

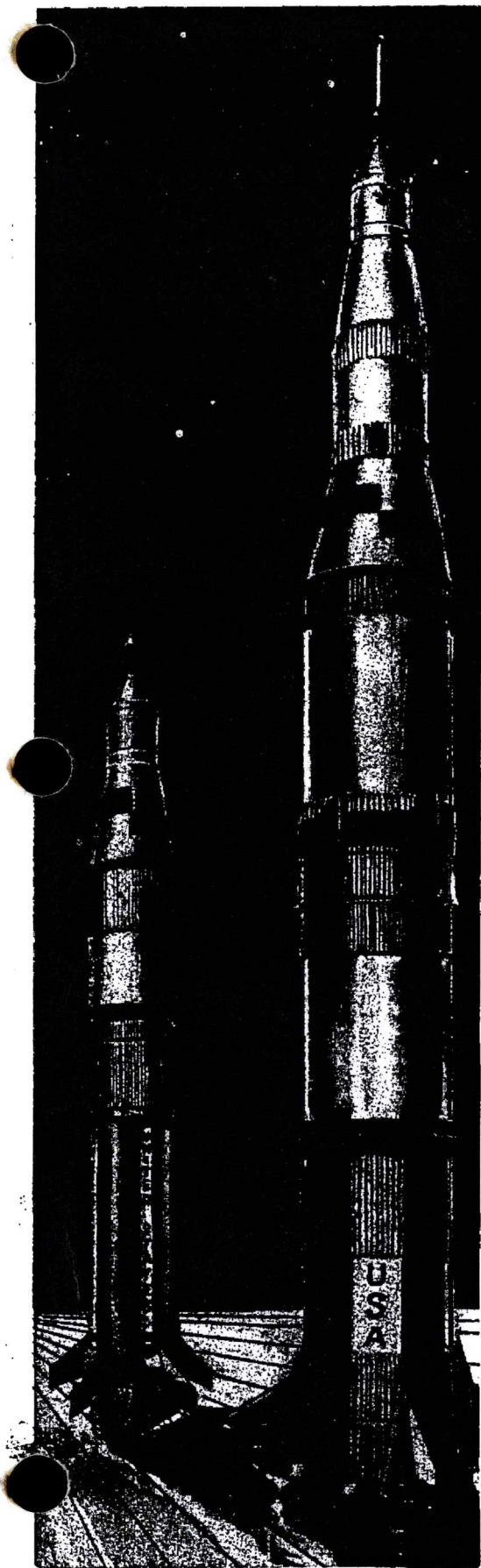
SE007 003 2H
August 15, 1968

GEORGE C. MARSHALL **SPACE
FLIGHT
CENTER**

SATURN

SATURN V
SYSTEM DEFINITION

VOLUME I



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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FOREWORD

The Saturn V System Definition was prepared by the Launch Systems Branch, Aero-Space Division of The Boeing Company under Contract NAS8-5608.

The information contained in this document is intended for use by personnel engaged in the design, operation and management of the Saturn V Launch Vehicle and its supporting ground equipment. This release is effective for and limited to the Saturn V Launch Vehicle AS-503 on Launch Complex 39, Pad A, Mobile Launcher 1 and Firing Room 1.

The Saturn V System Definition consists of two volumes. Volume I identifies the elements which comprise the total Saturn V System (launch vehicle and ground equipment) and the contractor-to-contractor interfaces between those elements. Volume II identifies the documentation that describes and controls the design and operation of the elements.

Typical uses for this data include:

1. Identification of source data for engineering analyses and problem evaluation.
2. Reference data for safety reviews, design reviews, flight readiness reviews, program management and control, and flight operations support.
3. Source and reference data for preparation of procedures for test and checkout, troubleshooting, and maintenance.
4. Reference data for special briefings, training and familiarization programs, and similar activities.

This document will be updated and revised to incorporate additional information and data which become available or are identified. Subsequent revisions will also incorporate data pertinent to AS-504 through AS-510 and appropriate ground equipment.

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ABBREVIATIONS

AAS	Abort Advisory System
AC	Alternating Current
ACE	Automatic Checkout Equipment
APS	Auxiliary Propulsion System
AS	Apollo/Saturn
ASSY	Assembly
ASTR	Astrionics
AUX	Auxiliary
BATC	Boeing Atlantic Test Center
BCD	Binary Coded Decimal
BEH	Bendix, Huntsville
BEK	Bendix, KSC
BOH	Boeing, Huntsville
BOK	Boeing, KSC
BOM	Boeing, Michoud
BRN	Brown Engineering Company
CCC	Complex Control Center
CDDT	Countdown Demonstration Test
CDK	Catalytic/Dow, KSC
CEI	Contract End Item
CHR	Chrysler Corporation
CIF	Central Instrumentation Facility
CIU	Computer Interface Unit
CLK	Clock
CMR	Command Module Repeater
C/O	Checkout
COND	Condition
CORP	Corporation
DC	Direct Current
DCE	Discrete Control Equipment
DDAS	Digital Data Acquisition System
DEE	Discrete Events Evaluator
DEF	Definition
DESCR	Description
DIG.	Digital
DIST	Distributor(s)
DRRS	Damper, Retract, and Reconnect System
DRS	Data Receiving System
DTS	Data Transmission System
DWG	Drawing
EBW	Exploding Bridge Wire
ECS	Environmental Control System
EDS	Emergency Detection System
EMERG	Emergency
EQPT	Equipment
ESE	Electrical Support Equipment

ABBREVIATIONS (Cont)

FAC	Facility
FEC	Federal Electric Corporation
FLA.	Florida
FRT	Flight Readiness Test
FWD	Forward
GEH	General Electric, Huntsville
GEK	General Electric, KSC
GH2	Gaseous Hydrogen
GN2	Gaseous Nitrogen
GND	Ground
GSCU	Ground Support Cooling Unit
GSE	Ground Support Equipment
He	Helium
HGA	Hazardous Gas Analyzer
H.M.	Hazard Monitor
HMS	Hazard Monitoring System
H.P.	High Pressure
H.S.	High Speed
HSCU	Hydraulic Supply and Checkout Unit
HYD	Hydraulic
H2	Hydrogen
IBH	IBM, Huntsville
IBK	IBM, KSC
I&C	Instrumentation and Control
ICD	Interface Control Documentation
I/F	Interface
INDUST	Industrial
INSTR	Instrumentation
INTEG	Integrated
IODC	Input/Output Data Channel
IOR	Input/Output Registers
IU	Instrument Unit
KSC	Kennedy Space Center
LB	Pound
LC	Launch Complex
LCC	Launch Control Center
LCCMS	Launch Control Center Measuring System
LEM	Lunar Excursion Module
LES	Launch Escape System
LH2	Liquid Hydrogen
LN2	Liquid Nitrogen
LOX	Liquid Oxygen
L.P.	Low Pressure
LSE	Launch Support Equipment

ABBREVIATIONS (Cont)

LUT	Launch Umbilical Tower
LV	Launch Vehicle
LVDC	Launch Vehicle Digital Computer
LVSE	Launch Vehicle Electrical Support Equipment
MAINT	Maintenance
MDH	McDonnell/Douglas, Huntsville
MDK	McDonnell/Douglas, KSC
MEAS	Measurement
MECH	Mechanical
MILA	Merritt Island Launch Area
ML	Mobile Launcher
MLF	Mobile Launcher Facility
MMH	Mono-Methyl Hydrazine
MSC	Manned Space Center
MSFC	Marshall Space Flight Center
MSOB	Manned Spacecraft Operations Building
MSS	Mobile Service Structure
NA	Not Applicable
NAH	North American-Rockwell, Huntsville
NAK	North American-Rockwell, KSC
NO.	Number
NR	North American-Rockwell
N2	Nitrogen
N2O4	Nitrogen Tetroxide
OPER	Operational
OXID	Oxidizer
PCM	Pulse Code Modulation
PNEU	Pneumatic
POT.	Potable
PREPS.	Preparations
PROC	Procedure
PSI	Pounds Per Square Inch
PTBL	Portable
PTCR	Pad Terminal Connection Room
PTCS	Propellant Tanking Computer System
PWR	Power
REC	Recorders
REF	Reference
ROC	North American/Rocketdyne
RQMTS	Requirements
RSCR	Range Safety Command Receiver

ABBREVIATIONS (Cont)

SAACS	Service And Access Arms Control System
SAN	Sanders
SAT.	Saturn
S/C	Spacecraft
SCHEM	Schematic
SDD	System Definition Diagram
SDS	Scientific Data Systems
SEC	Section
SEN	System Element Number
SIG	Signal
S/N	Serial Number
SPECS	Specifications
SUP.	Supply
SVCR	Servicer
SYS	System
TBC	The Boeing Company
TECH	Technical
TERM.	Terminal
TWA	Trans World Airlines
UMB	Umbilical
UV	Ultraviolet
VAB	Vehicle Assembly Building
VOL	Volume
W/B	Wideband
WCS	Water Control System

SECTION I. INTRODUCTION

- 1.1 Purpose. The Saturn V System Definition is a management and technical tool designed to provide visibility into the elements that comprise the Saturn V System and into the documentation that describes and controls the design and operation of the launch vehicle and its supporting ground equipment.
- 1.2 Scope. The information contained in this document is limited to Launch Vehicle AS-503, its related Ground Support Equipment, and the portions of Launch Complex 39 which are required to support launch operations while the vehicle is positioned on the launch pad. Subsequent revisions will include data pertinent to vehicles AS-504 through AS-510. Excluded from this document are the Apollo Spacecraft and its related Ground Support Equipment, except where it is necessary to show interfaces with the Saturn V System. "Brick and Mortar" items and structural interfaces with system elements are also excluded as are some ground systems that do not have a direct connection to the Launch Vehicle such as ground optics and communications.

The Saturn V System Definition consists of two volumes:

1. Volume I contains:
 - a. The Saturn V/AS-503 System Definition Diagram (SDD), an integrated electromechanical diagram of the system elements that comprise the Saturn V Launch Vehicle and its associated Ground Support Equipment.
 - b. The Documentation Index, a tabulation of pertinent system element and system level documentation used to describe and control the design and operation of the system elements shown on the SDD.
2. Volume II contains a Document Reference List which is a bibliographical listing of the documentation cited in Volume I.

SECTION II. DESCRIPTION AND INSTRUCTIONS

2.1 SATURN V/AS-503 SYSTEM DEFINITION DIAGRAM

2.1.1 General. The SDD is an integrated electromechanical diagram which depicts the following:

1. The elements (identified by a system element number [SEN]) which comprise the Saturn V System;
2. An identification of the sustaining design contractor and operating contractor for each system element;
3. An identification of the contractor-to-contractor interfaces for each system element;
4. The types of interconnects between system elements.

The SDD should not be construed to be a functional flow diagram as it does not contain the detailed information normally associated with that type of diagram.

The general layout of the diagram, from left to right, is geographically oriented, starting with the Launch Control Center and progressing through the Pad Cross-country, Mobile Launcher Lower Levels, Mobile Launcher Tower, and Launch Vehicle, to the Mobile Service Structure.

To simplify the SDD, the single line interconnects represent groupings of individual pipes or cables at the highest level that permits identification of the media transmitted and contractor interfaces. For instance, a functional line on the diagram may represent several GN2 connections.

To further simplify the SDD, the extensive distribution of the following systems is shown by flag notes at the source and by open ended lines on the appropriate system element blocks:

1. 50 PSI GN2 Purge,
2. GN2 Launcher Supply System,
3. Helium Launcher Supply System,

2.1.1 (Continued)

4. Facility Power,
5. Facility Water (Potable, Firex and Industrial Water),
6. Facility Air.

Equipment providing only backup capability is shown when it is installed (not mobile) and involves one or more contractor-to-contractor interfaces at the interconnects.

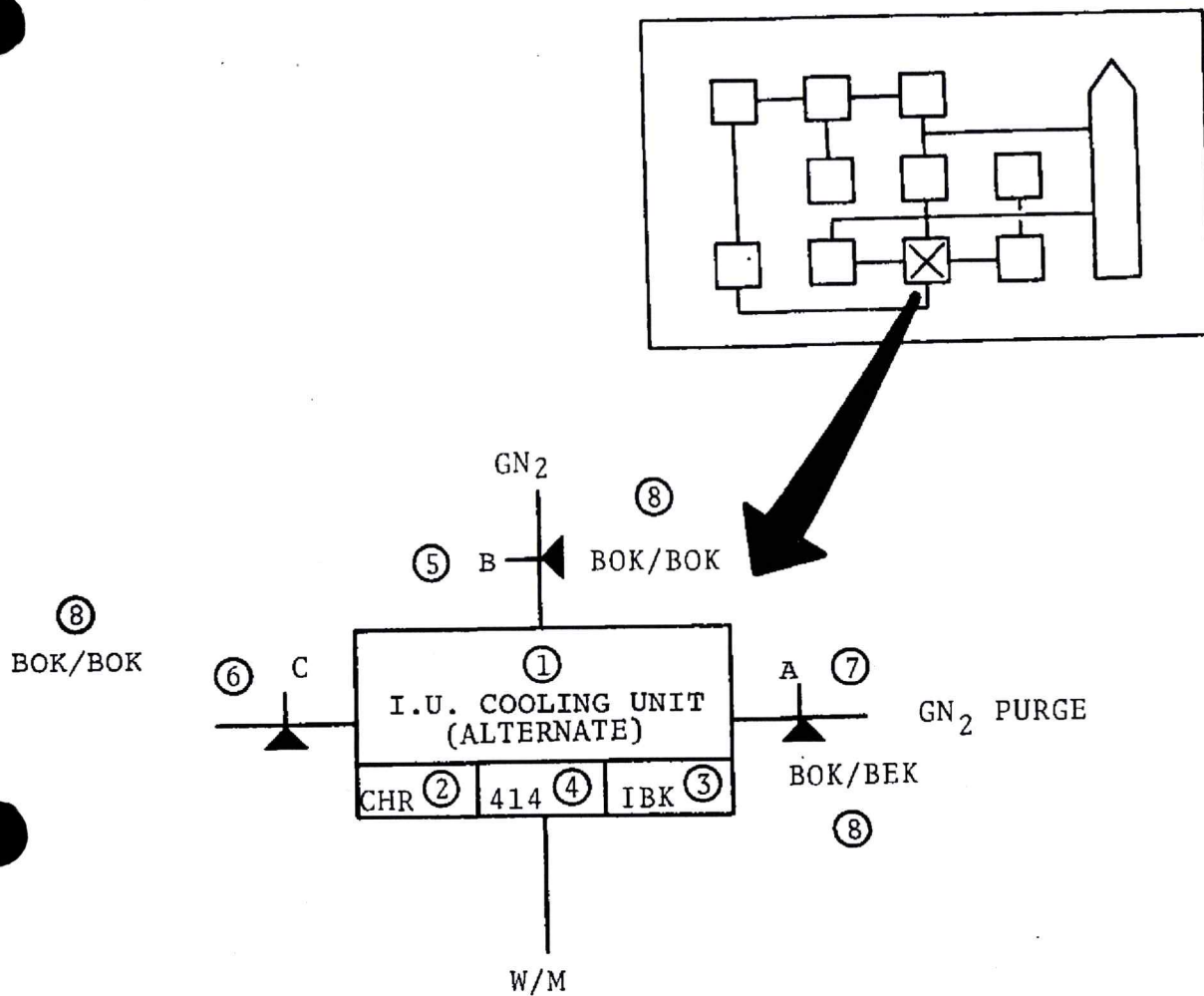
2.1.2 System Elements.

2.1.2.1 Definition. A system element is defined generally as the highest equipment level under the cognizance of one design and one operating contractor. System elements are shown on the diagram as blocks and interconnecting lines. The system element block general format is shown in Figure 1.

2.1.2.2 System Element Numbers. System element numbers are assigned to each equipment block shown on the SDD and are coded to indicate the geographical location of the equipment as follows:

- 1XX - LCC Equipment
- 2XX - Pad and Cross-country Equipment
- 3XX - Pad and Mobile Launcher Lower Level
- 4XX - Mobile Launcher
- 5XX - Umbilical Carrier Assemblies
- 6XX - Launch Vehicle
- 7XX - Mobile Service Structure

Where two or more blocks and their interconnections have one design and one operating contractor but it is considered desirable to show all blocks for clarity, the group of blocks is included in a large box with a system element number assigned to the box. Each block within the box is assigned a decimal number and only interfaces external to the box are identified. Interconnecting piping or cable system



1. System Element Title - I.U. Cooling Unit (Secondary)
2. Equipment Designer
3. Equipment Operator
4. System Element Number - 414
5. Interface Number 414B
6. Interface Number 414C
7. Interface Number 414A
8. Designer/Operator Of Interface Piping/Cabling

NOTE: Refer To SDD For Contractor Codes

Figure 1. - System Element Block Format

2.1.2.2 (Continued)

elements are numbered using the SEN of the blocks which they connect with the lower block number appearing first. For example, the electrical cabling between SEN's 414 and 420 is designated SEN 414A-420F (not 420F-414A) and is listed in the Documentation Index under that number. (These numbers do not appear on the SDD.)

In addition to giving the general geographical location of the element, the system element number is used to enter the Documentation Index for data.

- 2.1.3 Interfaces. All design interfaces identified on the diagram are contractor-to-contractor interfaces. They are identified alphabetically adjacent to the interface on the diagram, and the interface number consists of the system element number followed by the interface letter (example: 414B). Interfaces between operating contractors are also identified on the diagram (see notes 5, 6 and 7 on the SDD). Operational interfaces are not called out in the Documentation Index. Facility electrical power interfaces are generally omitted from the SDD for clarity, but they are listed in the Documentation Index.

2.2 DOCUMENTATION INDEX AND DOCUMENT REFERENCE LIST

- 2.2.1 General. The Documentation Index is keyed to the SDD through SEN's and to the principal controlling documentation through reference numbers. The reference numbers are line item numbers in the Document Reference List (Volume II) which is a bibliographical listing for document identification. Piping and cable interconnections are listed only from lower to higher system element numbers to avoid duplication.

- 2.2.2 Documentation Index. The Documentation Index consists of 13 columns with the following information recorded (numbered items refer to column headings):

1. System Element Number - The number listed corresponds to the system element number on the SDD.
2. I/F (Design Interfaces) - The interface identification letter(s) associated with the system element, as shown on the SDD, is listed in this column.

