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(NASA-TM-X-69468) LAUNCH VEHICLE TEST AND CHECKOUT PLAN. - VOLUME 2: SATURN 1B LAUNCH VEHICLE SKYLAB P (RESCUE) AND AS-208 FLOW PLAN AND LISTINGS (NASA) 167 p HC $10.50 CSCL 22D G3/31

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REVISION A
AUGUST 6, 1973

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LAUNCH VEHICLE
TEST AND CHECKOUT PLAN
VOLUME II
SATURN IB LAUNCH VEHICLE
SKYLAB R (RESCUE) & AS-208
FLOW PLAN AND LISTINGS

Prepared For
LAUNCH VEHICLE OPERATIONS

Prepared By
THE BOEING COMPANY
ATLANTIC TEST CENTER
SATURN LAUNCH OPERATIONS

KSC FORM 16-12 (4/66)

SATURN 1B
LAUNCH VEHICLE
TEST AND CHECKOUT PLAN
FLOW PLAN AND LISTINGS

APPROVED:

H. GRUENE
DIRECTOR, LAUNCH VEHICLE OPERATIONS

LAUNCH VEHICLE OPERATIONS
JOHN F. KENNEDY SPACE CENTER, NASA

PART I

INTRODUCTION

SKYLAB R (RESCUE) & AS-208

A. PURPOSE:

THE LAUNCH OPERATIONS TEST AND CHECKOUT PLAN IS A PLANNING DOCUMENT THAT ESTABLISHES ALL LAUNCH SITE CHECKOUT ACTIVITY, INCLUDING THE INDIVIDUAL TESTS AND SEQUENCE OF TESTING REQUIRED TO FULFILL THE DEVELOPMENT CENTER (MSFC) AND KSC TEST AND CHECKOUT REQUIREMENTS. THIS PLAN CONSISTS OF THREE VOLUMES:

VOLUME I - SPACE VEHICLE
VOLUME II - LAUNCH VEHICLE
VOLUME III - SPACECRAFT

THE PURPOSE OF THE TEST AND CHECKOUT PLAN IS TO DEFINE THE SPECIFIC TEST AND CHECKOUT ACTIVITIES IN ORDER TO ASSURE THAT PREPARATION AND EXECUTION OF THE DEFINED TEST AND CHECKOUT PROCEDURES (TCP'S) WILL SATISFACTORILY FULFILL ALL OF THE TEST AND CHECKOUT REQUIREMENTS.

B. SCOPE:

THIS DOCUMENT IS VOLUME II OF THE LAUNCH OPERATIONS TEST AND CHECKOUT PLAN. IT CONTAINS THE LAUNCH VEHICLE TEST AND CHECKOUT PLAN ENCOMPASSING S-IB, S-IVB AND IU STAGE AND GROUND SUPPORT EQUIPMENT TESTS REQUIRED BY THE DEVELOPMENT CENTER, KSC AND LAUNCH VEHICLE STAGE CONTRACTORS. THE PLAN IS BASED UPON AS-208 FLOW UTILIZING A MANNED SPACECRAFT, LUT 1 AND LAUNCH PAD 39B FACILITIES.

C. DESCRIPTION OF CONTENTS:

VOLUME II OF THE TEST AND CHECKOUT PLAN CONSISTS OF THIS DOCUMENT, GP-1005 FLOW PLAN AND LISTINGS, AND GP-592, CATALOG OF TESTS AND OPERATIONS. REV. 28

(CONTINUED)

C. DESCRIPTION OF CONTENTS:

FLOW PLAN AND LISTINGS

THE FLOW PLAN AND LISTINGS INCLUDES THE FOLLOWING ITEMS:

TEST SEQUENCE FLOW CHART - PRESENTS A FLOW OF SIGNIFICANT MILESTONES BETWEEN STAGE ARRIVAL AND LAUNCH. THE TOTAL SPAN IS DIVIDED INTO SEVEN PHASES FOR POSITIVE CONTROL OF ALL TESTS AND OPERATIONS.

LISTING OF PROCEDURES BY PHASE - PRESENTS THE LIST OF PROCEDURE NUMBERS THAT ARE TO BE PERFORMED DURING EACH PHASE.

CROSS REFERENCE OF MSFC REQUIREMENTS TO TEST AND CHECKOUT PROCEDURES - PRESENTS A LISTING OF EACH MSFC REQUIREMENT PARAGRAPH NUMBER ALONG WITH ONE OR MORE TCP'S THAT FULFILLS THAT REQUIREMENT.

LISTING OF DEVIATIONS FROM MSFC REQUIREMENTS - PRESENTS A LISTING OF ALL APPLICABLE MSFC TEST AND CHECKOUT REQUIREMENT PARAGRAPHS NOT SATISFIED BY THE TEST AND CHECKOUT PLAN.

LISTINGS OF TESTS - PRESENTS LISTINGS (INDEXES) OF THE TESTS APPLICABLE TO THE LAUNCH VEHICLE. , THE LISTINGS ARE DIVIDED INTO THREE PARTS. THE FIRST IS "PLANNED TESTS AND OPERATIONS," THE SECOND IS "STANDBY TEST AND OPERATIONS" AND THE THIRD IS "SUBTASKS." THE TEST CATALOG SHEETS WILL BE FOUND IN GP-592, CATALOG OF TESTS AND OPERATIONS, REV. 28.

NOTE

THIS DOCUMENT, GP-1005 CONTAINS A TOTAL OF 172 PAGES. IT IDENTIFIES THE AS-208 TEST CATALOG SHEETS AND TEST REQUIREMENTS APPROVED AS OF AUGUST 6, 1973.

NOTE

THE CHANGES INCORPORATED INTO THIS REVISION ARE IDENTIFIED BY A MARK IN THE RIGHT HAND MARGIN

D. REFERENCES:

KMI 8635.1/LO PROCEDURE NUMBERING SYSTEM FOR OPERATIONS AT AFETR/KSC, JULY 14, 1971.

1. TI-2-17 LAUNCH VEHICLE OPERATIONS PROCEDURE HANDBOOK.

2. TM-011-001-2R SATURN 1B LAUNCH VEHICLE TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS AND CRITERIA FOR USE AT KSC, AS-206 AND SUBS, FEBRUARY 28, 1972

3. 60C06050 TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS, AND CRITERIA FOR USE AT KSC - SATURN S-IB-6 AND SUBSEQUENT STAGES.

4. 1B86721 TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS AND CRITERIA AT KSC, SATURN S-IVB-206 AND SUBS, SEPT. 12, 1972.

5. 7921601 SATURN 1B, S-IU-206 AND SUBSEQUENT TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS, AND CRITERIA FOR USE AT KSC, DECEMBER 9, 1971

6. GP-592 LAUNCH VEHICLE CATALOG OF TESTS AND OPERATIONS, REV. 28.

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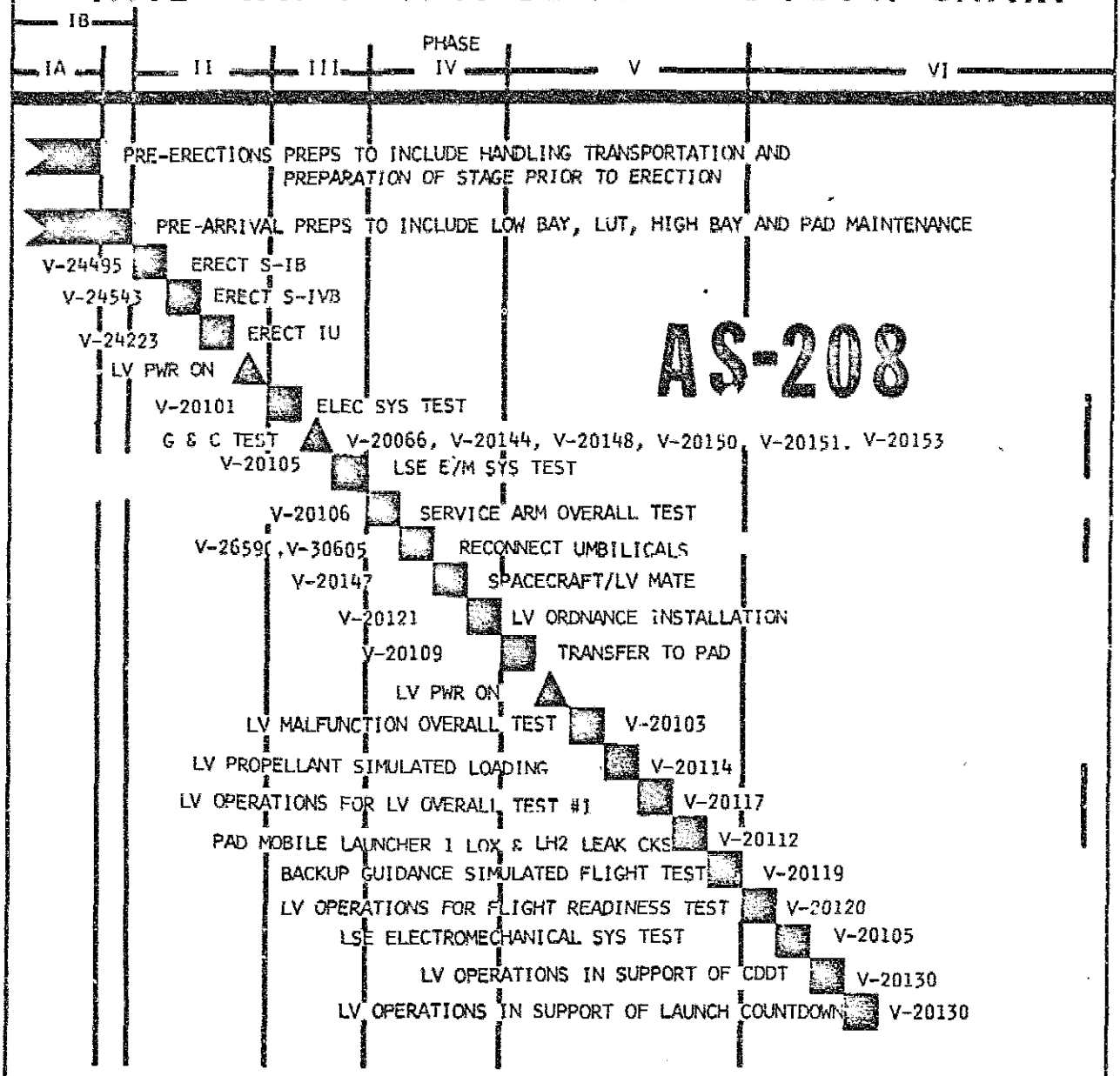
INTEGRATED TEST SEQUENCE FLOW CHART



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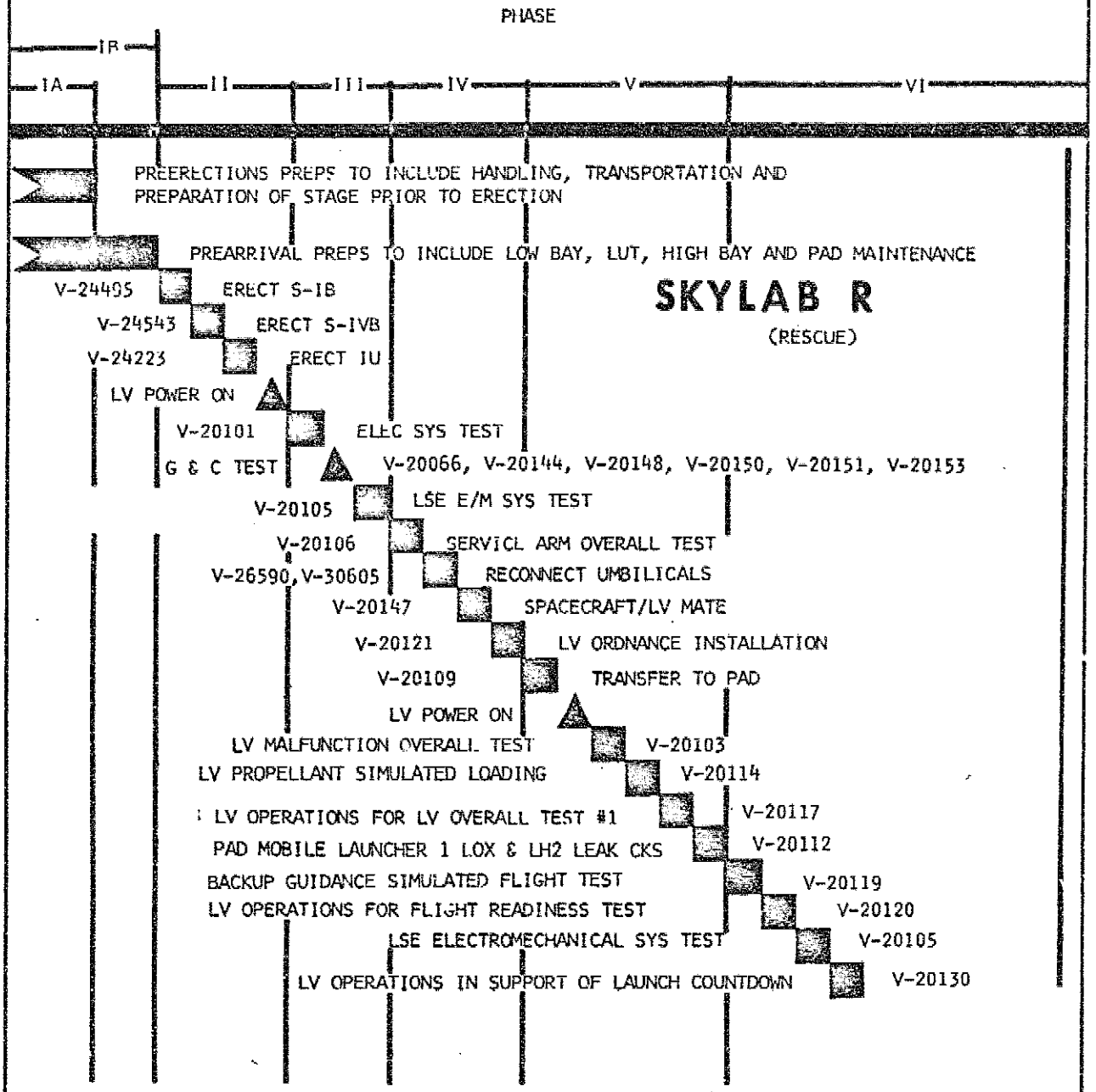
BATC SAT V INTEGRATION

Ted L. Oglesby
T. L. OGLESBY
LVO INTEGRATION TECH. MGR.

INTEGRATION TEST SEQUENCE FLOW CHART



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D. INDEX OF TEST AND CHECKOUT PROCEDURES (TCP'S) BY PHASE

PHASE IA

S-IB (CCSD)	S-IVB (MDAC)	S-IU (IBM)	NASA
V-21509	V-21496	V-21243	V-28147
V-21520	V-21498	V-21497	
V-23259	V-21535	V-21507	
V-23262	V-21536	V-21527	
V-23263	V-21537	V-22006	
V-23264	V-23137	V-23025	
V-24477	V-24182	V-23028	
V-24479	V-24183	V-23178	
V-24480	V-24263	V-23237	
V-24484	V-24273	V-23278	
V-24485	V-24341	V-23289	
V-24486	V-24357	V-24452	
V-24491	V-24389	V-24453	
V-24492	V-24404	V-27079	
V-24493	V-24421	V-27233	
V-24494	V-24426	V-28053	
V-24498	V-24427	V-28228	
V-24503	V-24429		
V-24506	V-24436		
V-24510	V-24446		
V-26515	V-24447		
V-33035	V-24449		
V-33036	V-24455		
V-34051	V-24462		
	V-24464		
	V-24465		
	V-24467		
	V-24468		
	V-24473		
	V-24487		
	V-24488		
	V-24489		
	V-24536		
	V-24540		
	V-24541		
	V-24545		
	V-24547		
	V-24548		
	V-24552		
	V-24565		
	V-27249		
	V-28121		
	V-34010		
	V-34011		
	V-34056		

PHASE IB

S-IB (CCSD)	S-IVB (MDAC)	S-IU (IBM)	(TBC)	NASA
V-21500	V-21380	V-21243	V-21153	V-28003
V-21501	V-21435	V-21274	V-21162	V-28004
V-21502	V-21533	V-21371	V-21163	V-28005
V-21503	V-21534	V-21497	V-21164	V-28008
V-21505	V-26002	V-21532	V-21165	V-28070
V-21506	V-26003	V-22006	V-21194	V-28147
V-21510	V-28035	V-22014	V-21440	V-28150
V-21514		V-23178	V-25444	
V-21515		V-23230	V-26483	
V-21528		V-23237	V-26560	
V-26515		V-23239	V-26603	
V-26516		V-23240	V-26605	
V-26529		V-23241	V-27175	
V-26531		V-23242	V-27193	
V-26552		V-23243	V-27228	
V-26554		V-23245	V-31109	
V-26556		V-23246	V-36914	
V-26561		V-23252		
V-26588		V-23253		
V-26589		V-24422		
V-27234		V-24452		
V-27235		V-24454		
V-33037		V-26642		
V-38010		V-26643		
		V-27079		
		V-27233		
		V-28053		
		V-28092		
		V-28228		
		V-36038		

PHASE II

S-IB-(CCSD)		S-IVB (MDAC)	S-IU (IBM)	(TBC)	NASA
V-21500	V-28218	V-21262	V-20147	V-21152	V-28009
V-21501	V-28219	V-24086	V-21243	V-21162	V-28147
V-21508	V-31115	V-24369	V-21371	V-21163	
V-21516	V-34052	V-24370	V-21507	V-21164	
V-21520	V-34054	V-24373	V-21527	V-21165	
V-21522	V-34055	V-24374	V-21532	V-21176	
V-21526	V-38007	V-24402	V-22006	V-21326	
V-23260	V-38009	V-24543	V-23179	V-21349	
V-23261	V-38010		V-23214	V-25447	
V-23262			V-23230	V-26062	
V-23275			V-23237	V-26138	
V-23276			V-23239	V-26186	
V-24475			V-23240	V-26380	
V-24476			V-23241	V-26384	
V-24478			V-23242	V-26390	
V-24481			V-23243	V-26414	
V-24482			V-23246	V-26434	
V-24483			V-23252	V-26435	
V-24495			V-23253	V-26436	
V-24498			V-24223	V-26443	
V-24499			V-24298	V-26544	
V-24500			V-24407	V-26560	
V-24501			V-24453	V-26598	
V-24504			V-24454	V-26609	
V-24505			V-27077	V-26620	
V-24525			V-27079	V-36023	
V-26515			V-27233	V-36145	
V-26529			V-28053		
V-26531			V-28059		
V-26589			V-28092		
V-26590			V-28227		
V-26641			V-28228		
V-27234			V-30030		
V-27235			V-31011		
V-27236			V-31108		
V-27237			V-34045		
V-27238			V-34046		
V-27239			V-36038		
V-27240			V-36046		
V-27241			V-36048		
V-27242					
V-27244					
V-28202					
V-28205					
V-28208					
V-28214					

PHASE III

S-IB (CCSD)		S-IVB (MDAC)	S-IU (IBM)		(TBC)	NASA
V-21504	V-31130	V-21075	V-20061	V-27061	V-20101	V-28009
V-21516	V-31135	V-21538	V-20063	V-27062		V-28147
V-21517	V-33038	V-23124	V-20064	V-27063	V-20105	
V-21519	V-34050	V-24098	V-20066	V-27064	V-21002	
V-21528	V-38007	V-24469	V-20144	V-27065	V-21022	
V-21554	V-38009	V-24549	V-20146	V-27066	V-21152	
V-21556	V-38010	V-24950	V-20148	V-27067	V-21153	
V-21582		V-24553	V-20150	V-27077	V-21292	
V-23266		V-24560	V-20151	V-27079	V-21326	
V-23267		V-27247	V-20153	V-27253	V-21434	
V-23268		V-28037	V-21222	V-28049		
V-24502		V-29132	V-21223	V-28050	V-21569	
V-24507		V-30494	V-21243	V-28051	V-21573	
V-24508		V-30602	V-21255	V-28055	V-25098	
V-24509			V-21507	V-28059	V-25171	
V-24511			V-21527	V-28061	V-25447	
V-24512			V-21532	V-28063	V-26064	
V-24513			V-22006	V-28072	V-26133	
V-24514			V-23030	V-28092	V-26382	
V-24516			V-23048	V-28213	V-26384	
V-24534			V-23049	V-28227	V-26414	
V-26529			V-23068	V-28229	V-26443	
V-26531			V-23153	V-28232	V-26615	
V-26532			V-23155	V-30030	V-26617	
V-26589			V-23160	V-31011	V-27209	
V-27234			V-23169	V-31012	V-26023	
V-27235			V-23199	V-31108		
V-27236			V-23230	V-31126		
V-27237			V-23237	V-33013		
V-27238			V-23279	V-34017		
V-27239			V-23281	V-34045		
V-27240			V-23284	V-34047		
V-27241			V-24223	V-36038		
V-27242			V-24228	V-36046		
V-27244			V-24299			
V-28202			V-24303			
V-28205			V-24391			
V-28208			V-24407			
V-28214			V-24408			
V-28218			V-24435			
V-28219			V-24453			
V-29116			V-24454			
V-29140			V-27056			
V-31115			V-27058			
V-31117			V-27060			

PHASE IV

S-IB (CCSD)	S-IVB (MDAC)	S-IU (IBM)		(TBC)		NASA
V-21502	V-20121	V-20025	V-31011	V-20106	V-26040	V-28009
V-21517	V-21540	V-20146	V-31012	V-20107	V-26109	V-28147
V-21522	V-24276	V-20147	V-31108	V-20109	V-26113	
V-24493	V-24554	V-21222	V-31119	V-20118	V-26196	
V-26532	V-24556	V-21223	V-31123	V-20126	V-26197	
V-26555	V-24562	V-21243	V-31125	V-20127	V-26198	
V-26589	V-27104	V-21255	V-33013	V-20128	V-26203	
V-26590	V-27250	V-21507	V-33029	V-20129	V-26217	
V-27234	V-30605	V-21527	V-33032	V-20132	V-26333	
V-27235	V-39024	V-21532	V-33034	V-21166	V-26336	
V-27236	V-39025	V-22006	V-34017	V-21363	V-26433	
V-27237	V-39026	V-23068	V-34045	V-21391	V-26462	
V-27238	V-39027	V-23197	V-34047	V-21392	V-26565	
V-27239	V-39031	V-23230	V-36038	V-21393	V-26566	
V-27240				V-21394	V-26567	
V-27241		V-23237		V-21395	V-26575	
V-27242		V-23279		V-21409	V-26602	
V-27244		V-23284		V-21441	V-27209	
V-28208		V-24299		V-21447	V-28019	
V-31115		V-24303		V-21543	V-28109	
V-31129		V-24391		V-21567	V-31042	
V-33039		V-24407		V-21568	V-31120	
V-36139		V-24408		V-21569	V-35003	
V-36939		V-24422		V-21575	V-35020	
V-38007		V-24437		V-21576	V-36025	
V-38009		V-24443		V-25014	V-36044	
V-38010		V-24454		V-25026	V-36052	
V-38011		V-27056		V-25028	V-36053	
V-39017		V-27058		V-25030	V-36057	
V-39023		V-27060		V-25037	V-36087	
		V-27061		V-25173	V-36109	
		V-27062		V-25274	V-36146	
		V-27063		V-25276	V-36150	
		V-27064		V-25279	V-36154	
		V-27065		V-25281	V-36156	
		V-27066		V-25323	V-36161	
		V-27067		V-25326	V-36163	
		V-27077		V-25353		
		V-27079		V-25386		
		V-27233		V-25405		
		V-28049		V-25414		
		V-28050		V-25415		
		V-28051		V-25416		
		V-28092		V-25418		
		V-28213		V-25439		
		V-28232		V-25443		
		V-30030		V-25447		
				V-26037		
				V-26038		

PHASE V

S-IB (CCSD)	S-IVB (MDAC)	S-IU (IBM)		(TBC)		NASA
V-21500	V-21539	V-20026	V-28056	V-20084	V-25434	V-28009
V-21502	V-23125	V-20149	V-28063	V-20103	V-25435	V-28147
V-21503	V-24344	V-21096	V-28072	V-20109	V-25436	
V-21508	V-27246	V-21222	V-28092	V-20112	V-25437	
V-21514	V-30603	V-21223	V-28194	V-20114	V-25438	
V-21517	V-30607	V-21243	V-28195	V-20117	V-25440	
V-21518	V-30608	V-21255	V-28196	V-20118	V-25442	
V-21520		V-21371	V-28213	V-20119	V-26033	
V-21524		V-21507	V-28230	V-21002	V-26034	
V-21525		V-21513	V-28232	V-21023	V-26064	
V-23269		V-21527	V-28233	V-21152	V-26218	
V-24517		V-21532	V-28234	V-21292	V-26323	
V-24526		V-21564	V-31011	V-21326	V-26324	
V-26516		V-22006	V-31065	V-21363	V-26460	
V-26552		V-23059	V-31066	V-21386	V-26574	
V-26589		V-23062	V-31108	V-21445	V-26591	
V-26641		V-23066	V-31121	V-21557	V-26599	
V-27234		V-23068	V-31124	V-21565	V-26601	
V-27235		V-23230	V-33029	V-21568	V-26622	
V-27236			V-33032	V-25007	V-27196	
V-27238		V-23237	V-34017	V-25012	V-27209	
V-27239		V-23245	V-34045	V-25019	V-28024	
V-27240		V-23252	V-34047	V-25020	V-28109	
V-27241		V-24299	V-36038	V-25021	V-36093	
V-27242		V-24407		V-25023	V-36094	
V-27244		V-24408		V-25026		
V-28206		V-24437		V-25029		
V-28208		V-24453		V-25030		
V-28215		V-24454		V-25076		
V-28216		V-24561		V-25077		
V-31115		V-26548		V-25078		
V-31131		V-27056		V-25141		
V-31133		V-27058		V-25146		
V-31134		V-27060		V-25153		
V-36138		V-27061		V-25154		
V-36939		V-27062		V-25167		
V-38007		V-27063		V-25172		
V-38009		V-27064		V-25186		
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		V-27077		V-25373		
		V-27079		V-25386		
		V-27233		V-25409		
		V-28049		V-25411		
		V-28050		V-25417		
		V-28051		V-25420		
				V-25421		
				V-25427		
				V-25428		
				V-25429		
				V-25433		

PHASE VI

S-IB (CCSD)		S-IVB (MDAC)	S-IU (IBM)		(TBC)		NASA
V-21502	V-39012	V-21084	V-21096	V-28195	V-20109	V-25332	V-28009
V-21510	V-39013	V-21266	V-21222	V-28196	V-20110	V-25334	V-28147
V-21517	V-39014	V-21323	V-21223	V-28213	V-20114	V-25338	
V-21520	V-39015	V-21324	V-21243	V-28233	V-20120	V-25341	
V-21570	V-39016	V-21413	V-21255	V-28250	V-20127	V-25347	
V-24508	V-39018	V-21529	V-21479	V-31108	V-20128	V-25355	
V-24518	V-39019	V-21530	V-21507	V-31119	V-20130	V-25412	
V-24519	V-39020	V-24193	V-21513	V-31122	V-20131	V-25413	
V-24520	V-39021	V-24201	V-21527	V-33011	V-20132	V-25414	
V-24521	V-39022	V-24202	V-21532	V-33029	V-21002	V-25415	
V-24522	V-39023	V-24305	V-21564	V-33032	V-21020	V-25416	
V-24523		V-24470	V-22006	V-33033	V-21333	V-25418	
V-24535		V-24471	V-22013	V-33034	V-21334	V-25422	
V-26516		V-24542	V-23059	V-34017	V-21363	V-25423	
V-26552		V-24563	V-23062	V-34045	V-21445	V-25424	
V-26589		V-24564	V-23066	V-34046	V-21565	V-25435	
V-27235		V-26506	V-23068	V-34047	V-25002	V-25439	
V-27244		V-29037	V-23237	V-36038	V-25004	V-25441	
V-29116		V-29065	V-24303		V-25006	V-25443	
V-29117		V-29130	V-24407		V-25009	V-25446	
V-29126		V-30609	V-24408		V-25010	V-26394	
V-29128		V-30610	V-24437		V-25011	V-26480	
V-29129			V-24445		V-25013	V-26481	
V-29141			V-24453		V-25015	V-26592	
V-31110			V-24454		V-25016	V-26600	
V-31112			V-26549		V-25025	V-27087	
V-31114			V-27056		V-25032	V-27196	
V-31115			V-27058		V-25033	V-28024	
V-31116			V-27060		V-25034	V-31045	
V-31118			V-27061		V-25036	V-31046	
V-31133			V-27062		V-25042	V-35003	
V-31138			V-27063		V-25044	V-36063	
V-36136			V-27064		V-25142	V-36064	
V-36939			V-27065		V-25143	V-36079	
V-36940			V-27066		V-25160	V-36082	
V-36941			V-27067		V-25167	V-36084	
V-37015			V-27077		V-25177	V-36085	
V-38007			V-27079		V-25252	V-36086	
V-38008			V-27233		V-25260	V-36087	
V-38009			V-28049		V-25271	V-36144	
V-38010			V-28050		V-25274	V-36155	
V-39008			V-28051		V-25276	V-36165	
V-39009			V-28056		V-25279	V-36935	
V-39010			V-28063		V-25281	V-36937	
V-39011			V-28072		V-25284		
			V-28092		V-25301		
			V-28194		V-25312		
					V-25318		
					V-25320		
					V-25325		
					V-25330		

PHASE N/A

NOTE: THE FOLLOWING LIST OF PROCEDURES ARE NOT PHASE ORIENTED, BUT ARE PLANNED TO BE RUN FOR AS-208.

