit and are subject to replacement when	 Deliverable item name, part number, CAGE code, and serial number. 	
specified limit is reached or exceeded. Included are time-action control items having a minimum periodic functional operating limit and are subject to replacement when one or more of specified limits are exceeded. This includes maintenance activities which are required based on Aqe-Sensitive/Time Actions.	Age-sensitive/time-action part name, part number, CAGE code, serial number, birth date, expiration date (action due date), and type of action required (i.e., replace, service, inspect, etc.).	
	 Last operation and/or servicing date and next operation and/or servicing due date (time action items only). 	
Nonstandard Calibration. Records of measurement equipment, instrumentation, components, or systems having	 Deliverable item name, part number, CAGE code, and serial number. 	
delivery.	 Component/transducer/signal conditioner/gauge or meter, part name, part number, and serial number. 	
	c. Measurement Number.	
	 Range (engineering units), excitation volts (+/–), units stimulus (engineering units), and output volts or resistance. 	
	 Temperature environment, calibration date, and stimuli values versus output expressed in engineering units or percent of full range. 	
	f. Actual calibration tabulated data points and/or calibration curves, as specified in the sensor/signal conditioner component procurement documents, will be required at time of delivery.	

TABLE 4.0–1 HARDWARE DATA ITEMS/ELEMENTS (PAGE 3 OF 4)

DATA ITEMS	DATA ELEMENTS
Repair Limitations. When repair limitations are imposed by the design agency (i.e., limits the number of times a specific hardware type can be repaired), then a status of these limited repair items which have had prior repair activity but have or have not reached the specific repair limit shall be identified at time of	a. Deliverable item name, part number, CAGE code and serial number.
	b. Type of repair (i.e., bent pins, brazed joints, etc.).
	c. Repair limitation requirement.
delivery.	d. The source of the requirement (i.e., specification, etc.).
	e. Identification method (i.e., painted, tagged, charted, etc.).
	Part name, part number, CAGE code, serial and/or lot number of the affected item.
	g. Physical location of affected item.
	h. The number of prior repairs.
Pressure Vessel Data. A log of each pressure vessel's exposure to materials and pressures shall be provided at time of	a. Deliverable item name, part number, CAGE code, and serial number.
Engineers (ASME) Code for Unfired Pressure Vessels. All GSE pressure Vessels which have been designed, fabricated, and	 Pressure vessel's part name, part number, CAGE code, and serial number.
tested to the requirements of the ASME Code for Unfired	c. Limited–life requirements.
the log requirements. However, an ASME Form U–1, prepared	d. Threshold Pressure (PSID at MSL).
in accordance with the ASME code, shall be provided at time of delivery. Requirements are specified on ASME Form U–1.).	e. Pressure Limitations including threshold pressure, maximum operating pressure and proof pressure.
	f. Cycle Limitation for threshold pressure, maximum operating pressure and proof pressure.
	g. Chronological test and checkout history as listed below:
	1. Proof pressure data/certification,
	2. Leak test data,
	3. Cycling data,
	4. Peak pressure,
	5. Minimum pressure,
	6. Total number of pressure cycles,
	7. Type of pressurant (test media), and
	8. QC or operator stamp as required.
Pyrotechnic Data. Documented evidence that representatives of both NASA and the procuring agency have reviewed and accepted the described pyrotechnic devices on the basis of applicable NASA and procuring agency specification and requirements. This documentation consists of the lot certificate, which includes the certification statement and marriage records. Lot Certificate. This certification reflects the current status of the device lot at time of acceptance and shall be provided with	Minimum data to be included in the lot certification and marriage record is detailed in the Pyrotechnic Specification document.
each device lot.	

TABLE 4.0–1 HARDWARE DATA ITEMS/ELEMENTS (PAGE 4 OF 4)

DATA ITEMS	DATA ELEMENTS			
Nonflight Hardware/Temporary Installations. A listing of installed hardware, which is not part of the deliverable item	 Deliverable item name, part number, CAGE code, and serial number. 			
configuration and must be removed prior to subsequent operations or flight, shall be provided.	 b. Identification method (painted, tagged, streamered, chartered, etc.). If tagged or streamered, indicate tag or streamer number. 			
	c. Listing of the temporarily installed part name, part number, CAGE code, and serial number.			
	d. Physical location of the temporarily installed part and identification of when item is to be removed (i.e., prior to test, prior to continued integration, prior to flight, etc.).			
Certifications. Documented evidence attesting to the fact the delivered hardware meets specified requirements (i.e., proof	a. Deliverable item name, part number, CAGE code, and Serial Number.			
load, proof pressure, cleanliness, flight, etc.). Supporting documentation [e.g. Verification Completion Notices (VCNs)].	b. Identification of certifying official.			
shall be available for review.	 c. The qualification and acceptance requirements being satisfied. (Reference document number) 			
	d. Acceptance test procedure number.			
	e. ATP report number.			
MSDS Data. Material Safety Data Sheet (MSDS) used to convey information about the potential health and physical	 The chemical and common name of the material/substance. 			
hazards of materials/substances used in the work environment. [Reference OSHA 29 CFR 1910.1200(G), Occupational Safety	b. The physical properties of the material/substance.			
and Health Standards, Hazard Communication, Material Safety Data Sheets]	c. The hazards or other risks involved in the use of the material/substance, including fire and explosive potential, corrosivity, reactivity, and any known acute and chronic health effects related to exposure.			
	d. Safe handling practices, necessary personal protective equipment, and other safety precautions.			
	e. Emergency procedures for spill, fire, disposal, and first aid.			
	Note: One MSDS per type of material/substance.			