Facility electrical power interfaces generally are omitted from the SDD for clarity, but they are listed in the Documentation Index as the last

2.2.2 (Continued)

interface under the applicable system elements.

3. CEI (Contract End Item) -
 - a. The CEI number(s) for the equipment which comprises the system element is listed.
 - b. KSC equipment generally does not have a CEI number for each deliverable item. In such cases, a CEI number is assigned by systems (example: 9LX001A, Liquid Oxygen System); therefore, the CEI number frequently will be repeated for each system element within such a system.
4. Nomenclature - Descriptive nomenclature for each item is shown in this column.

NOTE

Columns 5 through 9 utilize reference numbers which refer to items in the Document Reference List, thereby identifying the appropriate documentation. The definitions of these columns follow:

5. Design Specs (Design Specifications) - The reference number(s) listed identifies the design specification(s) or equivalent applicable to the item.
6. DESCR (Description) - The reference number(s) listed identifies the documentation containing the system description.
7. Dwg/Schem (Drawing/Schematic) - The reference number(s) listed identifies the top drawing(s) or schematic(s) which document the system configuration.
8. ICD (Interface Control Documentation) - The reference number(s) listed identifies the interface control documents for each interface pertinent to the system element.
9. Test Rqmts (Test Requirements) - The reference number(s) listed identifies the documentation containing the test and checkout specifications, criteria and requirements.

2.2.2 (Continued)

NOTE

Columns 10, 11, 12, and 13 (Firing Room, Pad, ML, and Vehicle Effectivity) are divided into subcolumns representing pertinent equipment and vehicles. The effectivity of the documentation listed in columns 5 through 9, is indicated by an X in the appropriate subcolumns. Since this release pertains only to Launch Vehicle AS-503, these columns are not used. The columns, however, will be used in subsequent revisions. The definitions of these columns follow:

10. Firing Room - The subcolumns 1, 2, and 3 denote Firing Rooms 1, 2, and 3 located in the LCC.
11. Pad - The subcolumns A and B denote Launch Pads A and B at Launch Complex 39.
12. ML (Mobile Launcher) - The subcolumns 1, 2, and 3 denote the three mobile launchers at Launch Complex 39.
13. Vehicle Effectivity - Each subcolumn denotes a specific Saturn V vehicle.

Lack of an applicable entry in the Documentation Index indicates the existence of the document has not been determined.

2.2.3 Document Reference List. The Document Reference List consists of eight columns with the following information recorded (numbered items refer to column headings):

1. Ref. No. - Reference numbers used in columns 5 through 9 of the Documentation Index are listed in numerical sequence in this column.
2. Document Number - The official identification number for the document is shown.
3. Title - The official title of the document as shown on the document or as listed in an index and status report is listed.

2.2.3 (Continued)

4. Responsible Agency - The current contractor or agency responsible for the preparation and maintenance of the document is identified in this column.
5. Approval Authority - The NASA approval authority for the document is listed in this column.
6. Status Index - The document or index wherein the latest revision or status of the document is listed.
- 7&8. Maintenance - An X in the "yes" or "no" column indicates whether the document is being maintained.

Lack of an applicable entry on the Document Reference List indicates the information has not been identified.

2.3 APPLICATION OF THE SATURN V SYSTEM DEFINITION

The use of the Saturn V System Definition for identifying documentation is illustrated in the following example:

Problem: Identify the design specification for the primary IU Cooling Unit.

Solution:

1st Step: Locate the IU Cooling Unit (primary) system element block on the SDD and obtain the SEN (413).

(An alternate method is to locate the IU Cooling Unit in the System Element Table [Table 4-1] and obtain the SEN and its zone location on the SDD.)

2nd Step: Locate system element number (413) in the numerical listing (column 1) of the Documentation Index.

3rd Step: Obtain from the Design Spec column (column 5) the listed reference number (206).

2.3 (Continued)

4th Step: Locate reference number 206 in the numerical listing (column 1) of the Document Reference List.

Opposite reference number 206 the design specification is identified as CP09RA1000002A, IU Ground Support Equipment, Cooling Unit, the responsible agency being Chrysler Corporation. Additional information shows that the latest version of the specification may be ascertained in configuration control and status record document CM-004-007-2H, and that the design specification is maintained.

SECTION III. DOCUMENTATION INDEX

- 3.1 Introduction. The Documentation Index is a tabulation of system elements vs the documentation used to describe and control the design and operation of the system elements shown on the SDD. For a detailed description and instructions for use, see Section II.
- 3.2 General Notes. The following notes supply additional or clarifying information:

NOTES

- 1 INTERFACE/CEI NOT IDENTIFIABLE
- 2 DOCUMENTATION NOT PREPARED - NO PLANS TO PREPARE
- 3 DOCUMENTATION FOR AS-501/502 IDENTIFIED IN LIEU OF UNAVAILABLE AS-503 DOCUMENTATION
- 4 DOCUMENTATION NOT PREPARED - SEE DOCUMENT REFERENCE LIST FOR SCHEDULED RELEASE DATE
- 5 OBVIOUS INTERFACE(S) - CONTRACTORS, LOCATION(S) NOT KNOWN
- 6 TO DETERMINE THE ICD REFERENCE NUMBERS, REFER TO THE TWO INTERFACE NUMBERS WHICH DEFINE THE SYSTEM ELEMENT.

FOR EXAMPLE, TO DETERMINE THE ICD REFERENCE NUMBERS FOR SYSTEM ELEMENT 413A-420F:

1ST STEP: OBTAIN FROM SYSTEM ELEMENT 413 THE ICD REFERENCE NUMBERS LISTED UNDER THE "A" INTERFACE (24, 34, AND 227).

2ND STEP: OBTAIN FROM SYSTEM ELEMENT 420 THE ICD REFERENCE NUMBER UNDER THE "F" INTERFACE (24).

- 7 DOCUMENTATION NOT IDENTIFIABLE OR DOES NOT APPLY IN THE APPLICABLE TIME FRAME.

These notes are referenced in the Documentation Index.

DOCUMENTATION INDEX

SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
100			Q-BALL COVER CONTROL SYSTEM (LCC)	NA	NA	NA	NA	NA																		
		9QB001A	Q-BALL COVER CONTROL SYSTEM	579	268	480	NA																			
102			HOLDDOWN ARM CONTROL SYSTEM (LCC)	NA	NA	NA	NA	NA																		
		9FA001A	HOLDDOWN ARM AND LIFTOFF CONTROL SYSTEM	581	454	479	NA																			
104			TAIL SERVICE MAST CONTROL SYSTEM (LCC)	NA	NA	NA	NA	NA																		
		9TM001A	TAIL SERVICE MAST CONTROL SYSTEM	580	454	143 368	NA																			
106			SERVICE ARM CONTROL SYSTEM (LCC)	NA	NA	NA	NA	NA																		
		9SA001A	SERVICE AND ACCESS ARM CONTROL SYSTEM	367	454	368	NA	366																		
108			ECS CONTROL CONSOLE	NA	NA	NA	NA	NA																		
		9EC001A	ENVIRONMENTAL CONTROL SYSTEM	363 578	145	364	NA																			
110			LAUNCH SUPPORT EQUIPMENT RACKS	NA	NA	NA	NA	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA	153	NA																		
	I		ELECTRICAL INTERFACE	NA	NA	NA	343	NA																		
		NOTE 1				368 381	NA																			
112			FIREX WATER AND PUMP CONTROL SYSTEM	NA	NA	NA	NA	NA																		
		9WC001A	WATER CONTROL SYSTEM	491	164	494	NA	NOTE 7																		

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DOCUMENTATION INDEX

SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	505	507	509	511	513	515	517	519	521
114	A	9WC001A	INDUSTRIAL WATER CONTROL SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	153	NA																		
			WATER CONTROL SYSTEM	491	164	494	NA	NOTE 7																		
116			ASTRIONICS PATCH DISTRIBUTOR	NA	NA	NA	NA	NA																		
	A	NOTE 1		346			NA																			
118			PROPELLANT TANKING COMPUTER SYSTEM (LCC)	NA	NA	NA	NA	NA																		
			PROPELLANT TANKING COMPUTER SYSTEM	452	454	453	NA																			
120			PROPELLANT DC POWER	NA	NA	NA	NA	NA																		
	A	9DC001A	PROPELLANT AND GASES DC POWER SYSTEM	582	454	368	NA																			
122			LH2 CONTROL EQUIPMENT	NA	NA	NA	NA	NA																		
			LH2 ELECTRICAL SYSTEM	354	358	355 359	NA																			
						360 NOTE 4																				
124	A		PROPELLANT DISTRIBUTION PATCH RACKS	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 57 339 343	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 339 343	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
124 (Cont)		NOTE 1		352 353 354	358	355 356 357	NA																			
126	A		HAZARD MONITORING SYSTEM	463	466	465 467	NA	464																		
	Q		ELECTRICAL INTERFACE	NA	NA	NA	24 339 644	NA																		
		INS-24- SP004	ELECTRICAL INTERFACE	NA	NA	NA	339 644	NA																		
			LCC H2 HAZARD MONITOR EQUIPMENT				NA																			
127	A		INDUSTRIAL WATER POWER MODULE	NA	NA	NA	NA	NA																		
		NOTE 1	ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	153	NA																		
128		9DT001A	DATA TRANSMISSION SYSTEM (LCC)	NA	NA	NA	NA	NA																		
			DATA TRANSMISSION SYSTEM	350		351	NA																			
130		9RP001A	RP-1 CONTROL EQUIPMENT	NA	NA	NA	NA	NA																		
			RP-1 ELECTRICAL SYSTEM	352	358	357	NA	515																		

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DOCUMENTATION INDEX

SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
132		9LX001A	LOX CONTROL EQUIPMENT	NA	NA	NA	NA	NA																		
			LOX ELECTRICAL SYSTEM	353	358	356	NA																			
134		9FC001A	ABORT ADVISORY SYSTEM	NA	NA	NA	NA	NA																		
	B		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24	NA																		
	D		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24	NA																		
			ABORT ADVISORY SYSTEM	498	499	500	NA																			
135		9HG001A	HAZARDOUS GAS ANALYZER RECORDER SYSTEM	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	5 24 341 343	NA																		
			HAZARDOUS GAS DETECTOR	462			NA																			
			HAZARDOUS GAS ANALYZER SYSTEM CONTROL PANEL	NA	NA	NA	NA	NA																		
136		10R115A	ELECTRICAL INTERFACE	NA	NA	NA	5 24 341 343	NA																		
	B		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24 343	NA																		
	C		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24 343	NA																		
	I		ELECTRICAL INTERFACE	NA	NA	NA	149 343	NA																		
		10R115A	HAZARDOUS GAS ANALYZER	462			NA																			

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DOCUMENTATION INDEX

SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
138			DEE-3 LINE PRINTER LH2, RP-1, LOX, ECS AND INDUSTRIAL WATER READOUT	NA	NA	NA	NA	NA																		
		9DE001A	DIGITAL EVENTS EVALUATOR	481		483	NA																			
140	E		RANGE SAFETY CHECKOUT SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	139 342	NA																		
		9DR001A	RANGE SAFETY CHECKOUT SYSTEM		454		NA																			
141	A		DEE-6 FRANKLIN PRINTER	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 147 149	NA																		
		NOTE 1		476	475	461	NA																			
142			INTEGRATED ESE	NA	NA	NA	NA	NA																		
		NOTE 1		346	395	394	NA																			
143	J		THEODOLITE OPERATION AND DISPLAY	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	596	NA																		
		CP 1902489-1	AZIMUTH ENCODER READOUT		626	627 628	NA																			
		CP 1901780-1	ACCELEROMETER LOGIC CONTROL		626	629 630	NA																			
		CP 1901860-1	ACCELEROMETER LOGIC MULTIPLEX		626	631 632	NA																			
		CP 1901863-1	ACCELEROMETER PRINTER		626	625 633	NA																			
		CP 1901823-1	ACCELEROMETER LOGIC DISTRIBUTOR		626	634 635	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
143 (Cont)		CP 1901740-1	ACCELEROMETER LOGIC COUNTER		626	638 639	NA																			
		CP 1902490-1	CMR ENCODER READOUT		626	636 637	NA																			
144			IU STAGE ESE	NA	NA	NA	NA	NA																		
		NOTE 1		346	145	455 456	57 58 64 136 152 227 596 597 598 599																			
145			EMERGENCY DETECTION SYSTEM ESE	NA	NA	NA	NA	NA																		
		NOTE 1					592 600																			
146			S-IVB STAGE ESE	NA	NA	NA	NA	NA																		
		10AE008	S-IVB STAGE ESE	346	145	457 458	84 85 91																			
148			S-II STAGE ESE	NA	NA	NA	NA	NA																		
		10AC00B	S-II STAGE ESE	346	145	459 460	40 43 47																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS
150		10AA00B	S-IC STAGE ESE	NA	NA	NA	NA	NA																		
			S-IC STAGE ESE	346	145	347 348	12 80 81 82																			
152	A	NOTE 1	POWER CONTROL DISTRIBUTION	NA	NA	NA	NA	NA																		
			FACILITY POWER SUPPLY	NA	NA	NA	149	NA																		
				346		347 456 457 459 485 486	NA																			
154	A		ESE PROGRAM DISTRIBUTORS (LCC)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 147 149	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 339 343	NA																		
	C		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24 343	NA																		
	D		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	5 24	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	342	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA	339 340 341	NA																		
	G		ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
154 (Cont)	H	NOTE 1	ELECTRICAL INTERFACE - NOTE 5	NA	NA	88 89	150	NA																		
	I		ELECTRICAL INTERFACE	NA	NA	NA	343	NA																		
	J		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	P		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
				346		347	12																			
						348	40																			
						392	43																			
						393	47																			
						394	57																			
						395	80																			
						455	81																			
						456	82																			
						457	84																			
						458	85																			
						459	91																			
						460	136																			
156	F	9LM001A	ANALOG RECORDER MEASUREMENT SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	339 340 341	NA																		
			LCC MEASURING SYSTEM	391	393	392	NA																			
158	A	9TS001A	TIMING SUBCENTRAL	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	340	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	341	NA																		
			TIMING AND COUNTDOWN SYSTEM	495	496	376 381 497	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
160	A		STAGE AND GROUND DDAS SYSTEM (LCC)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	341	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	153	NA																		
	L	10N001A 10N002B 10N005B 10N007A 10N008A 10N010A 10N0021A 10N624A	ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			STAGE AND GROUND DDAS SYSTEM (LCC)	346	385 386 389 390	381 382 383 564	NA	565																		
161	C	NOTE 1	MEASURING STATION 9330, VAB	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
162	A	9TC001A	TELEMETRY CHECKOUT SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
			TELEMETRY CHECKOUT SYSTEM	488	454	381	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510				
163	B	NOTE 1	RETRANSMISSION ROOM, VAB	NA	NA	NA	NA	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																				
								381	NA																			
164	M	NOTE 1	DEE-6 CONTROL PANEL	NA	NA	NA	NA	NA																				
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 147	NA																				
						476	563	479 562	NA																			
166	A D N	09A370A 09A371A 09A372A 09A373A 09A380A	COUNT CLOCK AND TIMING SYSTEMS	NA	NA	NA	NA	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA	340	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA	375	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA	24 375	NA																				
					COUNT CLOCK AND TIMING SYSTEMS	346 569	380 593	376 377 378 566	NA	571																		
168	C	10A673A	DISCRETE INPUT SIGNAL CONDITIONER (LCC)	NA	NA	NA	NA	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																				
					DISCRETE INPUT SIGNAL CONDITIONER UNIT	346		362	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
170	A	10A602A	DISCRETE OUTPUT SIGNAL CONDITIONER (LCC)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 148	NA																		
			COMPUTER OUTPUT SIGNAL CONDITIONING ASSEMBLY	346		374	NA																			
172	A	1-2016A	DISCRETE CONTROL EQUIPMENT (LCC)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	147 148	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	148	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			DISCRETE CONTROL EQUIPMENT	179	182	181 566	NA	180																		
174			RCA 110A COMPUTER (LCC)	336	398	381 397	NA	399 THRU 450 576																		
	A		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	147	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	147 148	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	147 340	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	505	506	507	508	509	015
174 (Cont)	E		ELECTRICAL INTERFACE	NA	NA	NA	147	NA														
	F		ELECTRICAL INTERFACE	NA	NA	NA	97 98	NA														
	G		ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA														
	H		ELECTRICAL INTERFACE	NA	NA	NA	147	NA														
	J		PHYSICAL INTERFACE	NA	NA	NA	NOTE 2	NA														
	Q		ELECTRICAL INTERFACE	NA	NA	NA	24 147 149	NA														
		110221A	TERMINAL UNIT DATA LINK				NA															
		112001E	POWER SUPPLY UNIT				NA															
		112002D	CONVERTER UNIT MAIN FRAME				NA															
		112004D	MAGNETIC TAPE UNIT, MASTER				NA															
		112005D	SWITCHING UNIT, H.S. MEMORY				NA															
		112007A	MAGNETIC TAPE UNIT, SLAVE				NA															
		112008E	SWITCHING UNIT DATA INPUT/OUTPUT				NA															
		112013A	CONVERTER UNIT ANALOG				NA															
		112014C	CONVERTER UNIT DISCRETE INPUT				NA															
		112014D	CONVERTER UNIT DISCRETE INPUT				NA															
		185170A	TOOL SET				NA															
		185462A	CONVERTER UNIT, LINE PRINTER				NA															
		185464A	PROGRAMMER UNIT, CARD READER				NA															
		185466B	PROGRAMMER UNIT, CARD PUNCH				NA															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
176	J	NOTE 1	RCA 110A COMPUTER SOFTWARE (LCC)	NA	NA	NA	NA	NA																		
			PHYSICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
				333			NA																			
178		NOTE 1	DISPLAY SOFTWARE	NA	NA	NA	NA	NA																		
				334			NA	333																		
180	F		OPER DISPLAY LOGIC AND DATA PROCESSING	337		338	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	24 97 98	NA																		
		CP820014A	OPERATIONAL DISPLAY SYSTEM, LCC				NA																			
		CP820017A	OPERATIONAL DISPLAY SOFTWARE PROGRAM				NA																			
182	A B C H		COMPUTER PERIPHERAL EQUIPMENT (LCC)	346	NA	566 572	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	150	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																		
		10A950A	DATA LINK SWITCH CONTROL PANEL			396 572	NA																			
		10A951A	DATA LINK SWITCH TEST PANEL			371 572	NA																			
		10A953A	SIGNAL CONDITIONER			373 572	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	605	606	607	608	609	610	611	612	613	614
182 (Cont)		10A954A	DATA LINK SWITCH CONDITIONER			370 572	NA																			
		10A960A	POWER DISTRIBUTOR			572 574	NA																			
		10A968A	COMPUTER PANEL ASSEMBLY			572 575	NA																			
		10A970A	SENSE CONTROL PANEL			372 572	NA																			
		10A977A	COMPUTER DISTRIBUTOR			369 572	NA																			
184	A O		DATA LINK TERMINAL (LCC)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 147 339	NA																		
		CPV10221	TERMINAL UNIT, DATA LINK	336	398	397	NA	399 THRU 450																		
190			TERMINAL DISTRIBUTORS 9100, 9102, 9118, 9121 (LCC)	NA	NA	NA	NA	NA																		
	I		ELECTRICAL INTERFACE	NA	NA	NA	149 343	NA																		
	P		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	Q		ELECTRICAL INTERFACE	NA	NA	NA	339 644	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY										
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510			
190 (Cont)	R		ELECTRICAL INTERFACE	NA	NA	NA		NA																			
	V		ELECTRICAL INTERFACE	NA	NA	NA	24 149 339 340 341 342	NA																			
		9RK001A	RACKS AND PANELS SYSTEM	301			NA																				
		9CA001A	CABLES SYSTEM	302		303	NA																				
192			TERMINAL DISTRIBUTORS (WIDEBAND) 9101, 9119, 9120 (LCC)	NA	NA	NA	NA	NA																			
	L		ELECTRICAL INTERFACE	NA	NA	NA	24 339	NA																			
	M		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 147	NA																			
	N		ELECTRICAL INTERFACE	NA	NA	NA	24 340 375	NA																			
	O		ELECTRICAL INTERFACE	NA	NA	NA	24 147 339	NA																			
	Q		ELECTRICAL INTERFACE	NA	NA	NA	24 147 149	NA																			
	Y		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																			
		9RK001A	RACKS AND PANELS SYSTEM	301			NA																				
		9CA001A	CABLES SYSTEM	302		303	NA																				