S-IB (CCSD)		S-IVB (MDAC)		S-IU (IBM)	(TBC)		NASA
V-21511	V-26644	V-29133	V-21480	V-21214	V-20111	V-36133	V-27030
V-21523	V-26645			V-21258	V-21174	V-36134	V-27031
V-21526	V-26646	V-34053		V-21277	V-21194	V-36142	V-27032
V-21546	V-26647			V-21285	V-21272	V-36143	V-27033
V-23265	V-26648			V-21400	V-21327	V-36167	V-27034
V-23270	V-26649			V-21448	V-25002	V-37038	V-27035
V-23271	V-26650			V-21458	V-25179	V-38000	V-27036
V-23272	V-26651			V-21478	V-25321	V-38001	V-27038
V-23273	V-26652			V-21507	V-25328	V-38006	V-27047
V-23274	V-26653			V-21553	V-25329		V-27071
V-23277	V-26654			V-21559	V-25331		V-27137
V-24497	V-26655			V-22005	V-26165		V-27138
V-24515	V-26656			V-23180	V-26223		V-27204
V-24527	V-26657			V-23235	V-26261		
V-24528	V-26658			V-23287	V-26396		
V-24529	V-26659			V-23290	V-26442		
V-24530	V-26660			V-26491	V-26446		
V-24531	V-26661			V-26492	V-26448		
V-24539	V-26662			V-26494	V-26458		
V-24544	V-26663			V-27213	V-26485		
V-26514	V-26664			V-27229	V-26486		
V-26528	V-26665			V-28085	V-26501		
V-26530	V-26666			V-28086	V-26502		
V-26533	V-26667			V-28088	V-26503		
V-26538	V-26668			V-28089	V-28106		
V-26562	V-26669			V-28090	V-36000		
V-26564	V-26670			V-28091	V-36035		
V-26568	V-26671			V-28146	V-36036		
V-26569	V-26672			V-28152	V-36037		
V-26570	V-26673			V-28187	V-36096		
V-26571	V-26674			V-28197	V-36098		
V-26572	V-26675			V-28231	V-36114		
V-26573	V-26676			V-28235	V-36116		
V-26577	V-26677			V-32000	V-36117		
V-26578	V-28203			V-32001	V-36118		
V-26593	V-28204			V-36141	V-36119		
V-26594	V-28207				V-36120		
V-26595	V-28209				V-36121		
V-26627	V-28210				V-36122		
V-26629	V-28211				V-36123		
V-26630	V-28212				V-36124		
V-26631	V-28217				V-36126		
V-26632	V-28220				V-36127		
V-26633	V-28221				V-36131		
V-26634	V-28223						
V-26635	V-28224						
V-26636	V-29118						
V-26637	V-29119						
V-26638	V-29121						

F. S-IB REQUIREMENTS

PROCEDURE NO.

THE S-IB REQUIREMENTS LISTED IN THE FOLLOWING CROSS INDEX ARE EXTRACTED FROM 60C06050 TEST AND CHECKOUT REQUIREMENTS SPECIFICATIONS, AND CRITERIA FOR USE AT KSC - SATURN S-IB-6 AND SUBSEQUENT STAGES.

NOTES

1. THIS TEST REQ WILL BE SATISFIED BY THE PROCEDURE IDENTIFIED. THE TEST CATALOG SHEET IS BEING REVISED TO REFLECT THIS REQUIREMENT.

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.0.0.1	COMPONENTS BENCH TEST	AS FOLLOWS
3.0.0.1.1	FLIGHT COMPONENTS	AS FOLLOWS
3.0.0.1.1.1		AS FOLLOWS
3.0.0.1.1.2		AS FOLLOWS
3.0.0.1.1.2.1		AS FOLLOWS
3.0.0.1.1.2.1.1	COVERED BY 3.5.1.2.1 THROUGH 3.5.1.2.10	
3.0.0.1.1.2.1.2	COVERED BY 3.5.1.3.3	
3.0.0.1.1.2.2	SAFE & ARM DEVICE	AS FOLLOWS
3.0.0.1.1.2.2.1		AS FOLLOWS
3.0.0.1.1.2.2.1.1		V-39012
3.0.0.1.1.2.2.1.2		V-39012
3.0.0.1.1.2.2.2		AS FOLLOWS
3.0.0.1.1.2.2.2.1		V-39012
3.0.0.1.1.2.2.2.2		V-39012
3.0.0.1.1.2.2.3		AS FOLLOWS
3.0.0.1.1.2.2.3.1		V-39012
3.0.0.1.1.2.2.3.2		V-39012
3.0.0.1.1.2.3	EBW DETONATORS	AS FOLLOWS
3.0.0.1.1.2.3.1		V-39011
3.0.0.1.1.2.3.2		V-39011
3.0.0.1.1.2.4	COVERED BY 3.7.1.1.5 THROUGH 3.7.1.1.6.2	
3.0.0.1.1.2.5	COVERED BY 3.7.1.1.9 AND 3.7.1.1.10	

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.0.0.1.1.2.6	COVERED BY 3.7.1.1.11.1 AND 3.7.1.1.11.2	
3.0.0.1.1.2.7	COVERED BY 3.7.1.1.7 AND 3.7.1.1.8	
3.0.0.1.1.2.8	COVERED BY 3.7.1.1.13.1 THROUGH 3.7.1.1.13.3	
3.0.0.1.1.2.9	COVERED BY 3.3.5.17.1	
3.0.0.1.2	SPARE FLIGHT COMPONENTS	AS FOLLOWS
3.0.0.1.2.1	COVERED BY 3.5.1.2.1 THROUGH 3.5.1.2.10 AND 3.5.1.3.3	
3.0.0.1.2.2	COVERED BY 3.0.0.1.1.2.2.1 THROUGH 3.0.0.1.1.2.2.3	
3.0.0.1.2.3	COVERED BY 3.0.0.1.1.2.3.1 AND 3.0.0.1.1.2.3.2	
3.0.0.1.2.4	COVERED BY 3.7.1.1.5 THROUGH 3.7.1.1.6.2	
3.0.0.1.2.5	COVERED BY 3.7.1.1.9 AND 3.7.1.1.10	
3.0.0.1.2.6	COVERED BY 3.7.1.1.11.1 AND 3.7.1.1.11.2	
3.0.0.1.2.7	COVERED BY 3.7.1.1.7 AND 3.7.1.1.8	
3.0.0.1.2.8	COVERED BY 3.7.1.1.13.1 THROUGH 3.7.1.1.13.3	
3.0.0.1.2.9		AS FOLLOWS
3.0.0.1.2.9.1		V-28204
3.0.0.1.2.9.2		V-28204
3.0.0.1.2.9.3		V-28204
3.0.0.1.2.9.4		V-28204

(CONTINUED)

F. S-IB REQUIPEMENTS	PROCEDURE NO.
3.0.0.1.2.9.5	V-28204
3.0.0.1.2.9.6	V-28204
3.0.0.1.2.9.7	V-28204
3.0.0.1.2.9.8	V-28204
3.0.0.1.2.9.9	V-28204
3.0.0.1.2.9.10	V-28204
3.0.0.1.2.10	AS FOLLOWS
3.0.0.1.2.10.1	AS FOLLOWS
3.0.0.1.2.10.1.1	V-28203
3.0.0.1.2.10.1.2	V-28203
3.0.0.1.2.10.2	V-28203
3.0.0.1.2.10.3	V-28203
3.0.0.1.2.10.4	V-28203
3.0.0.1.2.10.5	AS FOLLOWS
3.0.0.1.2.10.5.1	V-28203
3.0.0.1.2.10.5.2	V-28203
3.0.0.1.2.10.6	V-28209
3.0.0.1.2.10.7	V-28209
3.0.0.1.2.11	AS FOLLOWS
3.0.0.1.2.11.1	V-29133
3.0.0.1.2.11.2	V-29133
3.0.0.1.2.11.3	V-29133
3.0.0.1.2.11.4	V-29133
3.0.0.1.2.11.5	V-29133

(CONTINUED)

F. S-IB REQUIREMENTS	PROCEDURE NO.
3.0.0.1.2.11.6	V-29133
3.0.0.1.2.11.7	V-29133
3.0.0.1.2.11.8	V-29133
3.0.0.1.2.11.9	V-29133
3.0.0.1.2.11.10	V-29133
3.0.0.1.2.12	AS FOLLOWS
3.0.0.1.2.12.1	V-21546
3.0.0.1.2.12.1.2	V-21546
3.0.0.1.2.12.2	AS FOLLOWS
3.0.0.1.2.12.2.1	V-21546
3.0.0.1.2.12.2.2	V-21546
3.0.0.1.2.12.2.3	V-21546
3.0.0.1.2.12.3	V-21546
3.0.0.1.2.12.4	AS FOLLOWS
3.0.0.1.2.12.4.1	V-21546
3.0.0.1.2.12.4.2	V-21546
3.0.0.1.2.12.4.3	V-21546
3.0.0.1.2.12.4.4	AS FOLLOWS
3.0.0.1.2.12.4.4.1	V-21546
3.0.0.1.2.12.4.4.2	V-21546
3.0.0.1.2.12.4.5	V-21546
3.0.0.1.2.12.4.6	V-21546
3.0.0.1.2.12.4.7	AS FOLLOWS
3.0.0.1.2.12.4.7.1	AS FOLLOWS

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.0.0.1.2.12.4.7.1.1		V-21546
3.0.0.1.2.12.4.7.1.2		V-21546
3.0.0.1.2.12.4.7.2		AS FOLLOWS
3.0.0.1.2.12.4.7.2.1		V-21546
3.0.0.1.2.12.4.7.2.2		V-21546
3.0.0.1.2.12.4.7.2.3		V-21546
3.0.0.1.2.12.4.8		AS FOLLOWS
3.0.0.1.2.12.4.8.1		V-21546
3.0.0.1.2.12.4.8.2		V-21546
3.0.0.1.2.12.4.9		AS FOLLOWS
3.0.0.1.2.12.4.9.1		V-21546
3.0.0.1.2.12.4.9.2		V-21546
3.0.0.2.1	DRSCS RECEIVER/DECODERS SHELF LIFE EXTENSION TESTS	AS FOLLOWS
3.0.0.2.1.1		AS FOLLOWS
3.0.0.2.1.1.1	DRSCS RECEIVER	V-28224
3.0.0.2.1.1.2		V-28224
3.0.0.2.1.1.3		V-28224
3.0.0.2.1.1.4		V-28224
3.0.0.2.1.1.5		V-28224
3.0.0.2.1.1.6		V-28224
3.0.0.2.1.1.7		V-28224
3.0.0.2.1.1.8		V-28224
3.0.0.2.1.1.9		V-28224
3.0.0.2.1.1.10		V-28224

(CONTINUED)

F. S-IB REQUIREMENTS			PROCEDURE NO.
3.0.0.2.1.1.11			V-28224
3.0.0.2.1.2	DRSTS DECODER		AS FOLLOWS
3.0.0.2.1.2.1			V-28223
3.0.0.2.1.2.2			V-28223
3.0.0.2.1.2.3			V-28223
3.0.0.2.1.2.4			V-28223
3.0.0.2.1.2.5			V-28223
3.0.0.2.1.2.6			V-28223
3.0.0.2.1.2.7			V-28223
3.0.0.2.1.2.8			V-28223
3.0.0.2.1.2.9			V-28223
3.0.0.2.2	EBW FIRING UNIT		AS FOLLOWS
3.0.0.2.2.1			AS FOLLOWS
3.0.0.2.2.1.1		NOTE #1	V-29133
3.0.0.2.2.1.2		NOTE #1	V-29133
3.0.0.2.2.1.3		NOTE #1	V-29133
3.0.0.2.2.1.4		NOTE #1	V-29133
3.0.0.2.2.1.5		NOTE #1	V-29133
3.0.0.2.2.1.6		NOTE #1	V-29133
3.0.0.2.2.1.7		NOTE #1	V-29133
3.0.0.2.2.1.8		NOTE #1	V-29133
3.0.0.2.2.1.9		NOTE #1	V-29133
3.0.0.2.2.1.10		NOTE #1	V-29133
3.0.0.2.2.2	COVERED BY 3.0.0.1.2.12.1 THROUGH 3.0.0.1.2.12.4.9.2		

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.1	FLIGHT CONTROL SYSTEM	AS FOLLOWS
3.1.1	HYDRAULIC SUBSYSTEM	AS FOLLOWS
3.1.1.1	OPERATIONAL TESTS	AS FOLLOWS
3.1.1.1.1		AS FOLLOWS
3.1.1.1.1.1		V-23270 V-24502 V-24527 V-34050
3.1.1.1.1.2		V-23270 V-24502 V-24527 V-34050
3.1.1.1.2		V-23270 V-24502 V-34050
3.1.1.1.3		V-23270 V-24502 V-34050
3.1.1.1.4		V-23270 V-24502
3.1.1.2	LEAKAGE CHECKS	AS FOLLOWS
3.1.1.2.1		V-24502
3.1.1.2.2		AS FOLLOWS
3.1.1.2.2.1		V-23266 V-24502
3.1.1.2.2.2		V-24502
3.1.1.2.2.3		V-24502
3.1.1.2.2.4		V-24502
3.1.1.2.2.5		V-24502

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.1.1.2.2.6		V-24502
3.1.1.2.2.7		V-24502
3.1.1.2.2.8		V-24502
3.1.2	ACTUATORS SUBSYSTEM	AS FOLLOWS
3.1.2.1		V-23264
3.1.2.2		V-23269
3.1.2.3		V-23264
3.1.2.4		V-23266 V-24502
3.1.2.5		V-23264
3.1.2.6		V-23269
3.1.2.7		V-23266 V-23270
3.1.2.8		AS FOLLOWS
3.1.2.8.1		V-20144
3.1.2.8.2		V-20144, V-20153
3.1.2.8.3		V-20151
3.1.2.8.4		V-20151
3.1.2.8.5		V-20153
3.2	INSTRUMENTATION SYSTEM	AS FOLLOWS
3.2.1	FM/FM SUBSYSTEM	AS FOLLOWS
3.2.1.1		V-20130 V-28214
3.2.1.2		V-20130 V-28214
3.2.1.3		V-28214

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.2.1.4		V-28214
3.2.1.5		AS FOLLOWS
3.2.1.5.1		V-28214
3.2.1.5.2		V-28219
3.2.1.5.3		V-24526
3.2.2	PCM/DDAS SUBSYSTEM	AS FOLLOWS
3.2.2.1		V-28218
3.2.2.2		V-28218
3.2.2.3		V-20130 V-28218
3.2.2.4		V-28218
3.2.2.5		V-28218
3.2.2.6		V-28218
3.2.2.7		V-28218
3.2.2.8		V-28218
3.2.2.8.1		V-28218
3.2.2.8.2		V-28219
3.2.2.8.3		V-24526
3.2.3	TM CALIBRATION SUBSYSTEM	AS FOLLOWS
3.2.3.1		V-28214 V-28218
3.2.3.2		V-28214 V-28218
3.2.4	RF & ANTENNA SUBSYSTEM	AS FOLLOWS
3.2.4.1		V-28219

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.2.4.2		V-28219
3.2.5	MEASUREMENT SUBSYSTEM	AS FOLLOWS
3.2.5.1		V-27241
3.2.5.2		V-27238
3.2.5.3		AS FOLLOWS
3.2.5.3.1		V-27236
3.2.5.3.2		V-27236
3.2.5.3.3		V-27236
3.2.5.3.4		V-21504 V-27236
3.2.5.3.5		V-21504 V-27236
3.2.5.3.6		V-20103 V-20130
3.2.5.4	PRESSURE MEASUREMENTS	AS FOLLOWS
3.2.5.4.1		V-27237
3.2.5.4.2		V-27237
3.2.5.5	VIBRATION MEASUREMENTS	AS FOLLOWS
3.2.5.5.1		V-27238
3.2.5.5.2		V-27238
3.2.5.6	SIGNAL MEASUREMENTS	AS FOLLOWS
3.2.5.6.1		V-27239
3.2.5.6.2		V-27239
3.2.5.7	LIQUID LEVEL MEASUREMENTS	AS FOLLOWS
3.2.5.7.1		V-27240
3.2.5.8		V-27241

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.2.5.9		V-27238
3.2.5.10		V-27242
3.2.5.11		V-27238
3.3	PROPULSION & MECHANICAL SYSTEM	AS FOLLOWS
3.3.0.1	PROPELLANT LOADING	V-20127 V-20128 V-20132
3.3.1	LOX PRESSURIZATION SUBSYSTEM	AS FOLLOWS
3.3.1.1	OPERATIONAL TESTS - LOX	AS FOLLOWS
3.3.1.1.1		V-24482 V-24507
3.3.1.1.2		V-24482 V-24507
3.3.1.1.3		AS FOLLOWS
3.3.1.1.3.1		V-24516
3.3.1.1.3.2		V-24516
3.3.1.1.4		V-24514
3.3.1.2	LEAKAGE TESTS - LOX	AS FOLLOWS
3.3.1.2.1		AS FOLLOWS
3.3.1.2.1.1		V-24500
3.3.1.2.1.2		V-24505
3.3.1.2.2	LOX VENT & RELIEF VALVE	AS FOLLOWS
3.3.1.2.2.1		V-24500
3.3.1.2.2.2		V-24505
3.3.1.2.3		V-24505
3.3.1.2.4		V-24505

(CONTINUED)

F. S-IB REQUIREMENTS		PROCEDURE NO.
3.3.1.3	NOTE #1	V-24522
3.3.2	FUEL PRESSURIZATION SUBSYSTEM	AS FOLLOWS
3.3.2.1	OPERATIONAL TESTS	AS FOLLOWS
3.3.2.1.1		V-24481
3.3.2.1.2		V-24483
3.3.2.1.3		V-24501
3.3.2.2	HIGH PRESSURE SYSTEM LEAKAGE TEST	AS FOLLOWS
3.3.2.2.1		V-24501
3.3.2.2.2		V-24501
3.3.2.3	LOW PRESSURE SYSTEM LEAKAGE TEST	AS FOLLOWS
3.3.2.3.1	FUEL VENT VALVES	AS FOLLOWS
3.3.2.3.1.1		V-24501
3.3.2.3.1.2		V-24501
3.3.2.3.1.2.1		V-24504
3.3.2.3.1.2.2		V-24504
3.3.2.3.2		V-24504
3.3.2.4	FUEL PRESSURIZATION REPLN, RATE TEST	AS FOLLOWS
3.3.2.4.1		V-20130
3.3.2.4.2		V-20130
3.3.3	LOX FILL & DRAIN SUBSYSTEM	AS FOLLOWS
3.3.3.1	OPERATIONAL TESTS	AS FOLLOWS
3.3.3.1.1		V-24512
3.3.3.1.2		AS FOLLOWS

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F. S-IB REQUIREMENTS			PROCEDURE NO.
3.3.3.1.2.1			V-21519
3.3.3.1.2.2			V-21519
3.3.3.1.2.3			V-21519
3.3.3.1.3	LOX BUBBLING	NOTE #1	V-24522
3.3.3.2			AS FOLLOWS
3.3.3.2.1			V-24505
3.3.3.2.2			V-24505
3.3.3.3			V-24505
3.3.4	FUEL FILL & DRAIN SUBSYSTEM		AS FOLLOWS
3.3.4.1	OPERATIONAL TESTS		AS FOLLOWS
3.3.4.1.1			V-24512
3.3.4.1.2			V-21519
3.3.4.1.3			AS FOLLOWS
3.3.4.1.3.1			V-24504
3.3.4.1.3.2			V-24504
3.3.4.2	LEAKAGE TESTS		AS FOLLOWS
3.3.4.2.1			V-24504
3.3.4.2.2			V-24504
3.3.4.2.3			V-24504
3.3.4.3			V-24504
3.3.5	H-1 ENGINE SUBSYSTEM		AS FOLLOWS
3.3.5.1	THRUST "OK" SWITCHES		AS FOLLOWS
3.3.5.1.1			V-24508
3.3.5.1.2			V-24508

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.3.5.1.3		V-24508 V-24522
3.3.5.2	FUEL BLENDER UNIT	AS FOLLOWS
3.3.5.2.1		V-24485
3.3.5.2.2		V-24485
3.3.5.2.3		V-24485
3.3.5.2.4		V-24485
3.3.5.2.5		V-24485
3.3.5 2.6		V-24485
3.3.5.2.7		V-24514
3.3.5.2.8		V-24514
3.3.5.2.9		V-24519
3.3.5.3	MAIN LOX VALVE	AS FOLLOWS
3.3.5.3.1		V-24505
3.3.5.3.2		V-24510
3.3.5.3.3		V-24510
3.3.5.3.4		V-24510
3.3.5.3.5		V-24514
3.3.5.3.6		V-24510
3.3.5.4	IGNITER FUEL VALVE	AS FOLLOWS
3.3.5.4.1		V-24510
3.3.5.4.2		V-24510
3.3.5.4.3		AS FOLLOWS
3.3.5.4.3.1		V-24510
3.3.5.4.3.2		V-24510

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F. S-18 REQUIREMENTS		PROCEDURE NO.
3.3.5.5	GAS GENERATOR CONTROL VALVE	AS FOLLOWS
3.3.5.5.1		V-24486
3.3.5.5.2		V-24486
3.3.5.5.3		V-24486
3.3.5.5.4		V-24486
3.3.5.5.5		V-24486
3.3.5.5.6		V-24486
3.3.5.6	TURBOPUMP	AS FOLLOWS
3.3.5.6.1		V-24505
3.3.5.6.2		V-24504
3.3.5.6.3		V-24514
3.3.5.6.4		V-24476
3.3.5.6.5		AS FOLLOWS
3.3.5.6.5.1		V-24477
3.3.5.6.5.2		V-24477
3.3.5.6.6		V-24505
3.3.5.6.7		V-24504
3.3.5.7	IGNITION MONITOR VALVE	AS FOLLOWS
3.3.5.7.1		V-24506
3.3.5.7.2		V-24506
3.3.5.7.3		V-24506
3.3.5.7.4		V-24506
3.3.5.7.5		V-24506
3.3.5.7.6		V-24506