TABLE 4.0-2 SOFTWARE DATA ITEMS/ELEMENTS

DATA ITEMS	DATA ELEMENTS
Notes/Comments. This section is used for pertinent notes, comments, or special instructions which would be beneficial to the software user.	a. Deliverable software identifier and version.b. Notes/Comments as applicable.
Waiver/Deviation Record. Approved waivers and deviations to the contract and/or other requirements authorizing software use or delivery with existing variations as applicable to the functional/operational parameters of the item being delivered, (i.e., form, fit, or function). Attach a copy of the actual waiver/deviation document with a detailed description and contract authority.	a. Deliverable software identifier and version.b. Waiver/deviation number index.c. Waiver/deviation title or comments.
UA Record. Provide a record of any UAs noted during acceptance through system testing and use of the deliverable software item, with a copy of the actual nonconformance report with a detailed description, troubleshooting, acceptance rationale, and authority.	a. Deliverable software identifier and version.b. Nonconformance report number index.c. Comments.
Unplanned/Deferred Work. Unaccomplished development, test, or activities remaining to be completed at time of acceptance and delivery due to lack of schedule time, etc., including open nonconformance reports, open recurrence control actions, and other open work, applicable to the software being delivered.	 a. Deliverable software identifier and version. b. Affected program, module, or specification. c. Description of Unplanned/Deferred Work, including a list of open or unincorporated Engineering changes which should have been accomplished prior to delivery. d. Inspection and test/retest requirements per appropriate documentation to complete bergen accomplete the second Work.
Preplanned/Assigned Work. Description of work from development and/or test authorized for accomplishment after delivery because the Program desires, is deferred for safety reasons, is required to restore the item from alterations/differences necessary for shipping, or is deferred to allow end item software delivery although module/component delivery schedules have been slipped.	 a. Deliverable software identifier and version. b. Authorizing document identification (specification, test/plan procedure, etc.). c. Description of Preplanned/Assigned Work. d. Inspection/verification requirements per approved documentation to complete Preplanned/Assigned Work.
Specification Documents. A listing of the software specification documentation, including amendment and/or revision number.	Identified by software identifier and version.
Program Listing. The source code for all programs, subprograms/subroutines, procedures, tasks, and program modules in an electronically stored format (tape, disk, etc.).	Identified by software identifier and version.
Version Description Document. Establishes the as-built configuration items released and provides installation and adaptation information. Establishes the exact description of the actual configuration of the items as depicted by specifications, incorporated approved changes, approved exceptions, etc.	Identified by software identifier and version (May point to the software VDD data requirement, if applicable.)
User's Guide or System Operating Manual. Provides program overview and all necessary instructions concerning the use and options of the software program. Document number includes amendment and/or revision.	Identified by software identifier and version.
Certifications. Documented evidence that delivered software meets specified requirements.	a. Deliverable software identifier and version.b. Identification of certifying official.c. The requirements being satisfied.d. The source of the requirement.

5.0 ACCEPTANCE DATA PACKAGE

The Title Page and Index Pages mandatory data elements are provided in Table 5.0–1, Title and Index Pages Formats/Elements. Appendix E provides recommended formats for these pages of the ADP.

5.1 STRUCTURE

Hardware ADP Structure

The ADP shall be divided into separate sections with each section containing specific data. Each ADP will be assembled as follows (see Figure 5.1–1, Hardware Acceptance Data Package — Structure, or Figure 5.1–2, Software Acceptance Data Package — Structure). If a specific section is not applicable to the subject hardware or software, record "N/A" on the Index Page.

Title Page Index Page Section I Copy of Shipped/Delivery Document (DD250/1149 or equivalent form) Section II Historical Log/Notes/Comments Section III Waivers/Deviations Section IV **Unexplained Anomalies** Section V Shortages Section VI Unplanned/Deferred Work Section VII Preplanned/Assigned Work Section VIII Identification — As-Designed/As-Built Listing Section IX **Operating Time/Cycle** Section X Age–Sensitive/Time–Action Items Section XI Nonstandard Calibration Data Section XII **Repair Limitation Data** Section XIII Pressure Vessel Data Section XIV Pyrotechnic Data Section XV Nonflight Hardware/Temporary Installations Section XVI Certifications Section XVII MSDS Data–Material Safety Data Sheet Software ADP Structure Title Page Index Page Section I Copy of Shipped/Delivery Document (DD250/1149 or equivalent form) Section II Notes/Comments

Waivers/Deviations
Unexplained Anomalies
Unplanned/Deferred Work
Preplanned/Assigned Work
Specification Documents
Program Listing
Version Description Document
User's Guide or System Operating Manual
Certifications

5.2 PREPARATION INSTRUCTIONS

In the event a data item for a given section is too voluminous to maintain an orderly package (i.e., several boxes of data for a particular section), the appropriate section shall reference and identify the location and quantity of the supporting documentation. In addition, this supporting documentation shall be packaged separately and shall be identified appropriately with cross reference to the parent ADP.