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
200	R	392600A	FACILITY WATER PUMPING STATION PAD 39-A	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
			FACILITY POWER SUPPLY	NA	NA	NA	NOTE 2	NA																		
201	B	9PB001A	COMMON PUMP STATION (WATER)	162 170	164	171 540	NA	NOTE 7																		
			SPECIAL POWER SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
202	V	9WB001A	ELECTRICAL INTERFACE	NA	NA	NA	24 149	NA																		
			SPECIAL POWER SYSTEM	577	454		NA																			
			WIDEBAND TRANSMISSION SYSTEM	NA	NA	NA	NA	NA																		
203	A	390451A	WIDEBAND TRANSMISSION SYSTEM	468	454	NOTE 7	NA	NOTE 7																		
			FIREX WATER PAD PERIMETER VALVE PIT	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
206	B	390452A	WATER DISTRIBUTION PAD A	163	164	165 557	NA	NOTE 7																		
			INDUSTRIAL WATER PAD PERIMETER VALVE PIT	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
206	B	390452A	WATER DISTRIBUTION PAD A	163	164	165 558	NA	NOTE 7																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510				
207			60-HERTZ POWER SYSTEM	NA	NA	NA	NA	NA																				
	A		FACILITY POWER SUPPLY	NA	NA	NA		NA																				
	B		ELECTRICAL INTERFACE	NA	NA	NA		NA																				
		9P0001A	60-HERTZ POWER SYSTEM	484	454		NA																					
209			FIREX WATER VALVE AND TANK AREA	NA	NA	NA	NA	NA																				
	A		GN2 INTERFACE	NA	NA	NA	NOTE 2	NA																				
	C		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	D		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	E		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	F		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
		390451A	WATER DISTRIBUTION PAD A	163	164	165 557	NA	NOTE 7																				
212			POTABLE WATER PAD VALVE AND TANK AREA	NA	NA	NA	NA	NA																				
	A		GN2 INTERFACE	NA	NA	NA	NOTE 2	NA																				
	B		POTABLE WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	C		POTABLE WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	D		POTABLE WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	502	503	504	505	602	603	604	605	606	015
212 (Cont)		390453A	UTILITIES (POTABLE) WATER AND SEWAGE	166	164	167	NA	NOTE 7																		
215			INDUSTRIAL WATER PAD VALVE AND TANK AREA	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	NOTE 2	NA																		
	E		INDUSTRIAL WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
		390452A	WATER DISTRIBUTION PAD A	163	164	165	NA	NOTE 7																		
218			NITROGEN STORAGE AREA	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	NOTE 2	NA																		
	B		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
	C		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
	E		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
	F		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
	G		FACILITY POWER SUPPLY	NA	NA	NA	NOTE 2	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	117	NA	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
218 (Cont)																										
218C-236M			GN2 PIPING (PURGE - 50 PSI)	NA	NA	NA	NA	NA																		
		390470A	GN2 PURGE PAD A	541	164	542	NOTE 6	NOTE 7																		
218E-227J			GN2 PIPING (PURGE - 50 PSI)	NA	NA	NA	NA	NA																		
		390470A	GN2 PURGE PAD A	541	164	542	NOTE 6	NOTE 7																		
218E-230A			GN2 PIPING (PURGE - 50 PSI)	NA	NA	NA	NA	NA																		
		390470A	GN2 PURGE PAD A	541	164	542	NOTE 6	NOTE 7																		
218F-233M			GN2 PIPING (PURGE - 50 PSI)	NA	NA	NA	NA	NA																		
		390470A	GN2 PURGE PAD A	541	164	542	NOTE 6	NOTE 7																		
220	B		PAD 50 PSI PURGE	NA	NA	NA	NA	NA																		
			GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
		390470A	GN2 PURGE PAD A	541	164	542	NA	NOTE 7																		
221	F		VALVE PIT	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		9NU003A	HELIUM SYSTEM	116	151	185	NA	255																		
		9NU004A	NITROGEN SYSTEM	116	151	185	NA	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510				
223			HAZARD MONITORING SENSORS STORAGE AREA	463	466	465 467	NA	464																		
	A		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644	NA																		
	B		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644	NA																		
		INS-24- SP006	GH2 STORAGE H2 H.M. EQUIPMENT				NA																			
		INS-24- SP007	UV FLAME DETECTOR				NA																			
		INS-24- SP009	LH2 STORAGE H.M. EQUIPMENT				NA																			
		INS-24- SP012	GH2 SENSORS				NA																			
		INS-24- SP016	THERMAL WIRE FIRE DETECTION				NA																			
224		PC-11- SP017	DISCRETE FUNCTION TRANSMISSION SYSTEM				NA																			
			HELIUM STORAGE AREA	NA	NA	NA	NA	NA																		
	G		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	H		FACILITY POWER SUPPLY	NA	NA	NA		NA																		
227		9NU003A	HELIUM SYSTEM	116	151	118	NA	255																		
			RP-1 STORAGE AREA	NA	NA	NA	NA	NA																		
	C		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA	349	NA																		
	I		FACILITY POWER SUPPLY	NA	NA	NA	NOTE 2	NA																		
	J		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
227 (Cont)		9RP001A	RP-1 SYSTEM	116 173	151	172 184	NA	515																		
228	H		RP-1 CONTROL DISTRIBUTOR	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	544	NA																		
		9RP001A	RP-1 ELECTRICAL SYSTEM	352	358	549 550	NA	NOTE 7																		
229			LH2 AND RP-1 STORAGE AREA DISTRIBUTOR 9813	NA	NA	NA	NA	NA																		
		9LH001A	LH2 ELECTRICAL SYSTEM	354	358	355 359 551	NA	NOTE 7																		
		9RP001A	RP-1 ELECTRICAL SYSTEM	352	358	549 550	NA	NOTE 7																		
230	A		LOX STORAGE AREA	NA	NA	NA	NA	NA																		
	C		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
	D		POTABLE WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
	I		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
	J		ELECTRICAL INTERFACE	NA	NA	NA	349	NA																		
			FACILITY POWER SUPPLY	NA	NA	NA	NOTE 2	NA																		
		9LX001A	LIQUID OXYGEN SYSTEM	583	151	195 243 244	NA	NOTE 7																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
231	I	9LX001A	LOX CONTROL DISTRIBUTORS	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	545	NA																		
			LOX ELECTRICAL SYSTEM	353	358	356 553 554	NA	NOTE 7																		
232	L	9LH001A	LH2 BURN POND CABINET 5050A4	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	546	NA																		
			LH2 ELECTRICAL SYSTEM	354	358	355 359 551	NA	NOTE 7																		
233	E	9LH001A	LH2 STORAGE AREA	NA	NA	NA	NA	NA																		
			FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
			LH2 INTERFACE	NA	NA	NA	35 36	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	349	NA																		
			LH2 INTERFACE	NA	NA	NA	15 86	NA																		
			FACILITY POWER SUPPLY	NA	NA	NA		NA																		
			GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																		
			LIQUID HYDROGEN SYSTEM	196	151	196 245 246	NA	NOTE 7																		
234	J	9LH001A	LH2 CONTROL DISTRIBUTOR	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	546	NA																		
			LH2 ELECTRICAL SYSTEM	354	358	355 359 551	NA	NOTE 7																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514	515	
236	B	9NU0024	GH2 STORAGE AREA	NA	NA	NA	NA	NA																				
			GH2 INTERFACE	NA	NA	NA	35 37 69	NA																				
	F		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																				
	H		GH2 INTERFACE	NA	NA	NA	15 37 86	NA																				
	K		ELECTRICAL INTERFACE	NA	NA	NA	349	NA																				
	L		FACILITY POWER SUPPLY	NA	NA	NA		NA																				
	M		GN2 PURGE INTERFACE	NA	NA	NA	NOTE 2	NA																				
			GASEOUS HYDROGEN SYSTEM	116	151	185 247	NA	NOTE 7																				
237	K	NOTE 1	GH2 CONTROL DISTRIBUTOR	NA	NA	NA	NA	NA																				
			ELECTRICAL INTERFACE	NA	NA	NA		NA																				
							NA	NOTE 7																				
239	A	INS-24- SP003 INS-34- SP006 INS-24- SP007	H2 HAZARD MONITORING SYSTEM (PAD)	463	466	465 467	NA	464																				
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644 645 646	NA																				
	L		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644 645 646	NA																				
			PTCR H2 HAZARD MONITOR EQUIPMENT				NA																					
			GH2 STORAGE H2 HAZARD MONITOR EQUIPMENT				NA																					
	UV FLAME DETECTOR				NA																							

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	605	606	607	608	609	610
239 (Cont)		INS-24- SP009	LH2 STORAGE H2 HAZARD MONITOR EQUIPMENT				NA															
		INS-24- SP012	GH2 SENSOR				NA															
		INS-24- SP016	THERMAL WIRE FIRE DETECTOR				NA															
		PC-11- SP017	DISCRETE FUNCTIONS TRANSMISSION SYSTEM				NA															
245			TERMINAL DISTRIBUTOR WIDEBAND 9805	NA	NA	NA	NA	NA														
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA														
	B		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA														
	C		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24	NA														
	D		ELECTRICAL INTERFACE	NA	NA	NA	24	NA														
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 375	NA														
	F		ELECTRICAL INTERFACE	NA	NA	NA		NA														
		NOTE 1		468		469 381 376	na															
251			TERMINAL DISTRIBUTOR TO DTS AND DEE-3 9803	NA	NA	NA	NA	NA														
		NOTE 1					NA															
254			DATA TRANSMISSION SYSTEM 5299	NA	NA	NA	NA	NA														
		9DT001A	DATA TRANSMISSION SYSTEM	350			NA															
257			TERMINAL DISTRIBUTORS AND PATCH RACKS	NA	NA	NA		NA														
	A		ELECTRICAL INTERFACE	NA	NA	NA		NA														
	B		ELECTRICAL INTERFACE	NA	NA	NA		NA														

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	503	504	505	506	507	508
257 (Cont)	C		ELECTRICAL INTERFACE	NA	NA	NA	349	NA														
	D		ELECTRICAL INTERFACE	NA	NA	NA		NA														
	E		ELECTRICAL INTERFACE	NA	NA	NA		NA														
	F		ELECTRICAL INTERFACE	NA	NA	NA		NA														
	G		ELECTRICAL INTERFACE	NA	NA	NA		NA														
	L		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	349	NA														
		NOTE 1		116		344 345	NA															
260			DEE-3 COMPUTER	NA	NA	NA	NA	NA														
		9DE001A	DIGITAL EVENTS EVALUATOR	476 481	482	483	NA															
264			DEE-3 SOFTWARE	NA	NA	NA	NA	NA														
		NOTE 1		482	482		NA															
267			TERMINAL DISTRIBUTOR HARDWIRE 9804	NA	NA	NA	NA	NA														
	A		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 149	NA														
		NOTE 1				283	NA															
270			THEODOLITE HUT	NA	NA	NA	NA	NA														
	A		ELECTRICAL INTERFACE	NA	NA	NA	349	NA														
	C		ELECTRICAL INTERFACE	NA	NA	NA	349	NA														
		NOTE 1		346	474		NA															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQNTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510				
274	D	9EC001A	ENVIRONMENTAL CONTROL SYSTEM	NA	NA	NA	NA	NA																		
			POTABLE WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
			FACILITY POWER SUPPLY	NA	NA	NA		NA																		
277	A	390405A	ENVIRONMENTAL CONTROL SYSTEM	116 242	151	241	NA	240																		
			COMPRESSED AIR FACILITY	NA	NA	NA	NA	NA																		
			FACILITY AIR INTERFACE	NA	NA	NA	NOTE 2	NA																		
			COMPRESSED AIR FACILITY PAD A	168	164	169	NA	NOTE 7																		
281	B	9LH001A	BURN POND	NA	NA	NA	NA	NA																		
			GH2 INTERFACE	NA	NA	NA	35 37 69	NA																		
	C		FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
			LH2 INTERFACE	NA	NA	NA	35 36	NA																		
	H		GH2 INTERFACE	NA	NA	NA	15	NA																		
			LH2 INTERFACE	NA	NA	NA	15 86	NA																		
	L		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
			LIQUID HYDROGEN SYSTEM	196	151	196 245 246	NA	NOTE 7																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
282	C	390450A	ARTESIAN WELL AND PUMP	NA	NA	NA	NA	NA																		
			FIREX WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
			PAD WATER SYSTEMS, GENERAL				NA	NOTE 7																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
300			WATER SYSTEM (ML)	NA	NA	NA	NA	NA																		
	E		INDUSTRIAL WATER INTERFACE	NA	NA	NA	NOTE 2	NA																		
	F		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	164	174 183	NA	NOTE 2																		
303			GN2 HIGH PRESSURE DISTRIBUTION SYSTEM	NA	NA	NA	NA	NA																		
	A		FACILITY AIR INTERFACE	NA	NA	NA	NOTE 2	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	117	NA	253																		
306			GN2 DISTRIBUTION PANEL	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	117 186 188	NA	253																		
309			FACILITY AIR STANDBY PANEL	NA	NA	NA	NA	NA																		
	A		FACILITY AIR/GN2 INTERFACE	NA	NA	NA	NOTE 2	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	178 192 270	NA	253																		
			PNEUMATIC VALVE PANEL 11	NA	NA	NA	NA	NA																		
312		9NU004A	NITROGEN SYSTEM	116	151	117 257	NA	253																		
		9NU003A	HELIUM SYSTEM	116	151	118 257	NA	255																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
315	A	9NU003A	HELIUM HIGH PRESSURE DISTRIBUTION SYSTEM	NA	NA	NA	NA	NA																		
			FACILITY AIR INTERFACE	NA	NA	NA	NOTE 2	NA																		
			HELIUM SYSTEM	116	151	118	NA	255																		
318		9NU003A	HELIUM DISTRIBUTION PANEL	NA	NA	NA	NA	NA																		
			HELIUM SYSTEM	116	151	118 190 191	NA	255																		
321	A		DEE-6 REMOTE SUBSYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	375	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 147	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
			PHYSICAL INTERFACE	NA	NA	NA	NOTE 1	NA																		
		NOTE 1		476	563	376 381 562 567	NA																			
323	D		DEE-6 SOFTWARE	NA	NA	NA	NA	NA																		
			PHYSICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
		NOTE 1		476	335		NA																			
326	C		PROPELLANT TANKING COMPUTER SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 147 343	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
326 (Cont)		9PT001A	PROPELLANT TANKING COMPUTER SYSTEM	452	454	453	NA																			
329			DATA LINK TERMINAL	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
	C		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 349	NA																		
		CPV10221	TERMINAL UNIT, DATA LINK	336	398	397 566	NA	399 THRU 450																		
332			COMPUTER PERIPHERAL EQUIPMENT	346	NA	566 573	NA																			
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 147	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
		10A951A	DATA LINK SWITCH TEST PANEL			371	NA																			
		10A953A	SIGNAL CONDITIONER PANEL			373	NA																			
		10A954A	DATA LINK SWITCH PANEL			370	NA																			
		10A960A	POWER DISTRIBUTOR			574	NA																			
		10A970A	SENSE CONTROL PANEL			372	NA																			
		10A977A	COMPUTER PROGRAM DISTRIBUTOR			369	NA																			
334			DISCRETE CONTROL EQUIPMENT	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	147 148	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	98	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
334 (Cont)	C		ELECTRICAL INTERFACE	NA	NA	NA	NA	NA																		
	D		FACILITY POWER SUPPLY	NA	NA	NA	24 149	NA																		
		1-2016A	DISCRETE CONTROL EQUIPMENT	179	182	181 566	NA	180																		
335			PROPELLANT PATCH RACKS	NA	NA	NA	NA	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	545 546	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	544	NA																		
	K		ELECTRICAL INTERFACE	NA	NA	NA	343	NA																		
		NOTE 1					NA																			
337			COUNT CLOCK AND TIMING SYSTEM REPEATERS	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	375	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	375	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 375	NA																		
		09A374A 09A375A 09A379A	COUNT CLOCK AND TIMING SYSTEM REPEATERS	346 569	378 380	376 377 378 395 566 567	568	571																		
340			RCA 110A COMPUTER SOFTWARE	NA	NA	NA	NA	NA																		
	G		PHYSICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
		NOTE 1		333			NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
343			RCA 110A COMPUTER (ML 1 or 2)	336	398	376 381 397 566	NA	399 THRU 450 576																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	147 148	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24 147 343	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	375	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	147	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA	98 147 148	NA																		
	G		PHYSICAL INTERFACE	NA	NA	NA	NOTE 2	NA																		
	I		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24	NA																		
	J		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
		110221A	TERMINAL UNIT DATA LINK				NA																			
		112001E	POWER SUPPLY UNIT				NA																			
		112002C	CONVERTER UNIT MAIN FRAME				NA																			
		112004A	MAGNETIC TAPE UNIT, MASTER				NA																			
		112005B	SWITCHING UNIT, H.S. MEMORY				NA																			
		112005G	SWITCHING UNIT, H.S. MEMORY				NA																			
		112007B	MAGNETIC TAPE UNIT, SLAVE				NA																			
		112008E	SWITCHING UNIT DATA INPUT/OUTPUT				NA																			
		112013A	CONVERTER UNIT ANALOG				NA																			