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.3.5.7.7		V-24506
3.3.5.7.8		V-24506 V-24510
3.3.5.8	MAIN FUEL VALVE	AS FOLLOWS
3.3.5.8.1		V-24504
3.3.5.8.2		V-24506
3.3.5.8.3		V-24506
3.3.5.8.4		V-24506
3.3.5.8.5		V-24506
3.3.5.9	LUBE DRAIN RELIEF VALVE	V-24503
3.3.5.10		AS FOLLOWS
3.3.5.10.1		V-24513
3.3.5.10.2		V-24513
3.3.5.10.3		V-24503
3.3.5.11		V-24513
3.3.5.12		V-24513
3.3.5.13		V-24522
3.3.5.14	INTERFERENCE CHECKS	AS FOLLOWS
3.3.5.14.1		V-24534
3.3.5.14.2		V-24534
3.3.5.15		V-39019
3.3.5.16		AS FOLLOWS
3.3.5.16.1		V-24484
3.3.5.16.2		V-24484
3.3.5.16.3		V-24484

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F. S-IB REQUIREMENTS	PROCEDURE NO.
3.3.5.17	AS FOLLOWS
3.3.5.17.1	V-24503
3.3.5.17.2	V-24503
3.3.5.17.3	V-24504
3.3.5.17.4	V-24503
3.3.5.18	AS FOLLOWS
3.3.5.18.1	V-24505
3.3.5.18.2	V-24505
3.3.5.19	AS FOLLOWS
3.3.5.19.1	V-24504 V-24510
3.3.5.19.2	V-24504 V-24511
3.3.5.19.3	V-24504
3.3.5.19.4	V-24510
3.3.5.20	AS FOLLOWS
3.3.5.20.1	V-24511
3.3.5.20.2	V-24511
3.3.5.20.3	V-24511
3.3.5.20.4	AS FOLLOWS
3.3.5.20.4.1	V-24511
3.3.5.20.4.2	V-24511
3.3.5.20.4.3	V-24505 V-24511
3.3.5.20.4.4	V-24505 V-24511

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.3.5.21		AS FOLLOWS
3.3.5.21.1		V-24513
3.3.5.21.2		V-24513
3.3.5.21.3		V-24499
3.3.5.21.4		V-24513
3.3.5.21.5		V-24511
3.3.5.22		V-24505
3.3.5.23		AS FOLLOWS
3.3.5.23.1		V-21520
3.3.5.23.2		V-21520
3.3.6	CONTROL PRESSURE SUBSYSTEM	AS FOLLOWS
3.3.6.1	OPERATIONAL TESTS	AS FOLLOWS
3.3.6.1.1		V-24499
3.3.6.1.2		V-24479 V-24507
3.3.6.1.3		V-24480
3.3.6.2	LEAKAGE TESTS	AS FOLLOWS
3.3.6.2.1		V-24499
3.3.6.2.2		AS FOLLOWS
3.3.6.2.2.1		V-24499
3.3.6.2.2.1.1		V-24499
3.3.6.2.2.1.2		V-24499
3.3.6.2.2.2		V-24499
3.3.6.2.3		AS FOLLOWS

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F. S-IB REQUIREMENTS			PROCEDURE NO.
3.3.6.2.3.1			V-24499
3.3.6.2.3.1.1			V-24499
3.3.6.2.3.1.2			V-24499
3.3.6.2.3.1.3			V-24499
3.3.6.2.3.1.4			V-24499
3.3.6.2.3.1.5			V-24499
3.3.6.2.3.2			V-24499
		NOTE #1	V-24520
3.3.6.2.4			V-24499
3.3.6.2.5			AS FOLLOWS
3.3.6.2.5.1			V-24499
3.3.6.2.5.2			V-24499
3.3.6.2.6			V-24499
3.3.6.3			V-24535
3.3.6.4			V-24535
3.4	STRUCTURAL SYSTEM		AS FOLLOWS
3.4.0.1	VISUAL INSPECTION		AS FOLLOWS
3.4.0.1.1			V-24497
3.4.0.1.2			V-24497
3.4.0.1.3			V-24497
3.4.0.1.4		NOTE #1	V-24522
3.4.0.1.5			V-24497
3.4.0.1.6			V-24497
3.4.0.1.7			V-24497
3.4.0.1.8			V-24498

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.4.0.2	STAGE TO LAUNCHER FACILITY ALIGNMENT	V-23275
3.4.0.3	STAGE VERTICAL ALIGNMENT	V-23276
3.5	ELECTRICAL SYSTEM	AS FOLLOWS
3.5.1	POWER SUBSYSTEM	AS FOLLOWS
3.5.1.1	FUNCTIONAL TEST	AS FOLLOWS
3.5.1.1.1		AS FOLLOWS
3.5.1.1.1.1		V-21518
3.5.1.1.1.1.1		V-21518
3.5.1.1.1.1.2		V-21518
3.5.1.1.1.2		AS FOLLOWS
3.5.1.1.1.2.1		V-21518
3.5.1.1.1.2.2		V-21518
3.5.1.1.1.3		AS FOLLOWS
3.5.1.1.1.3.1		V-21518
3.5.1.1.1.3.2		V-21518
3.5.1.1.1.4		AS FOLLOWS
3.5.1.1.1.4.1		V-21518
3.5.1.1.1.4.2		V-21518
3.5.1.1.1.5		AS FOLLOWS
3.5.1.1.1.5.1		V-21518
3.5.1.1.1.5.2		V-21518
3.5.1.1.1.6		V-21518
3.5.1.1.1.7		V-21518
3.5.1.1.1.8		V-21518

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.5.1.1.1.9		V-21518
3.5.1.1.2		AS FOLLOWS
3.5.1.1.2.1		V-21518
3.5.1.1.2.2		V-21518
3.5.1.1.2.3		V-21518
3.5.1.1.3		AS FOLLOWS
3.5.1.1.3.1		V-20101
3.5.1.1.3.2		V-20101
3.5.1.1.4		AS FOLLOWS
3.5.1.1.4.1		V-20101
3.5.1.1.4.2		V-20101
3.5.1.1.4.3		V-20101
3.5.1.2	BATTERY ACTIVATION & INSTALLATION	AS FOLLOWS
3.5.1.2.1		AS FOLLOWS
3.5.1.2.1.1		V-31114
3.5.1.2.1.2		V-31112
3.5.1.2.2		V-31112
3.5.1.2.3		V-31112
3.5.1.2.3.1		V-31112
3.5.1.2.3.2		V-31112
3.5.1.2.4		V-31112
3.5.1.2.5		V-31112
3.5.1.2.6		V-31112
3.5.1.2.7		V-31112

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.5.1.2.8		V-31112
3.5.1.2.9		V-31114
3.5.1.2.10		AS FOLLOWS
3.5.1.2.10.1		V-31112 V-31118
3.5.1.2.10.2		V-31112
3.5.1.3	BATTERY OPERATION CHECKS	AS FOLLOWS
3.5.1.3.1		V-31118
3.5.1.3.2		V-31112
3.5.1.3.3		V-31118
3.5.1.3.4		V-31118
3.5.2	DISTRIBUTION & NETWORKS SUBSYSTEM	AS FOLLOWS
3.5.2.1	EBW FIRING UNIT	AS FOLLOWS
3.5.2.1.1		V-21519
3.5.2.1.2		V-21519
3.5.2.1.3		V-21519
3.5.2.2	LOX OVERFILL SENSOR	V-20114 V-21519
3.5.2.3	LOX LEVEL SENSOR	AS FOLLOWS
3.5.2.3.1		V-21519
3.5.2.3.2		V-20130
3.5.2.3.3		V-20130
3.5.2.4	FUEL OVERFILL SENSOR	V-20114 V-21519
3.5.2.5	FUEL LEVEL SENSOR	AS FOLLOWS

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F. S-IB REQUIREMENTS			PROCEDURE NO.
3.5.2.5.1			V-21519
3.5.2.5.2		NOTE #1	V-20127
3.5.2.6	FUEL DEPLETION SENSOR		AS FOLLOWS
3.5.2.6.1			V-21519
3.5.2.6.2		NOTE #1	V-20127
3.5.2.7	REDUNDANT POWER DISTRIBUTION		AS FOLLOWS
3.5.2.7.1			AS FOLLOWS
3.5.2.7.1.1			V-24508
3.5.2.7.1.2			V-21519
3.5.2.7.1.3			V-21519
3.5.2.7.1.4			V-21519
3.5.2.7.1.5	EBW FIRING UNITS		AS FOLLOWS
3.5.2.7.1.5.1			V-21519
3.5.2.7.1.5.2			V-21519
3.5.2.7.1.6			V-21519
3.5.2.7.1.7	OECO		AS FOLLOWS
3.5.2.7.1.7.1			V-21519
3.5.2.7.1.7.2			V-21519
3.5.2.7.2	NETWORKS II REDUNDANT POWER DISTRIBUTION TEST		AS FOLLOWS
3.5.2.7.2.1			V-24508
3.5.2.7.2.2			V-21519
3.5.2.7.2.3			V-21519
3.5.2.7.2.4			V-21519

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.5.2.7.2.5	EBW FIRING UNITS	AS FOLLOWS
3.5.2.7.2.5.1		V-21519
3.5.2.7.2.5.2		V-21519
3.5.2.7.2.6		V-21519
3.5.2.7.2.7	OECO	AS FOLLOWS
3.5.2.7.2.7.1		V-21519
3.5.2.7.2.7.2		V-21519
3.5.2.7.3	RANGE SAFETY RECEIVER POWER DISTRIBUTION TEST	AS FOLLOWS
3.5.2.7.3.1		V-21519
3.5.2.7.3.2		V-21519
3.5.3	SEQUENCING SUBSYSTEM	AS FOLLOWS
3.5.3.1	SEQUENCING TEST	AS FOLLOWS
3.5.3.1.1		V-20103
3.5.3.1.2		AS FOLLOWS
3.5.3.1.2.1		V-20103
3.5.3.1.2.2		V-20103 V-21519
3.5.3.1.2.3		V-20103
3.5.3.1.2.4		V-20103
3.5.3.1.2.5		V-20103
3.5.3.1.2.6		V-20103
3.5.3.1.2.7		V-20103
3.5.3.1.2.8		V-20103
3.5.3.1.2.9		V-20103

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.5.3.1.3		V-20103
3.5.3.1.4		V-20103
3.5.3.1.5		V-20117
3.5.3.2	SWITCH SELECTOR	AS FOLLOWS
3.5.3.2.1		V-20101
3.5.3.2.2		V-20101
3.5.3.2.3		V-20101
3.5.3.2.4		V-20101
3.5.4	EMERGENCY DETECTION SYSTEM	AS FOLLOWS
3.5.4.1		V-20117
3.5.4.2		V-20103
3.5.4.3		V-20146
3.6	ENVIRONMENTAL CONTROL SYSTEM	AS FOLLOWS
3.6.1		AS FOLLOWS
3.6.1.1		AS FOLLOWS
3.6.1.1.1		NOTE #1 V-20130
3.6.1.1.2		NOTE #1 V-20130
3.6.1.2		NOTE #1 V-20130
3.6.1.3		AS FOLLOWS
3.6.1.3.1		NOTE #1 V-20130
3.6.1.3.2		NOTE #1 V-20130
3.6.1.4		NOTE #1 V-20130
3.6.2		AS FOLLOWS
3.6.2.1		NOTE #1 V-20130

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F. S-IB REQUIREMENTS			PROCEDURE NO.
3.6.2.2		NOTE #1	V-20130
3.6.2.3		NOTE #1	V-20130
3.6.3			AS FOLLOWS
3.6.3.1			V-24509
3.6.3.2			V-21519
3.6.4			AS FOLLOWS
3.6.4.1			V-20130
3.6.4.2			V-20130
3.7	ORDNANCE & PROPELLANT DISPERSION SYSTEM		AS FOLLOWS
3.7.1	ORDNANCE SUBSYSTEM		AS FOLLOWS
3.7.1.1	FUNCTIONAL TEST		AS FOLLOWS
3.7.1.1.1			V-20106 V-29126 V-29128 V-29129
3.7.1.1.2			AS FOLLOWS
3.7.1.1.2.1			V-20106 V-29140
3.7.1.1.2.2			V-20106
3.7.1.1.2.3			V-20106
3.7.1.1.2.4			V-20106
3.7.1.1.2.5			V-20106 V-29140
3.7.1.1.3			V-20106 V-39014
3.7.1.1.4		NOTE #1	V-20106 V-29141
3.7.1.1.5			V-39013

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F. S-IB REQUIREMENTS	PROCEDURE NO.
3.7.1.1.6	AS FOLLOWS
3.7.1.1.6.1	V-39013
3.7.1.1.6.2	V-39013
3.7.1.1.7	V-39014
3.7.1.1.8	V-39014
3.7.1.1.9	V-29119
3.7.1.1.10	V-39019
3.7.1.1.11	AS FOLLOWS
3.7.1.1.11.1	V-39016
3.7.1.1.11.2	V-39016
3.7.1.1.11.2.1	V-39016
3.7.1.1.11.2.2	V-39016
3.7.1.1.11.2.3	V-39016
3.7.1.1.11.2.4	V-39016
3.7.1.1.11.2.5	V-39016
3.7.1.1.12	AS FOLLOWS
3.7.1.1.12.1	V-39011
3.7.1.1.12.2	V-39011
3.7.1.1.13	AS FOLLOWS
3.7.1.1.13.1	V-39015
3.7.1.1.13.1.1	V-39015
3.7.1.1.13.1.2	V-39015
3.7.1.1.13.1.3	V-39015
3.7.1.1.13.1.4	V-39015

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F. S-IB REQUIREMENTS		PROCEDURE NO.
3.7.1.1.13.1.5		V-39015
3.7.1.1.13.1.6		V-39015
3.7.1.1.13.1.7		V-39015
3.7.1.1.13.2		V-39015
3.7.1.1.13.3		V-39015
3.7.1.2		V-29119 V-39011 V-39012 V-39013 V-39014 V-39015 V-39016
3.7.1.3		V-28202
3.7.2	PROPELLANT DISPERSION SUBSYSTEM	AS FOLLOWS
3.7.2.1		AS FOLLOWS
3.7.2.1.1		V-28202
3.7.2.1.2		V-28202
3.7.2.1.3		V-28202
3.7.2.1.4		V-28202
3.7.2.2		V-28202
3.7.2.3		V-21519
3.7.2.4		V-28205 V-28206
3.7.2.5		V-28205 V-28206
3.7.2.6		V-28205
3.7.2.7		V-20103
3.7.2.8		AS FOLLOWS

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F. S-IB REQUIREMENTS	PROCEDURE NO.
3.7.2.8.1	V-28205
3.7.2.8.2	V-28205
3.7.2.9	AS FOLLOWS
3.7.2.9.1	V-28205
3.7.2.9.2	V-28205
3.7.2.10	V-28205
3.7.2.11	V-28205
3.7.2.12	AS FOLLOWS
3.7.2.12.1	V-28208
3.7.2.12.2	V-28208
3.7.2.12.3	V-28208
3.7.2.13	V-28208
3.7.2.14	V-21519
3.7.2.15	V-21519
3.7.2.16	V-21519
3.7.2.17	AS FOLLOWS
3.7.2.17.1	V-28205 V-28206
3.7.2.17.2	V-28205 V-28206
3.7.2.17.3	V-28205
3.7.2.17.4	V-28205

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F. S-IB REQUIREMENTS	PROCEDURE NO.
3.7.2.16	V-28205
3.7.2.19	V-28205
3.7.2.20	AS FOLLOWS
3.7.2.20.1	AS FOLLOWS
3.7.2.20.1.1	V-29128
3.7.2.20.1.2	V-29128
3.7.2.20.1.3	V-29128
3.7.2.20.2	AS FOLLOWS
3.7.2.20.2.1	V-29128
3.7.2.20.2.2	V-29128
3.7.2.20.2.3	V-29128
3.7.2.20.2.4	V-29128
3.7.2.21	AS FOLLOWS
3.7.2.21.1	AS FOLLOWS
3.7.2.21.1.1	V-39012
3.7.2.21.1.2	V-39012
3.7.2.21.1.3	V-39012
3.7.2.21.2	AS FOLLOWS
3.7.2.21.2.1	V-39012
3.7.2.21.2.2	V-39012
3.7.2.21.2.3	V-39012
3.7.2.21.2.4	V-39012
3.7.2.21.2.5	V-39012
3.7.2.21.2.6	V-39012

(CONTINUED)

F. S-IB REQUIREMENTS	PROCEDURE NO.
3.7.2.21.2.7	V-39012
3.7.2.21.2.8	V-39012
3.7.2.21.2.9	V-39012
3.7.2.21.2.10	V-39012
3.7.2.21.3	AS FOLLOWS
3.7.2.21.3.1	V-39012
3.7.2.21.3.2	V-39012
3.7.2.21.3.3	V-39012
3.7.2.21.3.4	V-39012
3.7.2.21.3.5	V-39012
3.7.2.21.3.6	V-39012
3.7.2.21.3.7	V-39012
3.7.2.21.3.8	V-39012
3.7.2.21.3.9	V-39012
3.7.2.21.4	NOTE #1 V-20130

G. S-IVB REQUIREMENTS

PROCEDURE NO.

THE S-IVB REQUIREMENTS LISTED IN THE FOLLOWING CROSS INDEX ARE EXTRACTED FROM 1B86721, "TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS AND CRITERIA AT KSC, SATURN S-IVB-206 AND SUBS.

NOTE

1. THIS TEST REQ. WILL BE SATISFIED BY THE PROCEDURE IDENTIFIED. THE TEST CATALOG SHEET IS BEING REVISED TO REFLECT THIS REQUIREMENT.

2. THE ECS EQUIPMENT WILL BE OPERATED BY TBC PER PROCEDURES V-36150 AND V-26592, AND AS REQUIRED TO SATISFY THE INDIVIDUAL STAGE CONTRACTOR'S SPECIFICATIONS AND CRITERIA. THE APPROPRIATE STAGE CONTRACTOR WILL BE RESPONSIBLE FOR GENERATING A WAIVER OR CHANGE REQUEST WHEN ADVISED BY TBC OR UPON OBSERVATION THAT A DEVIATION FROM A REQUIRED SPECIFICATION HAS TAKEN PLACE.

3. DRY CONDITION ONLY PRIOR TO PROPELLANT LOADING FOR SKYLAB RESCUE MISSION.

4. THIS TEST SHALL BE PERFORMED PRIOR TO COUNTDOWN FOR SKYLAB RESCUE MISSION.

5. THIS REQUIREMENT WILL NOT BE PERFORMED FOR SKYLAB RESCUE MISSION.

6. THIS REQUIREMENT DOES NOT APPLY TO SKYLAB SATURN IB VEHICLES.

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.1.1	HYDRAULIC	AS FOLLOWS
0.2.1.1.1.0		AS FOLLOWS
0.2.1.1.1.1	(WAIVER 1-D-208-1, SEE PAGE 122B)	V-24098
0.2.1.1.1.2		V-24098
0.2.1.1.1.3		V-24098
0.2.1.1.1.4		V-24098
0.2.1.1.1.5		V-24098
0.2.1.1.2.0		V-24098
0.2.1.1.3.0		V-23125
0.2.1.1.4.0		AS FOLLOWS
0.2.1.1.4.1		V-24098
0.2.1.1.4.2		V-24098
0.2.1.2	ENVIRONMENTAL CONTROL	AS FOLLOWS
0.2.1.2.1.0		V-24086
0.2.1.3	ORDNANCE	AS FOLLOWS
0.2.1.3.1.0		V-30610
0.2.1.3.1.1		AS FOLLOWS
0.2.1.3.1.1.1		V-30610
0.2.1.3.1.1.2		V-30610
0.2.1.3.1.1.3		V-30610
0.2.1.3.1.1.4		V-30610
0.2.2.1	POWER DISTRIBUTION	AS FOLLOWS
0.2.2.1.1.0	STATIC CURRENT LOADS	AS FOLLOWS
0.2.2.1.1.1		V-21538

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.1.1.2		V-21538
0.2.2.1.1.3		V-21538
0.2.2.1.1.4		V-21538
0.2.2.1.1.5		V-21538
0.2.2.1.1.6		V-21538
0.2.2.1.1.7		V-21538
0.2.2.1.1.8		V-21538
0.2.2.1.1.9		V-21538
0.2.2.1.1.10		V-21538
0.2.2.1.1.11		V-21538
0.2.2.1.1.12		V-21262
0.2.2.1.1.13		V-21538
0.2.2.1.1.14		V-21262
0.2.2.1.1.15		V-21262
0.2.2.1.1.16		V-21538
0.2.2.1.2.0	BUS SYSTEM OPERATING VOLTAGE	AS FOLLOWS
0.2.2.1.2.1		AS FOLLOWS
0.2.2.1.2.1.1		V-21538
0.2.2.1.2.1.2		V-21538
0.2.2.1.2.1.3		V-21538
0.2.2.1.2.1.4		V-21538
0.2.2.1.2.1.5		V-21538
0.2.2.1.2.1.6		V-21538
0.2.2.1.2.2		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.1.2.2.1		V-21538
0.2.2.1.2.2.2		V-21538
0.2.2.1.2.2.3		V-21538
0.2.2.1.2.2.4		V-21538
0.2.2.1.2.2.5		V-21538
0.2.2.1.2.3	PRIMARY FLIGHT BATTERIES	AS FOLLOWS
0.2.2.1.2.3.1	LAB EVALUATION	AS FOLLOWS
0.2.2.1.2.3.1.1		AS FOLLOWS
0.2.2.1.2.3.1.1.1		V-21480
0.2.2.1.2.3.1.1.2		V-21480
0.2.2.1.2.3.1.1.3		V-21480
0.2.2.1.2.3.1.1.4		AS FOLLOWS
0.2.2.1.2.3.1.1.4.1		V-21480
0.2.2.1.2.3.1.1.4.2		V-21480
0.2.2.1.2.3.1.1.4.3		V-21480
0.2.2.1.2.3.1.1.4.4		V-21480
0.2.2.1.2.3.1.2		AS FOLLOWS
0.2.2.1.2.3.1.2.1		V-21324
0.2.2.1.2.3.1.2.2		V-21324
0.2.2.1.2.3.1.2.3		V-21324
0.2.2.1.2.3.1.2.4		V-21324
0.2.2.1.2.3.1.2.5		V-21324
0.2.2.1.2.3.1.2.6		V-21324
0.2.2.1.2.3.1.3		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.1.2.3.1.3.1		V-21529
0.2.2.1.2.3.1.3.2		V-21529
0.2.2.1.2.3.1.3.3		V-21529
0.2.2.1.2.3.1.3.4		V-21529
0.2.2.1.2.3.1.3.5		V-21529
0.2.2.1.2.3.1.3.6		V-21529
0.2.2.1.2.3.1.4		AS FOLLOWS
0.2.2.1.2.3.1.4.1		V-21530
0.2.2.1.2.3.1.4.2		V-21530
0.2.2.1.2.3.1.4.3		V-21530
0.2.2.1.2.3.1.4.4		V-21530
0.2.2.1.2.3.1.4.5		V-21530
0.2.2.1.2.3.1.4.6		V-21530
0.2.2.1.2.3.1.5		AS FOLLOWS
0.2.2.1.2.3.1.5.1		V-21323
0.2.2.1.2.3.1.5.2		V-21323
0.2.2.1.2.3.1.5.3		V-21323
0.2.2.1.2.3.1.5.4		V-21323
0.2.2.1.2.3.1.5.5		V-21323
0.2.2.1.2.3.1.5.6		V-21323
0.2.2.1.2.3.2	STAGE EVALUATION	AS FOLLOWS
0.2.2.1.2.3.2.1		V-21413
0.2.2.1.2.3.2.2.		V-21413
0.2.2.1.2.3.2.3		V-21413

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.1.2.3.2.4		V-21413
0.2.2.1.3.0	DEPLETION SENSOR ENGINE CUTOFF	AS FOLLOWS
0.2.2.1.3.1		V-21538
0.2.2.1.4.0	T/M RF SILENCE	V-21538
0.2.2.1.6.0	5-VOLT EXCITATION MODULE	AS FOLLOWS
0.2.2.1.6.1		V-27249
0.2.2.1.6.2		V-27249
0.2.2.1.6.3		V-27249
0.2.2.1.6.4		V-27249
0.2.2.1.7.0	20-VOLT EXCITATION MODULE	V-27249
0.2.2.2	TELEMETRY (T/M)	AS FOLLOWS
0.2.2.2.1.0	PCM SYSTEM	AS FOLLOWS
0.2.2.2.1.1		V-28121
0.2.2.2.1.2		V-28121
0.2.2.2.1.3		V-28121
0.2.2.2.1.4		AS FOLLOWS
0.2.2.2.1.4.1		V-28121
0.2.2.2.1.4.2		V-28121
0.2.2.2.1.4.3		V-28121
0.2.2.2.1.4.4		V-24276
0.2.2.2.1.5		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS	PROCEDURE NO.
0.2.2.2.1.5.1	V-28121
0.2.2.2.1.5.2	V-28121
0.2.2.2.1.5.3	V-28121
0.2.2.2.1.5.4	V-28121
0.2.2.2.1.5.5	V-28121
0.2.2.2.1.5.6	AS FOLLOWS
0.2.2.2.1.5.6.1	V-28121
0.2.2.2.1.5.6.2	V-28121
0.2.2.2.1.5.6.3	V-28121
0.2.2.2.1.5.7	AS FOLLOWS
0.2.2.2.1.5.7.1	V-28121
0.2.2.2.1.5.7.2	V-28121
0.2.2.2.1.5.7.3	V-28121
0.2.2.2.1.5.8	AS FOLLOWS
0.2.2.2.1.5.8.1	V-28121
0.2.2.2.1.5.8.2	V-28121
0.2.2.2.1.5.8.3	V-28121
0.2.2.2.1.5.8.4	V-28121
0.2.2.2.1.5.8.5	V-28121
0.2.2.2.1.6	AS FOLLOWS
0.2.2.2.1.6.1	V-27249
0.2.2.2.1.6.2	AS FOLLOWS
0.2.2.2.1.6.2.2	V-27249
0.2.2.2.1.6.3	AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS	PROCEDURE NO.
0.2.2.2.1.6.3.2	V-27249
0.2.2.2.1.6.4	V-27249
0.2.2.2.1.6.5	V-27249
0.2.2.2.1.6.6	AS FOLLOWS
0.2.2.2.1.6.6.2	V-27249
0.2.2.2.1.6.7	V-27249
0.2.2.2.1.6.8	V-27249
0.2.2.2.1.6.9	V-27249
0.2.2.2.1.6.10	V-27249
0.2.2.2.1.6.11	V-27249
0.2.2.2.1.6.12	V-27249
0.2.2.2.1.6.13	V-27249
0.2.2.2.1.6.14	V-27249
0.2.2.2.1.6.15	V-27249
0.2.2.2.1.6.16	V-27249
0.2.2.2.1.6.17	V-27249
0.2.2.2.1.6.18	V-27249
0.2.2.2.1.7	AS FOLLOWS
0.2.2.2.1.7.1	AS FOLLOWS
0.2.2.2.1.7.1.1	V-27249
0.2.2.2.1.7.1.2	AS FOLLOWS
0.2.2.2.1.7.1.2.1	V-27249
0.2.2.2.1.7.1.2.2	V-27249
0.2.2.2.1.7.1.2.3	V-27249