The number of sections to be contained in a specific ADP is determined by the number of applicable data items required for the subject hardware/software being delivered (i.e., one or more data items, as shown in Table 4.0–1 or Table 4.0–2, may not be applicable to the item being delivered; in that event, only those sections which are applicable would be included in the ADP with the proper notation on the Index Page).

DATA FORMATS	DATA ELEMENTS		
Title Page. The cover page of the ADP will identify the hardware or software item being delivered. (See Figure E–1.)	 For hardware, deliverable hardware item name, configuration item nnumber (if applicable) part number, CAGE code, and serial number; for software, deliverable software identifier CSCI Number (if applicable) and version number. 		
	b. Model number (if applicable).		
	c. Contract Number.		
	d. Contractor/supplier name.		
Index Page. This page identifies the type of hardware or software, associated data and applicable sections contained in the ADP. (See Figures E–2 and E–3.)	 For hardware, deliverable hardware item name, part number, and serial number; for software, deliverable software identifier and version number. 		
	 Identify type of hardware or software (Flight or Ground). 		
	 Content (identified by checking the appropriate block) of the applicable data elements/section contained in the ADP. 		
	 Appropriate ADP approval signatures, organization, and dates. 		

TABLE 5.0–1	TITLE AND	INDEX PAGES	ELEMENTS





FIGURE 5.1–2 SOFTWARE ACCEPTANCE DATA PACKAGE — STRUCTURE

6.0 EQUIPMENT PARTS TAG

An ADP shall also be prepared and delivered with spares, mod kits, and loose equipment. Because the management and accountability of these items are unique, the ADP requirements are as follows:

- **a.** An ADP or an equipment parts tag shall be required for each article delivered to a using organization.
- **b.** An equipment parts tag, such as the example in Appendix E, may be used in lieu of an ADP when none of the required or relevant data items (Table 4.0–1) are applicable to the deliverable article.
- **c.** The equipment parts tag must contain the following information:
 - **1.** Part name,
 - **2.** Part number,
 - **3.** Serial/lot number,
 - 4. Quantity,
 - 5. Drawing number and revision,
 - 6. Incorporated engineering change number,
 - **7.** Evidence of acceptance.

Instructions for completing the equipment parts tag are contained in Appendix F. It should be noted that use of the equipment parts tag does not negate the requirements of other hardware status tags which may be prepared prior to hardware delivery.

NOTE: Equipment parts tags are not to be used for software deliveries.

APPENDIX A ABBREVIATIONS AND ACRONYMS

ADP	Acceptance Data Package
ASME	American Society of Mechanical Engineers
CAGE	Commercial and Government Entity
CEI	Contract End Item
CI	Configuration Item
CR	Change Request
CSCI	Computer Software Configuration Item
EEE	Electrical, Electronic, and Electromechanical
FSE	Flight Support Equipment
GFE	Government Furnished Equipment
GSE	Ground Support Equipment
ISSA	International Space Station Alpha
MOP	Maximum Operating Pressure
MSDS	Material Safety Data Sheet
MSL	Mean Sea Level
NASA	National Aeronautics and Space Administration
OSE	Orbital Support Equipment
OSHA	Occupational Safety and Health Act
PP	Proof Pressure
PPC	Proof Pressure Cycle
PSID	Pounds Per Square Inch Pressure Differential
QC	Quality Control
SPA	Software Product Assurance
SSCB	Space Station Control Board
SSE	Software Support Environment
TP	Threshold Pressure
UA	Unexplained Anomaly
VCN	Verification Completion Notice
VDD	Verification Description Document

APPENDIX B GLOSSARY OF TERMS

ACCEPTANCE REVIEW

An End Item Acceptance Review formally establishes the exact configuration for each hardware or software item at the time of acceptance/delivery by NASA or NASA designee.

AS-BUILT CONFIGURATION

An actual, physical configuration of a unit of hardware or software.

AS-DESIGNED CONFIGURATION

A configuration formally approved and released by NASA or contractor engineering release authority.

COMPUTER FIRMWARE

An assembly composed of a hardware unit and a computer program integrated to form a functional entity whose configuration cannot be altered during normal operation. The computer program is stored in the hardware unit as an integrated circuit with a fixed logic configuration that will satisfy a specific application or operational requirement.

COMPUTER SOFTWARE CONFIGURATION ITEM

The CSCI is a designation applied to software, or any of its discrete portions, which satisfies an end user function and is designated by NASA as a deliverable item. CSCIs shall be formally accepted on a DD Form 250 or its equivalent.