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									1	2	3	A	B	1	2	3	501	502	503	504	505	506	507	508	509	510
343 (Cont)																										
		112014C	CONVERTER UNIT DISCRETE INPUT				NA																			
		112014D	CONVERTER UNIT DISCRETE INPUT				NA																			
		185170A	TOOL SET				NA																			
		185462A	CONVERTER UNIT, LINE PRINTER				NA																			
		185464A	PROGRAMMER UNIT, CARD READER				NA																			
		185466B	PROGRAMMER UNIT, CARD PUNCH				NA																			
346			DISCRETE INPUT SIGNAL CONDITIONER	NA	NA	NA	NA	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA	98 147 148	NA																		
		10A673A	DISCRETE INPUT SIGNAL CONDITIONING UNIT	346		362	NA																			
348			DISCRETE OUTPUT SIGNAL CONDITIONER	NA	NA	NA	NA	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	98 148	NA																		
		10A602A	COMPUTER OUTPUT SIGNAL CONDITIONING ASSEMBLY	346		374	NA																			
349			LAUNCH SUPPORT EQUIPMENT RACKS 6622, 6623	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	586	NA																		
	L		ELECTRICAL INTERFACE	NA	NA	NA	153	NA																		
		NOTE 1				381	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514	515																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
350			STAGE AND GROUND DDAS	346 570				565																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505	505	505	505
356 (Cont)	D		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	E		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	342	NA																		
	F		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24	NA																		
	G		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	H		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	139	NA																		
	I		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24	NA																		
	J		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
	K		ELECTRICAL INTERFACE	NA	NA	NA	545 546	NA																		
	L		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
	M		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
	N		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
357		SS10A00- 503A00A	ESE FOR LAUNCH VEHICLE SA-503	346		487	NA																			
			LEAK DETECTOR CONTROL AND MONITOR RACK C7-57, S-II	NA	NA	NA	NA	NA																		
	N		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 588 590	NA																		
		C7-57	LEAK DETECTOR CONTROL AND MONITOR RACK	595			NA																			

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									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510			
358	B	C7-56	LEAK DETECTOR AMPLIFIER SEQUENCER RACK, C7-56, S-II	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 588 589	NA																			
			LEAK DETECTOR AMPLIFIER SEQUENCER RACK	594			NA																				
360	A	NOTE 1	Q-BALL COVER CONTROL SYSTEM	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	587	NA																			
								NA																			
362	A	NOTE 1	HOLDDOWN ARM CONTROL SYSTEM	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	586	NA																			
								NA																			
363	A	NOTE 1	POWER DISTRIBUTOR 9073	NA	NA	NA	NA	NA																			
			FACILITY POWER SUPPLY	NA	NA	NA		NA																			
								NA																			
364	A	NOTE 1	TAIL SERVICE MAST CONTROL SYSTEM	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	585	NA																			
								NA																			
365	B	NOTE 1	UMBILICAL POWER DISTRIBUTOR 9093	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA		NA																			
								NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
366	A	NOTE 1	SERVICE ARM CONTROL SYSTEM	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	584	NA																		
							NA																			
367	B M	NOTE 1	AZIMUTH ALIGNMENT	346	474	456	NA																			
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA		NA																		
368	C	NOTE 1	UMBILICAL POWER DISTRIBUTOR 9094	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
							NA																			
370			COUNTDOWN AND IGNITION SEQUENCER	346	252	158 348	568																			
		10A025A	S-IC IGNITOR BUS DIST ASSY				NA																			
		10A027A	S-IC SEQUENCER POWER SUPPLY				NA																			
		10A028A	S-IC TERMINAL COUNTDOWN SEQUENCER				NA																			
		10A029A	S-IC IGNITION SEQUENCER ASSY				NA																			
373	A H		LH2 HAZARD MONITORING SENSORS (ML)	463	466	465 467	NA	464																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644 647	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644 647	NA																		
		INS-24- SP005	ML H2 HAZARD MONITOR EQUIPMENT				NA																			
		INS-24- SP007	UV FLAME DETECTOR				NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY						
									1	2	3	A	B	1	2	3	305	405	505	605	705	805	905
373 (Cont)		INS-24- SP012	GH2 SENSOR				NA																
		INS-24- SP016	THERMAL WIRE FIRE DETECTOR				NA																
		PC-11- SP017	DISCRETE FUNCTIONS TRANSMISSION SYSTEM				NA																
376			HAZARDOUS GAS ANALYZER	NA	NA	NA	NA	NA															
	A		FACILITY WATER INTERFACE	NA	NA	NA	14	NA															
	G		ELECTRICAL INTERFACE	NA	NA	NA	5 24	NA															
	S		GAS SAMPLE INTERFACE	NA	NA	NA	14	NA															
	T		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	5 24	NA															
		10R115A	SATURN V HAZARDOUS GAS ANALYZER	120	122 333	123 233	NA	121 124															
378			UMBILICAL I&C DISTRIBUTOR 9092	NA	NA	NA	NA	NA															
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 343	NA															
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																
381			UMBILICAL I&C DISTRIBUTOR 9091	NA	NA	NA	NA	NA															
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 343	NA															
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
384	A	9ML001A	UMBILICAL I&C DISTRIBUTOR 9090	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116		492	NA																			
387	A	9ML001A	I&C DISTRIBUTOR 9082	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	584 585 586 587	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 588 589	NA																		
	C	9ML001A	ELECTRICAL INTERFACE	NA	NA	NA	545 546	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116		492	NA																			
390	A	10A925A	CROSSOVER DISTRIBUTOR 6640 (S-IC AFT)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 270	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	C	10A925A	ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 343	NA																		
			S-IC AFT CROSSOVER DISTRIBUTOR	507		509	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
390 (Cont)																										
390C-465D		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
390C-466D		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
390C-467F		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
390C-489D		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
393			CROSSOVER DISTRIBUTOR 6641 (S-IC AFT)	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 343	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	12 24	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		10A926A	CROSSOVER DISTRIBUTOR ASSEMBLY (S-IC AFT)	451		493	NA																			
393B-465D		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
393B-485C		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
393 (Cont)																										
393B-489D			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
396			RANGE SAFETY GROUND CHECKOUT SYSTEM	NA	NA	NA	NA	NA																		
	E		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	342	NA																		
		9DR001A	RANGE SAFETY CHECKOUT SYSTEM	470		472	NA																			
398			UMBILICAL I&C DISTRIBUTOR 9006	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
399			UMBILICAL I&C DISTRIBUTOR 9014	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	588	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	605	705	805	905	1005	1105	1205	1305	1405
400	A	9ML001A	UMBILICAL I&C DISTRIBUTOR 9032	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
401	B	9QB001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
			Q-BALL COVER REMOVAL SYSTEM	NA	NA	NA	NA	NA																		
			LANYARD INTERFACE	NA	NA	NA	101 102 141	NA																		
			Q-BALL SYSTEM	116	151	300 559 560	NA	523																		
402	A	10R116A	DRRS REDUNDANT RETRACT SYSTEM	NA	NA	NA	NA	NA																		
			GN2 INTERFACE	NA	NA	NA	99	NA																		
			SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331	NA	522																		
402A- 406J		9NU004A	GN2 PIPING	NA	NA	NA	NA	NA																		
			NITROGEN SYSTEM	99 116	116 151	117 257	NOTE 6	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510				
403			DRRS WINCH CONTROL CABINET	NA	NA	NA	NA	NA																				
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 99	NA																				
	B		FACILITY AIR INTERFACE	NA	NA	NA	99	NA																				
	C		FACILITY AIR INTERFACE	NA	NA	NA	99	NA																				
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331	NA	522																				
403C- 404A			FACILITY AIR PIPING	NA	NA	NA	NA	NA																				
		9NU004A	NITROGEN SYSTEM	99 116	116 151	117 257	NOTE 6	253																				
404			DRRS WINCH	NA	NA	NA	NA	NA																				
	A		FACILITY AIR INTERFACE	NA	NA	NA	99	NA																				
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331 524	NA	522																				
406			DRRS CONSOLE	NA	NA	NA	NA	NA																				
	A		FACILITY AIR INTERFACE	NA	NA	NA	99	NA																				
	B		GN2 PURGE INTERFACE	NA	NA	NA	99	NA																				
	C		GN2 INTERFACE	NA	NA	NA	99	NA																				
	D		GN2 INTERFACE	NA	NA	NA	99	NA																				
	E		HYDRAULIC FLUID INTERFACE	NA	NA	NA	99	NA																				
	F		GN2 INTERFACE	NA	NA	NA	99	NA																				
	G		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																				
	H		GN2 INTERFACE	NA	NA	NA	99	NA																				
	I		ELECTRICAL INTERFACE	NA	NA	NA		NA																				
	J		GN2 INTERFACE	NA	NA	NA	99	NA																				

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	605	605	605	605	605	605	605	605	605	605
406 (Cont)		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331 529	NA	522																		
406C- 409B			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	99 116	151	117 257	NOTE 6	253																		
406D- 410A			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	99 116	151	117 257	NOTE 6	253																		
406E- 411A			HYDRAULIC FLUID PIPING	NA	NA	NA	NA	NA																		
		9VS001A	VEHICLE AUXILIARY SUPPORT SYSTEMS	99 116	116 151	33	NOTE 6																			
406F- 411B			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	99 116	151	117 257	NOTE 6	253																		
406I- 410B			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		NOTE 1					NA																			
407			DRRS KICKOFF CONTROL PANEL	NA	NA	NA	NA	NA																		
	B		GN2 INTERFACE	NA	NA	NA	99	NA																		
	C		GN2 INTERFACE	NA	NA	NA	99	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	129 331	NA	522																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	605	705	805	905	015	025	035	045	055
407 (Cont)																										
407C- 409A			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	99 116	151	117 257	NOTE 6	253																		
409			DRRS KICKOFF CYLINDERS	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	99	NA																		
	B		GN2 INTERFACE	NA	NA	NA	99	NA																		
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331 525	NA	522																		
410			DRRS LATCHBACK SYSTEM	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	99	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331 526	NA	522																		
411			DRRS DAMPER ARM	NA	NA	NA	NA	NA																		
	A		HYDRAULIC FLUID INTERFACE	NA	NA	NA	99	NA																		
	B		GN2 INTERFACE	NA	NA	NA	99	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	E		PHYSICAL INTERFACE	NA	NA	NA	100 140	NA																		
		10R116A	SATURN V DAMPING, RETRACT AND RECONNECT SYSTEM	109	108	331	NA	522																		

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									1	2	3	A	B	1	2	3	605	605	605	605	605	605
413	A		IU COOLING UNIT (PRIMARY)	NA	NA	NA	NA	NA														
			ELECTRICAL INTERFACE	NA	NA	NA	24 34 227	NA														
			GN2 PURGE INTERFACE	NA	NA	NA	24 34	NA														
			GN2 INTERFACE	NA	NA	NA	24 34	NA														
	D		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	24 34 149	NA														
413A- 420F		09R102A	IU GROUND SUPPORT COOLING UNIT	206	210	211 212	NA	513														
			ELECTRICAL CABLE	NA	NA	NA	NA	NA														
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6															
414	A		IU COOLING UNIT (ALTERNATE)	NA	NA	NA	NA	NA														
			GN2 PURGE INTERFACE	NA	NA	NA	24 34	NA														
			GN2 INTERFACE	NA	NA	NA	24 34	NA														
			ELECTRICAL INTERFACE	NA	NA	NA	24 34 227	NA														
	D		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	24 34 149	NA														
		09R102A	IU GROUND SUPPORT COOLING UNIT	206	210	211 212	NA	513														

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	205	206	207	208	209	210	211	212	213	214
414 (Cont)																										
414C- 420F		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
416			FLOW CONTROL VALVE BOX	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	34	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 34 227	NA																		
	C		GN2 INTERFACE	NA	NA	NA	34 57	NA																		
	D		WATER METHANOL INTERFACE	NA	NA	NA	34	NA																		
		RM1801A	IU GROUND SUPPORT COOLING UNIT, FLOW CONTROL VALVE BOX	271	209	207 208	NA																			
416B- 420F			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
417			PNEUMATIC CONSOLE (IU)	NA	NA	NA	NA	NA																		
	B		GN2 PURGE INTERFACE	NA	NA	NA	22 135	NA																		
	C		GN2 INTERFACE	NA	NA	NA	22 57 135	NA																		
	D		GN2 SUPPLY INTERFACE	NA	NA	NA	135	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 152	NA																		