(CONTINUED)

G. S-IVB REQUIREMENTS	PROCEDURE NO.
0.2.2.2.1.7.1.2.4	V-27249
0.2.2.2.1.7.1.2.5	V-27249
0.2.2.2.1.7.1.2.6	V-27249
0.2.2.2.1.7.1.2.7	V-27249
0.2.2.2.1.7.1.2.8	V-27249
0.2.2.2.1.7.1.2.9	V-27249
0.2.2.2.1.7.1.2.10	V-27249
0.2.2.2.1.7.1.2.11	V-27249
0.2.2.2.1.7.1.2.12	V-27249
0.2.2.2.1.7.1.2.13	V-27249
0.2.2.2.1.7.1.2.14	V-27249
0.2.2.2.1.7.1.2.15	V-27249
0.2.2.2.1.7.1.2.16	V-27249
0.2.2.2.1.7.1.2.17	V-27249
0.2.2.2.1.7.1.2.18	V-27249
0.2.2.2.1.7.1.2.19	V-27249
0.2.2.2.1.7.1.2.20	V-27249
0.2.2.2.1.7.1.2.21	V-27249
0.2.2.2.1.7.2	V-28121
0.2.2.2.1.7.3	V-28121
0.2.2.2.1.7.4	V-27249
0.2.2.2.1.7.5	AS FOLLOWS
0.2.2.2.1.7.5.2	V-27249
0.2.2.2.1.7.6	AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS	PROCEDURE NO.
0.2.2.2.1.7.6.2	V-27249
0.2.2.2.1.7.7	V-27249
0.2.2.2.1.7.8	V-27249
0.2.2.2.1.7.9	AS FOLLOWS
0.2.2.2.1.7.9.2	V-27249
0.2.2.2.1.7.10	V-27249
0.2.2.2.1.7.11	V-27249
0.2.2.2.1.7.12	V-27249
0.2.2.2.1.7.13	V-27249
0.2.2.2.1.7.14	V-27249
0.2.2.2.1.7.15	V-27249
0.2.2.2.1.7.16	V-27249
0.2.2.2.1.7.17	V-27249
0.2.2.2.1.7.18	V-27249
0.2.2.2.1.7.19	V-27249
0.2.2.2.1.7.20	V-27249
0.2.2.2.1.7.21	V-27249
0.2.2.2.1.7.22	V-24469
0.2.2.2.1.8	AS FOLLOWS
0.2.2.2.1.8.1	AS FOLLOWS
0.2.2.2.1.8.1.1	V-27249
0.2.2.2.1.8.1.2	V-27249
0.2.2.2.1.8.1.3	V-27249
0.2.2.2.1.8.2	AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.2.1.8.2.1		V-27249
0.2.2.2.1.8.2.2		V-27249
0.2.2.2.1.8.2.3		V-27249
0.2.2.2.1.8.3		AS FOLLOWS
0.2.2.2.1.8.3.1		V-27249
0.2.2.2.1.8.3.2		V-27249
0.2.2.2.1.8.3.3		V-27249
0.2.2.2.1.8.4		AS FOLLOWS
0.2.2.2.1.8.4.1		V-27249
0.2.2.2.1.8.4.2		V-27249
0.2.2.2.1.8.4.3		V-27249
0.2.2.3	EXPLODING BRIDGEWIRE (EBW)	AS FOLLOWS
0.2.2.3.1.0	PULSE SENSORS	AS FOLLOWS
0.2.2.3.1.1		V-21538
0.2.2.3.1.2		V-21538
0.2.2.3.2.0	FIRING UNITS	AS FOLLOWS
0.2.2.3.2.1		V-21538
0.2.2.3.2.2		V-21538
0.2.2.3.2.3		V-21538
0.2.2.3.2.4		V-21538
0.2.2.3.2.5		V-21538
0.2.2.4	PROPELLANT UTILIZATION (PU)	AS FOLLOWS
0.2.2.4.1.0	INVERTER CONVERTER	AS FOLLOWS
0.2.2.4.1.1		V-21084

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.4.1.2		V-21084
0.2.2.4.1.3		V-21084
0.2.2.4.1.4		V-21084
0.2.2.4.1.5		V-21084
0.2.2.4.2.0	PU CALIBRATION	AS FOLLOWS
0.2.2.4.2.1		V-21084
0.2.2.4.2.2		V-21084
0.2.2.4.2.3		V-21084
0.2.2.4.2.4		V-21084
0.2.2.4.2.5		V-21084
0.2.2.4.2.6		AS FOLLOWS
0.2.2.4.2.6.1		V-21084
0.2.2.4.2.6.2		V-21084
0.2.2.4.3.0	LEVEL SENSORS	AS FOLLOWS
0.2.2.4.3.1		V-27247
0.2.2.4.3.2		V-27247
0.2.2.4.3.3		V-27247
0.2.2.4.3.4		V-27247
0.2.2.4.3.5		V-27247
0.2.2.4.3.6		V-27247
0.2.2.4.3.7		V-27247
0.2.2.4.4.0	IN-TANK SENSORS	AS FOLLOWS
0.2.2.4.4.1		V-21537
0.2.2.4.4.2		V-21537

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.4.4.3		V-21537
0.2.2.4.4.4		V-21537
0.2.2.4.4.5		V-21537
0.2.2.4.4.6		V-21537
0.2.2.4.4.7		V-21537
0.2.2.4.4.8		V-21537
0.2.2.4.4.9		V-21537
0.2.2.5	RANGE SAFETY (RS)	AS FOLLOWS
0.2.2.5.1.0	RECEIVERS	AS FOLLOWS
0.2.2.5.1.1		V-28037
0.2.2.5.1.2		V-28037
0.2.2.5.1.3		V-28037
0.2.2.5.1.4		V-28037
0.2.2.5.1.5		AS FOLLOWS
0.2.2.5.1.5.1		V-28037
0.2.2.5.1.5.2		V-28037
0.2.2.5.1.5.3		V-28037
0.2.2.5.2.0	SUBSYSTEMS NO. 1 AND NO. 2	AS FOLLOWS
0.2.2.5.2.1		AS FOLLOWS
0.2.2.5.2.1.1		V-21538
0.2.2.5.2.1.2		V-21538
0.2.2.5.2.2		AS FOLLOWS
0.2.2.5.2.2.1		V-21538
0.2.2.5.2.2.2		V-21538

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.2.5.2.3		V-21538
0.2.2.5.3.0	SAFE AND ARM DEVICE	AS FOLLOWS
0.2.2.5.3.1		V-21538
0.2.2.5.3.2		V-21538
0.2.2.5.4.0	DECODER TRANSISTOR LEAKAGE CHECK	AS FOLLOWS
0.2.2.5.4.1		V-28037
0.2.2.5.4.2		V-28037
0.2.2.5.5.0	DECODER LOGIC 21 TONE PAIR "AND" GATE TEST	AS FOLLOWS
0.2.2.5.5.1		V-28037
0.2.2.5.6.0	DECODER FLEX PRINT	V-28037
0.2.3.1		AS FOLLOWS
0.2.3.1.1.0	OPTICAL PROPERTY TEST	AS FOLLOWS
0.2.3.1.1.1		AS FOLLOWS
0.2.3.1.1.1.1		V-27246
0.2.3.1.1.1.2		V-27246
0.2.3.1.1.1.3.		V-27246
0.2.3.1.1.1.4		V-27246
0.2.3.1.1.2		V-27246
0.2.3.1.1.3		V-27246
0.2.3.1.1.4		AS FOLLOWS
0.2.3.1.1.4.1		V-27246
0.2.3.1.1.4.2		V-27246
0.2.3.1.1.4.3		V-27246
0.2.3.1.1.5		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.3.1.1.5.1		V-27246
0.2.3.1.1.5.2		V-27246
0.2.3.1.1.5.3		V-27246
0.2.3.1.1.5.4		V-27246
0.2.3.1.1.5.5		V-27246
0.2.3.1.1.6		V-27246
0.2.3.1.2.0	COMMON BULKHEAD	AS FOLLOWS
0.2.3.1.2.1		V-30610
0.2.3.1.3.0	STRUCTURE JUNCTURES	AS FOLLOWS
0.2.3.1.3.1		V-24473
0.2.3.1.3.2		V-24473
0.2.4.1	AUXILIARY PROPULSION SYSTEM	AS FOLLOWS
0.2.4.1.1.0	AUXILIARY PROPULSION SYSTEM (LAB EVALUATION)	AS FOLLOWS
0.2.4.1.1.1.0		AS FOLLOWS
0.2.4.1.1.1.1		V-24467
0.2.4.1.1.1.2		V-24467
0.2.4.1.1.2.0	HIGH PRESSURE HELIUM SYSTEM	AS FOLLOWS
0.2.4.1.1.2.1		V-24468
0.2.4.1.1.2.2		V-24468
0.2.4.1.1.2.3		V-24469
0.2.4.1.1.2.4		AS FOLLOWS
0.2.4.1.1.2.4.1		V-24469
0.2.4.1.1.2.4.2		V-24468

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.1.1.2.4.3		AS FOLLOWS
0.2.4.1.1.2.4.3.1		V-24468
0.2.4.1.1.2.4.3.2		V-24468
0.2.4.1.1.2.4.3.3		V-24468
0.2.4.1.1.2.4.3.4		V-24468
0.2.4.1.1.2.4.4		AS FOLLOWS
0.2.4.1.1.2.4.4.1	(WAIVER M-D-208-10, SEE PAGE 122A)	V-24469
0.2.4.1.1.2.4.4.2	(WAIVER M-D-208-10, SEE PAGE 122A)	V-24469
0.2.4.1.1.2.4.4.3		V-24468 V-24469
0.2.4.1.1.2.4.4.4		V-24470
0.2.4.1.1.2.5		V-24468
0.2.4.1.1.3.0	LOW PRESSURE HELIUM SYSTEM	AS FOLLOWS
0.2.4.1.1.3.1		V-24468
0.2.4.1.1.3.2		V-24468
0.2.4.1.1.3.3		V-24468
0.2.4.1.1.3.3.1		AS FOLLOWS
0.2.4.1.1.3.3.1.1		V-24468
0.2.4.1.1.3.3.1.2		V-24468
0.2.4.1.1.3.3.1.3		V-24468
0.2.4.1.1.3.3.1.4		V-24468
0.2.4.1.1.3.3.2		AS FOLLOWS
0.2.4.1.1.3.3.2.1		V-24468
0.2.4.1.1.3.3.2.2		V-24468
0.2.4.1.1.3.3.2.3		V-24468

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G, S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.1.1.3.4		V-24468
0.2.4.1.1.4.0	APS PROPELLANT TANK SYSTEM	AS FOLLOWS
0.2.4.1.1.4.1		AS FOLLOWS
0.2.4.1.1.4.1.1		V-24468
0.2.4.1.1.4.1.2		V-24468
0.2.4.1.1.4.2		AS FOLLOWS
0.2.4.1.1.4.2.1		V-24468
0.2.4.1.1.4.2.2		AS FOLLOWS
0.2.4.1.1.4.2.2.1		V-24468
0.2.4.1.1.4.2.2.2		V-24468
0.2.4.1.1.4.2.3		AS FOLLOWS
0.2.4.1.1.4.2.3.1		V-24468
0.2.4.1.1.4.2.3.2		V-24468
0.2.4.1.1.4.3		V-24468
0.2.4.1.1.4.4		V-24468
0.2.4.1.1.5.0		AS FOLLOWS
0.2.4.1.1.5.1		V-24468
0.2.4.1.1.5.2		V-24468
0.2.4.1.1.5.3		V-24468
0.2.4.1.1.5.4		AS FOLLOWS
0.2.4.1.1.5.4.1		V-24468
0.2.4.1.1.5.4.2		V-24468
0.2.4.1.1.5.4.3		V-24468
0.2.4.1.1.5.4.4		V-24468

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G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.1.1.5.4.5		V-24468
0.2.4.1.1.6.0	ENGINE ASSEMBLY TESTS	V-24468
0.2.4.1.2.0	HIGH PRESSURE HELIUM SYSTEM	AS FOLLOWS
0.2.4.1.2.1		V-24462
0.2.4.1.2.2		V-24469
0.2.4.1.2.3		V-24469
0.2.4.1.3.0	ENGINE FUNCTIONAL TESTS	AS FOLLOWS
0.2.4.1.3.1		V-24469
0.2.4.1.3.2		V-24469
0.2.4.1.3.3		V-24469
0.2.4.1.3.4		NOTE #1 V-20144
0.2.4.1.4.0		V-24468 V-24469
0.2.4.2	PNEUMATIC CONTROL	AS FOLLOWS
0.2.4.2.1.0	PNEUMATIC CONTROL LINES	AS FOLLOWS
0.2.4.2.1.1		V-24462
0.2.4.2.1.2		AS FOLLOWS
0.2.4.2.1.2.1		V-24462
0.2.4.2.1.2.2		V-24462
0.2.4.2.1.2.3		V-24462
0.2.4.2.1.3		V-24462
0.2.4.2.2.0	HELIUM FILL DISCONNECT	V-24462
0.2.4.2.3.0	CHECK VALVES	AS FOLLOWS
0.2.4.2.3.1		V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.2.3.1.1		V-24462
0.2.4.2.3.1.2		V-24462
0.2.4.2.3.1.3		V-24462
0.2.4.2.3.1.4		V-24462
0.2.4.2.3.1.5		V-24462
0.2.4.2.3.1.6		V-24462
0.2.4.2.3.1.7		V-24462
0.2.4.2.3.2		AS FOLLOWS
0.2.4.2.3.2.1		V-24462
0.2.4.2.3.2.2		V-24462
0.2.4.2.3.2.3		V-24462
0.2.4.2.3.2.4		V-24462
0.2.4.2.3.2.5		V-24462
0.2.4.2.3.2.6		V-24462
0.2.4.2.3.2.7		V-24462
0.2.4.2.3.3		V-24462
0.2.4.2.4.0	HELIUM FILL MODULE	AS FOLLOWS
0.2.4.2.4.1		V-24462
0.2.4.2.4.2		V-24462
0.2.4.2.4.3		V-24462
0.2.4.2.4.4		V-24462
0.2.4.2.5.0	HELIUM SUPPLY SPHERE	V-24462
0.2.4.2.6.0	REGULATOR - PNEUMATIC CONTROL	AS FOLLOWS
0.2.4.2.6.1		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.2.6.1.1		V-24462
0.2.4.2.6.1.2		V-24462
0.2.4.2.6.2		AS FOLLOWS
0.2.4.2.6.2.1		V-24462
0.2.4.2.6.2.2		V-24462
0.2.4.2.7.0	PLENUM TANK - HELIUM CONTROL	V-24462
0.2.4.2.8.0	HAND VALVE - FILL & DRAIN PURGE	V-24462
0.2.4.2.9.0	HAND VALVE - LOX VENT PURGE	V-24462
0.2.4.2.10.0	ACTUATION CONTROL MODULES	AS FOLLOWS
0.2.4.2.10.1		AS FOLLOWS
0.2.4.2.10.1.1		V-24462
0.2.4.2.10.1.2		V-24462
0.2.4.2.10.1.3		V-24462
0.2.4.2.10.1.4		V-24462
0.2.4.2.10.1.5		V-24462
0.2.4.2.10.1.6		V-24462
0.2.4.2.10.1.7		V-24462
0.2.4.2.10.1.8		V-24462
0.2.4.2.10.1.9		V-24462
0.2.4.2.10.2		V-24462
0.2.4.2.11.0	ENGINE PUMP PURGE CONTROL MODULE	AS FOLLOWS
0.2.4.2.11.1		AS FOLLOWS
0.2.4.2.11.1.1		V-24462
0.2.4.2.11.1.2		V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.2.11.2		V-24462
0.2.4.2.12.0	LOX CHILLDOWN PUMP PURGE	V-24462
0.2.4.2.13.0	PNEUMATIC CONTROL SYSTEM DECAY TEST	AS FOLLOWS
0.2.4.2.13.1		V-24462
0.2.4.2.13.2		V-24462
0.2.4.2.14.0		AS FOLLOWS
0.2.4.2.14.1		V-24462
0.2.4.2.15.0		AS FOLLOWS
0.2.4.2.15.1		V-24462
0.2.4.2.15.2		V-24462
0.2.4.2.15.3		AS FOLLOWS
0.2.4.2.15.3.1		V-24462
0.2.4.2.15.3.2		V-24462
0.2.4.2.15.4		AS FOLLOWS
0.2.4.2.15.4.1		V-24469
0.2.4.3	J-2 ENGINE	AS FOLLOWS
0.2.4.3.1.0	ENGINE SYSTEM VISUAL CHECK	V-24426
0.2.4.3.2.0	ENGINE SYSTEM SEALS	AS FOLLOWS
0.2.4.3.2.1		AS FOLLOWS
0.2.4.3.2.1.1		V-24462
0.2.4.3.2.1.2		V-24462
0.2.4.3.2.1.3		V-24462
0.2.4.3.2.2		V-24462
0.2.4.3.2.3		V-24462

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G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.3.3.0	ENGINE SEQUENCE CHECK	V-24554
0.2.4.3.4.0	THRUST CHAMBER	V-24462
0.2.4.3.5.0	LOX SUPPLY LINES	AS FOLLOWS
0.2.4.3.5.1		V-24462
0.2.4.3.5.2		V-24552
0.2.4.3.6.0	MAIN LOX VALVE (MOV) AND ASI SUPPLY VALVE	AS FOLLOWS
0.2.4.3.6.1		V-24462
0.2.4.3.6.2		V-24462
0.2.4.3.7.0	MIXTURE RATIO CONTROL VALVE (MRCV)	AS FOLLOWS
0.2.4.3.7.1		V-24462
0.2.4.3.7.2		V-24462
0.2.4.3.8.0	LOX PUMP AND TURBINE	AS FOLLOWS
0.2.4.3.8.1		V-24462
0.2.4.3.8.2		V-24462
0.2.4.3.8.3		V-24462
0.2.4.3.8.3.1		V-24462
0.2.4.3.8.3.2		V-24462
0.2.4.3.8.4		V-24462
0.2.4.3.9.0	LOX PUMP SEAL CAVITY DRAIN	AS FOLLOWS
0.2.4.3.9.1		V-24563
0.2.4.3.11.0	MAINSTAGE PRESSURE SWITCHES (2)	AS FOLLOWS
0.2.4.3.11.1		V-24462
0.2.4.3.11.2		V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.3.12.0	FUEL SUPPLY LINES	AS FOLLOWS
0.2.4.3.12.1		V-24462
0.2.4.3.12.2		V-24552
0.2.4.3.13.0	MAIN FUEL VALVE (MFV)	V-24462
0.2.4.3.14.0	FUEL PUMP AND TURBINE	AS FOLLOWS
0.2.4.3.14.1		V-24462
0.2.4.3.14.2		V-24462
0.2.4.3.14.3		AS FOLLOWS
0.2.4.3.14.3.1		V-24462
0.2.4.3.14.3.2		V-24462
0.2.4.3.14.4		AS FOLLOWS
0.2.4.3.14.4.1		V-24462
0.2.4.3.14.4.2		V-24462
0.2.4.3.15.0	FUEL PUMP SEAL CAVITY DISCONNECT	V-24344
0.2.4.3.16.0	FUEL GAS GENERATOR CONTROL VALVE	AS FOLLOWS
0.2.4.3.16.2		V-24462
0.2.4.3.17.0	PNEUMATIC CONTROL HIGH PRESSURE LINES	V-24462
0.2.4.3.18.0	PNEUMATIC CONTROL PACKAGE MAIN REGULATOR HELIUM CONTROL AND HELIUM VENT SOLENOID VALVES	AS FOLLOWS
0.2.4.3.18.1		V-24462
0.2.4.3.18.2		V-24462
0.2.4.3.19.0	START TANK DISCHARGE VALVE	V-24462
0.2.4.3.20.0	STAGE START FILL DISCONNECT	AS FOLLOWS
0.2.4.3.20.1		V-24462

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G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.3.20.2		V-24344
0.2.4.3.21.0	START TANK	AS FOLLOWS
0.2.4.3.21.1		AS FOLLOWS
0.2.4.3.21.1.1		V-24462
0.2.4.3.21.1.2		V-24344
0.2.4.3.21.2		AS FOLLOWS
0.2.4.3.21.2.1		V-24462
0.2.4.3.22.0	START SYSTEMS TUBING	AS FOLLOWS
0.2.4.3.22.1		V-24462
0.2.4.3.22.2		V-24462
0.2.4.3.22.3		V-24462
0.2.4.3.23.0	FUEL (THRUST CHAMBER) JACKET PURGE CHECK VALVE	V-24462
0.2.4.3.24.0	OXIDIZER DOME PURGE CHECK VALVE	V-24462
0.2.4.3.25.0	GG FUEL PURGE CHECK VALVE	AS FOLLOWS
0.2.4.3.25.1		V-24462
0.2.4.3.25.2		V-24462
0.2.4.3.26.0	GG LOX PURGE CHECK VALVE	AS FOLLOWS
0.2.4.3.26.1		V-24462
0.2.4.3.26.2		V-24462
0.2.4.3.27.0	FUEL PUMP SEAL CAVITY DRAIN CHECK VALVE	V-24462
0.2.4.3.28.0	FUEL PUMP SEAL CAVITY PURGE CHECK VALVE	V-24462
0.2.4.3.29.0	FUEL TURBINE SEAL CAVITY PURGE CHECK VALVE	V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.3.30.0	LOX TURBINE SEAL CAVITY PURGE CHECK VALVE	V-24462
0.2.4.3.31.0	LOX PUMP INTERMEDIATE SEAL LEAKAGE	V-24462
0.2.4.3.32.0	LOX PUMP INTERMEDIATE SEAL PURGE FLOW	V-24462
0.2.4.3.33.0	IGNITER EXCITER SPARK CABLES	AS FOLLOWS
0.2.4.3.33.1		V-24462
0.2.4.3.33.2		V-24548
0.2.4.3.33.3		V-24548
0.2.4.3.34.0	ECA AND FI PACKAGES	V-24462
0.2.4.3.35.0	PNEUMATIC HIGH PRESSURE SYSTEM DECAY TEST	V-24462
0.2.4.3.36.0	START TANK SYSTEM DECAY TEST	V-24462
	NOTE #1	V-24564
0.2.4.3.37.0	PNEUMATIC SYSTEM HELIUM USAGE TEST	V-24554
0.2.4.3.37.1		V-24554
0.2.4.3.38.0	SOLENOID VALVE INSULATION RESISTANCE AND COIL RESISTANCE CHECKS	AS FOLLOWS
0.2.4.3.38.1		AS FOLLOWS
0.2.4.3.38.1.1		V-21540
0.2.4.3.38.1.2		V-21540
0.2.4.3.38.1.3		V-21540
0.2.4.3.38.1.4		V-21540
0.2.4.3.38.1.5		V-21540

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G. S-IVB REQUIREMENTS	PROCEDURE NO.
0.2.4.3.38.1.6	V-21540
0.2.4.3.38.1.7	V-21540
0.2.4.3.38.2	AS FOLLOWS
0.2.4.3.38.2.1	AS FOLLOWS
0.2.4.3.38.2.1.1	V-21540
0.2.4.3.38.2.1.2	V-21540
0.2.4.3.38.2.1.3	V-21540
0.2.4.3.38.2.2	AS FOLLOWS
0.2.4.3.38.2.2.1	V-21540
0.2.4.3.38.2.2.2	V-21540
0.2.4.3.38.2.2.3	V-21540
0.2.4.3.38.2.3	AS FOLLOWS
0.2.4.3.38.2.3.1	V-21540
0.2.4.3.38.2.3.2	V-21540
0.2.4.3.38.2.3.3	V-21540
0.2.4.3.38.2.4	AS FOLLOWS
0.2.4.3.38.2.4.1	V-21540
0.2.4.3.38.2.4.2	V-21540
0.2.4.3.38.2.4.3	V-21540
0.2.4.3.38.2.5	AS FOLLOWS
0.2.4.3.38.2.5.1	V-21540
0.2.4.3.38.2.5.2	V-21540
0.2.4.3.38.2.5.3	V-21540
0.2.4.3.38.2.6	AS FOLLOWS