CONTRACT END ITEM

The Contract End Item (CEI) is a designation applied to an aggregation of hardware or software, or any of its discrete portions, which satisfies an end user function and is designated by the contract as a deliverable item. CEIs shall be formally accepted on a DD Form 250 or its equivalent. CEIs are line items in the contract or furnished by NASA in–house design activities.

DEVIATION

A specific authorization, granted before the fact, to depart from a particular baseline requirement for a limited application.

HARDWARE

Items of identifiable equipment, including piece parts, components, assemblies, subsystems, and systems.

MODIFICATION

A physical change to delivered hardware and/or software, including spares.

NONCOMPLIANCE

A condition that exists or will exist when a deliverable item or its related documentation is not in accordance with the baseline at the time of established contractual events.

NONCONFORMANCE

A condition of any article or material or service in which one or more characteristics do not conform to requirements. This includes failures, discrepancies, defects, and malfunctions.

OPERATIONAL SOFTWARE

Flight and ground software that either (1) interfaces with on–orbit elements in real–time or (2) is critical to the mission (such as all control center test and certification software) including associated models and simulations and SSE software which interfaces with on–orbit elements in real time or is critical to the mission.

PRESSURE VESSEL CYCLE

A pressure vessel cycle is recorded when pressure increases by an amount exceeding the absolute value of Threshold Pressure (TP) and then decreases by an amount exceeding the absolute value of TP. NOTE: Pressure increases and decreases need not be continuous and small increases/decreases can exist within a recordable pressure cycle.

SOFTWARE

Computer programs required to design, test, check out, maintain, or operate program hardware.

THRESHOLD PRESSURE

Minimum pressure at which theoretical cyclic flow growth can occur. Pressurization below TP does not result in reduction of vessel pressure cycle life.

UNEXPLAINED ANOMALY

An anomaly (ghost or phantom) which cannot be repeated or for which a cause cannot be determined.

WAIVER

A written authorization to accept an item that is found during production, or after having been submitted for technical review, tests, or inspection to depart from a particular performance or design requirement of a specification, drawing, or other contract document. The authorization is granted for a specified number of items and/or a specific period of time. The item(s) is/are considered suitable for use "as is" for a specified period of time or quantity of items.

APPENDIX C PREFERRED HARDWARE ACCEPTANCE DATA PACKAGE FORMATS

FIGURES

FIGURE	
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C–1	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG/NOTES/COMMENTSC – 2
C–2	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE WAIVER/DEVIATION LISTING
C–3	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMALIES
C–4	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE SHORTAGES C – 5
C–5	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED/DEFERRED WORK
C–6	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED/ASSIGNED WORK
C–7	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE IDENTIFICATION — AS–DESIGNED/AS–BUILT LISTING
C–8	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE OPERATION TIME/CYCLE
C–9	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE AGE SENSITIVE/TIME ACTION ITEMS
C–10	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD
C–11	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS C – 12
C–12	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA LOG
C–13	FORM U–1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS C – 14
C–14	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PYROTECHNIC CERTIFICATION
C–15	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONSC – 17
C–16	SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE MATERIAL SAFETY DATA SHEET

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG/NOTES/COMMENTS

ITEM NAME	PART NUMBER	CAGE CODE	SERIAL NUMBER

PAGE __OF

FIGURE C–1 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG/NOTES/COMMENTS

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE WAIVER/DEVIATION LISTING

ITEM NAME

PART NUMBER CAGE CODE SERIAL NUMBER

WAIVER/DEVIATION		CONTRACT			
NUMBER	PART NAME	PART NUMBER	CAGE CODE	SERIAL NUMBER	AUTH

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FIGURE C-2 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE WAIVER/DEVIATION LISTING

ITEM NAME

SERIAL NUMBER

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMALIES RECORDS

PART NUMBER CAGE CODE

AFFECTED NONCONFORMANCE **RECORD NUMBER** PART NAME PART NUMBER CAGE CODE SERIAL NUMBER

PAGE __OF

FIGURE C-3 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMALIES

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE SHORTAGES

ITEM NAME	PART NU	JMBER	CAGE CODE			SERIAL NUMBER	
PART NAME	PART NUMBER	CAGE CODE	QTY	INSPECTION AND TEST/RETEST REQUIREMENTS		NEXT HIGHER ASSEMBLY	
			SHUKI	TEST PROCEDURES	REQUIREMENT PARAGRAPH NUMBER	PART NUMBER	SERIAL NUMBER

FIGURE C-4 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE SHORTAGES

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED/DEFERRED WORK

ITEM NAME	PART NUMBER		CAGE CODE	SERIAL NUMBER			
PART NUMBER OR	PART NUMBER OR CAGE CODE SERIAL NUMBER		DESCRIPTION OF	INSPECTION ANI REQUIRE	INSPECTION AND TEST/RETEST REQUIREMENTS		
SPECIFICATION			WORK	TEST PROCEDURES	REQUIREMENT PARAGRAPH NUMBER		