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									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
417 (Cont)	J		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	135 149	NA																		
		09R104A	IU PNEUMATIC SUPPLY AND MONITORING SYSTEM CONSOLE ASSY	203	202	204 205	NA	514																		
417E- 420F			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
419	A		UMBILICAL I&C DISTRIBUTOR 9028	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
420	A		CROSSOVER DISTRIBUTOR 6281 (IU)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 57	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
		10A928A	CROSSOVER DISTRIBUTOR IU STAGE	365		489	NA																			
420B- 518M			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
421	C D	9ML001A	UMBILICAL POWER DISTRIBUTOR 9027	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
423	B D E L	204303	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
			VACUUM MONITOR CONSOLE DSV-4B-303 (S-IVB)	NA	NA	NA	NA	NA																		
			GN2 PURGE INTERFACE	NA	NA	NA	15 22 92	NA																		
		9ML001A	ELECTRICAL INTERFACE	NA	NA	NA	15 24 26 92	NA																		
			FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
			GAS SAMPLE INTERFACE	NA	NA	NA	15 26 92	NA																		
423D- 441C		9ML001A	COMMON BULKHEAD VACUUM MONITORING CONSOLE	219		220	NA																			
			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151		NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505	505	505	505
427			MOBILE HYDRAULIC SERVICER S-II/S-IVB	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	66 72	NA																		
	B		HYDRAULIC FLUID INTERFACE	NA	NA	NA	66 72	NA																		
	C		HYDRAULIC FLUID INTERFACE	NA	NA	NA	44 66	NA																		
	D		GN2 INTERFACE	NA	NA	NA	44 66	NA																		
	E		FACILITY WATER INTERFACE	NA	NA	NA	66	NA																		
	F		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
		4B0477	HOSE REEL CART	272	199	534	NA	521																		
		4B0478	POWER CABLE REEL CART	272	199	535	NA	521																		
		4B0479	HYDRAULIC PUMPING UNIT	272	199	273	NA	521																		
429			LOX VALVE COMPLEX (S-IVB)	NA	NA	NA	NA	NA																		
		9LX001A	LIQUID OXYGEN SYSTEM	583	151	195 243	NA																			
430			PROPELLANT CONTROL CONSOLE (S-IVB)	NA	NA	NA	NA	NA																		
	A		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
		9NU004A	NITROGEN SYSTEM	116	151		NA	253																		
431			PNEUMATIC CONSOLE NO. 432A (S-IVB)	NA	NA	NA	NA	NA																		
	A		HELIUM INTERFACE	NA	NA	NA	15 16 23	NA																		
	B		HELIUM INTERFACE	NA	NA	NA	15 16 23	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
431 (Cont)																										
	C		HELIUM INTERFACE	NA	NA	NA	15 16 23	NA																		
	D		GN2 INTERFACE	NA	NA	NA	15 16 22	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 543	NA																		
		4B0432A	PNEUMATIC CONSOLES DSV-4B-432A	223	224	225 555	NA	519																		
431B- 437D			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	15 116	151	118	NOTE 6	255																		
431C- 438D			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	15 116	151	118	NOTE 6	255																		
431D- 438C			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	15 116	151	117	NOTE 6	253																		
431E- 433C			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
432	A	9ML001A	UMBILICAL I&C DISTRIBUTOR 9026	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
433	A	10A937A	CROSSOVER DISTRIBUTOR 6261 (S-IVB FWD)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 341	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
433B- 524C		9ML001A	CROSSOVER DIST S-IVB FWD	284		490	NA																			
			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
433C- 437B		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
433C- 438H		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY										
									1	2	3	A	B	1	2	3	505	506	507	508	509	510					
434	D	9NU004A	GN2 DISTRIBUTION PANEL 12	NA	NA	NA	NA	NA																			
			GN2 INTERFACE	NA	NA	NA	87	NA																			
			NITROGEN SYSTEM	116	151	256	NA	253																			
435	A	NOTE 1	ARGON BOTTLE SUPPLY	NA	NA	NA	NA	NA																			
			ARGON INTERFACE	NA	NA	NA	15 92	NA																			
							NA																				
436	K	9LH001A	LH2 VALVE COMPLEX (S-IVB)	NA	NA	NA	NA	NA																			
			LH2 INTERFACE	NA	NA	NA	15 86	NA																			
			LIQUID HYDROGEN SYSTEM	196	151	196 246	NA																				
437	B D E F G H K		HEAT EXCHANGER DSV-4B-438A (S-IVB LH2)	NA	NA	NA	NA	NA																			
			ELECTRICAL INTERFACE	NA	NA	NA	24 543	NA																			
			HELIUM INTERFACE	NA	NA	NA	15 23 86	NA																			
			GH2 INTERFACE	NA	NA	NA	15 84	NA																			
			HELIUM INTERFACE	NA	NA	NA	15 86	NA																			
			GN2 INTERFACE	NA	NA	NA	15 86	NA																			
			GH2 INTERFACE	NA	NA	NA	15	NA																			
			LH2 INTERFACE	NA	NA	NA	15 86	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
437 (Cont)		4B0438A	COLD GAS GENERATOR	213	214	215 555	NA	518																		
437D- 438F			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	15 116	151	118	NOTE 6	255																		
437F- 438B			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	15 116	151	118	NOTE 6	255																		
437G- 438A			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	15 116	151	117	NOTE 6	253																		
438	A		PNEUMATIC CONSOLE NO. 433A (S-IVB)	NA	NA	NA	NA	NA																		
			GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
	B		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		
	C		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
	D		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		
	E		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
438 (Cont)	F		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		
	G		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	I		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		
	J		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
	K		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
		4B0433A	PNEUMATIC CONSOLE DSV-4B-433A	218	217	216 555	NA	520																		
439			UMBILICAL POWER DISTRIBUTOR 9023	NA	NA	NA	NA	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
440			UMBILICAL I&C DISTRIBUTOR 9022	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505	505	505	505
441			CROSSOVER DISTRIBUTOR 6221 (S-IVB AFT)	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 84	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		10A938A	CROSSOVER DISTRIBUTOR ASSEMBLY	502		501	NA																			
441B- 530E			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
442			LOX VALVE COMPLEX (S-II)	NA	NA	NA	NA	NA																		
		9LX001A	LIQUID OXYGEN SYSTEM	583	151	195 243	NA																			
443			VACUUM PUMP S7-29 (S-II)	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 588	NA																		
	B		GN2 INTERFACE	NA	NA	NA	22 73	NA																		
	C		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	D		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
		S7-29	VACUUM PUMP STATIONARY	177	198	275	588	177																		
443B- 448D			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	73 116	151	117	NOTE 6	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
443 (Cont)																										
443C- 448E		9NU003A	HELIUM PIPING	NA	NA	NA	NA	NA																		
			HELIUM SYSTEM	73 116	151	118	NOTE 6	255																		
443C- 459B			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	73 116	151	118	NOTE 6	255																		
445			PNEUMATIC CONTROL CONSOLE S7-41B (S-II)	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	22 68 73	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 28	NA																		
	C		HELIUM INTERFACE	NA	NA	NA	23 68 73	NA																		
	D		HELIUM INTERFACE	NA	NA	NA	23 47 68 73	NA																		
		S7-41	PNEUMATIC CONTROL CONSOLE S7-41 SECTION B	175	194	193	NA	516																		
445A- 452F			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	117	NOTE 6	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
445 (Cont)																										
445A- 457C		9NU004A	GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	35 116	151	117	NOTE 6	253																		
445B- 462C			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
445C- 452H			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	116	151	118	NOTE 6	255																		
445C- 456A			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	35 116	151	118	NOTE 6	255																		
445C- 457E			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	35 116	151	118	NOTE 6	255																		
445C- 458B			HELIUM PIPING	NA	NA	NA	NA	NA																		
		9NU003A	HELIUM SYSTEM	35 116	151	118	NOTE 6	255																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505	505	505	505
448			INSULATION PURGE CONSOLE AND FILTER ASSEMBLY S7-45A&C (S-II)	NA	NA	NA	NA	NA																		
	A		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	B		GN2 INTERFACE	NA	NA	NA	22 73	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24 588	NA																		
	D		GN2 INTERFACE	NA	NA	NA	22 73	NA																		
	E		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	F		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	G		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149 588	NA																		
		S7-45A	INSULATION PURGE PNEUMATIC CONTROL CONSOLE	176	197	274	588																			
		S7-45C	FILTER ASSEMBLY	176	197	274	588																			
448D- 459A			GN2 PIPING	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	73 116	151	117	NOTE 6	253																		
			HELIUM PIPING	NA	NA	NA	NA	NA																		
448E- 459B		9NU003A	HELIUM SYSTEM	73 116	151	118	NOTE 6	255																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
452	A		PNEUMATIC REGULATION AND DISTRIBUTION CONSOLE S7-41A (S-II)	NA	NA	NA	NA	NA																		
			HELIUM INTERFACE	NA	NA	NA	23 35 69	NA																		
			GN2 INTERFACE	NA	NA	NA	22 35 69	NA																		
			GN2 INTERFACE	NA	NA	NA	22 69	NA																		
			HELIUM INTERFACE	NA	NA	NA	23 35 69	NA																		
			GN2 INTERFACE	NA	NA	NA	22 69	NA																		
			GN2 INTERFACE	NA	NA	NA	69	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 28	NA																		
			HELIUM INTERFACE	NA	NA	NA	23 69 73	NA																		
452A- 459B	I	S7-41	HELIUM INTERFACE	NA	NA	NA	23 35 69	NA																		
			REGULATION AND DISTRIBUTION CONSOLE S7-41 SECTION A	175	194	193	NA	517																		
			HELIUM PIPING	NA	NA	NA	NA	NA																		
			HELIUM SYSTEM	35 116	151	118	NOTE 6	255																		
452B- 458D		9NU003A	GN2 PIPING	NA	NA	NA	NA	NA																		
			NITROGEN SYSTEM	35 116	151	117	NOTE 6	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
452 (Cont)																										
452F- 457C		9NU004A	GN2 PIPING NITROGEN SYSTEM	NA 35 116	NA 151	NA 117	NA NOTE 6	NA 253																		
452G- 462C		9ML001A	ELECTRICAL CABLE LAUNCHER-UMBILICAL TOWER SYSTEM	NA 116	NA 116 151	NA 492	NA NOTE 6	NA																		
452H- 456A		9NU003A	HELIUM PIPING HELIUM SYSTEM	NA 35 116	NA 151	NA 118	NA NOTE 6	NA 255																		
452H- 457E		9NU003A	HELIUM PIPING HELIUM SYSTEM	NA 35 116	NA 151	NA 118	NA NOTE 6	NA 255																		
452H- 458B		9NU003A	HELIUM PIPING HELIUM SYSTEM	NA 35 116	NA 151	NA 118	NA NOTE 6	NA 255																		
453	A	9ML001A	UMBILICAL I&C DISTRIBUTOR 9020 ELECTRICAL INTERFACE LAUNCHER-UMBILICAL TOWER SYSTEM	NA NA 116	NA NA 116 151	NA NA 492	NA 24 NA NOTE 2	NA NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
454			CROSSOVER DISTRIBUTOR 6201 (S-II FWD)	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 47	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		10A927A	CROSSOVER DISTRIBUTOR ASSEMBLY, S-II FWD	361		503	NA																			
454B- 551D			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
455			LH2 VALVE COMPLEX (S-II)	NA	NA	NA	NA	NA																		
		9LH001A	LIQUID HYDROGEN SYSTEM	196	151	196 246	NA																			
456			HEAT EXCHANGER (S-II LH2)	NA	NA	NA	NA	NA																		
	A		HELIUM INTERFACE	NA	NA	NA	35 36	NA																		
	C		GH2 INTERFACE	NA	NA	NA	35 36 37	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 28	NA																		
	F		LH2 INTERFACE	NA	NA	NA	35 36	NA																		
		A7-71	HEAT EXCHANGER LIQUID HYDROGEN (S-II)	222		221	641	512																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCIHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
456 (Cont)																										
456A- 458B		9NU003A	HELIUM PIPING	NA	NA	NA	NA	NA																		
			HELIUM SYSTEM	35 116	151	118	NOTE 6	255																		
456C- 457A			GH2 PIPING	NA	NA	NA	NA	NA																		
		9NU0024	GASEOUS HYDROGEN SYSTEM	35 116	151	185 247	NOTE 6																			
456E- 462C			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
457			GH2 SERVICING CONSOLE S7-41D (S-II)	NA	NA	NA	NA	NA																		
	A		GH2 INTERFACE	NA	NA	NA	35 37 69	NA																		
	B		GH2 INTERFACE	NA	NA	NA	35 37 69	NA																		
	C		GN2 INTERFACE	NA	NA	NA	22 35 69	NA																		
	E		HELIUM INTERFACE	NA	NA	NA	23 35 69	NA																		
	G		GH2 INTERFACE	NA	NA	NA	35 37 69	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY							
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510
457 (Cont)	H		ELECTRICAL INTERFACE	NA	NA	NA	24 28	NA																
	P		HELIUM INTERFACE	NA	NA	NA	23 35 69	NA																
		S7-41	GH2 SERVICING CONSOLE S7-41 SECTION D	175	194	193	641	510																
457E- 458B			HELIUM PIPING	NA	NA	NA	NA	NA																
		9NU003A	HELIUM SYSTEM	35 116	151	118	NOTE 6	255																
457H- 462C			ELECTRICAL CABLE	NA	NA	NA	NA	NA																
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																	
458			PNEUMATIC ACTIVATION PURGE AND CHECKOUT CONSOLE S7-41C (S-II)	NA	NA	NA	NA	NA																
	A		ELECTRICAL INTERFACE	NA	NA	NA	24 28	NA																
	B		HELIUM INTERFACE	NA	NA	NA	23 35 67	NA																
	C		HELIUM INTERFACE	NA	NA	NA	23 35 67	NA																
	D		GN2 INTERFACE	NA	NA	NA	22 35 67	NA																
		S7-41	PNEUMATIC ACTIVATION PURGE AND CHECKOUT CONSOLE S7-41 SECTION C	175	194	193	NA	511																

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
458 (Cont)																										
458A- 462C		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
459			LEAK DETECTION ANALYZER C7-55 (S-II)	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	22 37 73	NA																		
	B		HELIUM INTERFACE	NA	NA	NA	23 37 73	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	37 588	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	588	NA																		
	F		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	24 149	NA																		
		C7-55	LEAK DETECTOR PROPELLANT TANKS INSULATION	201	200	226	NA																			
459D- 462C			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY						
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511
460	D	9ML001A	UMBILICAL POWER DISTRIBUTOR 9017	NA	NA	NA	NA	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA															
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																
461	A	9ML001A	UMBILICAL I&C DISTRIBUTOR 9016	NA	NA	NA	NA	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA															
			LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	588	NOTE 2															
462	A B C D	10A920A	CROSSOVER DISTRIBUTOR 6161 (S-II AFT)	NA	NA	NA	NA	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24 40 341	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24 40	NA															
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA															
			CROSSOVER DISTRIBUTOR	508		504	NA																
			ELECTRICAL CABLE	NA	NA	NA	NA	NA															
462B- 557G		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																
463		9NU004A	PROPELLANT CONTROL CONSOLE (S-II)	NA	NA	NA	NA	NA															
			NITROGEN SYSTEM	116	151	117 185	NA	253															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMT'S	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	605	606	607	608	609	610	611
464			FORWARD UMBILICAL SERVICE UNIT (S-IC)	NA	NA	NA	NA	NA																		
	B		GN2 PURGE INTERFACE	NA	NA	NA	18 22	NA																		
	C		GN2 INTERFACE	NA	NA	NA	18 22	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA																		
	F		GN2 INTERFACE	NA	NA	NA	18 22	NA																		
		241171A	S-IC FORWARD UMBILICAL SERVICE UNIT	248	251	250	NA	249																		
464D-470B			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
465			PNEUMATIC CHECKOUT RACKS 1-4 (S-IC)	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	19 20 22	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA																		
	E		HELIUM INTERFACE	NA	NA	NA	19 20 23	NA																		
	F		GN2 INTERFACE	NA	NA	NA	19 20 22	NA																		
		240901A	PNEUMATIC CHECKOUT RACK NO. 1	134	128	130	NA	129																		
		240911A	PNEUMATIC CHECKOUT RACK NO. 2	131	128	130	NA	129																		
		240921A	PNEUMATIC CHECKOUT RACK NO. 3	132	128	130	NA	129																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY						
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505
465 (Cont)		240931A	PNEUMATIC CHECKOUT RACK NO. 4	133	128	130	NA	129															
465F- 466H			GN2 PIPING	NA	NA	NA	NA	NA															
		9NU004A	NITROGEN SYSTEM	20 116	151	117	NOTE 6	253															
466			PNEUMATIC VALVE CONSOLE RACKS 5-9 (S-IC)	NA	NA	NA	NA	NA															
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA															
	H		GN2 INTERFACE	NA	NA	NA	19 20 22 25	NA															
		236531A	S-IC PNEUMATIC CONSOLE RACK 5-9	296	299	298	NA																
466H- 467G			GN2 PIPING	NA	NA	NA	NA	NA															
		9NU004A	NITROGEN SYSTEM	20 116	151	117	NOTE 6	253															
467			PNEUMATIC VALVE CONSOLE RACKS 1-4 (S-IC)	NA	NA	NA	NA	NA															
	C		HELIUM INTERFACE	NA	NA	NA	20 21 23	NA															
	D		GN2 INTERFACE	NA	NA	NA	20 21	NA															
	F		ELECTRICAL INTERFACE	NA	NA	NA	27	NA															
	G		GN2 INTERFACE	NA	NA	NA	20 21 22	NA															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	605	606	607	608	609	610	611	612	613	614
467 (Cont)	N		HELIUM INTERFACE	NA	NA	NA	23	NA																		
		236541A	S-IC PNEUMATIC CONSOLE (1-4)	308	299	298	NA	297																		
468	A		UMBILICAL I&C DISTRIBUTOR 9010	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	12 24	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
469	C		UMBILICAL POWER DISTRIBUTOR 9013	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NA																			
470	A		CROSSOVER DISTRIBUTOR 6121 (S-IC FWD)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	12 24	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 27	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	24 83	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		10A929A	CROSSOVER DISTRIBUTOR ASSEMBLY	505		506	NA																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	505	505	505	505	505	505	505	505	505
471	F	9SA001A	SERVICE ARM AND TAIL SERVICE MAST HYDRAULIC CHARGING UNIT	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	24 39	NA																		
			SERVICE ARMS AND ASSOCIATED EQUIP- MENT	116	151	294	NA																			
473	A B D	9FA001A	HOLDDOWN AND RELEASE PANEL	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	586	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	12	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	27	NA																		
			HOLDDOWN ARM SYSTEM	116	151	332	NA																			
474	B C	9FA001A	HOLDDOWN ARMS (4)	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	12	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA		NA																		
			HOLDDOWN ARMS SYSTEM	116	151	309	138																			
475		9RP001A	SOLENOID VALVE CONTROL CABINET (S-IC)	NA	NA	NA	NA	NA																		
			RP-1 SYSTEM	116	151	184	NA	515																		
			RP-1 VALVE COMPLEX (S-IC)	NA	NA	NA	NA	NA																		
476	E	9RP001A	ELECTRICAL INTERFACE	NA	NA	NA	544	NA																		
			RP-1 SYSTEM	116	151	184	NA	173 515																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	405	406	407	408	409	410	411	412	413	414
477			SERVICE ARM CONTROL CONSOLES NO. 1	116	151	118 119 294	NA	253																		
		9SA105A	CONTROL CONSOLE #1			608 613 619	NA																			
		9SA205A	CONTROL CONSOLE #1			609 614 620	NA																			
		9SA405A	CONTROL CONSOLE #1			610 615 621	NA																			
		9SA505A	CONTROL CONSOLE #1			611 616 622	NA																			
		9SAA02A	CONTROL CONSOLE #1			612 617 623	NA																			
		9SAA04A	CONTROL CONSOLE #1			612 618 624	NA																			
478			LOX EMERGENCY FILL AND DRAIN VALVE COMPLEX (S-IC)	NA	NA	NA	NA	NA																		
		9LX001A	LIQUID OXYGEN SYSTEM	583	151	195	NA																			
479			PROPELLANT CONTROL CONSOLE (S-IC)	NA	NA	NA	NA	NA																		
		9NU004A	NITROGEN SYSTEM	116	151	117	NA	253																		
481			LOX VALVE COMPLEX (S-IC)	NA	NA	NA	NA	NA																		
		9LX001A	LIQUID OXYGEN SYSTEM	583	151	195	75	253																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	405	406	407	408	409	410	411	412	413	414
482			FLUSH AND PURGE SERVICE TRUCK	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	38	NA																		
	B		TRICHLORETHYLENE INTERFACE	NA	NA	NA	38	NA																		
	C		GN2 INTERFACE	NA	NA	NA	22 38	NA																		
	F		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
	G		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
483		10R107A	FLUSH AND PURGE GROUND SUPPORT SERVICING SYSTEM, TRUCK MOUNTED	103	106	105	NA	104 107																		
			F-1 ENGINE SERVICING DISTRIBUTOR	NA	NA	NA	NA	NA																		
	B		TRICHLORETHYLENE INTERFACE	NA	NA	NA	38	NA																		
	C		GN2 INTERFACE	NA	NA	NA	22 38	NA																		
	D		GN2 INTERFACE	NA	NA	NA		NA																		
	E		TRICHLORETHYLENE INTERFACE	NA	NA	NA		NA																		
483D- 601B	F		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		9VS001A	VEHICLE AUXILIARY SUPPORT SYSTEM	116	151	33 306 307	NA																			
			GN2 PIPING	NA	NA	NA	NA	NA																		
		10R107A	FLUSH AND PURGE GROUND SUPPORT SERVICING SYSTEM, TRUCK MOUNTED	38 103	106	105	NOTE 6	104 107																		
			TRICHLORETHYLENE PIPING	NA	NA	NA	NA	NA																		
		10R107A	FLUSH AND PURGE GROUND SUPPORT SERVICING SYSTEM, TRUCK MOUNTED	38 103	106	105	NOTE 6	104 107																		
483E- 601C																										