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G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.3.38.2.6.1		V-21540
0.2.4.3.38.2.7		AS FOLLOWS
0.2.4.3.38.2.7.1		V-21540
0.2.4.3.39.0	ACCUMULATOR DECAY TEST	V-24462
0.2.4.3.40.0	VACUUM DRYING	AS FOLLOWS
0.2.4.3.40.1		V-24552
0.2.4.3.40.2		V-24552
0.2.4.3.41.0		V-27104
0.2.4.3.42.0	VENT PORT CHECK VALVES	AS FOLLOWS
0.2.4.3.42.1		V-24552
0.2.4.3.42.2		V-24552
0.2.4.4	LOX PROPELLANT SUPPLY AND VENT	AS FOLLOWS
0.2.4.4.1.0	LOX TANK DUCTING	AS FOLLOWS
0.2.4.4.1.1		V-24462
0.2.4.4.1.2		V-24462
0.2.4.4.1.3		V-24462
0.2.4.4.1.4		V-24462
0.2.4.4.1.5		V-24462
0.2.4.4.1.6		V-24462
0.2.4.4.2.0	LOX FILL AND DRAIN DISCONNECT	AS FOLLOWS
0.2.4.4.2.1		V-20112 V-24462
0.2.4.4.2.2		V-20112
0.2.4.4.3.0	LOX FILL AND DRAIN VALVE	AS FOLLOWS
0.2.4.4.3.1		V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.4.3.2		V-24462
0.2.4.4.3.3		V-24462
0.2.4.4.3.4		V-24550
0.2.4.4.3.5		V-24550
0.2.4.4.3.6		V-24550
0.2.4.4.4.0	LOX PREVALVE	AS FOLLOWS
0.2.4.4.4.1		V-24462
0.2.4.4.4.2		V-24462
0.2.4.4.4.3		V-24462
0.2.4.4.4.4		V-24550
0.2.4.4.4.5		V-24550
0.2.4.4.5.0	LOX CHILLDOWN SHUTOFF VALVE	AS FOLLOWS
0.2.4.4.5.1		V-24462
0.2.4.4.5.2		V-24462
0.2.4.4.5.3		V-24462
0.2.4.4.6.0	LOX CHILLDOWN PUMP AND CANNISTER	AS FOLLOWS
0.2.4.4.6.1		V-24462
0.2.4.4.6.2		V-24462
0.2.4.4.6.3		V-24462
0.2.4.4.7.0		V-24462
0.2.4.4.8.0		V-24462
0.2.4.4.9.0	LOX TANK VENT AND RELIEF VALVE	AS FOLLOWS
0.2.4.4.9.1		V-24462
0.2.4.4.9.2		V-24462

(CONTINUED)

G. 5-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.4.9.3		AS FOLLOWS
0.2.4.4.9.3.1		V-24550
0.2.4.4.9.3.2		V-24550
0.2.4.4.9.4		V-24536
0.2.4.4.10.0	LOX TANK NONPROPULSIVE VENT VALVE	AS FOLLOWS
0.2.4.4.10.1		V-24462
0.2.4.4.10.2		V-24462
0.2.4.4.10.3		AS FOLLOWS
0.2.4.4.10.3.1		V-24550
0.2.4.4.10.3.2		V-24550
0.2.4.4.10.4		V-24536
0.2.4.4.11.0		V-24462
0.2.4.5	LOX TANK PRESSURIZATION SYSTEM	AS FOLLOWS
0.2.4.5.1.0	PRESSURIZATION LINES	AS FOLLOWS
0.2.4.5.1.1		V-24462
0.2.4.5.1.2		V-24462
0.2.4.5.2.0	DISCONNECT - COLD HELIUM	V-24462
0.2.4.5.3.0	CHECK VALVES - COLD HELIUM FILL (2)	AS FOLLOWS
0.2.4.5.3.1		V-24462
0.2.4.5.3.2		V-24462
0.2.4.5.3.3		V-24462
0.2.4.5.4.0	COLD HELIUM DUMP MODULE	AS FOLLOWS
0.2.4.5.4.1		V-24462

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G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.5.4.2		V-24462
0.2.4.5.4.3		V-24462
0.2.4.5.4.4		AS FOLLOWS
0.2.4.5.4.4.1		V-24462
0.2.4.5.4.4.2		V-24462
0.2.4.5.5.0	COLD HELIUM SPHERES	V-24462
0.2.4.5.6.0	LOX TANK PRESS CONTROL MODULE	AS FOLLOWS
0.2.4.5.6.1		V-24462
0.2.4.5.6.2		V-24462
0.2.4.5.6.3		AS FOLLOWS
0.2.4.5.6.3.1		V-24462
0.2.4.5.6.3.2		V-24462
0.2.4.5.6.3.3		V-24462
0.2.4.5.6.4		V-24462
0.2.4.5.6.5		V-24462
0.2.4.5.7.0	PLENUM TANK	V-24462
0.2.4.5.8.0		V-24462
0.2.4.6	FUEL PROPELLANT SUPPLY AND VENT	AS FOLLOWS
0.2.4.6.1.0	FUEL TANK DUCTING	AS FOLLOWS
0.2.4.6.1.1		V-24462
0.2.4.6.1.2		AS FOLLOWS
0.2.4.6.1.2.1		V-24462
0.2.4.6.1.2.2		V-24427
0.2.4.6.1.3		AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.6.1.3.1		V-24462
0.2.4.6.1.3.2		V-24427
0.2.4.6.1.4		V-24462
0.2.4.6.1.5		V-24462
0.2.4.6.1.6		AS FOLLOWS
0.2.4.6.1.6.1		V-20112 V-24462
0.2.4.6.1.6.2		V-20112
0.2.4.6.1.7		V-24462
0.2.4.6.2.0	LH2 FILL AND DRAIN DISCONNECT	AS FOLLOWS
0.2.4.6.2.1		V-20112 V-24462
0.2.4.6.2.2		V-20112
0.2.4.6.3.0	LH2 FILL AND DRAIN VALVE	AS FOLLOWS
0.2.4.6.3.1		V-24462
0.2.4.6.3.2		V-24462
0.2.4.6.3.3		V-24462
0.2.4.6.3.4		V-24550
0.2.4.6.3.5		V-24550
0.2.4.6.3.6		V-24550
0.2.4.6.4.0	LH2 PREVALVES	AS FOLLOWS
0.2.4.6.4.1		V-24462
0.2.4.6.4.2		V-24462
0.2.4.6.4.3		V-24462
0.2.4.6.4.4		V-24550

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.6.4.5		V-24550
0.2.4.6.5.0	LH2 CHILLDOWN SHUTOFF VALVE	AS FOLLOWS
0.2.4.6.5.1		V-24462
0.2.4.6.5.2		V-24462
0.2.4.6.5.3		V-24462
0.2.4.6.6.0	LH2 CHILLDOWN PUMP	V-24462
0.2.4.6.7.0	LH2 CHILLDOWN FLOWMETER	V-24462
0.2.4.6.8.0	LH2 RECIRCULATION SUBSYSTEM RETURN CHECK VALVE	V-24462
0.2.4.6.9.0	LH2 TANK VENT AND RELIEF VALVE	AS FOLLOWS
0.2.4.6.9.1		V-24462
0.2.4.6.9.2		V-24462
0.2.4.6.9.3		AS FOLLOWS
0.2.4.6.9.3.1		V-24550
0.2.4.6.9.3.2		V-24550
0.2.4.6.9.4		V-24536
0.2.4.6.10.0	LH2 TANK LATCHING RELIEF VALVE	AS FOLLOWS
0.2.4.6.10.1		V-24462
0.2.4.6.10.2		V-24462
0.2.4.6.10.3		AS FOLLOWS
0.2.4.6.10.3.1		V-24550
0.2.4.6.10.3.2		V-24550
0.2.4.6.10.4		V-24536
0.2.4.6.11.0	LH2 TANK DIRECTIONAL CONTROL VALVE	AS FOLLOWS

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.4.6.11.1		V-24462
0.2.4.6.11.2		V-24462
0.2.4.6.11.3		V-24462
0.2.4.6.11.4		V-24550
0.2.4.6.12.0		V-24462
0.2.4.7	FUEL TANK PRESSURIZATION SYSTEM	AS FOLLOWS
0.2.4.7.1.0	PRESSURIZATION LINES	AS FOLLOWS
0.2.4.7.1.1		V-24462
0.2.4.7.1.2		V-24462
0.2.4.7.2.0	DISCONNECT - PREPRESSURIZATION	V-24462
0.2.4.7.3.0	CHECK VALVE - FUEL PRESSURIZATION	AS FOLLOWS
0.2.4.7.3.1		V-24462
0.2.4.7.3.2		V-24462
0.2.4.7.3.3		V-24462
0.2.4.7.4.0	PRESSURIZATION CONTROL MODULE	AS FOLLOWS
0.2.4.7.4.1		V-24462
0.2.4.7.4.2		V-24462
0.2.4.7.4.3		V-24462
0.2.4.7.4.4		V-24462

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.5.1.1.0	AFT SKIRT PURGE	NOTE #2
0.2.5.1.1.1		NOTE #2
0.2.5.1.1.1.1		NOTE #2
0.2.5.1.1.1.2		NOTE #2
0.2.5.1.1.1.3		NOTE #2
0.2.5.1.1.1.4		NOTE #2
0.2.5.1.1.2		NOTE #2
0.2.5.1.1.2.1		NOTE #2
0.2.5.1.1.2.2		NOTE #2
0.2.5.1.1.2.3		NOTE #2
0.2.5.1.1.2.4		NOTE #2
0.2.5.1.1.3		NOTE #2
0.2.5.1.1.3.1		NOTE #2
0.2.5.1.1.3.2		NOTE #2
0.2.5.1.2.0	COOLANT PRESSURE DURING IU OPERATION	NOTE #1 V-20130 V-24391 V-24407 V-24408 V-31119
0.2.5.2.1.0	BATTERIES - MAXIMUM WET STAND TIME	NOTE #1 V-20130
0.2.5.2.1.1		NOTE #1 V-20130
0.2.5.2.1.2		NOTE #1 V-20130
0.2.5.2.1.3		NOTE #1 V-20130
0.2.5.2.1.4		NOTE #1 V-20130
0.2.5.2.2.0	SWITCH SELECTOR	AS FOLLOWS
0.2.5.2.2.1		V-20101
0.2.5.2.2.2		V-20101
0.2.5.2.2.3		V-20101

(CONTINUED)

G. S-IVB REQUIREMENTS		PROCEDURE NO.
0.2.5.2.2.4		V-20101
0.2.5.2.3.0	LH2 DEPLETION SENSORS	AS FOLLOWS
0.2.5.2.3.1		NOTE #1 V-20130
0.2.5.2.3.2		NOTE #1,#3 V-20130
0.2.5.4.1.0	SYSTEM DECAY TEST	AS FOLLOWS
0.2.5.4.1.1		V-20130
0.2.5.4.1.2		V-20130
0.2.5.4.1.3		V-20130
0.2.5.4.1.4	APS PRESSURE DECAY TEST	AS FOLLOWS
0.2.5.4.1.4.1		V-24470
0.2.5.4.1.4.1.1		NOTE #1 V-20130
0.2.5.4.1.4.2		V-24470
0.2.5.4.1.5		NOTE #1 V-20130
0.2.5.4.2.0	TANK PRESSURES	NOTE #6
0.2.5.4.2.1		NOTE #6
0.2.5.4.2.2		NOTE #6
0.2.5.4.3.0	MIXTURE RATIO CONTROL VALVE (MRCV)	AS FOLLOWS
0.2.5.4.3.1		V-20130
0.2.5.4.3.2		V-20130
0.2.5.4.3.3		V-20130
0.2.5.4.3.4		V-20130
0.2.5.4.4.0	VACUUM CHECK OF FUEL FEED & RECIRCULATION DUCT ANNULUS	NOTE #4 V-24427
0.2.5.4.5.0	ELECTRICAL CONTROL ASSEMBLY	V-24548 V-30610
0.2.5.4.6.0	LOX/LH2 SENSORS	AS FOLLOWS
0.2.5.4.6.1		AS FOLLOWS
0.2.5.4.6.1.1		V-20132

(CONTINUED)

G.	S-IVB REQUIREMENTS		PROCEDURE NO.
	0.2.5.4.6.1.2		V-20132
	0.2.5.4.6.2		AS FOLLOWS
	0.2.5.4.6.2.1		V-20132
	0.2.5.4.7.0	LOX/LH2 VENT & RELIEF VALVES	AS FOLLOWS
	0.2.5.4.7.1		NOTE #5 V-20132
	0.2.5.4.7.2		NOTE #5 V-20132

H. IU REQUIREMENTS (S-IU-207 IS BEING USED ON AS-208 VEHICLE) PROCEDURE NO.

THE IU REQUIREMENTS LISTED IN THE FOLLOWING CROSS INDEX ARE EXTRACTED FROM 7921601 "SATURN IB, S-IU-206 AND SUBSEQUENT, TEST AND CHECKOUT REQUIREMENTS, SPECIFICATIONS, AND CRITERIA FOR USE AT KSC", DECEMBER 9, 1971

NOTES

1. THE STATEMENT GIVEN UNDER THIS PARAGRAPH NUMBER IS NOT A VALID TEST REQUIREMENT BECAUSE IT DOES NOT MEET THE DEFINITION FOR A REQUIREMENT AS DEFINED IN THE S-IU STAGE TEST REQUIREMENTS, SPECIFICATIONS AND CRITERIA DOCUMENT NO. 7921601, PAGE 1-2.

2. THE ECS EQUIPMENT WILL BE OPERATED BY TBC PER PROCEDURES V-36150 AND V-26592, AND AS REQUIRED TO SATISFY THE INDIVIDUAL STAGE CONTRACTOR'S SPECIFICATIONS AND CRITERIA. THE APPROPRIATE STAGE CONTRACTOR WILL BE RESPONSIBLE FOR GENERATING A WAIVER OR CHANGE REQUEST WHEN ADVISED BY TBC OR UPON OBSERVATION THAT A DEVIATION FROM A REQUIRED SPECIFICATION HAS TAKEN PLACE.

3. THIS TEST REQ. WILL BE SATISFIED BY THE PROCEDURE IDENTIFIED. THE TEST CATALOG SHEET IS BEING REVISED TO REFLECT THIS REQUIREMENT.

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.0.0	GUIDANCE AND FLIGHT CONTROL	AS FOLLOWS
0.3.1.1.0	GUIDANCE SYSTEM TEST	AS FOLLOWS
0.3.1.1.0.1		AS FOLLOWS
0.3.1.1.0.1.1		V-23190 V-23199
0.3.1.1.0.1.1.1		V-23190 V-23199
0.3.1.1.0.1.1.2		V-23190 V-23199
0.3.1.1.0.1.1.3		V-23190 V-23199
0.3.1.1.0.2		AS FOLLOWS
0.3.1.1.0.2.1		V-23190 V-23199
0.3.1.1.0.2.2		V-23190 V-23199
0.3.1.1.0.2.3		V-23190 V-23199
0.3.1.1.0.2.4		V-23190 V-23199
0.3.1.1.0.2.5		V-23190 V-23199
0.3.1.1.0.2.6		V-23190 V-23199
0.3.1.1.0.3		AS FOLLOWS
0.3.1.1.0.3.1		V-23190 V-23199
0.3.1.1.0.3.2		V-23190 V-23199
0.3.1.1.1	GUIDANCE COMPUTER SUBSYSTEM TEST	AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.1.1.1	POWER SUPPLIES	AS FOLLOWS
0.3.1.1.1.1.1		V-23180 V-23199
0.3.1.1.1.1.1.1		V-23180 V-23199
0.3.1.1.1.1.2		V-23180 V-23199
0.3.1.1.1.1.3		V-23180 V-23199
0.3.1.1.1.2	TEMPERATURE TEST	AS FOLLOWS
0.3.1.1.1.2.1		V-23180 V-23190 V-23199
0.3.1.1.1.2.1.1		V-23180 V-23190 V-23199
0.3.1.1.1.2.1.2		V-23180 V-23190 V-23199
0.3.1.1.1.2.1.3		V-23180 V-23190 V-23199
0.3.1.1.1.3	LOGIC CHANNEL OPERATION	AS FOLLOWS
0.3.1.1.1.3.1		V-23199
0.3.1.1.1.3.2		V-23199
0.3.1.1.1.3.3		V-23199
0.3.1.1.1.4	MEMORY OPERATION	AS FOLLOWS
0.3.1.1.1.4.1		V-23190 V-23199
0.3.1.1.1.4.2		V-23190 V-23199

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.1.1.4.2.1		V-23190 V-23199
0.3.1.1.1.4.2.2		V-23190 V-23199
0.3.1.1.1.5	REGISTER OPERATION	AS FOLLOWS
0.3.1.1.1.5.1	DELAY LINE REGISTERS	AS FOLLOWS
0.3.1.1.1.5.1.1		V-23190 V-23199
0.3.1.1.1.5.1.2	INTERRUPT, LIMITING, AND INHIBIT	AS FOLLOWS
0.3.1.1.1.5.1.2.1		V-23190 V-23199
0.3.1.1.1.5.1.2.2		V-23190 V-23199
0.3.1.1.1.5.2		V-23190 V-23199
0.3.1.1.1.6		V-23190 V-23199
0.3.1.1.1.7	ANALOG-TO-DIGITAL CONVERSION	AS FOLLOWS
0.3.1.1.1.7.1		V-23190 V-23199
0.3.1.1.1.7.2		V-23190 V-23199
0.3.1.1.1.7.3		V-23190 V-23199
0.3.1.1.1.7.4		V-23190 V-23199
0.3.1.1.1.8	ANALOG OUTPUTS	AS FOLLOWS
0.3.1.1.1.8.1	ATTITUDE ERRORS	AS FOLLOWS
0.3.1.1.1.8.1.1		V-23190 V-23199

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.1.1.8.1.2		V-23190 V-23199
0.3.1.1.1.8.1.3		V-23190 V-23199
0.3.1.1.1.8.3	COMPARATOR TEST LOGIC	V-23190 V-23199
0.3.1.1.1.8.3.1		V-23190 V-23199
0.3.1.1.1.8.3.2		V-23190 V-23199
0.3.1.1.1.8.3.3		V-23190 V-23199
0.3.1.1.1.9	DISCRETE INPUTS	AS FOLLOWS
0.3.1.1.1.9.1		V-23190 V-23199
0.3.1.1.1.10	DISCRETE OUTPUTS	AS FOLLOWS
0.3.1.1.1.10.1		V-23190 V-23199
0.3.1.1.1.10.2		V-23190 V-23199
0.3.1.1.1.11	DIGITAL TELEMETRY	AS FOLLOWS
0.3.1.1.1.11.1	LVDC/LVDA TELEMETRY	AS FOLLOWS
0.3.1.1.1.11.1.1		V-23190 V-23199
0.3.1.1.1.12	LAB TEST	AS FOLLOWS
0.3.1.1.1.12.1		NOTE #1
0.3.1.1.1.12.2		NOTE #1
0.3.1.1.1.12.3		NOTE #1
0.3.1.1.2	INERTIAL SUBSYSTEM	AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.1.2.1	STABILIZER TESTS IN THE IU	AS FOLLOWS
0.3.1.1.2.1.1	NOTE #3	V-23048 V-23049 V-23066 V-23068 V-33011 V-33013 V-33034
0.3.1.1.2.2	STABILIZER LAB TEST	AS FOLLOWS
0.3.1.1.2.2.1		NOTE #1
0.3.1.1.2.2.2		NOTE #1
0.3.1.1.2.2.3		NOTE #1
0.3.1.2.0.0	FLIGHT CONTROL SYSTEM	AS FOLLOWS
0.3.1.2.0.1	SYSTEM NULLS	AS FOLLOWS
0.3.1.2.0.1.1		V-20066 V-20151
0.3.1.2.0.2	SYSTEM GAINS	AS FOLLOWS
0.3.1.2.0.2.1		V-20151 V-20153
0.3.1.2.0.2.1.1		V-20151
0.3.1.2.0.2.1.2		V-20151
0.3.1.2.0.2.1.3		V-20153
0.3.1.2.0.3	SYSTEM POLARITIES	AS FOLLOWS
0.3.1.2.0.3.1		V-20066 V-20144 V-20149
0.3.1.2.0.4	SYSTEM TELEMETRY	AS FOLLOWS
0.3.1.2.0.4.1		V-20148 V-23030 V-23153

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
		V-23281
0.3.1.2.0.5	SYSTEM FREQUENCY RESPONSE	AS FOLLOWS
0.3.1.2.0.5.1		V-20150
0.3.1.2.0.6	SPACECRAFT CONTROL	AS FOLLOWS
0.3.1.2.0.6.1		V-23281
0.3.1.2.0.6.1.1		V-23281
0.3.1.2.0.6.1.2		V-23281
0.3.1.2.1.0	CONTROL - EDS RATE GYRO/CSP	AS FOLLOWS
0.3.1.2.1.1	GYRO WHEEL SPEED	AS FOLLOWS
0.3.1.2.1.1.1		V-23030 V-23197
0.3.1.2.1.1.2		V-23197
0.3.1.2.1.2	CONTROL - EDS RATE GYRO/CSP ACCURACY	AS FOLLOWS
0.3.1.2.1.2.1	CONTROL - EDS RATE GYRO/CSP OUTPUT	AS FOLLOWS
0.3.1.2.1.2.1.1		V-23028
0.3.1.2.1.2.1.2		V-23028
0.3.1.2.1.2.1.3		V-23028
0.3.1.2.1.2.1.4		V-23028
0.3.1.2.1.2.1.5		V-23028
0.3.1.2.1.3	RATE SWITCH	AS FOLLOWS
0.3.1.2.1.3.1		V-23030
0.3.1.2.1.4	CSP COMPARATOR	AS FOLLOWS
0.3.1.2.1.4.1		V-23030
0.3.1.2.1.5	CONTROL - EDS RATE GYRO	AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.2.1.5.1		V-23155
0.3.1.2.2.0	FLIGHT CONTROL COMPUTER	AS FOLLOWS
0.3.1.2.2.1	FCC NULLS	AS FOLLOWS
0.3.1.2.2.1.1		V-20066 V-23281
0.3.1.2.2.2	SPATIAL AMPLIFIER FUNCTIONAL	AS FOLLOWS
0.3.1.2.2.2.1	SPATIAL AMPLIFIER OUTPUTS	AS FOLLOWS
0.3.1.2.2.2.1.1		V-20066 V-23284
0.3.1.2.2.2.1.2		V-20066
0.3.1.2.2.2.1.3		V-20066
0.3.1.2.2.3	S-IVB SERVO AMPLIFIER COMPARATOR	AS FOLLOWS
0.3.1.2.2.3.1		V-23169
0.3.1.2.2.4	SPATIAL AMPLIFIER COMPARATOR	AS FOLLOWS
0.3.1.2.2.4.1		V-23169 V-23284
0.3.1.2.2.5	FCC MODES	AS FOLLOWS
0.3.1.2.2.5.1		V-23284
0.3.1.2.2.6	RELAY REDUNDANCY	AS FOLLOWS
0.3.1.2.2.6.1		V-23279
0.3.1.2.2.6.2		V-23279
0.3.1.2.2.6.3		V-23281
0.3.1.2.2.7	LABORATORY TESTS	AS FOLLOWS
0.3.1.2.2.7.1		V-23278
0.3.1.2.3.0	ACCELERATION SENSOR	AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.1.2.3.3		AS FOLLOWS
0.3.1.2.3.3.1		V-20153
0.3.1.2.3.3.2		V-20153
0.3.1.2.3.3.3		V-20153
0.3.1.2.3.3.4		V-20153
0.3.2.0	INSTRUMENTATION AND RANGE SAFETY	AS FOLLOWS
0.3.2.1.0	TELEMETRY SUBSYSTEM	V-27056 V-27058 V-27060 V-27061 V-27062 V-27063 V-27064 V-27065 V-27066 V-27067 V-28049
0.3.2.1.0.1		V-28049
0.3.2.1.1	TM CALIBRATION SUBSYSTEM	V-28195
0.3.2.1.1.1	F1 TM CALIBRATION SIGNAL	AS FOLLOWS
0.3.2.1.1.1.1		V-28051 V-28195 V-28196
0.3.2.1.1.2	P1/DDAS TM CALIBRATION SIGNAL	AS FOLLOWS
0.3.2.1.1.2.1		V-28050 V-28194
0.3.2.1.1.2.2		V-28050 V-28194
0.3.2.1.2	F1 TM SUBSYSTEM	AS FOLLOWS
0.3.2.1.2.1		V-28051 V-28196
0.3.2.1.2.2		V-28051

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
		V-28196
0.3.2.1.2.3	F1 RF TRANSMITTER OUTPUT	AS FOLLOWS
0.3.2.1.2.3.1		V-28051 V-28196
0.3.2.1.2.3.2		V-28049
0.3.2.1.2.3.3		V-28049 V-28196
0.3.2.1.2.3.4		V-28049
0.3.2.1.2.4	F1 SCO	AS FOLLOWS
0.3.2.1.2.4.1		V-28051 V-28196
0.3.2.1.2.4.2		V-28051 V-28196
0.3.2.1.3	P1 TM SUBSYSTEM	V-28050 V-28194
0.3.2.1.3.1		V-28050 V-28194
0.3.2.1.3.2		V-28050 V-28194
0.3.2.1.3.3	P1 TRANSMITTER OUTPUTS	AS FOLLOWS
0.3.2.1.3.3.1	VHF TRANSMITTER RF OUTPUT	AS FOLLOWS
0.3.2.1.3.3.1.1		V-28050 V-28194
0.3.2.1.3.3.1.2		V-28050 V-28194
0.3.2.1.3.3.1.2.1		V-28050 V-28194
0.3.2.1.3.3.1.2.2		V-28050 V-28194
0.3.2.1.3.3.1.3		V-28049