FIGURE C-5 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED/DEFERRED WORK

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED/ASSIGNED WORK

ITEM NAME PART NUMBER CAGE CODE SERIAL NUMBER INSPECTION AND TEST/RETEST REQUIREMENTS AUTHORIZING WORK **DESCRIPTION OF** DOCUMENT IDENTIFICATION PREPLANNED/ASSIGNED WORK REQUIREMENT PARAGRAPH NUMBER TEST PROCEDURES

FIGURE C-6 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED/ASSIGNED WORK

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE IDENTIFICATION — AS-DESIGNED/AS-BUILT LISTING

ITEM NAME

PART NUMBER

CAGE CODE

SERIAL NUMBER

PART IDENT LELVEL			PAF	RT N	UMI	BER	2	QTY	NOMENCLA- TURE/CAGE CODE	A S	S–D BA	ESIGNED SELINE ADCN	S	AS BA R	-BUILT SELINE ADCN	SERIAL NUMBER BATCH/LOT	LIMITED LIFE ITEM	REMARKS REF DESIG	CIRCUIT REFERENCE DESIGNA- TION
										T	V		Т	V					
	\vdash									⊢			⊢						
										⊢			⊢						
										⊢			⊢						
										⊢			_						
										⊢			⊢						
										⊢			⊢						

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FIGURE C-7 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE IDENTIFICATION — AS-DESIGNED CONFIGURATION

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SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE OPERATING TIME/CYCLE

CAGE CODE

PART NUMBER

TIME/CYCLE **OPERATING TIME** CYCLE SERIAL ALLOWABLE REMAINING CAGE CODE PART PART NUMBER ALLOWABLE REMAINING NUMBER SEC. NAME HRS. MIN. HRS. SEC. MIN.

PAGE __OF

FIGURE C-8 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE OPERATING TIME/CYCLE

C – 9

ITEM NAME

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SERIAL NUMBER

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE/TIME-ACTION ITEMS

CAGE CODE

PART NUMBER

PART NAME	PART NUMBER	CAGE CODE	SERIAL NUMBER	BIRTH DATE	ACTION DUE DATE	REQUIRED ACTION	LAST OPERATIONAL AND/OR SERVICING DATE	OPERATIONAL AND/OR SERVICING DUE DATE

PAGE __OF___

FIGURE C-9 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE/TIME-ACTION ITEMS

SERIAL NUMBER

ITEM NAME

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

ITEM NAME		I	PART NUMBER	CAGE	CODE	SERIAL NUMBER		
CON	IPONENT	/TRA	NSDUCER/SIG	NAL CONDIT	IONER/G	AUGE/	/METER	
PART NAM	ЛЕ			PART NUM	BER			
SERIAL N	UMBER			MEAS. NUI	MBER			
RANGE (EI	NG UNITS)	EXC +	ITATION VOLTS	UNITS (ENG STIMULUS	UNITS)	OUT OR F	PUT VOLTS RESISTANCE	
	RUN NU	JMBE	R 1	R	UN NUM	BER 2		
TEMP.	ENV	DAT	E	TEMP. ENV		DATE		
STIMULUS	STEP N UNITS O FULL SC	0., R % ALE	OUTPUT VOLTS OR RESISTANCE	STIMULUS	STEP NO. OR % FUL	, UNITS L SCALE	OUTPUT VOLTS OR RESISTANCE	

PAGE __OF

FIGURE C-10 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS

ITEM NAME	PART NUMBER	CAGE CODE	SERIAL NUMBER	
TYPE OF REPAIR	REPAIR LIMIT	ATION REQUIREMENT	REQUIREMENT SOURCE	
			IDENTIFICATION METHOD	

PART NAME	PART NUMBER	CAGE CODE	SERIAL/LOT NUMBER	PHYSICAL LOCATION	TIMES REPAIRED

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SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

ITEM NAME	PART NUMBER				CAGE CODE						NUMBER	
	ME	PART NUM	NUMBER CAG			AGE CODE SERIAL I				NUMBER		
LIMITED L	IFE		THRES	HOLD	PRESSU	RE (PSID)				DATE INS	TALLED	
PRESSUR	E LIMITATIONS: TI	P: OP:	PP:		CYCLE	LIMITATIONS	: MOPO	D:		PPC:		
	TEST NAME						TIM	E		CUM	TOTALS	QC/OPER
FACILITY	(PROOF PRESS, LEAK TEST)	PRESSURA			PEAK RESSURE	PRESSURE	RE HRS M	MIN		TIME	CYCLES	STAMP
THIS PRESSURE VESSEL IS CERTIFIED TO MI ACCEPTABLE FOR FLIGHT GSE USE			TO MEET	MEET ALL CONTRACT REQUIREMENTS, UNLESS OTHERWISE NOTED, AND IS						IS		
	DATE		_			CON	NTRAC	TOR	/SUP	PLIER SI	GNATURE	