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICL EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	605	606	607	608	609	610	611
484			INERT PREFILL HYDRAULIC PUMPING UNIT	NA	NA	NA	NA	NA																		
	B		ETHYLENE GLYCOL INTERFACE	NA	NA	NA	13	NA																		
	C		FACILITY WATER INTERFACE	NA	NA	NA	13	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	7 13	NA																		
	E		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA																		
	J		ETHYLENE GLYCOL INTERFACE	NA	NA	NA	13	NA																		
		10R109A	INERT PREFILL UNIT (S-IC)	1	3	4	NA	2 125 126																		
484B- 486A			ETHYLENE GLYCOL PIPING	NA	NA	NA	NA	NA																		
		9VS001A	VEHICLE AUXILIARY SUPPORT SYSTEM	13 116	151	33	NOTE 6																			
484D- 485A			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	UMBILICAL-LAUNCHER TOWER SYSTEM	116	116 151	492	NOTE 6																			
485			INERT PREFILL SYSTEM CHECKOUT CONSOLE	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	7 13	NA																		
	C		ELECTRICAL INTERFACE	NA	NA	NA	7 13	NA																		
		10R109A	INERT PREFILL UNIT (S-IC)	1	3	4	NA	2 125 126																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	505	605	705	805	905	015
486			MOBILE SERVICER UNIT (S-IC) RJ-1 AND ETHYLENE GLYCOL	NA	NA	NA	NA	NA														
	A		ETHYLENE GLYCOL INTERFACE	NA	NA	NA	38	NA														
	B		RJ-1 INTERFACE	NA	NA	NA	38	NA														
	C		GN2 INTERFACE	NA	NA	NA	38	NA														
	D		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	149	NA														
486B- 488A		10R108A	SERVICE UNIT RJ-1 AND ETHYLENE/ GLYCOL TRAILER MOUNTED FOR SATURN V	8	10	11	NA	9														
			RJ-1 PIPING	NA	NA	NA	NA	NA														
		9VS001A	VEHICLE AUXILIARY SUPPORT SYSTEM	116	151	33	NOTE 6															
488			HSCU S-IC HYDRAULIC SKID	NA	NA	NA	NA	NA														
	A		RJ-1 INTERFACE	NA	NA	NA	39	NA														
	C		GN2 INTERFACE	NA	NA	NA	39	NA														
	D		ELECTRICAL INTERFACE	NA	NA	NA	39 528	NA														
	E		FACILITY WATER INTERFACE	NA	NA	NA	39	NA														
	F		ELECTRICAL INTERFACE	NA	NA	NA	24 39 528	NA														
	G		ELECTRICAL INTERFACE	NA	NA	NA	24 39 528	NA														
	L		RJ-1 INTERFACE	NA	NA	NA	39	NA														
		10R105B	S-IC GROUND HYDRAULIC SUPPLY AND CHECKOUT UNIT	310	228	312 531	NA	311 313 314														

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
488 (Cont)																										
488D- 489A		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
488F- 490B		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
488G- 491B		9ML001A	ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			
489	A		HSCU S-IC CHECKOUT CONSOLE	NA	NA	NA	NA	NA																		
			ELECTRICAL INTERFACE	NA	NA	NA	24 39 528	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 39 528	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 39 528	NA																		
	E		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	39 149	NA																		
		10R105B	S-IC GROUND HYDRAULIC SUPPLY AND CHECKOUT UNIT	310	228	312 533	NA	311 313 314																		
489B- 490A			ELECTRICAL CABLE	NA	NA	NA	NA	NA																		
		9ML001A	LAUNCHER-UMBILICAL TOWER SYSTEM	116	116 151	492	NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY										
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510			
490	A	10R105B	HSCU S-IC MOTOR CONTROL CENTER ELECTRICAL INTERFACE	NA NA	NA NA	NA NA	NA 24 39 528	NA NA																			
	B		ELECTRICAL INTERFACE	NA	NA	NA	24 39	NA																			
	C		FACILITY POWER SUPPLY - NOTE 5	NA	NA	NA	39 149	NA																			
			S-IC GROUND HYDRAULIC SUPPLY AND CHECKOUT UNIT	310	228	312 532	NA	311 313 314																			
491	B	10R105B	HSCU S-IC UMBILICAL PRESSURE TRANSDUCER ELECTRICAL INTERFACE	NA NA	NA NA	NA NA	NA 24 39 528	NA NA																			
	K		RJ-1 INTERFACE	NA	NA	NA	39	NA																			
			S-IC GROUND HYDRAULIC SUPPLY AND CHECKOUT UNIT	310	228	312 530	NA	311 313 314																			
495			SERVICE ARM CONTROL CONSOLES NO. 2	116	151	118 119 294	NA	253																			
		9SAL01A	CONTROL CONSOLE #2			601	NA																				
		9SAL04A	CONTROL CONSOLE #2			601	NA																				
		9SAL06A	CONTROL CONSOLE #2			601	NA																				
		9SAL08A	CONTROL CONSOLE #2			601	NA																				

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
515			SERVICE ARM SYSTEM NO. 7 (S-IVB FORWARD)	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	22 34 85	NA																		
	C		GN2 INTERFACE	NA	NA	NA	22 57 135	NA																		
	D		WATER METHANOL INTERFACE	NA	NA	NA	24 34	NA																		
	E		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																		
	F		GN2 INTERFACE	NA	NA	NA	22 57 59 135	NA																		
	G		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA	24 85 91	NA																		
	I		GH2 INTERFACE	NA	NA	NA	37	NA																		
	J		GAS SAMPLE INTERFACE	NA	NA	NA	14 57	NA																		
	K		CONDITIONED AIR INTERFACE	NA	NA	NA	6 57 59	NA																		
	L		WATER METHANOL INTERFACE	NA	NA	NA	34 57 59	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	505	506	507	508	509	015
515 (Cont)	N	9SA700A	GN2 PURGE INTERFACE	NA	NA	NA	34 57 59	NA														
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 85	NA														
	P		GN2 INTERFACE	NA	NA	NA	15 17 22 85	NA														
	Q		HELIUM INTERFACE	NA	NA	NA	15 17 23 85	NA														
	R		ELECTRICAL INTERFACE	NA	NA	NA	24 57 58	NA														
	S		GAS SAMPLE INTERFACE	NA	NA	NA	14	NA														
			SERVICE ARM NO. 7 ASSEMBLY	116	151	118 119 294 602	NA	253														
518			UMBILICAL HOUSING ASSEMBLY (IU)	NA	NA	NA	NA	NA														
	F		GN2 INTERFACE	NA	NA	NA	22 57 59 135	NA														
	J		GAS SAMPLE INTERFACE	NA	NA	NA	14 57	NA														
	K		CONDITIONED AIR INTERFACE	NA	NA	NA	6 57 59	NA														

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	500	505	510	515	520	525	530	535	540	545
518 (Cont)	L	09R110A	WATER METHANOL INTERFACE	NA	NA	NA	34 57 59	NA																		
	M		ELECTRICAL INTERFACE	NA	NA	NA	24 57 58	NA																		
	N		GN2 PURGE INTERFACE	NA	NA	NA	34 57 59	NA																		
	R		ELECTRICAL INTERFACE	NA	NA	NA	24 57 58	NA																		
521			IU HOUSING ASSEMBLY	285	110	286	NA																			
			SERVICE ARM SYSTEM NO. 6 (S-IVB AFT)	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	15 22 72 84	NA																		
	B		HELIUM INTERFACE	NA	NA	NA	15 16 23	NA																		
	C		HELIUM INTERFACE	NA	NA	NA	15 17 23 72 84 86	NA																		
	D		HELIUM INTERFACE	NA	NA	NA	15 23 86	NA																		
	E		GH2 INTERFACE	NA	NA	NA	15 84	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY							
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512
521 (Cont)																								
	F		HELIUM INTERFACE	NA	NA	NA	15 17 23	NA																
	G		CONDITIONED AIR INTERFACE	NA	NA	NA	6 72 84	NA																
	H		GAS SAMPLE INTERFACE	NA	NA	NA	15 84 92	NA																
	I		LH2 INTERFACE	NA	NA	NA	72 84 95	NA																
	J		GN2 INTERFACE	NA	NA	NA	15 17 22	NA																
	K		GN2 INTERFACE	NA	NA	NA	15 17 22 72 84	NA																
	L		GAS SAMPLE INTERFACE	NA	NA	NA	15 26 92	NA																
	M		GH2 INTERFACE	NA	NA	NA	15 37 72 84	NA																
	N		LOX INTERFACE	NA	NA	NA	72 75 84	NA																
	O		ELECTRICAL INTERFACE	NA	NA	NA		NA																
		9SA600A	SERVICE ARM NO. 6 ASSEMBLY	116	151	118 119 294 603	NA	253																

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510				
524			UMBILICAL CARRIER ASSEMBLY (S-IVB FWD)	NA	NA	NA	NA	NA																				
	A		GN2 PURGE INTERFACE	NA	NA	NA	22 34 85	NA																				
	C		ELECTRICAL INTERFACE	NA	NA	NA	24 85 91	NA																				
	H		ELECTRICAL INTERFACE	NA	NA	NA	24 85 91	NA																				
	I		GH2 INTERFACE	NA	NA	NA	37	NA																				
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 85	NA																				
	P		GN2 INTERFACE	NA	NA	NA	15 17 22 85	NA																				
	Q		HELIUM INTERFACE	NA	NA	NA	15 17 23 85	NA																				
		4B0316	LAUNCHER FORWARD UMBILICAL KIT	111	110	295	NA																					
	527			SERVICE ARM SYSTEM NO. 5 (S-II FORWARD)	NA	NA	NA	NA	NA																			
A			GN2 PURGE INTERFACE	NA	NA	NA	44 47 69 73	NA																				
C			HELIUM INTERFACE	NA	NA	NA	23 35 67	NA																				

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	205	206	207	208	209	210	211	212	213	214
527 (Cont)	D		HELIUM INTERFACE	NA	NA	NA	23 47 68 73	NA																		
	E		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 47 73	NA																		
	F		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	G		HELIUM INTERFACE	NA	NA	NA	35 44 47 67 73	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA	24 43 47	NA																		
	I		HELIUM INTERFACE	NA	NA	NA	23 69 73	NA																		
	J		GH2 INTERFACE	NA	NA	NA	37	NA																		
	K		GN2 INTERFACE	NA	NA	NA	22 44 47 69 73	NA																		
	L		CONDITIONED AIR INTERFACE	NA	NA	NA	6 44 47 153 343	NA																		
	S		GAS SAMPLE INTERFACE	NA	NA	NA	14	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
527 (Cont)		9SA500A	SERVICE ARM NO. 5 ASSEMBLY	116	151	118 119 294 604	NA	253																		
530			UMBILICAL CARRIER ASSEMBLY (S-IVB AFT)	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	15 22 72 84	NA																		
	C		HELIUM INTERFACE	NA	NA	NA	15 17 23 72 84 86	NA																		
	E		ELECTRICAL INTERFACE	NA	NA	NA	24 84 91	NA																		
	G		CONDITIONED AIR INTERFACE	NA	NA	NA	6 72 84	NA																		
	H		GAS SAMPLE INTERFACE	NA	NA	NA	15 84 92	NA																		
	I		LH2 INTERFACE	NA	NA	NA	72 84 95	NA																		
	K		GN2 INTERFACE	NA	NA	NA	15 17 22 72 84	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	205	206	207	208	209	210	211	212	213	214
530 (Cont)	M		GH2 INTERFACE	NA	NA	NA	15 37 72 84	NA																		
	N		LOX INTERFACE	NA	NA	NA	72 75 84	NA																		
	O		ELECTRICAL INTERFACE	NA	NA	NA		NA																		
		4B0315	LAUNCHER AFT UMBILICAL KIT	328	330	329	NA																			
548			SERVICE ARM SYSTEM NO. 4 (S-II INTERMEDIATE)	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	22 35 44	NA																		
	C		HELIUM INTERFACE	NA	NA	NA	23 35 67	NA																		
	D		HELIUM INTERFACE	NA	NA	NA	23 47 68 73	NA																		
	E		GN2 INTERFACE	NA	NA	NA	22 69 73	NA																		
	F		HELIUM INTERFACE	NA	NA	NA	23 73	NA																		
	G		GH2 INTERFACE	NA	NA	NA	35 37 69	NA																		
	H		CONDITIONED AIR INTERFACE	NA	NA	NA	6 40 153 343	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY						
									1	2	3	A	B	1	2	3	605	605	605	605	605	605	015
548 (Cont)	I		HELIUM INTERFACE	NA	NA	NA	23 69 73	NA															
	J		GH2 INTERFACE	NA	NA	NA	35 37 40 44	NA															
	K		ELECTRICAL INTERFACE	NA	NA	NA	24 43	NA 40															
	L		HELIUM INTERFACE	NA	NA	NA	23 35 37 40 44 69 73	NA															
	M		GN2 INTERFACE	NA	NA	NA	22 40 44 69 73	NA															
	N		LOX INTERFACE	NA	NA	NA	35 40 44 75	NA															
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 40 44	NA															
	P		HELIUM INTERFACE	NA	NA	NA	23 35 69	NA															
	Q		LH2 INTERFACE	NA	NA	NA	35 40 44 95	NA															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY							
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512
548 (Cont)	S	9SA400A	GAS SAMPLE INTERFACE	NA	NA	NA	14	NA																
			SERVICE ARM NO. 4 ASSEMBLY	116	151	118 119 294 605	NA	253																
551			UMBILICAL CARRIER ASSEMBLY (S-II FWD)	NA	NA	NA	NA	NA																
	A		GN2 PURGE INTERFACE	NA	NA	NA	44 47	NA																
	D		ELECTRICAL INTERFACE	NA	NA	NA	24 43 47	NA																
	E		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 47	NA																
	G		HELIUM INTERFACE	NA	NA	NA	35 36 44 47 67 73	NA																
	H		ELECTRICAL INTERFACE	NA	NA	NA	24 43 47	NA																
	J		GH2 INTERFACE	NA	NA	NA	37	NA																
	K		GN2 INTERFACE	NA	NA	NA	22 44 47	NA																
	L		CONDITIONED AIR INTERFACE	NA	NA	NA	6 44 47 343	NA																

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
551 (Cont)		A7-42	PLATE ASSEMBLY CARRIER UMBILICAL DISCONNECT ARM NO. 4	326	113	327	43 44 47																			
557			UMBILICAL CARRIER ASSEMBLY AND DISCONNECTS (S-II INTERMEDIATE)	NA	NA	NA	NA	NA																		
	A		GN2 PURGE INTERFACE	NA	NA	NA	22 40 44	NA																		
	G		ELECTRICAL INTERFACE	NA	NA	NA	24 40 43	NA																		
	H		CONDITIONED AIR INTERFACE	NA	NA	NA	6 40 44 153 343	NA																		
	J		GH2 INTERFACE	NA	NA	NA	35 37 40 44 69	NA																		
	K		ELECTRICAL INTERFACE	NA	NA	NA	24 40 43	NA																		
	L		HELIUM INTERFACE	NA	NA	NA	23 35 40 44 67 69	NA																		
	M		GN2 INTERFACE	NA	NA	NA	22 40 44 69	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
557 (Cont)	N		LOX INTERFACE	NA	NA	NA	40 41 44 75	NA																		
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 40	NA																		
	Q		LH2 INTERFACE	NA	NA	NA	40 42 44 95	NA																		
		A7-41	PLATE ASSEMBLY CARRIER UMBILICAL DISCONNECT ARM NO. 3A	112	113	323	40 43 44																			
		A7-64	DISCONNECT LH2 FILL	114	113	324	42 43 44																			
		A7-65	DISCONNECT LOX FILL	115	113	325	41 43 44																			
560			SERVICE ARM SYSTEM NO. 2 (S-IC FORWARD)	NA	NA	NA	NA	NA																		
	A		GN2 INTERFACE	NA	NA	NA	19 20 22	NA																		
	C		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 83	NA																		
	D		CONDITIONED AIR INTERFACE	NA	NA	NA	6 79 83 153 343	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
560 (Cont)	E		GN2 INTERFACE	NA	NA	NA	20 22 79 83	NA																		
	F		GN2 INTERFACE	NA	NA	NA	18 22	NA																		
	G		GN2 PURGE INTERFACE	NA	NA	NA	20 22 79 83	NA																		
	H		ELECTRICAL INTERFACE	NA	NA	NA	24 83	NA																		
	L		ELECTRICAL INTERFACE	NA	NA	NA	12 83	NA																		
	S		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 83	NA																		
563		9SA200A	SERVICE ARM NO. 2 ASSEMBLY	116	151	118 119 294 606	NA	253																		
			UMBILICAL CARRIER ASSEMBLY (S-IC FWD)	NA	NA	NA	NA	NA																		
	C		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 83	NA																		
	D		CONDITIONED AIR INTERFACE	NA	NA	NA	6 79 83 153 343	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	LOS	POS	LOS	POS	LOS	POS
563 (Cont)	E		GN2 INTERFACE	NA	NA	NA	20 22 79 83	NA														
	G		GN2 PURGE INTERFACE	NA	NA	NA	20 22 79 83	NA														
	L		ELECTRICAL INTERFACE	NA	NA	NA	24 83	NA														
		640051A	FORWARD UMBILICAL, CARRIER ASSY	319	322	321	NA															
566			SERVICE ARM SYSTEM NO. 1 (S-IC INTERTANK)	NA	NA	NA	NA	NA														
	A		GN2 INTERFACE	NA	NA	NA	19 20 22	NA														
	B		LOX INTERFACE	NA	NA	NA	75 79 94	NA														
	C		GN2 INTERFACE	NA	NA	NA	20 22 79 94	NA														
	E		GN2 PURGE INTERFACE	NA	NA	NA	22 79 94	NA														
	F		GN2 INTERFACE	NA	NA	NA	18 22	NA														
		9SA100A	SERVICE ARM NO. 1 ASSEMBLY	116	151	118 119 294 607	NA	253														