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.2.1.3.3.1.4		V-28049 V-28194
0.3.2.1.3.3.1.5		V-28049
0.3.2.1.3.3.3	DIRECT OUTPUT - VCO	AS FOLLOWS
0.3.2.1.3.3.3.1		V-28050 V-28194
0.3.2.1.3.4	P1 DATA CHANNEL	AS FOLLOWS
0.3.2.1.3.4.1		V-28050 V-28194
0.3.2.1.3.4.2		V-28050 V-28194
0.3.2.1.3.4.3		V-28050 V-28194
0.3.2.1.3.5		V-23199
0.3.2.1.3.6		V-23199
0.3.2.2.0	MEASUREMENT SUBSYSTEM	AS FOLLOWS
0.3.2.2.1	SIGNAL CONDITIONED MEASUREMENTS	AS FOLLOWS
0.3.2.2.1.1		V-27056 V-27058 V-27061 V-27062 V-27063 V-27064 V-27065 V-27066
0.3.2.2.1.2	CALIBRATION	V-27056 V-27058 V-27061 V-27062 V-27063 V-27064 V-27065 V-27066 V-27079

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.2.2.1.2.1		V-27058 V-27079
0.3.2.2.1.2.2		V-27061 V-27079
0.3.2.2.1.2.3		V-27065 V-27079
0.3.2.2.1.2.4		V-27066 V-27079
0.3.2.2.1.2.5		V-27056 V-27079
0.3.2.2.1.2.6		V-27062 V-27079
0.3.2.2.1.2.7		V-27064 V-27079
0.3.2.2.1.2.8		V-27063 V-27079
0.3.2.2.1.2.9		V-27079
0.3.2.2.2	MEASUREMENTS WITHOUT SIGNAL CONDITIONING	AS FOLLOWS
0.3.2.2.2.1		V-27067
0.3.2.2.2.2		V-27060
0.3.2.2.2.3		V-27056 V-27060 V-27062 V-27063
0.3.2.2.2.4		V-27064
0.3.2.2.2.5		V-27064
0.3.2.2.3	MEASUREMENT DISTRIBUTION	AS FOLLOWS
0.3.2.2.3.1		V-27056 V-27056

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
		V-27060 V-27061 V-27062 V-27063 V-27064 V-27065 V-27066 V-27067
0.3.2.4.0	RF COMMAND AND TRACKING	AS FOLLOWS
0.3.2.4.2	C-BAND TRANSPONDER	AS FOLLOWS
0.3.2.4.2.1	C-BAND RECEIVER	AS FOLLOWS
0.3.2.4.2.1.1		AS FOLLOWS
0.3.2.4.2.1.1.1		V-28055 V-28056
0.3.2.4.2.1.1.2		V-28055 V-28056
0.3.2.4.2.1.1.3		V-28055 V-28056
0.3.2.4.2.1.1.4		V-28055 V-28056
0.3.2.4.2.2	C-BAND TRANSMITTER	AS FOLLOWS
0.3.2.4.2.2.1		AS FOLLOWS
0.3.2.4.2.2.1.1		V-28055 V-28056
0.3.2.4.2.2.1.2		V-28055 V-28056
0.3.2.4.2.2.1.3		V-28055 V-28056
0.3.2.4.2.2.1.4		V-28055 V-28056
0.3.2.4.2.2.1.5		V-28055 V-28056

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.2.4.2.2.1.6		V-28055 V-28056
0.3.2.4.2.3	TRANSPONDER RESPONSE	AS FOLLOWS
0.3.2.4.2.3.1		AS FOLLOWS
0.3.2.4.2.3.1.1		V-28055 V-28056
0.3.2.4.2.3.1.2		V-28055 V-28056
0.3.2.4.2.3.1.3		V-28055 V-28056
0.3.2.4.2.3.1.4		V-28055 V-28056
0.3.2.4.2.4	C-BAND COMPATIBILITY	AS FOLLOWS
0.3.2.4.2.4.1		V-28056 V-28233
0.3.2.4.2.5		V-28055 V-28056 V-28232
0.3.2.4.4	IU COMMAND SYSTEM	AS FOLLOWS
0.3.2.4.4.1		V-28229 V-28230
0.3.2.4.4.1.1		V-28229 V-28230 V-28231
0.3.2.4.4.1.2		V-28229 V-28230 V-28231
0.3.2.4.4.1.3		V-28229 V-28230 V-28231
0.3.2.4.4.1.4		V-28229 V-28230 V-28231

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.2.4.4.1.5		V-28229 V-28230 V-28231
0.3.2.4.4.1.6		V-28229 V-28230 V-28231
0.3.2.4.4.1.7		V-28229 V-28230 V-28231
0.3.2.4.4.1.8		V-28229 V-28230 V-28231
0.3.2.4.4.1.9		V-28229 V-28230 V-28231
0.3.2.4.4.2		V-28227
0.3.3.1	COMPONENT INSTALLATION	AS FOLLOWS
0.3.3.1.1		V-21478 V-21507 V-21513 V-34045 V-34046 V-34047
0.3.3.1.2		V-24437
0.3.3.2	IU INSPECTION	AS FOLLOWS
0.3.3.2.1		V-26548 V-31119
0.3.3.2.2		V-21527 V-24223 V-31119
0.3.3.2.3		V-24223
0.3.3.3	IU/S-IVB/SLA INTERFACE	AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS			PROCEDURE NO,
0.3.3.3.1			V-24223
0.3.4.0	IU ELECTRICAL SYSTEM		AS FOLLOWS
0.3.4.0.1			V-20026 V-21096 V-21497
0.3.4.0.2			V-21478
0.3.4.0.3			V-31119
0.3.4.1	IU PRIMARY BATTERIES AND POWER SUPPLIES		AS FOLLOWS
0.3.4.1.0.1			V-21479
0.3.4.1.1	FLIGHT BATTERIES		AS FOLLOWS
0.3.4.1.1.1			AS FOLLOWS
0.3.4.1.1.1.1		NOTE #3	V-20130 V-21479
0.3.4.1.1.1.2		NOTE #3	V-20130 V-21479
0.3.4.1.2	56 VOLT POWER SUPPLY		AS FOLLOWS
0.3.4.1.2.1			V-31126
0.3.4.1.3	5 VOLT MASTER MEASURING SUPPLY		AS FOLLOWS
0.3.4.1.3.1			V-31126
0.3.4.2.0.1			V-31126
0.3.4.2.1			AS FOLLOWS
0.3.4.2.1.1			V-20101
0.3.4.2.1.2			V-31126
0.3.4.2.1.3			V-21497 V-31126
0.3.4.2.2			AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.4.2.2.1		V-31126
0.3.4.2.2.2		V-21497 V-31126
0.3.4.2.3		AS FOLLOWS
0.3.4.2.3.1		V-31126
0.3.4.2.3.2		V-20101 V-20120 V-20146 V-21096
0.3.4.2.3.3		V-20117 V-21497
0.3.4.2.4		AS FOLLOWS
0.3.4.2.4.1		V-27058 V-27060 V-27065 V-27066
0.3.4.2.4.2		V-27058 V-27060 V-27063 V-27064 V-27065 V-27066 V-27067 V-28050 V-28051
0.3.4.2.5		V-20146 V-21096
0.3.4.3	SEQUENCING SUBSYSTEM	AS FOLLOWS
0.3.4.3.1		AS FOLLOWS
0.3.4.3.1.1		V-23199
0.3.4.3.1.2		V-23199
0.3.4.3.2		V-23199

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
0.3.4.3.2.1		V-23199
0.3.5.0.0	THERMAL CONDITIONING SUBSYSTEM	AS FOLLOWS
0.3.5.1.0	IU PURGE SUBSYSTEM	AS FOLLOWS
0.3.5.1.0.1		AS FOLLOWS
0.3.5.1.0.1.1		NOTE #2
0.3.5.1.0.1.2		NOTE #2
0.3.5.1.1		V-34017
0.3.5.1.1.2		NOTE #2
0.3.5.1.2		NOTE #2
0.3.5.1.2.1		AS FOLLOWS
0.3.5.1.2.1.1		NOTE #2
0.3.5.1.2.1.2		NOTE #2
0.3.5.1.2.2		NOTE #2
0.3.5.1.3		NOTE #2
0.3.5.1.3.1		NOTE #2
0.3.5.1.3.1.1		NOTE #2
0.3.5.1.3.1.2		NOTE #2
0.3.5.1.3.2		NOTE #2
0.3.5.1.4		NOTE #2
0.3.5.1.4.1		NOTE #2
0.3.5.1.4.1.1		NOTE #2
0.3.5.1.4.1.2		NOTE #2
0.3.5.1.4.2		NOTE #2
0.3.5.1.5		NOTE #2

(CONTINUED)

H. IU REQUIREMENTS			PROCEDURE NO.
0.3.5.1.5.1			NOTE #2
0.3.5.1.5.2			NOTE #2
0.3.5.1.5.3			NOTE #2
0.3.5.1.6			AS FOLLOWS
0.3.5.1.6.1			NOTE #2
0.3.5.1.6.2			NOTE #2
0.3.5.2.0	THERMAL CONDITIONING SYSTEM		V-34017
0.3.5.2.1	TCS LEAKAGE		AS FOLLOWS
0.3.5.2.1.1			V-24407
0.3.5.2.1.2			V-24391
0.3.5.2.1.3			V-24298 V-24391
0.3.5.2.1.3.1			V-24299
0.3.5.2.2	TCS TEMPERATURES		AS FOLLOWS
0.3.5.2.2.1			AS FOLLOWS
0.3.5.2.2.1.1			V-34017
0.3.5.2.2.3	WATER SOLENOID VALVE		AS FOLLOWS
0.3.5.2.2.3.1		NOTE #3 NOTE #3 NOTE #3 NOTE #3	V-20103 V-20106 V-20117 V-20120
0.3.5.2.2.3.2			V-20103 V-20106 V-20117 V-20120
0.3.5.2.3.0	TCS PRESSURES		AS FOLLOWS
0.3.5.2.3.1			V-34017
0.3.5.2.3.2			V-31108

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
		V-34017
0.3.5.2.3.4		NOTE #1
0.3.5.2.4	COOLANT FLOW RATES	AS FOLLOWS
0.3.5.2.4.1		V-24228
0.3.5.2.4.3		V-24228
0.3.5.2.4.4		V-24228
0.3.5.2.5	COOLANT PUMP	AS FOLLOWS
0.3.5.2.5.1		AS FOLLOWS
0.3.5.2.5.1.1		V-24228
0.3.5.2.5.1.2		AS FOLLOWS
0.3.5.2.5.1.2.1		V-24228
0.3.5.2.5.1.2.2		AS FOLLOWS
0.3.5.2.5.1.2.2.1		V-24228
0.3.5.2.5.1.2.2.2		V-24228
0.3.5.2.5.2		V-20130 V-31119
0.3.5.2.5.3		V-24228
0.3.5.2.6	FLUID REQUIREMENTS	AS FOLLOWS
0.3.5.2.6.1	COOLANT	AS FOLLOWS
0.3.5.2.6.1.1		AS FOLLOWS
0.3.5.2.6.1.1.1		V-26492
0.3.5.2.6.1.1.2		AS FOLLOWS
0.3.5.2.6.1.1.2.1		V-26492
0.3.5.2.6.1.1.2.2		V-26492
0.3.5.2.6.1.1.2.3		V-26492

(CONTINUED)

W. IU REQUIREMENTS		PROCEDURE NO.
0.3.5.2.6.1.1.3		V-26492
0.3.5.2.6.1.2		V-26492
0.3.5.2.6.1.2.1		V-26492
0.3.5.2.6.1.2.2		V-26492
0.3.5.2.6.1.2.3		V-26492
0.3.5.2.6.1.3		AS FOLLOWS
0.3.5.2.6.1.3.1		V-24407 V-24408
0.3.5.2.6.1.3.2		V-24407 V-24408
0.3.5.2.6.1.4		V-34047
0.3.5.2.6.1.5	COVERED BY 0.3.5.2.6.1	
0.3.5.2.6.2	WATER	AS FOLLOWS
0.3.5.2.6.2.1		AS FOLLOWS
0.3.5.2.6.2.1.1		V-24445
0.3.5.2.6.2.1.2		V-24445
0.3.5.2.6.2.1.3		V-24445
0.3.5.2.6.2.2		V-24445
0.3.5.2.6.3	GN2 FOR PRESSURIZATION	AS FOLLOWS
0.3.5.2.6.3.1		V-24454
0.3.5.2.6.4		V-24391
0.3.5.2.7	GN2 STORAGE SPHERE	AS FOLLOWS
0.3.5.2.7.1		V-24299
0.3.5.2.7.2		V-24299
0.3.5.2.8		AS FOLLOWS

(CONTINUED)

H. IU REQUIREMENTS			PROCEDURE NO,
0.3.5.2.8.1			V-24561
0.3.5.2.8.2			V-24561
0.3.5.3	GAS BEARING SYSTEM		AS FOLLOWS
0.3.5.3.1	LEAK TEST		AS FOLLOWS
0.3.5.3.1.1			V-24298
0.3.5.3.1.1.1			V-24298
0.3.5.3.1.2			V-24299
0.3.5.3.1.3			V-24299
0.3.5.3.1.3.1			V-24299
0.3.5.3.2			V-24299
0.3.5.3.2.1			V-24299
0.3.5.3.2.2			V-24299
0.3.5.3.3			V-24228
0.3.5.3.4			AS FOLLOWS
0.3.5.3.4.1			V-24561
0.3.5.3.4.2			V-24561
0.3.5.3.5			AS FOLLOWS
0.3.5.3.5.1			V-24298
0.3.5.4	COMPONENT PRESSURIZATION		AS FOLLOWS
0.3.5.4.1			V-26549
		NOTE #3	V-28250
0.3.5.4.2			AS FOLLOWS
0.3.5.4.2.1			V-26549
		NOTE #3	V-28250
0.3.5.4.2.2			V-26549
		NOTE #3	V-28250
0.3.5.4.2.5			V-26549
		NOTE #3	V-28250

(CONTINUED)

H. IU REQUIREMENTS			PROCEDURE NO.
0.3.5.4.2.7		NOTE #3	V-26549 V-28250
0.3.5.4.2.8		NOTE #3	V-26549 V-28250
0.3.5.5	COMPONENT COVER PURGE		AS FOLLOWS
0.3.5.5.1			V-24453
0.3.5.5.1.1			AS FOLLOWS
0.3.5.5.1.1.1			V-24453
0.3.5.5.1.1.2			V-24453
0.3.5.5.1.1.3			V-24453
0.3.5.5.1.1.4			V-24453
0.3.5.5.1.1.5			V-24453
0.3.5.5.1.1.6			V-24453
0.3.5.5.1.1.7			V-24453
0.3.5.5.2			V-24298 V-34017
0.3.6	EMERGENCY DETECTION SYSTEM		AS FOLLOWS
0.3.6.0			V-20146 V-21096
0.3.6.1	AUTOMATIC ABORT		V-20146 V-21096
0.3.6.1.1			V-20146 V-21096
0.3.6.1.2			V-20146 V-21096
0.3.6.1.2.1			V-20146 V-21096
0.3.6.2	AUTOMATIC ABORT INHIBIT		AS FOLLOWS
0.3.6.2.1			V-20146

(CONTINUED)

H. IU REQUIREMENTS		PROCEDURE NO.
		V-21096
0.3.6.2.2		V-21096
0.3.6.3	ENGINE CUTOFF ENABLE	AS FOLLOWS
0.3.6.3.1		V-20146 V-21096
0.3.6.4	ENGINE CUTOFF	AS FOLLOWS
0.3.6.4.1		V-20146 V-21096
0.3.6.5	LV STATUS INDICATIONS	AS FOLLOWS
0.3.6.5.1		V-20146 V-21096
0.3.7	LVDC FINAL FLIGHT PROGRAM	AS FOLLOWS
0.3.7.0		AS FOLLOWS
0.3.7.1		AS FOLLOWS
0.3.7.1.1		V-23199
0.3.7.1.2		V-23199
0.3.7.1.3		V-20120 V-23199
0.3.7.1.4		V-20117
0.3.7.2	TARGET TAPE	AS FOLLOWS
0.3.7.2.1		V-23199
0.3.7.2.2		V-23199

I. L.V. REQUIREMENTS

PROCEDURE NO. CONTR

THE LAUNCH VEHICLE REQUIREMENTS LISTED IN THE FOLLOWING CROSS INDEX ARE REQUIREMENTS, SPECIFICATIONS AND CRITERIA FOR USE AT KSC; AS-206 AND SUBS", FEBRUARY 28, 1972

NOTES

1. THE ECS EQUIPMENT WILL BE OPERATED BY TBC PER PROCEDURES V-36150 AND V-26592, AND AS REQUIRED TO SATISFY THE INDIVIDUAL STAGE CONTRACTOR'S SPECIFICATIONS AND CRITERIA. THE APPROPRIATE STAGE CONTRACTOR WILL BE RESPONSIBLE FOR GENERATING A WAIVER OR CHANGE REQUEST WHEN ADVISED BY TBC OR UPON OBSERVATION THAT A DEVIATION FROM A REQUIRED SPECIFICATION HAS TAKEN PLACE.

2. PROCEDURE OR PROCEDURES SATISFYING THIS REQUIREMENT ARE TO BE DETERMINED WHEN THE FUNCTIONAL INTEGRITY OF THE DAMPING RETRACT AND RECONNECT SYSTEMS ARE INVALIDATED

3. KSC INTENDS TO PROVIDE PROTECTIVE MEASURES WHICH SHALL BE DETERMINED ON A CASE TO CASE BASIS IF WINDS ARE PREDICTED TO EXCEED 53 KNOTS.

4. KSC INTENDS THAT MSFC PREPARE AN ACCESSMENT OF POSSIBLE VEHICLE

(CONTINUED)

I. L.V. REQUIREMENTS

PROCEDURE NO. CONTR

STRUCTURAL DAMAGE IF WINDS HAVE EXCEEDED 53 KNOTS.

5. THIS COLUMN ENTITLED "RESPONSIBLE CONTRACTOR" (RESP. CONTR.) DEFINES THE CONTRACTOR(S) RESPONSIBLE FOR SATISFYING THE CORRESPONDING REQUIREMENT WITHIN THE PROCEDURE IDENTIFIED.

6. THIS TEST REQ. WILL BE SATISFIED BY THE PROCEDURE IDENTIFIED, THE TEST CATALOG SHEET IS BEING REVISED TO REFLECT THIS REQUIREMENT.

7. THE HAZARDOUS GAS DETECTION (HGD) SYSTEM WILL BE OPERATED BY TBC AS REQUIRED TO SATISFY THE INDIVIDUAL STAGE CONTRACTORS SPECIFICATIONS AND CRITERIA. THE APPROPRIATE STAGE CONTRACTOR WILL BE RESPONSIBLE FOR RESOLVING A PROBLEM WHEN ADVISED BY TBC

8. THIS REQUIREMENT DOES NOT APPLY FOR SKYLAB RESCUE MISSION.

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR RESP. CONTR. NOTE #5
TM-011-001-2M		PROCEDURE NO.	
B.1.0	LAUNCH VEHICLE STATUS TEST	AS FOLLOWS	
B.1.1	FLIGHT CONTROL AND GUIDANCE	AS FOLLOWS	
B.1.1.1		AS FOLLOWS	
B.1.1.1.1		AS FOLLOWS	
B.1.1.1.1.1		V-20151	I, D
B.1.1.1.1.2		V-20144	I
		V-20151	I, D
B.1.1.1.1.3		V-20066	D,I
		V-20144	I
	NOTE #6	V-33032	I
	NOTE #6	V-33033	I
B.1.1.1.1.4		V-20066	D,I
		V-20151	I,D
B.1.1.1.1.5		V-20066	D, I
		V-20151	I, D
B.1.1.1.1.6		V-20153	I
B.1.1.1.2		V-20026	I
		V-20120	D
B.1.1.1.3		V-20117	I
		V-20119	I
		V-20120	I
		V-33032	I
		V-33033	I
B.1.1.1.4		AS FOLLOWS	
B.1.1.1.4.1		V-20103	D
		V-20120	D
B.1.2	INSTRUMENTATION	AS FOLLOWS	
B.1.2.1		V-20130	D,I,C

(CONTINUED)

I. L.V. REQUIREMENTS			PROCEDURE NO.	CONTR
B.1.2.1.1			V-20130	I
B.1.2.1.1.1			V-20130	I
B.1.2.1.1.2			V-20130	I
B.1.2.1.1.3			V-20130	I
B.1.2.2			V-27233	I
B.1.2.3			AS FOLLOWS	
B.1.2.3.1			V-20130 V-28051	C I
B.1.2.3.2			V-20130 V-28051	C I
B.1.2.3.3			V-28051	I
B.1.2.3.4			V-20130	C
B.1.3	STRUCTURES		AS FOLLOWS	
B.1.3.1			V-20147 V-24223 V-24543	I I D
B.1.3.2			V-20147 V-24543	I D
B.1.3.3			V-23276	C
B.1.3.4			V-31119 DPS-40060-A41	I D
B.1.3.5			AS FOLLOWS	
B.1.3.5.1		NOTE #6	V-21478	I
B.1.3.5.2		NOTE #6	V-21478	I
B.1.3.5.3		NOTE #6	V-21478	I
B.1.4	ELECTRICAL AND MECHANICAL		AS FOLLOWS	
B.1.4.1	PLUG SUPERVISION		AS FOLLOWS	

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.1.4.1.1		V-20026	I
		V-20101	D, I
		V-21497	I
		V-21513	I
		V-31119	I
		V-31126	I
B.1.4.1.2		V-20106	I
		V-20120	D
		V-20130	D
		V-31126	I
B.1.4.2		V-20130	D
B.1.5	MODE SELECTION AND SEQUENCING	AS FOLLOWS	
B.1.5.1		AS FOLLOWS	
B.1.5.1.1		V-20117	D, I
		V-20120	D
		V-33032	I
B.1.5.1.2		V-20103	D
		V-20117	D, I
		V-20120	D
		V-33032	I
B.1.5.1.2.1		V-20103	D
		V-20117	D, I
	NOTE #6	V-20120	D
		V-33032	I
B.1.5.1.2.2	NOTE #6	V-20117	D
		V-20119	I
		V-33032	I
B.1.5.2		V-20103	D
		V-33032	I
B.1.6	EMERGENCY DETECTION SYSTEM	AS FOLLOWS	
B.1.6.1		AS FOLLOWS	
B.1.6.1.1	AUTOMATIC ABORT	AS FOLLOWS	

(CONTINUED)

I. L.V. REQUIREMENTS			PROCEDURE NO.	CONTR
B.1.6.1.1.1		NOTE #6	V-20101	I
			V-20146	I
			V-21096	I
B.1.6.1.1.2			V-20146	I
			V-21096	I
B.1.6.1.1.3			V-20146	I
			V-21096	I
B.1.6.1.1.4			V-20146	I
			V-21096	I
B.1.6.1.2	AUTOMATIC ABORT INHIBIT		AS FOLLOWS	
B.1.6.1.2.1		NOTE #6	V-20101	I
			V-20146	I
			V-21096	I
B.1.6.1.2.2			V-20146	I
			V-21096	I
B.1.6.1.2.3			V-20146	I
			V-21096	I
B.1.6.1.2.4			V-20146	I
			V-21096	I
B.1.6.1.3	ENGINE CUTOFF ENABLE		AS FOLLOWS	
B.1.6.1.3.1			V-20146	I
			V-21096	I
B.1.6.1.3.2			V-20146	I
			V-21096	I
B.1.6.1.4	ENGINE CUTOFF		AS FOLLOWS	
B.1.6.1.4.1			V-20146	I
			V-21096	I
B.1.6.1.5			AS FOLLOWS	
B.1.6.1.5.1			V-20146	I
			V-21096	I
B.1.6.1.5.2			V-20026	I,D
			V-20146	I

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
		V-21096	I
B.1.7	ENVIRONMENT CONTROL SYSTEM	AS FOLLOWS	
B.1.7.1		AS FOLLOWS	
B.1.7.1.1		NOTE #1	
B.1.7.1.2	NOTE #6	V-20130	I
		V-24391	I
		V-24407	I
		V-24408	I
		V-31119	I
B.1.7.1.3		NOTE #1	D
B.1.7.1.4		NOTE #1	C
B.1.7.1.5		NOTE #1	
B.1.8	RANGE SAFETY	AS FOLLOWS	
B.1.8.1		V-20106	D
		V-20120	D
		V-20130	D
B.1.8.2		V-20130	D
B.1.9	ORDNANCE NETWORKS	AS FOLLOWS	
B.1.9.1		AS FOLLOWS	
B.1.9.1.1		V-20106	C
B.2.0	SIMULATED FLIGHT TESTS	AS FOLLOWS	
B.2.0.1		AS FOLLOWS	
B.2.0.1.1		V-20106	B
		V-20117	I
		V-20120	D
		V-33032	I
B.2.0.1.2		V-20120	I
		V-33032	I

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.2.0.1.3		V-20120 V-33032	I I
B.2.0.1.4		V-20117 V-20120 V-33032	I D I
B.2.0.1.5		V-20120	I
B.2.0.1.6		V-20106 V-20120	B, C, D I
B.3.0	COUNTDOWN DEMOSTRATION TEST	AS FOLLOWS	
B.3.0.1	NOTE #8	V-20130	I, D, C
B.4.0	POST-COUNTDOWN DEMONSTRATION LEAKAGE TEST	AS FOLLOWS	
B.4.0.1	NOTE #8 NOTE #8	V-20130 V-24564	C D
B.5.0	MECHANICAL SYSTEMS	AS FOLLOWS	
B.5.0.1		AS FOLLOWS	
B.5.0.1.1		V-20106	C
B.5.0.1.2		V-20106	C
B.5.0.1.3		V-20106	C
B.5.0.1.4		V-20106	D
B.5.0.1.5		V-20106	D
B.6.0	HYPERGOL PROTECTIVE COVERS	AS FOLLOWS	
B.6.0.1		V-24443 V-24556 V-30610	I D D
B.7.0	REDUNDANT CIRCUITS AND SIMULTANEOUS FUNCTIONS	AS FOLLOWS	
B.7.0.1		V-20025 V-20026	I I