FIGURE C-12 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA LOG

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SSP 30695, Revision A

October 26, 1994

FORM U–1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As required by the Provisions of the ASME Code Rules

1.	Manufactured by	
2.	Manufactured for	,
3.	. Type KindVessel No. () () Natl. Bd. No Yr. Built	
Ite	tems 4–9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers.	
4.	. SHELL: Material T.S T.S Nominal Corrosion In. Diam Ft In. Leng	gth <u>Et</u> In. eted,
5.	SEAMS: Long	ibe seams on reverse of form.
6.	. HEADS (a) Material T.S. (b) MaterialT.S.	
(4	Location Crown Knuckle Elliptical Conical Hemispherical Flat Si (Con (a) Thickness Radius Radius Ratio Apex Angle Radius Diameter (Con (a) Thickness (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	te to Pressure vex or Concave)
(1	(b) (b	
7.	(Material, Spec. No., T.S., Size, Number) (Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch) (Describe or Attach Sketch) (Describe or Attach Sketch) (Describe or Attach Sketch) (Material) (Material) (Size of Hole) (Size of Hole) (Threaded, Welded) (Horiz.)	(Nominal)
8.	JACKET CLOSURE:	
9.	Constructed for max. allowable working press. ³ psi at max. tempoF less than -20°	psi
Iter 10	ems 10 and 11 to be completed for tube sections.	
10.	Floating. Material (Kind & Spec. No.) (Kind & Spec. No.) (Kind & Spec. No.)	(Welded, Bolted)
11.	1. TUBES: Material (Kind & Spec. No.) O.D In The State of Control	nt or U)
Iteı	ems 12–15 incl. to be completed for inner chambers of excleted vessed or els cheat exchangers.	
12.	2. SHELL Material T.S In. Allowance In. Diam Ft In. Length	FtIn.
13.	B. SEAMS: Long (Welded, Dbl. Single: (Yes or) (Yes or) (Yes or Complete) (Yes or No) (Welded, Dbl. Single: (Yes or) (Yes or) (Yes or) (Welded, Dbl. Single: (Yes or) (Yes	ribe seams on reverse
		or formi
14.	4. HEADS (a) Mathematical (c) Material (c) M	
(a (t (c	Location (a) Top, bottom, ends (b) Channel (c) Floating	de to Pressure avex or Concave)
	If removable, bolts used (a) (b) (b)	
	(c) (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)	
15.	5. Constructed for max. allowable working press ³ psi at max. temp°F Min. temp. (when $P_{Preumatic or}$ Prediction $P_{Preumatic or}$ $P_{Preumatic o$	st ess <u>psi</u>
Iter	ems below to be completed for all vessels where applicable.	
16. 17.	5. SAFETY VALVE OUTLETS: Number Size Location 7. NOZZLES Purposes (Inlet Outlet, Drain) Number Diam. or Size Type Material Thickness Material	How Attached
	(Items 18 through 20 continued on back)	

¹ If posted ² ³ List under remarks other internal <u>or</u> external pressures with coincident temperature when applicable.

(Over)

FIGURE C–13 FORM U–1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS (FRONT SIDE) (PAGE 1 OF 2)

Downloaded from http://www.everyspec.com

SSP 30695, Revision A					October 26, 1994	1
		For	m U–1 (back))		
NSPECTION Manholes, No. DPENINGS: Handholes, No. Threaded, No.		Size - Size - Size -		Location – Location – Location –		
UPPORTS: Skirt(Yes or No)	Lugs	(Number)	(Number)	Other(Desc	ribe) Attached	(Where or H
EMARKS:						
	(Brief description of	f purpose of the vessel, as Air	Tank, After Cooler, Jacket	ed Cooker, etc. State contents of e	earh part.)	
We certify that the statements vessel conform to ASME Coc	made in this rep le for Unfired Pr	oort are correct and that essure Vessels.	all details of design	n, material, construction, a	and workmanship of this	
e		19 Si	gned		By	
Certificate of Authorization Evn	TAS		(Manufacturer)	12	
Certificate of Authorization Exp	ies		15	()		
VESSEL MADE BY I, the undersigned, ho the State of data report on manufacturer has constructe Code. By signing this certification pressure vessel described in manner for any personal inju Date	d this pressure ve this manufacture inter the Inspect this manufacture iry or property d gnature	mmission issued by the and employed essel in accordance or nor his employer m er's data report. Furthe barage or a loss of any 1919	at National Board of National Board of National Board of and state in the applicable see akes any warranty, of permore, neither the I kind arising from o	Boiler and Pressure Vesse ressure vessel described in that to best of my knowle ctions of the ASME Boile expressed or implied, conc nspector nor his employer r connected with this insp Nat'l Board or State and No.	I Inspectors and/or this manufacturers' dge and belief, the r and Pressure Vessel cerning the shall be liable in any ection.	of
		CERTIFICATE OF	FIELD ASSEMBL	Y INSPECTION		
I, the undersigned, he the State of	olding a valid co	mmission issued by th and employed	e National Board of	Boiler and Pressure Vesse	el Inspectors and/or	of
with the described vessel an not included in the certificat	d state that parts e of shop inspec	referred to as data iter tion have been inspect	have compared the	e statements in this manuf o the best of my knowledg	acturers' data report	-
the manufacturer has constr Boiler and Pressure Vessel C By signing this certificate r pressure vessel described in manner for any personal inj	acted and assem Code. The descr either the Inspec this manufactur ary or property of	bled this pressure vess- ibed vessel was inspec- ctor nor his employer n er's data report. Furth- lamage or a loss of any	ei in accordance wit ted and subjected to nakes any warranty, ermore, neither the l v kind arising from c	n the applicable sections of a hydrostatic test of expressed or implied, con (inspector nor his employer or connected with this insp	por the ASME psi. psi. procerning the r shall be liable in any procection.	
Date		19				