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
569			UMBILICAL CARRIER ASSEMBLY (S-IC INTERTANK)	NA	NA	NA	NA	NA																		
	B		LOX INTERFACE	NA	NA	NA	75 79 94	NA																		
	C		GN2 INTERFACE	NA	NA	NA	20 22 79 94	NA																		
	E		GN2 PURGE INTERFACE	NA	NA	NA	22 79 94	NA																		
		801911A	INTERTANK UMBILICAL CARRIER ASSY	316	318	317	NA																			
572			UMBILICAL CARRIER ASSEMBLY (S-IC AFT) (3)	NA	NA	NA	NA	NA																		
	E		GN2 INTERFACE	NA	NA	NA	20 22 79	NA																		
	L		ELECTRICAL INTERFACE	NA	NA	NA	12 24 80 81 82	NA																		
	M		HELIUM INTERFACE	NA	NA	NA	20 23 79	NA																		
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 82	NA																		
	P		CONDITIONED AIR INTERFACE	NA	NA	NA	6	NA																		
	R		LOX INTERFACE	NA	NA	NA	75 79 80	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510	511	512
572 (Cont)	T		ETHYLENE GLYCOL INTERFACE	NA	NA	NA	13 81	NA																		
	U		RJ-1 INTERFACE	NA	NA	NA	39 79 81	NA																		
	V		ELECTRICAL INTERFACE	NA	NA	NA	12 24 80 81 82	NA																		
	W		GN2 PURGE INTERFACE	NA	NA	NA	20 22 79 80 81 82	NA																		
	X		RP-1 INTERFACE	NA	NA	NA	79 81 93	NA																		
		802711A	AFT UMBILICAL NO. 1 CARRIER ASSY	287	293	290	96																			
		802713A	AFT UMBILICAL NO. 2 CARRIER ASSY	288	293	291	96																			
		802715A	AFT UMBILICAL NO. 3 CARRIER ASSY	289	293	292	96																			
			TAIL SERVICE MAST (3)	NA	NA	NA	NA	NA																		
	A		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	B		ELECTRICAL INTERFACE	NA	NA	NA	12 24 80 81 82	NA																		
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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	605	606	607	608	609	015
575 (Cont)																										
	C		ELECTRICAL INTERFACE	NA	NA	NA	12 24 80 81 82	NA																		
	D		ELECTRICAL INTERFACE	NA	NA	NA	24	NA																		
	E		GN2 INTERFACE	NA	NA	NA	20 22 79	NA																		
	F		GN2 INTERFACE	NA	NA	NA	19 20 22	NA																		
	G		GN2 INTERFACE	NA	NA	NA	20 21 22	NA																		
	H		GN2 INTERFACE	NA	NA	NA	19 20 22 25	NA																		
	J		ETHYLENE GLYCOL INTERFACE	NA	NA	NA	13	NA																		
	K		RJ-1 INTERFACE	NA	NA	NA	39	NA																		
	L		RJ-1 INTERFACE	NA	NA	NA	39	NA																		
	M		HELIUM INTERFACE	NA	NA	NA	20 23 79	NA																		
	N		HELIUM INTERFACE	NA	NA	NA	23	NA																		
	O		GAS SAMPLE INTERFACE	NA	NA	NA	5 14 82	NA																		
	P		CONDITIONED AIR INTERFACE	NA	NA	NA	6	NA																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
575 (Cont)	R		LOX INTERFACE	NA	NA	NA	75 79 80	NA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	503	505	506	507	508	509	510	511	512	513
601			F-1 ENGINES (5)	NA	NA	NA	NA	NA																		
	A		F-1 ENGINE/S-IC STAGE INTERFACE	NA	NA	NA	76 78 79	NA																		
	B		GN2 INTERFACE	NA	NA	NA	77 79	NA																		
	C		TRICHLORETHYLENE INTERFACE	NA	NA	NA	77 79	NA																		
		F-1	ROCKET ENGINE F-1	232	229	230	NA	127 155																		
602			S-IC STAGE	NA	NA	NA	NA	NA																		
	A		S-IC STAGE/F-1 ENGINE INTERFACE	NA	NA	NA	76 78	NA																		
	B		S-IC STAGE/S-II STAGE INTERFACE	NA	NA	NA	48 53 54 55 56	NA																		
		000011C	S-IC-3 FLIGHT STAGE	154	471	473 536 640	12 49 79 138	127 144 155 266																		
			J-2 ENGINES (S-II) (5)	NA	NA	NA	NA	NA																		
603	A		J-2 ENGINE/S-II STAGE INTERFACE	NA	NA	NA	44 52 74	NA																		
	C		HYDRAULIC FLUID INTERFACE (S-II/ S-IVB MOBILE HYD SERVICER)	NA	NA	NA	44 66	NA																		
	D		GN2 INTERFACE (S-II/S-IVB MOBILE HYD SERVICER)	NA	NA	NA	44 66	NA																		
		J-2	ROCKET ENGINE J-2	234	235	237	NA	238																		

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
									1	2	3	A	B	1	2	3	503	504	505	506	507	508	509	510																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
604			S-II STAGE	NA	NA	NA	NA	NA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY											
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514	515	
606	B	209007A	S-IVB STAGE	NA	NA	NA	NA	NA																				
			S-IVB STAGE/IU STAGE INTERFACE	NA	NA	NA	29 30 62 63 64 65	NA																				
			S-IVB STAGE/J-2 ENGINE INTERFACE	NA	NA	NA	52 71 72 90	NA																				
			GN2 INTERFACE	NA	NA	NA	22 87	NA																				
			S-IVB STAGE/S-II STAGE INTERFACE	NA	NA	NA	45 46 48 50 51	NA																				
	E		S-IVB FLIGHT STAGE	159		263 538 548 552	49 72 91 591	144 239 266 547																				
			A	IU	NA	NA	NA	NA	NA																			
				IU/SPACECRAFT INTERFACE	NA	NA	NA	29 31 32 60 61	NA																			
				B	IU/S-IVB STAGE INTERFACE	NA	NA	NA	29 30 62 63 64 65	NA																		
					SIU500A	INSTRUMENT UNIT	156	478	477 539	49 58 59 152	144 157 231 266																	

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY					
									1	2	3	A	B	1	2	3	305	305	305	305	305	015
701	A	10R120A	AUXILIARY DAMPING SYSTEM HYDRAULIC POWER CONSOLE	NA	NA	NA	NA	NA														
			HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA														
			FACILITY AIR INTERFACE	NA	NA	NA	137	NA														
			AUXILIARY DAMPING SYSTEM	304	108	305	NA															
701A- 722B		NOTE 1	HYDRAULIC FLUID PIPING	NA	NA	NA	NA	NA														
				137			NOTE 6															
702	C	4B1875	APS INSTR KIT (OXID) DSV-4B-1875	NA	NA	NA	NA	NA														
			N2O4 INTERFACE	NA	NA	NA	87	NA														
			GN2 INTERFACE	NA	NA	NA	22 87	NA														
			INSTRUMENT AND CHECKOUT INTERCONNECT KIT, OXIDIZER	279	278	556	NA															
702C- SUP. D		9SP001A	N2O4 PIPING (MSC S/C HYPERGOLIC SERVICE EQUIPMENT)	NA	NA	NA	NA	NA														
			SPACECRAFT SUPPORT SYSTEMS PIPING	87 116	116 151		NOTE 6															

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
703	B D	4B1874	APS INSTR KIT (FUEL) DSV-4B-1874	NA	NA	NA	NA	NA																		
			MMH INTERFACE	NA	NA	NA	87	NA																		
			GN2 INTERFACE	NA	NA	NA	22 87	NA																		
			INSTRUMENT AND CHECKOUT INTER- CONNECT KIT, FUEL	276	277	277	NA																			
703B- SUP. A		9SP001A	MMH PIPING (MSC S/C HYPERGOLIC SERVICE EQUIPMENT)	NA	NA	NA	NA	NA																		
			SPACECRAFT SUPPORT SYSTEMS PIPING	87 116	116 151		NOTE 6																			
710	A D	4B0472	APS FUEL CONTROL ASSY DSV-4B-472	NA	NA	NA	NA	NA																		
			MMH INTERFACE	NA	NA	NA	87	NA																		
			GN2 INTERFACE	NA	NA	NA	22 87	NA																		
			PROPELLANT TRANSFER AND INTER- CONNECT KIT, FUEL	281 282		556	NA																			
710A- SUP. B		9SP001A	MMH PIPING (MSC S/C HYPERGOLIC SERVICE EQUIPMENT)	NA	NA	NA	NA	NA																		
			SPACECRAFT SUPPORT SYSTEMS PIPING	87 116	116 151		NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	605	605	605	605	605	605	605	605	605	605
711	B D	4B0473	APS OXIDIZER CONTROL ASSY DSV-4B-473	NA	NA	NA	NA	NA																		
			N2O4 INTERFACE	NA	NA	NA	87	NA																		
			GN2 INTERFACE	NA	NA	NA	22 87	NA																		
711B- SUP. C		9SP001A	PROPELLANT TRANSFER AND INTER- CONNECT KIT, OXIDIZER	280		556	NA																			
			N2O4 PIPING (MSC S/C HYPERGOLIC SERVICE EQUIPMENT)	NA	NA	NA	NA	NA																		
				87 116	116 151		NOTE 6																			
721	A B C	10R120A	AUXILIARY DAMPING SYSTEM RIGHT HAND DAMPER PANEL	NA	NA	NA	NA	NA																		
			FACILITY WATER INTERFACE	NA	NA	NA	137	NA																		
			HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																		
721B- 724A		NOTE 1	HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																		
			AUXILIARY DAMPING SYSTEM	304	108	297 305	NA																			
			HYDRAULIC FLUID PIPING	NA	NA	NA	NA	NA																		
721C- 722A		NOTE 1		137			NOTE 6																			
			HYDRAULIC FLUID PIPING	NA	NA	NA	NA	NA																		
				137			NOTE 6																			

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY							
									1	2	3	A	B	1	2	3	205	206	207	208	209	210	211	212
722			AUXILIARY DAMPING SYSTEM CONTROL CONSOLE	NA	NA	NA	NA	NA																
	A		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																
	B		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																
	C		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																
		10R120A	AUXILIARY DAMPING SYSTEM	304	108	305 320	NA																	
722C- 723B		NOTE 1	HYDRAULIC FLUID PIPING	NA 137	NA	NA	NA NOTE 6	NA																
723			AUXILIARY DAMPING SYSTEM LEFT HAND DAMPER PANEL	NA	NA	NA	NA	NA																
	A		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																
	B		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																
	C		FACILITY WATER INTERFACE	NA	NA	NA	137	NA																
		10R120A	AUXILIARY DAMPING SYSTEM	304	108	297 305	NA																	
723A- 724B		NOTE 1	HYDRAULIC FLUID PIPING	NA 137	NA	NA	NA NOTE 6	NA																

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SYSTEM ELEMENT NUMBER	I/F	CEI NUMBER	NOMENCLATURE	DESIGN SPECS	DESCR	DWG/ SCHEM	ICD	TEST RQMTS	FIRING ROOM			PAD		ML			VEHICLE EFFECTIVITY									
									1	2	3	A	B	1	2	3	505	506	507	508	509	510	511	512	513	514
724			AUXILIARY DAMPING SYSTEM DAMPER ARM	NA	NA	NA	NA	NA																		
	A		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																		
	B		HYDRAULIC FLUID INTERFACE	NA	NA	NA	137	NA																		
	C		DAMPER ARM/LES TOWER INTERFACE	NA	NA	NA	137 142	NA																		
		10R120A	AUXILIARY DAMPING SYSTEM	304	108	305 527	NA																			
730			Q-BALL COVER	NA	NA	NA	NA	NA																		
	B		Q-BALL COVER/LANYARD INTERFACE	NA	NA	NA	101 102	NA																		
		NONE	NONE	561	151	254	141																			
735			HAZARD MONITORING SENSORS (MSS)	463	466	465 467	NA	464																		
	A		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	139 644	NA																		
	B		ELECTRICAL INTERFACE - NOTE 5	NA	NA	NA	644	NA																		
		INS-24- SP006	UV FLAME DETECTOR				NA																			
		INS-24- SP008	MSS H2 HAZARD MONITORING EQUIPMENT				NA																			
		INS-24- SP012	GH2 SENSORS				NA																			
		INS-24- SP016	THERMAL WIRE FIRE DETECTOR				NA																			
		PC-11- SP017	DISCRETE FUNCTION TRANSMISSION SYSTEM				NA																			
740			CRAWLER TRANSPORTER	NA	NA	NA	NA	NA																		
		9CT001A	CRAWLER-TRANSPORTER SYSTEM	116	151	146	NOTE 1	NOTE 2																		

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SECTION IV. SATURN V/AS-503 SYSTEM DEFINITION DIAGRAM

- 4.1 Introduction. The System Definition Diagram is an integrated electromechanical diagram of the system elements that comprise the Saturn V Vehicle and its associated Ground Support Equipment. For detailed description and instructions for use, see Section II.
- 4.2 System Element Table. The System Element Table (Table 4-1) is an alphabetical listing of system elements identifying the SEN and zone location on the SDD for each element. The list is arranged primarily by a key word in the title of the system element.

TABLE 4-1. SYSTEM ELEMENT TABLE

SYSTEM ELEMENT	SEN	ZONE
ABORT ADVISORY SYSTEM	134	B-12
ANALOG RECORDER MEASUREMENT SYSTEM	156	B-12
APS FUEL CONTROL ASSEMBLY DSV-4B-472	710	C-1
APS INSTR KIT (FUEL) DSV-4B-1874	703	C-2
APS INSTR KIT (OXID) DSV-4B-1875	702	C-2
APS OXID CONTROL ASSEMBLY DSV-4B-473	711	C-1
ARGON BOTTLE SUPPLY	435	C-5
ARTESIAN WELL AND PUMP	282	A-9
ASTRIONICS PATCH DISTRIBUTOR	116	C-12
AUXILIARY DAMPING SYSTEM-CONTROL CONSOLE	722	D-1
AUXILIARY DAMPING SYSTEM-DAMPER ARM	724	D-2
AUXILIARY DAMPING SYSTEM-HYD POWER CONSOLE	701	D-1
AUXILIARY DAMPING SYSTEM-LEFT HAND DAMPER PANEL	723	D-1
AUXILIARY DAMPING SYSTEM-RIGHT HAND DAMPER PANEL	721	D-1
AZIMUTH ALIGNMENT	367	C-7
BURN POND	281	A-9
COMPRESSED AIR FACILITY	277	B-8
COMPUTER PERIPHERAL EQUIPMENT	332	D-8
COMPUTER PERIPHERAL EQUIPMENT (LCC)	182	A-11
COUNT CLOCK AND TIMING SYSTEMS	166	B-11
COUNT CLOCK AND TIMING SYSTEMS REPEATERS	337	D-7
COUNTDOWN AND IGNITION SEQUENCER	370	C-7
CRAWLER TRANSPORTER	740	A-1
CROSSOVER DISTRIBUTOR 6640 (S-IC AFT)	390	C-6
CROSSOVER DISTRIBUTOR 6641 (S-IC AFT)	393	C-6
CROSSOVER DISTRIBUTOR 6121 (S-IC FWD)	470	B-4
CROSSOVER DISTRIBUTOR 6161 (S-II AFT)	462	B-4
CROSSOVER DISTRIBUTOR 6201 (S-II FWD)	454	C-4
CROSSOVER DISTRIBUTOR 6221 (S-IVB AFT)	441	C-4
CROSSOVER DISTRIBUTOR 6261 (S-IVB FWD)	433	C-4
CROSSOVER DISTRIBUTOR 6281 (IU)	420	D-4
DATA LINK TERMINAL	329	D-8
DATA LINK TERMINAL (LCC)	184	A-11
DATA TRANSMISSION SYSTEM (LCC)	128	C-12
DATA TRANSMISSION SYSTEM 5299	254	D-9
DEE-3 COMPUTER	260	C-9
DEE-3 LINE PRINTER LH2, RP-1, LOX, ECS, AND INDUSTRIAL WATER READOUT	138	C-11
DEE-3 SOFTWARE	264	C-9
DEE-6 CONTROL PANEL	164	B-11
DEE-6 FRANKLIN PRINTER	141	B-12
DEE-6 REMOTE SUBSYSTEM	321	D-7
DEE-6 SOFTWARE	323	D-7

TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

SYSTEM ELEMENT	SEN	ZONE
DISCRETE CONTROL EQUIPMENT	334	C-8
DISCRETE CONTROL EQUIPMENT (LCC)	172	A-12
DISCRETE INPUT SIGNAL CONDITIONER	346	C-8
DISCRETE INPUT SIGNAL CONDITIONER (LCC)	168	B-12
DISCRETE OUTPUT SIGNAL CONDITIONER	348	D-8
DISCRETE OUTPUT SIGNAL CONDITIONER (LCC)	170	A-12
DISPLAY SOFTWARE	178	A-11
DRRS CONSOLE	406	D-4
DRRS DAMPER ARM	411	D-3
DRRS KICKOFF CONTROL PANEL	407	D-4
DRRS KICKOFF CYLINDERS	409	D-3
DRRS LATCHBACK SYSTEM	410	D-3
DRRS REDUNDANT RETRACT SYSTEM	402	D-5
DRRS WINCH	404	D-4
DRRS WINCH CONTROL CABINET	403	D-5
ECS CONTROL CONSOLE	108	C-12
EMERGENCY DETECTION SYSTEM ESE	145	B-12
ENVIRONMENTAL CONTROL SYSTEM	274	B-9
ESE PROGRAM DISTRIBUTORS (LCC)	154	A-12
FACILITY AIR STANDBY PANEL	309	B-8
FACILITY WATER PUMPING STATION, PAD 39-A	200	D-10
FIREX WATER AND PUMP CONTROL SYSTEM	112	D-11
FIREX WATER PAD PERIMETER VALVE PIT	203	D-10
FIREX WATER VALVE AND TANK AREA	209	C-10
FLOW CONTROL VALVE BOX	416	D-5
FLUSH AND PURGE SERVICE TRUCK	482	A-5
FORWARD UMBILICAL SERVICE UNIT (S-IC)	464	B-5
F-1 ENGINES (5)	601	A-2
F-1 ENGINES SERVICING DISTRIBUTOR	483	A-4
GH2 CONTROL DISTRIBUTOR	237	A-10
GH2 SERVICING CONSOLE S7-41D (S-II)	457	B-5
GH2 STORAGE AREA	236	A-10
GN2 DISTRIBUTION PANEL	306	B-8
GN2 DISTRIBUTION PANEL 12	434	C-6
GN2 HIGH PRESSURE DISTRIBUTION SYSTEM	303	B-8
HAZARD MONITORING SENSORS (MSS)	735	B-1
HAZARD MONITORING SENSORS STORAGE AREA	223	B-9
HAZARD MONITORING SYSTEM	126	C-12
HAZARDOUS GAS ANALYZER	376	C-7
HAZARDOUS GAS ANALYZER RECORDER SYSTEM	135	C-11
HAZARDOUS GAS ANALYZER SYSTEM CONTROL PANEL	136	B-11

TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

SYSTEM ELEMENT	SEN	ZONE
HEAT EXCHANGER A7-71 (S-II, LH2)	456	B-5
HEAT EXCHANGER DSV-4B-438A (S-IVB, LH2)	437	C-5
HELIUM DISTRIBUTION PANEL	318	B-8
HELIUM HIGH PRESSURE DISTRIBUTION SYSTEM	315	B-8
HELIUM STORAGE AREA	224	B-10
HOLD DOWN AND RELEASE PANEL	473	A-5
HOLD DOWN ARMS (4)	474	A-5
HOLD DOWN ARMS CONTROL SYSTEM	362	A-7
HOLD DOWN ARMS CONTROL SYSTEM (LCC)	102	D-12
HSCU S-IC CHECKOUT CONSOLE	489	A-4
HSCU S-IC HYDRAULIC SKID	488	A-4
HSCU S-IC MOTOR CONTROL CENTER	490	A-4
HSCU S-IC UMBILICAL PRESSURE TRANSDUCER	491	A-4
I&C DISTRIBUTOR 9082	387	C-6
INDUSTRIAL WATER CONTROL SYSTEM	114	D-11
INDUSTRIAL WATER PAD PERIMETER VALVE PIT	206	D-10
INDUSTRIAL WATER PAD VALVE AND TANK AREA	215	C-10
INDUSTRIAL WATER POWER MODULE	127	D-11
INERT PREFILL HYDRAULIC PUMPING UNIT	484	A-3
INERT PREFILL SYSTEM CHECKOUT CONSOLE	485	A-3
INSULATION PURGE CONSOLE AND FILTER ASSEMBLY S7-45A & C (S-II)	448	C-5
INTEGRATED ESE	142	B-12
IU	607	D-2
IU COOLING UNIT (ALTERNATE)	414	D-5
IU COOLING UNIT (PRIMARY)	413	D-5
IU ESE	144	B-12
J-2 ENGINE (S-IVB)	605	C-2
J-2 ENGINES (5) (S-II)	603	B-2
LAUNCH SUPPORT EQUIPMENT RACKS	110	C-12
LAUNCH SUPPORT EQUIPMENT RACKS 6622, 6623	349	A-7
LEAK DETECTION ANALYZER C7-55 (S-II)	459	B-4
LEAK DETECTOR AMPLIFIER SEQUENCER RACK C7-56 (S-II)	358	C-7
LEAK DETECTOR CONTROL AND MONITOR RACKS C7-57 (S-II)	357	D-7
LH2 AND RP-1 STORAGE AREA DISTRIBUTOR 9813	229	B-9
LH2 BURN POND CABINET 5050A4	232	B-9
LH2 CONTROL DISTRIBUTOR	234	A-10
LH2 CONTROL EQUIPMENT	122	C-12
LH2 HAZARD MONITORING SENSORS (ML)	373	B-7
LH2 HAZARD MONITORING SENSORS (PAD)	239	C-9
LH2 STORAGE AREA	233	A-10

TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

SYSTEM ELEMENT	SEN	ZONE
LH2 VALVE COMPLEX (S-II)	455	B-6
LH2 VALVE COMPLEX (S-IVB)	436	C-5
LOX CONTROL DISTRIBUTORS	231	B-10
LOX CONTROL EQUIPMENT	132	C-12
LOX EMERGENCY FILL AND DRAIN VALVE COMPLEX (S-IC)	478	A-5
LOX STORAGE AREA	230	A-10
LOX VALVE COMPLEX (S-IC)	481	A-5
LOX VALVE COMPLEX (S-II)	442	C-6
LOX VALVE COMPLEX (S-IVB)	429	C-5
MEASURING STATION 9330, VAB	161	B-11
MOBILE HYDRAULIC SERVICER (S-II/S-IVB)	427	C-5
MOBILE SERVICER UNIT (S-IC) RJ-1 AND ETHYLENE GLYCOL	486	A-4
NITROGEN STORAGE AREA	218	C-10
OPERATIONS DISPLAY LOGIC AND DATA PROCESSING	180	A-11
PAD 50 PSI PURGE	220	C-9
PNEUMATIC ACTIVATION PURGE AND CHECKOUT CONSOLE S7-41C (S-II)	458	B-5
PNEUMATIC CHECKOUT RACKS 1-4 (S-IC)	465	B-5
PNEUMATIC CONSOLE NO. 432A (S-IVB)	431	C-4
PNEUMATIC CONSOLE NO. 433A (S-IVB)	438	C-4
PNEUMATIC CONSOLE (IU)	417	D-4
PNEUMATIC CONTROL CONSOLE S7-41B (S-II)	445	C-5
PNEUMATIC REGULATION AND DISTRIBUTION CONSOLE S7-41A (S-II)	452	C-4
PNEUMATIC VALVE CONSOLE RACKS 1-4 (S-IC)	467	B-4
PNEUMATIC VALVE CONSOLE RACKS 5-9 (S-IC)	466	B-5
PNEUMATIC VALVE PANEL II	312	B-7
POTABLE WATER PAD VALVE AND TANK AREA	212	C-10
POWER CONTROL DISTRIBUTION	152	A-12
PROPELLANT CONTROL CONSOLE (S-IC)	479	A-6
PROPELLANT CONTROL CONSOLE (S-II)	463	B-6
PROPELLANT CONTROL CONSOLE (S-IVB)	430	C-5
PROPELLANT DC POWER	120	C-12
PROPELLANT DISTRIBUTION PATCH RACKS	124	C-12
PROPELLANT PATCH RACKS	335	A-7
PROPELLANT TANKING COMPUTER SYSTEM	326	C-8
PROPELLANT TANKING COMPUTER SYSTEM (LCC)	118	C-12

TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

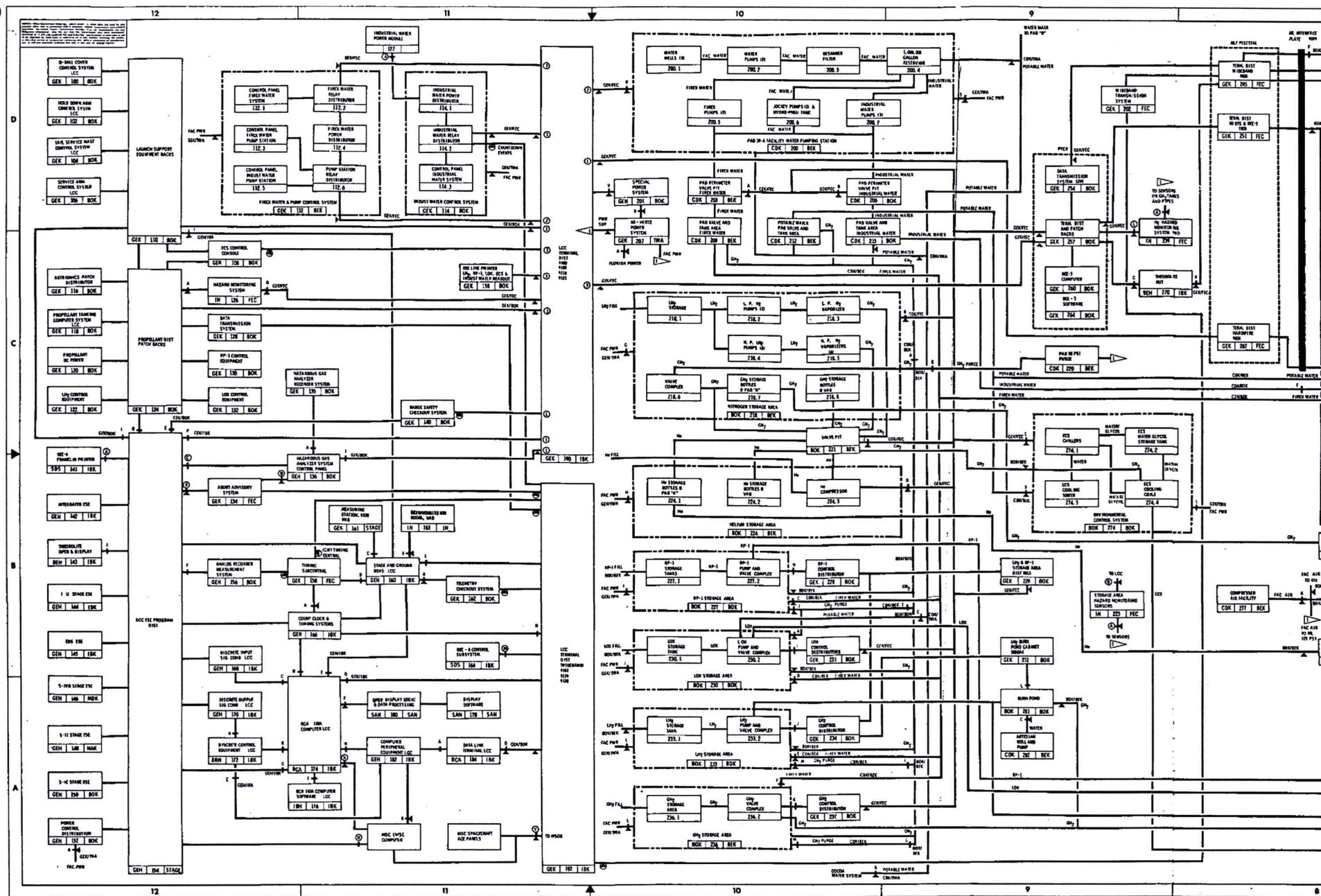
SYSTEM ELEMENT	SEN	ZONE
Q-BALL COVER	730	D-2
Q-BALL COVER CONTROL SYSTEM	360	B-7
Q-BALL COVER CONTROL SYSTEM (LCC)	100	D-12
Q-BALL COVER REMOVAL SYSTEM	401	A-5
RANGE SAFETY CHECKOUT SYSTEM	140	C-11
RANGE SAFETY GROUND CHECKOUT SYSTEM	396	B-6
RCA 110A COMPUTER (LCC)	174	A-11
RCA 110A COMPUTER (ML1 or 2)	343	C-7
RCA 110A COMPUTER SOFTWARE	340	C-7
RCA 110A COMPUTER SOFTWARE (LCC)	176	A-11
RETRANSMISSION ROOM, VAB	163	B-11
RP-1 CONTROL DISTRIBUTOR	228	B-10
RP-1 CONTROL EQUIPMENT	130	C-12
RP-1 STORAGE AREA	227	B-10
RP-1 VALVE COMPLEX (S-IC)	476	A-6
SERVICE ARM AND TAIL SERVICE MAST HYDRAULIC CHARGING UNIT	471	A-2
SERVICE ARM CONTROL CONSOLES NO. 1	477	A-3
SERVICE ARM CONTROL CONSOLES NO. 2	495	A-2
SERVICE ARM CONTROL SYSTEM	366	A-7
SERVICE ARM CONTROL SYSTEM (LCC)	106	D-12
SERVICE ARM SYSTEM NO. 1 (S-IC INTERTANK)	566	B-3
SERVICE ARM SYSTEM NO. 2 (S-IC FORWARD)	560	B-3
SERVICE ARM SYSTEM NO. 4 (S-II INTERMEDIATE)	548	B-3
SERVICE ARM SYSTEM NO. 5 (S-II FORWARD)	527	C-3
SERVICE ARM SYSTEM NO. 6 (S-IVB AFT)	521	C-3
SERVICE ARM SYSTEM NO. 7 (S-IVB FWD/IU)	515	C-3
SOLENOID VALVE CONTROL CABINET (S-IC)	475	A-5
SPECIAL POWER SYSTEM	201	D-10
STAGE AND GROUND DDAS	350	D-7
STAGE AND GROUND DDAS (LCC)	160	B-11
STAGE, GROUND AND INTEGRATED PROGRAM DISTRIBUTORS AND RELAY RACKS	356	C-7
S-IC STAGE	602	B-2
S-IC STAGE ESE	150	A-12
S-II STAGE	604	C-2
S-II STAGE ESE	148	A-12
S-IVB STAGE	606	C-2
S-IVB STAGE ESE	146	A-12
TAIL SERVICE MAST (3)	575	A-3
TAIL SERVICE MAST CONTROL SYSTEM	364	B-7
TAIL SERVICE MAST CONTROL SYSTEM (LCC)	104	D-12

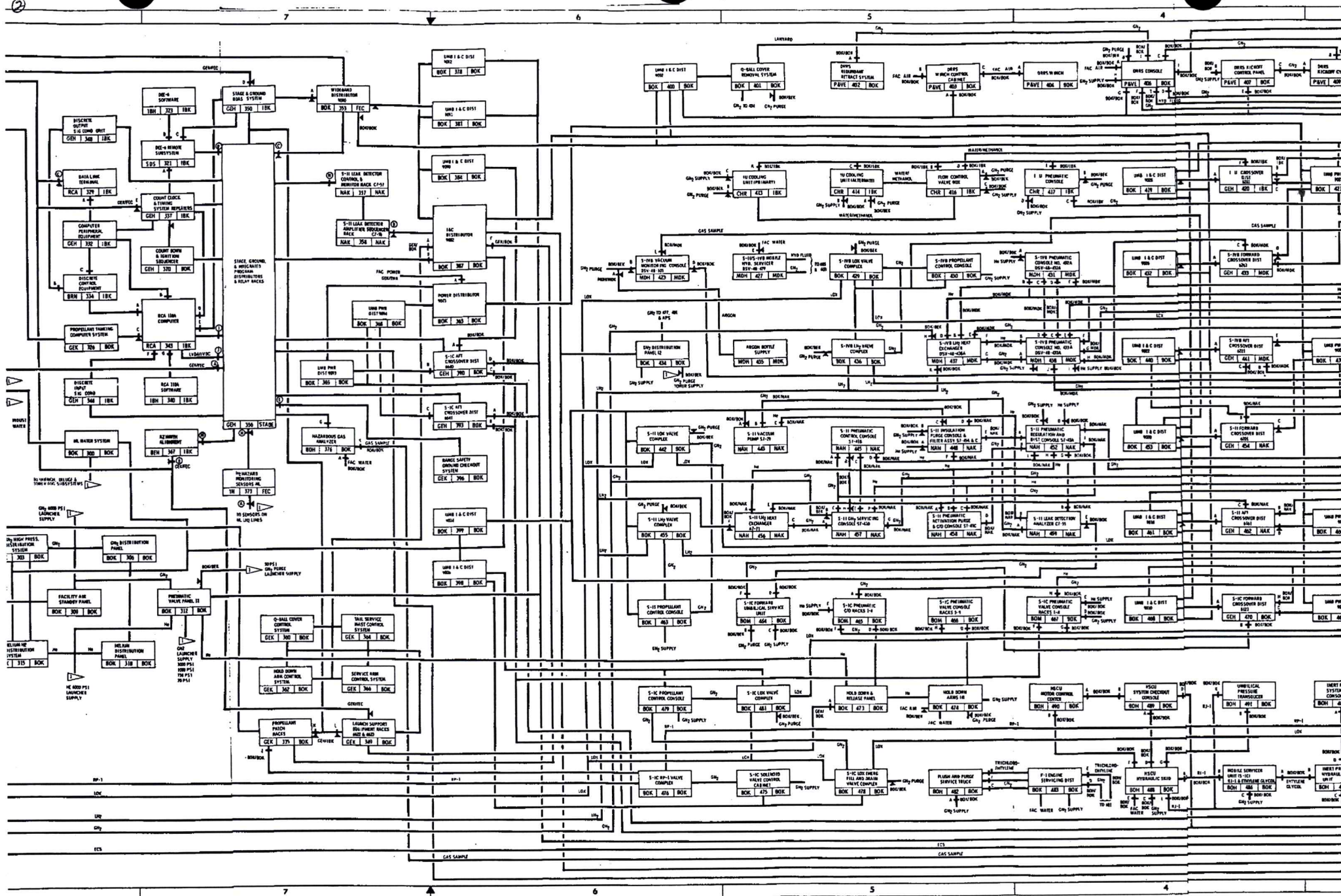
TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

SYSTEM ELEMENT	SEN	ZONE
TELEMETRY CHECKOUT SYSTEM	162	B-11
TERMINAL DISTRIBUTOR AND PATCH RACKS 9514 (PTCR)	257	C-9
TERMINAL DISTRIBUTOR HARDWARE 9803 TO DTS AND DEE-3	251	D-8
TERMINAL DISTRIBUTOR HARDWARE 9804	267	C-8
TERMINAL DISTRIBUTORS WIDEBAND 9101, 9119, 9120	192	A-11
TERMINAL DISTRIBUTORS WIDEBAND 9805	245	D-8
TERMINAL DISTRIBUTORS 9100, 9102, 9118, 9121	190	B-11
THEODOLITE HUT	270	C-9
THEODOLITE OPERATION AND DISPLAY	143	B-12
TIMING SUBCENTRAL	158	B-11
UMBILICAL CARRIER ASSY (S-IC AFT) (3)	572	A-2
UMBILICAL CARRIER ASSY (S-IC FORWARD)	563	B-2
UMBILICAL CARRIER ASSY (S-IC INTERTANK)	569	B-2
UMBILICAL CARRIER ASSY (S-II FORWARD)	551	C-2
UMBILICAL CARRIER ASSY (S-IVB AFT)	530	C-2
UMBILICAL CARRIER ASSY (S-IVB FORWARD)	524	C-2
UMBILICAL CARRIER ASSY AND DISCONNECTS (S-II INTERMEDIATE)	557	B-2
UMBILICAL HOUSING ASSY (IU)	518	D-2
UMBILICAL I&C DISTRIBUTOR 9006	398	B-6
UMBILICAL I&C DISTRIBUTOR 9010	468	B-4
UMBILICAL I&C DISTRIBUTOR 9014	399	B-6
UMBILICAL I&C DISTRIBUTOR 9016	461	B-4
UMBILICAL I&C DISTRIBUTOR 9020	453	C-4
UMBILICAL I&C DISTRIBUTOR 9022	440	C-4
UMBILICAL I&C DISTRIBUTOR 9026	432	C-4
UMBILICAL I&C DISTRIBUTOR 9028	419	D-4
UMBILICAL I&C DISTRIBUTOR 9032	400	D-6
UMBILICAL I&C DISTRIBUTOR 9090	384	D-6
UMBILICAL I&C DISTRIBUTOR 9091	381	D-6
UMBILICAL I&C DISTRIBUTOR 9092	378	D-6
UMBILICAL POWER DISTRIBUTOR 9013	469	B-3
UMBILICAL POWER DISTRIBUTOR 9017	460	B-3
UMBILICAL POWER DISTRIBUTOR 9023	439	C-3
UMBILICAL POWER DISTRIBUTOR 9027	421	D-3
UMBILICAL POWER DISTRIBUTOR 9093	365	C-7
UMBILICAL POWER DISTRIBUTOR 9094	368	C-7
VACUUM MONITOR CONSOLE DSV-4B-303 (S-IVB)	423	C-6
VACUUM PUMP S7-29 (S-II)	443	C-5
VALVE PIT	221	C-10
WATER SYSTEM (ML)	300	C-8
WIDEBAND DISTRIBUTOR 9080	353	D-7
WIDEBAND TRANSMISSION SYSTEM	202	D-9

TABLE 4-1. SYSTEM ELEMENT TABLE (Continued)

SYSTEM ELEMENT	SEN	ZONE
60-HERTZ POWER SYSTEM	207	C-10







SATURN V/SA-503 SYSTEM DEFINITION DIAGRAM