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
		V-20101	D, I
		V-20106	I
		V-20117	I
		V-20146	I
		V-21096	I
		V-21508	C
		V-23281	I
B.7.0.2		V-20025	I
		V-20026	I
		V-20101	I
		V-20103	D
		V-20106	I
		V-20117	I
		V-20146	I
		V-21096	I
		V-21508	C
		V-23281	I
B.8.0	DAMPING RETRACT AND RECONNECT	AS FOLLOWS	
B.8.0.1		V-20109	B
B.8.0.2		V-26333	B
B.8.0.3		V-20109	B
B.8.0.4		NOTE #2	
B.9.0	SURFACE WIND, VELOCITY RESTRICTIONS FOR LAUNCH VEHICLE OPERATIONAL CONDITIONS,	AS FOLLOWS	
B.9.0.1		AS FOLLOWS	
B.9.0.1.1		V-20109	B
B.9.0.1.2		V-20109	B
B.9.0.1.3		V-20130	B
B.9.0.1.3.1	NOTE #6	V-20084	B
B.9.0.1.3.2	NOTE #6	V-20084	B

(CONTINUED)

I. L.V. REQUIREMENTS			PROCEDURE NO.	CONTR
B.9.0.1.3.3		NOTE #6	V-20084	B
B.9.0.1.4			V-20130	B
B.9.0.2			NOTE #3	
B.9.0.3			NOTE #4	
B.10.0	HAZARDOUS GAS ANALYZER SYSTEM		AS FOLLOWS	
B.10.0.1		NOTE #7	V-20130	B
B.10.0.1.1		NOTE #7	V-20130	B
B.10.0.1.2		NOTE #7	V-20130	B
B.10.0.1.3		NOTE #7	V-20130	B
B.10.0.1.4		NOTE #7	V-20130	B
B.11.0	PROPELLANT LEVEL & DEPLETION SENSORS		AS FOLLOWS	
B.11.0.1			V-20132	C
B.11.0.2			V-20127	C
B.11.0.3			V-20127	C
B.11.0.4			V-20130	D
B.12.0	PROPELLANT LOADING		AS FOLLOWS	
B.12.0.1		NOTE #6	V-20127	C
		NOTE #6	V-20128	C
		NOTE #6	V-20132	C, D
		NOTE #6	V-24470	D
B.13.0	TEST AND RETEST AFTER LIGHTNING STRIKE ON LAUNCH VEHICLE/LUT/MSS		AS FOLLOWS	
B.13.0.1			V-20111 V-20130	D, C, I C
B.13.0.1.1			V-20111	C, D, I
B.13.0.1.2			AS FOLLOWS	

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.13.1A.1		AS FOLLOWS	
B.13.1A.1.1	LAUNCH VEHICLE	AS FOLLOWS	
B.13.1A.1.1.1		V-20111	C
B.13.1A.1.1.2		V-20111	C, D, I
B.13.1A.1.1.3		V-20111	C, D, I
B.13.1A.1.1.4		V-20111	C, D, I
B.13.1A.1.1.5		V-20111	C, D, I
B.13.1A.1.1.6		V-20111	C, D,
B.13.1A.1.1.7		V-20111	C, D, I
B.13.1A.1.2	INSTRUMENT UNIT	AS FOLLOWS	
B.13.1A.1.2.1		V-20111	I
B.13.1A.1.2.2		V-20111	I
B.13.1A.1.2.3		V-20111	I
B.13.1A.1.2.4		V-20111	I
B.13.1A.1.2.5		V-20111	I
B.13.1A.1.2.6		V-20111	I
B.13.1A.1.2.7		V-20111	I
B.13.1A.1.3	S-IVB STAGE	AS FOLLOWS	
B.13.1A.1.3.1		V-20111	D
B.13.1A.1.3.2		V-20111	D
B.13.1A.1.3.3		V-20111	D
B.13.1A.1.4	S-IB STAGE	AS FOLLOWS	
B.13.1A.1.4.1		V-20111	C
B.13.1A.1.4.2		V-20111	C

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.13.1A.1.4.3		V-20111	C
B.13.1A.1.4.4		AS FOLLOWS	
B.13.1A.1.4.4.1		V-20111	C, I
B.13.1B.1		AS FOLLOWS	
B.13.1.B.1.1	LAUNCH VEHICLE	AS FOLLOWS	
B.13.1B.1.1.1		V-20111	C, D, I
B.13.1B.1.1.2		V-20111	C, D, I
B.13.1B.1.1.3		V-20111	C, D, I
B.13.1B.1.1.4		V-20111	C, D,
B.13.1B.1.1.5		V-20111	C, D, I
B.13.1B.1.2	INSTRUMENT UNIT	AS FOLLOWS	
B.13.1B.1.2.1		V-20111	I
B.13.1B.1.2.2		V-20111	I
B.13.1B.1.2.3		V-20111	I
B.13.1B.1.2.4		V-20111	I
B.13.1B.1.2.5		V-20111	I
B.13.1B.1.2.6		V-20111	I
B.13.1B.1.2.7		V-20111	I
B.13.1B.1.3	S-IVB STAGE	AS FOLLOWS	
B.13.1B.1.3.1		V-20111	D
B.13.1B.1.3.2		V-20111	D
B.13.1B.1.4	S-IB STAGE	AS FOLLOWS	
B.13.1B.1.4.1	SAME AS B.13.1A.1.4.1		C
B.13.1B.1.4.2	SAME AS B.13.1A.1.4.2		C

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.13.1B.1.4.3	SAME AS B.13.1A.1.4.3		C
B.13.2.1		AS FOLLOWS	
B.13.2.1.1	LAUNCH VEHICLE	AS FOLLOWS	
B.13.2.1.1.1		V-20111	C, D, I
B.13.2.1.1.2		V-20111	C, D, I
B.13.2.1.1.3		V-20111	C, D, I
B.13.2.1.1.4		V-20111	C, D, I
B.13.2.1.1.5		V-20111	C, D, I
B.13.2.1.1.6		V-20111	C, D, I
B.13.2.1.1.7		V-20111	C, D,
B.13.2.1.1.8		V-20111	C, D, I
B.13.2.1.1.9		V-20111	C, D, I
B.13.2.1.2	INSTRUMENT UNIT	AS FOLLOWS	
B.13.2.1.2.1		V-20111	I
B.13.2.1.2.2		V-20111	I
B.13.2.1.2.3		V-20111	I
B.13.2.1.2.4		V-20111	I
B.13.2.1.2.5		V-20111	I
B.13.2.1.2.6		V-20111	I
B.13.2.1.2.7		V-20111	I
B.13.2.1.2.8		V-20111	I
B.13.2.1.2.9		V-20111	I
B.13.2.1.2.10		V-20111	I
B.13.2.1.2.11		V-20111	I

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.13.2.1.2.12		V-20111	I
B.13.2.1.2.13		V-20111	I
B.13.2.1.2.14		V-20111	I
B.13.2.1.2.15		V-20111	I
B.13.2.1.2.16		V-20111	I
B.13.2.1.3	S-IVB STAGE	AS FOLLOWS	
B.13.2.1.3.1		AS FOLLOWS	
B.13.2.1.3.2		V-20111	D
B.13.2.1.3.3		V-20111	D
B.13.2.1.3.4		V-20111	D
B.13.2.1.3.5		V-20111	D
B.13.2.1.4	S-IB STAGE	AS FOLLOWS	
B.13.2.1.4.1		V-20111	C
B.13.2.1.4.2		V-20111	C
B.13.2.1.4.3		V-20111	C
B.13.2.1.4.3.1		V-20111	C
B.13.2.1.4.3.2		V-20111	C
B.13.2.1.4.3.3		V-20111	C
B.13.2.1.4.3.4		V-20111	C
B.13.2.1.4.3.5		V-20111	C
B.13.2.1.4.3.6		V-20111	C
B.13.2.1.4.4		V-20111	C
B.13.2.1.4.5		V-20111	C
B.13.2.1.4.6		V-20111	C

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.13.2.1.4.7		V-20111	C
B.13.2.1.4.8		V-20111	C
B.13.2.1.4.9		AS FOLLOWS	
B.13.2.1.4.9.1		V-20111	C
B.13.3.1		AS FOLLOWS	
B.13.3.1.1	SAME AS B.13.2.1.1		
B.13.3.1.2		AS FOLLOWS	
B.13.3.1.2.1		V-20111	C, I
B.13.3.1.2.2		V-20111	C, I
B.13.3.1.3	SAME AS B.13.2.1.3		
B.13.3.1.4	S-IB STAGE	AS FOLLOWS	
B.13.3.1.4.1		V-20111	C
B.13.3.1.4.2		V-20111	C
B.13.3.1.4.3		V-20111	C
B.14.0	LAUNCH VEHICLE REQUIREMENTS RESULTING FROM MISSION SCRUB/ TURNAROUND.	AS FOLLOWS	
B.14.0.1	S-IB STAGE	AS FOLLOWS	
B.14.0.1.1		V-20130	I, C
B.14.0.1.1.1		V-20130	I, C
B.14.0.1.1.2		V-20130	I, C
B.14.0.1.1.3		V-20130	I, C
B.14.0.1.1.4		V-20130	I, C
B.14.0.1.1.5		V-20130	I, C
B.14.0.1.1.6		V-20130	I, C

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.14.0.1.1.7		V-20130	I, C
B.14.0.1.2		V-20130	I, C
B.14.0.1.2.1		V-20130	I, C
B.14.0.1.2.2		V-20130	I, C
B.14.0.1.2.3		V-20130	I, C
B.14.0.1.2.4		V-20130	I, C
B.14.0.1.2.5		V-20130	I, C
B.14.0.1.2.6		V-20130	I, C
B.14.0.1.2.7		V-20130	I, C
B.14.0.1.2.8		V-20130	I, C
B.14.0.1.2.9		V-20130	I, C
B.14.0.1.2.10		V-20130	I, C
B.14.0.1.2.11		V-20130	I, C
B.14.0.1.2.12		V-20130	I, C
B.14.0.1.2.13		V-20130	I, C
B.14.0.1.2.14		V-20130	I, C
B.14.0.1.2.15		V-20130	I, C
B.14.0.1.2.16		V-20130	I, C
B.14.0.1.2.17		V-20130	I, C
B.14.0.1.2.18		V-20130	I, C
B.14.0.1.2.19		V-20130	I, C
B.14.0.2	S-IVB STAGE	AS FOLLOWS	
B.14.0.2.1		V-20130	I, D, C
B.14.0.3	S-IU STAGE	AS FOLLOWS	

(CONTINUED)

I. L.V. REQUIREMENTS		PROCEDURE NO.	CONTR
B.14.0.3.1		V-20130	I, C
B.14.0.4	SATURN IB LAUNCH VEHICLE	AS FOLLOWS	
B.14.0.4.1		V-20130	I, C
B.14.0.4.1.1		V-20130	I, C
B.14.0.4.1.2		V-20130	I, C
B.14.0.4.1.3		V-20130	I, C
B.14.0.4.1.4		V-20130	I, C
B.14.0.4.2		V-20130	I, C
B.14.0.4.3		V-20130	I, C, D

J. DEVIATIONS FROM DEVELOPMENT CENTER REQUIREMENTS

1. S-IB TEST AND CHECKOUT REQUIREMENTS

NO DEVIATIONS

2. S-VB TEST AND CHECKOUT REQUIREMENTS

A. WAIVER M-D-208-10 PRIMARY AND SECONDARY REGULATOR LOCKUP ON THE APS IN HIGH BAY AND AT THE PAD. (SEE PAGE 122A)

B. WAIVER I-D-208-1 MINIMUM AUDIO OUTPUT LEVEL FOR RANGE SAFETY RECEIVER P/N 50M10697. (SEE PAGE 122B)

3. S-IU TEST AND CHECKOUT REQUIREMENTS

NO DEVIATIONS

4. LAUNCH VEHICLE TEST AND CHECKOUT REQUIREMENTS

NO DEVIATIONS

MDAC-208-WR-07 R1

DEVIATION/WAIVER REQUEST

SHEET 1 OF 1

1. ☒ REAL TIME APPROVAL REQUESTED

2. REQUEST NO. M-D-208-10

3. CONTRACTOR: MCDONNELL DOUGLAS

4. VEHICLE EFFECTIVITY: AS-208

5. CONTRACT NO.: NAS10-7100

6. DOCUMENT	7. TITLE	8. ITEM NO.
1886721	Test and Checkout Requirements,	0.2.4.1.1.2.4.4.1
	Specifications and Criteria at KSC,	0.2.4.1.1.2.4.4.2
	S-IVB-206 & Subs	

9. ☐ AFFECTS OTHER CONTRACTORS (Explain Below)

10. ☐ ALTERNATE SPECIFICATIONS (Explain Below)

11. DESCRIPTION OF DEVIATION/WAIVER

The above requirements perform five (5) cycles of primary and secondary regulator lockup on the APS in High Bay and at the pad.

It is requested that these requirements be waived for High Bay testing.

12. DETAILED REASON WHY REQUIREMENT/SPECIFICATION CANNOT BE MET

These requirements can be met. However, a review of the data derived from the launch processing of AS-512 and AS-206 indicate that the High Bay tests are redundant to those performed at the launch pad, and are not required to fully verify redundant regulator performance and assure mission reliability.

The revised NASA Rescue Mission Schedule requires eliminating ~~redundant~~ REPETITIVE testing to reduce the period of Launch Vehicle Checkout.

13. REMARKS

These requirements were waived for AS-207 per MDAC-207-WR-10.

Coordinated with: C. E. Schroeder, A3, MDAC; S. J. Cristofano, LV-MEC-24

CONTRACTOR: SIGNATURE	OFFICE	DATE	NASA: SIGNATURE	OFFICE	DATE
[illegible]	MDAC	8-3-3	[illegible]	LV-MEC-2	8-3-73
[illegible]	MDAC	8-3-3	[illegible]	LV-MIE	8-3-73
[illegible]	MDAC	8-3-3	(DESIGN REPRESENTATIVE) [illegible]		
[illegible]	MDAC	8-3-3	☒ APPROVED ☐ DISAPPROVED (SEE REMARKS)	KM-SAT	8-3-73

MDAC-208-WR-09

DEVIATION/WAIVER REQUEST		SHEET 1 OF 1
1. ☐ REAL TIME APPROVAL REQUESTED		2. REQUEST NO. 1-D-208-1
3. CONTRACTOR McDonnell Douglas Astronautics Co.	4. VEHICLE EFFECTIVITY AS-208	5. CONTRACT NO. NAS10-7100

6. DOCUMENT	7. TITLE	8. ITEM NO.
1B86721	TEST & CHECKOUT REQUIREMENTS,	2.1.1.1.1
	SPECIFICATIONS AND CRITERIA AT KSC	

9. ☐ AFFECTS OTHER CONTRACTORS (Explain Below)	10. ☐ ALTERNATE SPECIFICATIONS (Explain Below)

11. DESCRIPTION OF DEVIATION/WAIVER

Request that the minimum audio-output level of 0.9 Vrms with an rf-input of -87 dbm, 450 MH_z, 30 kH_z deviation and 30 kH_z modulation frequency be waived to accept a value of 0.84 Vrms for R.S. Receiver P/N 50M10697, S/N 134, and 0.87 Vrms for S/N 153 at a test temperature of +55°C.

Ref: DR-1-1756 against TCP V-28236-Orig.

12. DETAILED REASON WHY REQUIREMENT/SPECIFICATION CANNOT BE MET

Both receivers (S/Ns 134 & 153) exhibited a change in sensitivity at high temperature (+55°C) resulting in a reduced audio output below the required 0.9 Vrms minimum.

13. REMARKS

The receivers passed all other requirements of shelf-life extension testing at ambient, -35°C, and +55°C. The out-of-tolerance audio output at +55°C will not affect the ability of the receivers to perform their normal operating function within the Range Safety System.

Approved [signature] LV-INS 7/26/73

Coordinated with J. Bizzell, LVO-INS-11; and with L. T. Kail, A3-253

CONTRACTOR: SIGNATURE	OFFICE	DATE	NASA SIGNATURE	OFFICE	DATE
[signature]	MDAC	7-17-73	[signature]	DR-1-1756	7-16-73
[signature]	MDAC	7-17-73	[signature]	LV-INS	7/26/73
[signature]	MDAC	7-18-73	(DESIGN REPRESENTATIVE) [signature]		7-26-73
[signature]	MDAC	7-18-73	☒ APPROVED	☐ DISAPPROVED (SEE REMARKS)	

PART II

EXPLANATION OF TEST LISTINGS

THE FOLLOWING PAGES CONTAIN A LISTING OF THE APPROVED TEST CATALOG SHEETS FOR AS-208.

THE LISTING FOR EACH CATALOG SHEET IS COMPOSED OF FOUR PARTS:

PART 1 - TEST NUMBER

PART 2 - STAGE CONTRACTOR RESPONSIBILITY CODE

B - THE BOEING COMPANY

C - THE CHRYSLER CORPORATION

D - MC DONNELL DOUGLAS ASTRONAUTICS COMPANY

I - INTERNATIONAL BUSINESS MACHINES CORPORATION

X - NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

PART 3 - TEST TITLE

PART 4 - TEST CATALOG SHEET REVISION

BLANK - ORIGINAL ISSUE

(REV.) - LATEST REVISION

EXAMPLE:	PART 1	PART 2	PART 3	PART 4
	V-20032	D	LV ORDNANCE INSTALLATION IN THE VAB	(REV. F)

A. PLANNED TESTS AND OPERATIONS:

THE FOLLOWING LISTING PRESCRIBES THE PLANNED TESTS AND OPERATIONS FOR THE AS-208 LAUNCH VEHICLE. TEST CATALOG SHEETS WILL BE FOUND IN THE CATALOG OF TESTS IN NUMERICAL ORDER. REVISION LEVEL OF THE TEST CATALOG SHEET SHOULD BE CLOSELY OBSERVED IN THE LISTING.

V-20025	I	ELECTRICAL INTERFACE MATE TEST (ESE-GSE) (REV. D)
V-20026	I	SPACE VEHICLE ELECTRICAL INTERFACE MATE TEST (REV. I)
V-20061	I	FUNCTIONAL, POLARITY, MEAS CALIB S-IVB CTRL RELAY PKG AND FCC IV CURRENT (REV. D)
V-20063	I	END TO END POLARITY TEST (CTC6) (REV. E)
V-20064	I	TILT AND ROLL PROGRAM CHECK (REV. B)
V-20066	I	APS GAIN TEST (CTC5) (REV. F)
V-20084	B	LAUNCH VEHICLE STRAIN MEASUREMENTS IN HIGH WINDS
V-20101	B	SATURN IB LAUNCH VEHICLE ELECTRICAL SYSTEMS TEST (REV C)
V-20103	B	SATURN IB LAUNCH VEHICLE MALFUNCTION OVERALL TEST (REV F)
V-20104	B	SATURN IB PROPELLANT NETWORKS/VEHICLE INTERFACE VERIFICATION
V-20105	B	SATURN IB LSE ELECTROMECHANICAL SYSTEMS TEST (REV. A)
V-20106	B	SATURN IB SERVICE ARM OVERALL TEST (REV. B)
V-20107	B	SATURN IB FULL MEASURING SYSTEM QUALIFICATION TEST (REV. B)
V-20108	B	VAB MOBILE LAUNCHER 1 LOX AND FUEL LEAK CHECKS (REV C)
V-20109	B	SATURN IB LAUNCH VEHICLE CONTROL PROCEDURE FOR TRANSFER OF S/V TO THE PAD (REV. A)
V-20110	B	SATURN IB LAUNCH VEHICLE CONTROL PROCEDURE FOR RETURN OF S/V TO THE VAB (REV. A)
V-20112	B	SATURN IB PAD MOBILE LAUNCHER LOX AND FUEL LEAK CHECKS (REV. C)
V-20114	B	SATURN IB LAUNCH VEHICLE PROPELLANT SIMULATED LOADING (REV. A)
V-20117	B	SATURN IB LAUNCH VEHICLE OPERATIONS FOR SPACE VEHICLE OVERALL TEST #1 (PLUGS IN) (REV F)
V-20118	B	SATURN IB MOBILE LAUNCHER SLUG INSTALLATION
V-20119	B	SATURN IB BACKUP GUIDANCE SIMULATED FLIGHT TEST (REV B)
V-20120	B	SATURN IB LAUNCH VEHICLE OPERATIONS FOR FLIGHT READINESS TEST (REV. C)
V-20121	D	LAUNCH VEHICLE ORDNANCE INSTALLATION IN VAB (REV. B)
V-20126	B	LV COUNTDOWN SIMULATION
V-20127	B	SATURN IB RP-1 LOADING OPERATIONS (REV. B)
V-20128	B	SATURN IB RP-1 REPLENISH AND LEVEL ADJUST OPERATIONS (REV. B)

(CONTINUED)

A. PLANNED TESTS AND OPERATIONS:

V-20129	B	SATURN IB RP-1 DRAIN OPERATIONS (REV. A)
V-20130	B	SATURN IB LAUNCH VEHICLE OPERATIONS IN SUPPORT OF SPACE VEHICLE COUNTDOWN DEMONSTRATION TEST AND LAUNCH COUNTDOWN (REV E)
V-20132	B	SATURN IB LAUNCH VEHICLE AUTOMATIC AND MANUAL LOX/LH2 LOADING AND DRAIN OPERATIONS (REV C)
V-20144	I	END TO END POLARITY TEST (CTB6) (REV. A)
V-20146	I	LAUNCH VEHICLE EDS TEST (SATURN IB) (REV. A)
V-20147	I	SPACECRAFT/LAUNCH VEHICLE MATE & DEMATE (SATURN IB)
V-20148	I	FUNCTIONAL, POLARITY, AND MEASURING CALIBRATION OF S-IVB CRP AND FCC IV CURRENT (SATURN IB)
V-20149	I	TILT AND ROLL PROGRAM CHECK (SATURN IB) (REV. A)
V-20150	I	FLIGHT CONTROL SYSTEM FREQUENCY RESPONSE TEST (SATURN IB)
V-20151	I	FLIGHT CONTROL SYSTEMS GAIN TEST (CTB1) (REV. B)
V-20153	I	G2 GAIN & CONTROL ACCELEROMETER UNEARITY TEST (CTB7) (REV. B)
V-21002	B	LUT NETWORKS CABLE CONFIGURATION VERIFICATION (REV C)
V-21020	B	EMER BACKUP BATTY CYCLING TEST PROC
V-21022	B	END TO END INDUST WATER SYS CALIBRATION LC/39A&B (REV. F)
V-21023	B	ECS VEH COMPARTMENT & LAUNCHER DUCT TEMP PROB RESISTANCE CHECKS/LC-39A&B (REV. C)
V-21075	D	LIQUID LEVEL SENSOR CALIBRATION, HEAT EXCHANGER - MODEL 438 (REV. E)
V-21084	D	PROPELLANT UTILIZATION CALIBRATION, S-IVB FLIGHT STAGE (REV. J)
V-21096	I	EMERGENCY DETECTION SYSTEM OVERALL AND COUNTDOWN TEST (REV. G)
V-21152	B	LUT NETWORKS POST-LAUNCH AND POWER SYSTEMS CHECKOUT (REV. D)
V-21153	B	VERIFICATION OF HYDRAULIC CHARGING UNIT ELEC SYS (REV. A)
V-21162	B	S-II FWD SERVICE ARM ELECTRICAL FUNC CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. C)
V-21163	B	S-IVB FWD SERVICE ARM ELECTRICAL FUNC CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. C)
V-21164	B	S-IVB FWD SERVICE ARM ELECTRICAL FUNC CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. C)
V-21165	B	SVC MODULE SERVICE ARM ELECTRICAL FUNC CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. C)
V-21166	B	COMMAND MODULE SERVICE ARM ELECTRICAL FUNC CHECKOUT AND SUPPORT FOR MECHANICAL TEST (REV. C)
V-21174	B	SERVICE ARM, TAIL SERVICE MAST, AND LAUNCHER ACCESSORY CABLE CHECKOUT
V-21176	B	FIRING CIRCUIT AND SACS SUBSYSTEM CHECKOUT (REV. C)
V-21194	B	LAUNCH SUPPORT EQUIPMENT POWER ON AND OFF (REV. B)
V-21214	I	LCC POWER LAMP MONITOR CALIBRATIONS (REV. H)

(CONTINUED)