FIGURE C–13 FORM U–1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS (BACK SIDE) (PAGE 2 OF 2)

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE **PYROTECHNIC CERTIFICATION**

NOMENCLATURE	PART NO.	CAGE CODE

QUANTITY LOT NO.

EXPIRATION DATE (THIS DEVICE)_____ (BASED ON OLDEST EXPLOSIVE COMPONENT)

THESE PYROTECHNIC DEVICES WERE ACCEPTED BY REPRESENTATIVES OF THE (PROCURING AGENCY) AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ON (DATE), AND ARE CERTIFIED AS BEING IN COMPLIANCE WITH APPLICABLE (PROCURING AGENCY) AND NASA REQUIREMENTS, EXCEPT AS INDICATED BY APPROVED WAIVER OR DEVIATION (WAIVER/DEVIATION NUMBER).

DESIGN ENGINEERING (PROCURING AGENCY) QUALITY ASSURANCE (PROCURING AGENCY)

SUBSYSTEM MANAGER (NASA)

QUALITY ASSURANCE (NASA)

FIGURE C-14 SPACE STATION FREEDOM HARDWARE ACCEPTANCE DATA PACKAGE **PYROTECHNIC CERTIFICATION**

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONS

ITEM NAME	Р	ART NUMBER		CAGE CODE		SERIAL NUMBER
STREAMER/ TAG NUMBER	PART NAME	PART NUMBER	CAGE CODE	SERIAL NUMBER	PHYSICAL LOCATION	REMOVAL EVENT

FIGURE C-15 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONS

SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE MSDS DATA

ITEM NAME	PART NUMBER		CAGE CODE	SERIAL NUMBER		
CHEMICAL/COMMON NAME	PHYSICAL PROP.	HAZARDS OR OTHER RISKS	SAFE HANDLING	ENGINEERING PROBLEMS		

FIGURE C-16 SPACE STATION HARDWARE ACCEPTANCE DATA PACKAGE MATERIAL SAFETY DATA SHEET (MSDS)

APPENDIX D PREFERRED SOFTWARE ACCEPTANCE DATA PACKAGE FORMATS

SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE NOTES/COMMENTS

SOFTWARE IDENTIFIER	VERSION

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FIGURE D-1 SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE NOTES/COMMENTS

SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE WAIVER/DEVIATION LISTING

SOFTWARE IDENTIFIER

VERSION

WAIVER/DEVIATION NUMBER INDEX	WAIVER/DEVIATION TITLE/COMMENTS	CONTRACT AUTH

PAGE __OF

FIGURE D-2 SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE WAIVER/DEVIATION LISTING

SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMALIES RECORD

SOFTWARE IDENTIFIER

VERSION

NONCONFORMANCE REPORT NUMBER	COMMENTS

PAGE __OF

FIGURE D-3 SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMALIES RECORD

SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE UNPLANNED/DEFERRED WORK

SOFTWARE IDENTIFIER

SPECIFICATION, TEST PLAN/	DESCRIPTION OF	INSPECTION AND TEST/RETEST REQUIREMENTS		
PROCEDURE NUMBER (ETC.)	UNPLANNED/DEFERRED WORK	TEST PROCEDURES	REQUIREMENT PARAGRAPH NUMBER	

FIGURE D-4 SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE UNPLANNED/DEFERRED WORK

VERSION

SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE PREPLANNED/ASSIGNED WORK

SOFTWARE IDENTIFIER

INSPECTION AND TEST/RETEST SPECIFICATION, TEST PLAN/ **DESCRIPTION OF** REQUIREMENTS PROCEDURE NUMBER (ETC.) PREPLANNED/ASSIGNED WORK REQUIREMENT PARAGRAPH NUMBER TEST PROCEDURES

FIGURE D–5 SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE PREPLANNED/ASSIGNED WORK

VERSION

APPENDIX E TITLE AND INDEX PAGES FORMATS

SPACE STATION PROGRAM ACCEPTANCE DATA PACKAGE

ITEM NAME	
PART NUMBER	
CONFIGURATION ITEM NO.	
CAGE CODE	
SERIAL NUMBER	
MODEL NUMBER	
CONTRACT NUMBER	
CONTRACTOR/SUPPLIER	

or

SOFTWARE IDENTIFIER	
CSCI NUMBER	
VERSION NUMBER/LETTER	
SYSTEM NAME	
CONTRACT NUMBER	
CONTRACTOR/SUPPLIER	

FIGURE E-1 SPACE STATION PROGRAM ACCEPTANCE DATA PACKAGE

SPACE STATION PREFERRED HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

		PART NUMBER	CAGE CODE	SERIAL NUMBER
FLIGHT HARDWARE		RE		PPORT EQUIPMENT
	DOCU	MENTS INCLUDED IN	THIS DATA PAC	KAGE
INCLUDED NONE REFERENCE	SECTION	IN	DEX	
	Ι	DD FORM 250/1149 O	R EQUIVALENT	
	II	HISTORICAL LOG/NO	TES/COMMENTS	6
		WAIVERS/DEVIATION	S	
	IV	UNEXPLAINED ANON	IALIES	
	V	SHORTAGES		
	VI	UNPLANNED/DEFERF	RED WORK	
	VII	PREPLANNED/ASSIG	NED WORK	
	VIII	IDENTIFICATION — A	S-DESIGNED CO	ONFIGURATION
	IX	OPERATING TIME/CY	CLE	
	Х	AGE SENSITIVE/TIME	ACTION ITEMS	
	XI	NON-STANDARD CALIBRATION DATA		
	XII	REPAIR LIMITATIONS DATA		
	XIII	PRESSURE VESSEL	DATA	
	XIV	PYROTECHNIC DATA		
	XV	NONFLIGHT HARDWA	ARE/TEMPORAR	Y INSTALLATIONS
	XVI	CERTIFICATIONS		
	XVII	MSDS		
	XVIII	ACCEPTANCE REQUI	REMENTS	
ACCEPTANCE DATA PACKAGE APPROVAL				
CONTRACT	FOR/SUPPL	IER, QUALITY ASSURA	ANCE	DATE

NASA QUALITY ASSURANCE

DATE

FIGURE E–2 HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

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SPACE STATION SOFTWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

SOFTWARE IDENTIFIER CSCI NO.

VERSION

GROUND SUPPORT

SOFTWARE

FLIGHT SOFTWARE

DOCUMENTS INCLUDED IN THIS DATA PACKAGE

CLUDED	ONE	EFERENCE	SECTI	ON INDEX
Z	ž	R		
			I	DD FORM 250/1149 OR EQUIVALENT
			II	NOTES/COMMENTS
			111	WAIVERS/DEVIATIONS
			IV	UNEXPLAINED ANOMALIES
			V	UNPLANNED/DEFERRED WORK
			VI	PREPLANNED/ASSIGNED WORK
			VII	SPECIFICATION DOCUMENTS
			VIII	PROGRAM LISTING
			IX	VERSION DESCRIPTION DOCUMENT(S)
			Х	USER'S GUIDE OR SYSTEM OPERATING MANUAL
			XI	CERTIFICATIONS
			XVII	MSDS
				ACCEPTANCE DATA PACKAGE APPROVAL

CONTRACTOR/SUPPLIER, PRODUCT ASSURANCE

DATE

NASA PRODUCT ASSURANCE

DATE

FIGURE E-3 SOFTWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

APPENDIX F INSTRUCTIONS FOR THE PREPARATION OF THE EQUIPMENT PARTS TAG

An Equipment Parts Tag may be used in lieu of preparing an ADP when the data items (reference Table 4.0–1) are not applicable or relevant to the item(s) being delivered.

The following instructions are for preparation of the tag [see Figure F–1, Space Station Equipment Parts Tag (Front View/Back View)].

Part Name	The name of the deliverable part(s).
Part Number	The part number of the deliverable part(s).
CAGE Code	Identify CAGE Code of Supplier
Serial/Lot Number	The serial number or lot number of the deliverable part(s).
Quantity	The quantity of identical part numbers being delivered.
	NOTE: A separate tag is required for each serial or lot number.
DWG C/L (Drawing Change Letter)	The drawing change letter to which the part(s) were fabricated.
Incorporated Engineering Change Numbers	The incorporated Engineering Change number applicable to the drawing change letter to which the part(s) were fabricated.
	NOTE: If the Identification —As–Built Configuration is required below the level of this deliverable item(s) (see Table 4.0–1, Identification — As–Built Configuration), then an ADP is required.
Type of Hardware (Flight or GSE)	Defines the intended use of the hardware.
Notes/Comments	Recordings of any pertinent data which would be beneficial to the using site.
Acceptance Approval Signature/Stamp	The cognizant Quality organization and the NASA or delegated organization responsible for the acceptance of the deliverable part(s). The signature/stamp, date, and organizations signify the data items listed on the backside of the tag are not applicable or relevant to the deliverable part(s).



FIGURE F-1 SPACE STATION EQUIPMENT PARTS TAG (FRONT VIEW/BACK VIEW)