A. PLANNED TESTS AND OPERATIONS:

V-21222	I	AUXILIARY DAILY POWER ON PROCEDURE (REV. D)
V-21223	I	IU POWER APPLICATION/REMOVAL (REV. H)
V-21243	I	PRIMARY LAUNCH VEHICLE SUPPORT (REV. E)
V-21255	I	SWITCH SELECTOR VEHICLE TEST (REV. E)
V-21258	I	DEE-6 OPERATIONAL SUPPORT (REV. D)
V-21260	D	ESE QUALIFICATION TEST - LOW BAY (REV. F)
V-21262	D	S-IVB POWER SETUP PROCEDURE (REV. E)
V-21266	D	BATTERY DISCHARGE (REV. B)
V-21272	B	CALIBRATION OF ARM POSITION SENSORS - SERVICE ARMS 1 THRU 9 - LSE ELECTRICAL PREPARATION
V-21274	I	COUNTCLOCK AND TIMING SYSTEM PREPARATION (REV. F)
V-21277	I	DEE-6C PREVENTIVE MAINTENANCE (REV. C)
V-21285	I	LCC IU LAMP MONITOR CALIBRATIONS (REV. C)
V-21292	B	PNEUMATIC SYSTEM ELECTRICAL FUNCTIONAL CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. B)
V-21301	D	RELAY, DIODE AND CIRCUIT BREAKER TEST. (REV. F)
V-21323	D	FLIGHT BATTERY ACTIVATION 1A68317 AFT NO. 2 (REV. I)
V-21324	D	FLIGHT BATTERY ACTIVATION. 1A59741 (REV. I)
V-21326	B	MOBILE LAUNCHER NETWORKS CABLE & DISTRIBUTOR VERIFICATION CHECKS (REV. A)
V-21327	B	LUT NETWORKS TEST SETS PERIODIC CALIBRATION & INSPECTION (REV. C)
V-21333	B	POWER SUPPLY SLUG INST.
V-21334	B	POWER SUPPLY SLUG REMOVAL
V-21349	B	ECS ELECT EQUIP CHECKOUT TEST/VAB HB-1 (REV. B)
V-21363	B	SA/TSM/LA REDUNDANT HARDWIRE CIRCUITS C/O (REV. C)
V-21371	I	IU ESE SYSTEM HARDLINE SAFING FUNCTIONAL TEST (REV. H)
V-21380	D	ESE INSTRUMENTATION QUALIFICATION - S-IVB LOW BAY (REV. D)
V-21386	B	MOTOR - GENERATOR TEST & MAINT (REV. A)
V-21391	B	GROUND POWER 28 VDC CHRISTIE POWER SUPPLY FUNCTIONAL TEST
V-21392	B	GROUND POWER 28 VDC, 10 AMPERE, PERKIN POWER SUPPLY FUNCTIONAL TEST
V-21393	B	GROUND POWER 28 VDC, 50-200 AMPERE, PERKIN POWER SUPPLY FUNCTIONAL TEST
V-21394	B	GROUND POWER 30-66 VDC PERKIN POWER SUPPLY FUNCTIONAL TEST
V-21395	B	GROUND POWER 56 VDC POWER SUPPLY FUNCTIONAL TEST
V-21400	I	IU-ESE PERIODIC PREVENTIVE MAINTENANCE (REV. A)
V-21409	B	ENVIRONMENTAL CONTROL SYSTEM FACILITY MEASUREMENTS CALIBRATION/LCC (REV. A)
V-21413	D	VEHICLE BATTERY MONITORING (REV. G)
V-21434	B	INDUSTRIAL WATER SYSTEM METER CALIBRATION/LC-39 A & B, LCC (REV. B)
V-21435	D	SPECIAL VERIFICATION PROCEDURE S-IVB - 509 (REV. B)
V-21440	B	INDUSTRIAL WATER SYSTEM ELECTRICAL MAINT TEST
V-21441	B	ENVIRONMENTAL CONTROL SYSTEM MEASURING SUBSYSTEMS CALIBRATION/LC-39 A & B (REV A)

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A. PLANNED TESTS AND OPERATIONS:

V-21445	B	LUT NETWORKS HAZARDOUS PURGE VERIFICATION (REV. A)
V-21447	B	DRRS ELECTRICAL CHECKOUT FOR MECHANICAL SYSTEMS TEST
V-21448	I	KSC DATA DISPLAY, INS HARDLINE, AND HOLDFIRE/PROCEED CHECKOUT PROCEDURE (REV. C)
V-21458	I	GROUND ELECTRICAL INITIAL CHECKOUT PROCEDURE (REV. D)
V-21478	I	ELECTRICAL BONDING OF COMPONENTS (REV. B)
V-21479	I	IU BATTERY ACTIVATION, MONITORING AND DISCHARGE (REV. C)
V-21496	D	TEST PROCEDURE - REWORKED WIRE HARNESS
V-21497	I	IU VEHICLE NETWORKS PRE-POWER CHECKS (REV. A)
V-21498	D	APS ELECTRICAL INTERFACE COMPATIBILITY TEST, S-IB (REV. A)
V-21500	C	S-IB STAGE LAUNCH CONTROL CENTER METER AND RECORDER CALIBRATIONS (REV. B)
V-21501	C	TERMINAL COUNTDOWN SEQUENCER FUNCTIONAL TEST (REV. A)
V-21502	C	LUT AND LAUNCHER ESE CABLE VERIFICATION (REV. A)
V-21503	C	HARDWIRE CABLE CONNECTION VERIFICATION FR-3/ML-1 (REV. A)
V-21504	C	SATURN 1B LOX CAVITY SEAL SENSOR FUNCTIONAL TEST (REV. B)
V-21505	C	RELAY MODULE, DIODE MODULE, TIMER RELAY AND CIRCUIT BREAKER TEST SET OPERATION (REV. B)
V-21506	C	LUT-1 ESE REFURBISHMENT PROCEDURE (REV. A)
V-21507	I	IU SAFETY WIRING PROCEDURE (REV. B)
V-21508	C	S-IB HARDWIRE FUNCTIONAL TEST (REV. C)
V-21509	C	S-IB ESE FURBISHMENT - FIRING ROOM 3 (REV. B)
V-21510	C	S-IB ESE CABLE VERIFICATION - FIRING ROOM 3 (REV. A)
V-21513	I	IU PLUG VERIFICATION TEST (REV. B)
V-21514	C	LUT & LAUNCHER USE CABLE VERIFICATION (REV. D)
V-21515	C	LSE REFURBISHMENT PROCEDURE (REV. E)
V-21516	C	HDA EXPLOSIVE RELEASE SYSTEM QUALIFICATION TEST
V-21517	C	HOLDDOWN ARM RELEASE LIMIT SWITCH ADJUSTMENT (REV. B)
V-21518	C	S-IB INITIAL POWER APPLICATION (REV. A)
V-21519	C	S-IB STAGE NETWORKS VERIFICATION TEST (REV. E)
V-21520	C	S-IB STAGE CONNECTOR VERIFICATION (REV. A)
V-21522	C	S-IB OAT SYSTEM INSTALLATION AND FUNCTIONAL TEST
V-21523	C	PREVENTIVE MAINTENANCE - TEST EQUIPMENT - ESE (REV. A)
V-21524	C	ESE REDUNDANT RELAY FUNCTIONAL CHECK (REV. B)
V-21525	C	LSE REDUNDANT RELAY FUNCTIONAL CHECK (REV. A)
V-21526	C	PREVENTIVE MAINTENANCE OF AIRBORNE/OAT TEST EQUIPMENT (REV. A)
V-21527	I	IU CABLE CONDITIONING (REV. A)
V-21528	C	CALIBRATION OF VOLTAGE MONITOR AND BATTERY SWITCHING CIRCUITS
V-21529	D	FLIGHT BATTERY ACTIVATION, 1A83469 FWD, NO. 2, S-IB (REV. B)
V-21530	D	FLIGHT BATTERY ACTIVATION, 1A83470 AFT, NO. 1, S-IB (REV B)

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A. PLANNED TESTS AND OPERATIONS:

V-21531	D	FLIGHT BATTERY ACTIVATION, 1A83471 AFT. NO. 2, S-IB
V-21532	I	TEST EQUIPMENT CHECKOUT PROCEDURE (REV. D)
V-21533	D	ESE VERIFICATION TEST - POST LAUNCH
V-21534	D	HIGH BAY QUALIFICATION (S-IVB/S-IB)
V-21535	D	LOW BAY POWER SETUP
V-21536	D	BATTERY SUBSTITUTE VERIFICATION (S-IVB/S-IB)
V-21537	D	VEHICLE INTERFACE COMPATIBILITY TEST
V-21538	D	S-IB ELECTRICAL SUBSYSTEM CHECKOUT (AUTOMATIC) (REV. A)
V-21539	D	S-IVB PAD QUAL AND HARDWIRE VERIFICATION
V-21540	D	S-IVB ENGINE VALVE SOLENOID RESISTANCE AND ISOLATION TESTS
V-21543	B	INDUSTRIAL WATER SYSTEM ELECTRICAL SUBSYSTEM FUNCTIONAL
V-21546	C	RANGE SAFETY CONTROLLER (LABORATORY COMPONENT TEST) (REV. B)
V-21553	I	MOBILE LAUNCHER TRANSFER (REV. A)
V-21554	C	CALIBRATION OF THE PREMATURE IGNITION MONITOR CIRCUIT
V-21556	C	ESE TIME DELAY RELAY IN CIRCUIT TEST AND CALIBRATION
V-21557	B	ML-1 LUT NETWORKS CABLE CONFIGURATION VERIFICATION
V-21559	I	DEE-6 SYSTEMS FUNCTIONAL CHECKOUT AND VEHICLE SUPPORT
V-21564	I	INDUCED VOLTAGE DETECTORS, VEHICLE & GROUND; INSTALLATION, OPERATION AND MAINTENANCE (REV. A)
V-21565	B	LUT NETWORKS ML-1 PURGE VERIFICATION
V-21567	B	FIRING CIRCUIT AND SACS SUBSYSTEM CHECKOUT FOR ML-1
V-21568	B	SERVICE ARM CONTROL SWITCH CALIBRATION
V-21570	C	S-IB LUT NETWORKS HAZARDOUS PURGE VERIFICATION
V-21573	B	LUT NETWORKS POST-LAUNCH AND POWER SYSTEMS CHECKOUT ML-1
V-21582	C	S-IB STAGE EBW PULSE SENSOR CHECKOUT PROCEDURE
V-22005	I	GROUND COMPUTER OPERATIONAL PROGRAM CHECKOUT (REV. A)
V-22006	I	GROUND COMPUTER DAILY/TEST OPERATIONS (REV. D)
V-22013	I	GROUND COMPUTER - PRE-MAJOR EVENT; SYSTEM READY CONFIRMATION CHECK (REV. B)
V-22014	I	PRE-VEHICLE ERECTION (REV. D)
V-23025	I	FLIGHT CONTROL COMPUTER UNIT TEST (REV. C)
V-23028	I	INTEG CONTROL/EDS RATE GYRO & CONTROL SIGNAL PROCESSOR TEST (REV. B)
V-23030	I	CONTROL EDS RATE GYRO & CONT SIGNAL PROCESSOR SUBSYSTEM TEST (CTC4) (REV. H)
V-23048	I	FUNCTIONAL TEST OF THE ST-124M STABILIZED PLATFORM SYSTEM IN THE VEHICLE (REV. E)
V-23049	I	ST-124 STABILIZED PLATFORM SYSTEM COMPLEX CABLE CHECKOUT (REV F)
V-23059	I	REFERENCE PRISM AZIMUTH CHECK - LONG RANGE AUTOMATIC AZIMUTH ALIGNMENT THEODOLITE (REV. E)
V-23062	I	VALIDATION PROCEDURE - LONG RANGE AUTOMATIC AZIMUTH ALIGNMENT THEODOLITE (REV E)

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A. PLANNED TESTS AND OPERATIONS:

V-23066	I	AZIMUTH LAYING SYSTEM FUNCTIONAL TEST (REV. G)
V-23068	I	ST-124M STABILIZED PLATFORM SLIP RING EXERCISE (REV. G)
V-23124	D	STATIC TEST & POSITION MEASURING CALIBRATION HYDRAULIC ACTUATOR, S-IVB/V (REV. B)
V-23125	D	COMBINED ENGINE TRAVEL CLEARANCE CHECK AND DIFFERENTIAL PRESSURE FEEDBACK TEST, HYDRAULIC ACTUATOR, S-IVB/V (REV. E)
V-23137	D	APS LAB SIGNATURE RECORDING SYSTEM, VERIFICATION (REV. B)
V-23153	I	CONTROL/EDS RATE GYRO AND CONTROL SIGNAL PROCESSOR POWER VERIFICATION, RAMP GENERATOR, AND MEASURING CALIBRATION (REV. J)
V-23155	I	CONTROL/EDS RATE GYRO AND CONTROL SIGNAL PROCESSOR POLARITY TEST (REV. E)
V-23160	I	FLIGHT CONTROL COMPUTER RAMP GENERATOR CALIBRATION (REV. C)
V-23169	I	FLIGHT CONTROL COMPUTER COMPARATOR TEST (CTC3) (REV. F)
V-23178	I	SAT. V HOLDDOWN ARM MEASUREMENT (REV. D)
V-23179	I	GUIDANCE CONSOLE CALIBRATION TEST (REV. A)
V-23180	I	LVDC/LVDA INITIAL POWER ON TEST (REV. B)
V-23197	I	CONTROL-EDS RATE GYRO WHEEL SPEED TEST (REV. A)
V-23199	I	AUTOMATIC LVDC/LVDA MULTIPLE INTERFACE CHECKOUT AND UTILITY PROCEDURE (REV. E)
V-23214	I	FINAL PRE-VEHICLE INSTALLATION LAUNCH VEHICLE DIGITAL COMPUTER (LVDC) MEMORY PROGRAM LOAD, USING ASTEC LTE COMPLEX.
V-23230	I	ACCELEROMETER LOGIC ESE VALIDATION
V-23235	I	VALIDATION - CABLE CHECKOUT, INTERRUPT, AND BREAKOUT BOXES (REV. B)
V-23237	I	VALIDATION PROCEDURE - OSCILLOGRAPH (REV. A)
V-23239	I	ASTEC LTE CALIBRATION AND PREVENTIVE MAINTENANCE PROCEDURE
V-23240	I	ASTEC PREFLIGHT LABORATORY TEST
V-23241	I	LAUNCH VEHICLE DATA ADAPTER (LVDA) RECEIVING INSPECTION
V-23242	I	LAUNCH VEHICLE DIGITAL COMPUTER (LVDC) RECEIVING INSPECTION
V-23243	I	LAUNCH VEHICLE DIGITAL COMPUTER (LVDC) LAUNCH VEHICLE DATA ADAPTER (LVDA) ASTEC COMPATIBILITY I
V-23245	I	LAUNCH VEHICLE DATA ADAPTER (LVDA) PREPARATION FOR IU INSTALLATION
V-23246	I	TEMPERATURE - MODULATOR (TEMP-MOD) PURGE AND FILL WITH COOLANT
V-23252	I	LAUNCH VEHICLE DIGITAL COMPUTER (LVDC) PREPARATION FOR IU INSTALLATION

(CONTINUED)

A. PLANNED TESTS AND OPERATIONS:

V-23253	I	ASTEC FLIGHT MONITOR
V-23259	C	READINESS CHECKS OF S-IB FLIGHT CONTROL TEST EQUIPMENT (REV. B)
V-23260	C	VISUAL INSPECTION AND FUNCTIONAL TEST OF SPARE S-IB HYDRAULIC ACTUATOR IN LABORATORY
V-23261	C	S-IB HYDRAULIC ACTUATOR POTENTIOMETER LAB INSPECTION AND CHECKOUT (REV. A)
V-23262	C	S-IB FLIGHT CONTROL POST ERECTION OPERATIONS
V-23263	C	INSTALLATION AND REMOVAL OF S-IB ACTUATOR HOLDING FIXTURES
V-23264	C	S-IB HYDRAULIC ACTUATOR VISUAL INSPECTION AND ELECTRO-MECHANICAL STATIC TEST
V-23266	C	S-IB STAGE HYDRAULIC ACTUATOR SYSTEM FUNCT TEST (REV A)
V-23267	C	S-IB HYDRAULIC ACTUATOR POSITION MEASURING CALIBRATION
V-23268	C	S-IB STAGE ACTUATOR POSITION CALIBRATION DATA LOAD
V-23269	C	S-IB ACTUATOR DIFFERENTIAL PRESSURE FEED-BACK AND ACTUATOR STICTION TEST
V-23275	C	MATING AND ALIGNMENT OF THE S-IB STAGE TO LAUNCHER
V-23276	C	MEASURE SATURN IB STAGE ALIGNMENT. (REV. C)
V-23278	I	FLIGHT CONTROL COMPUTER UNIT TEST
V-23279	I	FLIGHT CONTROL COMPUTER REDUNDANCY TEST (CTB2)
V-23281	I	FLIGHT CONTROL COMPUTER SUBSYSTEM TEST (REV. A)
V-23284	I	CONTROL COMPUTER FUNCTIONAL TEST
V-23287	I	CONTROL ACCELEROMETER UNIT TEST
V-23289	I	SATURN IB HOLDDOWN ARM ALIGNMENT (REV A)
V-23290	I	S-IB DATUM PLANE A
V-24086	D	LEAK CHECK PROCEDURE, THERMO-CONDITIONING SYSTEM, FORWARD SKIRT (REV. D)
V-24098	D	S-IVB HYDRAULIC SYSTEM CHECKOUT (REV. F)
V-24182	D	ACCESS KIT, VERTICAL, FWD SKIRT INSTALLATION (REV. B)
V-24183	D	COVER, PROTECTIVE, FORWARD DOME, S-IVB, INSTALLATION (REV. C)
V-24193	D	SATURN S-IVB/V PROPELLANT TANK PURGE - P.U. SYSTEM CALIBRATION (REV. B)
V-24201	D	CHECKOUT OF APS FUEL CONTROL CART, MODEL 472 (REV. C)
V-24202	D	CHECKOUT OF APS OXIDIZER CONTROL CART, MODEL 473 (REV. C)
V-24223	I	IU TRANSPORTATION, ERECTION AND MATING (REV E)
V-24228	I	IU PNEUMATIC & TCS TEST (REV. J)
V-24263	D	AFT INTERSTAGE UNLOADING, TRANSPORTATION (REV. F)
V-24273	D	ACCESS KIT, VERTICAL, FLARED AFT INTERSTAGE, DSV-4B, INSTALLATION (REV. B)
V-24276	D	FLIGHT ELECTRICAL BOX LEAK CHECK (REV. F)
V-24298	I	IU PNEUMATIC SYSTEM LP TEST (REV. E)
V-24299	I	IU PNEUMATIC SYSTEM HP TEST (REV. F)
V-24305	D	APS GSE SYSTEMS FLUSH AND PURGE (REV. D)
V-24341	D	SATURN S-IVB/V PROPELLANT TANK PURGE AND SAMPLING (REV C)

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A. PLANNED TESTS AND OPERATIONS:

V-24344	D	SATURN S-IVB/V UMBILICAL QUICK DISCONNECT LEAK CHECKS (REV. K)
V-24357	D	COVER, PROTECTIVE, FORWARD, S-IVB/V (REV. F)
V-24369	D	UMBILICAL CARRIER, FORWARD, EJECT AND REINSTALLATION (REV. C)
V-24370	D	UMBILICAL CARRIER - AFT, EJECT AND REINSTALLATION (REV. D)
V-24373	D	UMBILICAL CARRIER-AFT, INITIAL INSTALLATION (REV. D)
V-24374	D	UMBILICAL CARRIER INSTALLATION, FORWARD INITIAL (REV. C)
V-24389	D	S-IVB HYDRAULIC SYSTEM CHECKOUT - LOW BAY (REV. C)
V-24391	I	IU WATER SYSTEM GN2 TEST (REV. D)
V-24402	D	INSTALLATION GSE QUICK DISCONNECTS, PROPULSION (REV. E)
V-24404	D	SPECIAL TESTS - STRUCTURAL/MECHANICAL (REV. B)
V-24407	I	IU/S-IVB TCS FILL (REV. D)
V-24408	I	AIR ENTRAINMENT AND BLADDER POSITIONING (REV. C)
V-24421	D	LONG-TERM STORAGE - IN-STORAGE MONITORING (REV. C)
V-24422	I	M/L OAT BOOM TRANSPORTATION HOISTING, INSTALLATION AND REMOVAL (REV. A)
V-24426	D	RECEIVING INSPECTION - DEVELOPMENT ENGINEERING - SATURN IB (REV. A)
V-24427	D	SATURN S-IVB STAGE AND GSE VACUUM MONITORING (REV. B)
V-24429	D	STAGE UNLOADING AND TRANSPORTATION, DSV-4B, AIR CARRIER - KSC (REV. B)
V-24435	I	IU TCS GN2 TEST (REV. A)
V-24436	D	INSTALLATION, LH2 TANK DOOR (REV. A)
V-24437	I	Q-BALL INSTALLATION AND REMOVAL (REV. B)
V-24443	I	PREPARATION OF IU PRIOR TO HYPERGOLIC LOADING (REV. A)
V-24445	I	IU WATER ACCUMULATOR FILL (REV. A)
V-24446	D	SATURN IB DESICCANT SYSTEM, AIR CARRY, DSV-4B/IB (REV. A)
V-24447	D	SATURN IB DESICCANT SYSTEM
V-24449	D	DSV-4B/IB STAGE ERECTION AND INSTALLATION LOW BAY - VAB (REV. A)
V-24452	I	INSTRUMENT UNIT OFFLOADING (REV. B)
V-24453	I	LVDC/LVDA COVER PURGE SET-UP (REV. A)
V-24454	I	GN2 SAMPLING TEST (REV. B)
V-24455	D	DEVELOPMENT ENGINEERING PRE-STORAGE INSPECTION AND STAGE PREPARATIONS, DSV-4B/SATURN IB, KSC (REV. A)
V-24462	D	SATURN S-IVB/IB PROPULSION SUBSYSTEM CHECKOUT (REV E)
V-24464	D	J-2 ENGINE LOX TURBOPUMP, REMOVAL AND REINSTALLATION - S-IVB
V-24465	D	STORAGE HANDLING OF S-IVB/IB APS MODULES
V-24467	D	SATURN S-IVB/IB APS MODULE STANDBY (REV. B)

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A. PLANNED TESTS AND OPERATIONS:

V-24468	D	APS SUBSYSTEM CHECKOUT, S-IVB/IB (REV. E)
V-24469	D	APS CHECKOUT, STAGE MOUNTED, S-IVB/IB (REV. E)
V-24470	D	APS PROPELLANT LOADING, S-IVB/IB (REV. H)
V-24471	D	APS PROPELLANT UNLOADING, S-IVB/IB (REV. B)
V-24473	D	INSPECTION - DEVELOPMENT ENGINEERING - SATURN IB (REV. B)
V-24475	C	S-IB/S-IVB MATING
V-24476	C	LOX PUMP SEAL CAVITY CONTAMINATION CHECK
V-24477	C	TURBOPUMP TORQUE TEST
V-24478	C	O.D. CONFIGURATION CHECK AND ACCESS DOOR DROP TEST (REV. A)
V-24479	C	CONTROL PRESSURE HIGH PRESSURE OK PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24480	C	CONTROL PRESSURE REGULATED PRESSURE OK (750 PSIG OK) PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24481	C	FUEL PRESSURIZATION SPHERES HIGH PRESSURE OK PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24482	C	LOX PRESSURIZING AND RELIEF PRESSURE SWITCH AND GROUND LOX VENT PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24483	C	FUEL CONTAINER PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24484	C	GAS GENERATOR AND TURBINE EXHAUST SYSTEM LEAKAGE TEST (REV. A)
V-24485	C	FUEL ADDITIVE BLENDER UNIT FUNCTIONAL AND LEAKAGE TEST (REV. B)
V-24486	C	GAS GENERATOR CONTROL VALVE FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24487	D	S-IVB/IB AND SATURN V AFT INTERSTAGE INSTALLATION INTO STORAGE, MONITORING AND REMOVAL FROM STORAGE (REV. A)
V-24488	D	STAGE INSTALLATION INTO VERTICAL STORAGE, HIGH BAY, DSV-4B/SATURN IB, KSC
V-24489	D	APS - MODULE HANDLING, S-IVB/IB - KSC
V-24491	C	BARGE OFF-LOAD AND LOAD PROCEDURE S-IB ROAD TRANSPORTATION PROCEDURE
V-24492	C	ERECTION PREPS AND FIN INSTALLATION (REV. A)
V-24493	C	OPTICAL ALIGNMENT TARGETS INSTALLATION AND REMOVAL (REV. B)
V-24494	C	STAGE ERECTION AND FIN INSTALLATION ON TRANSFER AISLE (REV. A)
V-24495	C	STAGE ERECTION ON LAUNCH PLATFORM
V-24497	C	INSPECTION AND CORROSION CONTROL OF S-IB STAGE (STANDBY) (REV B)
V-24498	C	REMOVAL OF ENVIRONMENTAL PROTECTION EQUIPMENT (REV. A)
V-24499	C	S-IB STAGE GN2 CONTROL PRESSURE SYSTEM AND CALORIMETER PURGE SYSTEM FUNCTIONAL AND LEAKAGE TEST. (REV D)
V-24500	C	LOX VENT VALVE AND LOX RELIEF VALVE CONTROL SYSTEMS FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24501	C	FUEL VENT VALVE CONTROL SYSTEM AND FUEL PRESSURIZING SYSTEM FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24502	C	H-1 ENGINE HYDRAULIC SYSTEM FUNCTIONAL AND LEAKAGE TEST (REV. B)

(CONTINUED)

A. PLANNED TESTS AND OPERATIONS:

V-24503	C	GEARCASE AND LUBRICATION SYSTEM LEAKAGE TEST (REV. D)
V-24504	C	FUEL SYSTEM LEAKAGE TEST (REV. B)
V-24505	C	LOX SYSTEM LEAKAGE TEST (REV. A)
V-24506	C	MAIN FUEL VALVE AND IGNITION MONITOR VALVE FUNCTIONAL AND LEAKAGE TEST (REV. B)
V-24507	C	SIMULATED FULL PRESSURE TEST (REV. A)
V-24508	C	THRUST OK PRESSURE SWITCH FUNCTIONAL AND LEAKAGE TEST (REV. B)
V-24509	C	PURGE/QUENCH VALVES FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24510	C	ENGINE CONTROL SYSTEM FUNCTIONAL AND LEAKAGE TEST (REV. D)
V-24511	C	ENGINE SYSTEMS AND THRUST CHAMBER LEAK TEST (REV. B)
V-24512	C	FUEL FILL AND DRAIN AND LOX FILL AND DRAIN VALVES CONTROL SYSTEMS FUNCTIONAL AND LEAKAGE TEST
V-24513	C	ENGINE PURGE SYSTEMS FUNCTIONAL AND LEAKAGE TEST (REV. B)
V-24514	C	S-IB HEATER FUNCTIONAL TEST
V-24516	C	GOX FLOW CONTROL VALVE FUNCTIONAL AND LEAKAGE TEST (REV. A)
V-24517	C	S-IB STAGE SECURING FOR MOVEMENT TO THE PAD (REV. B)
V-24518	C	S-IB SECURING FOR HYPERGOL FLOW
V-24519	C	FABU SERVICE CART, FUNCTIONAL TEST OF FABU FILL AND DRAIN, PROCEDURE (REV. A)
V-24520	C	PREPARATIONS FOR LOADING RP-1 (REV C)
V-24521	C	THRUST CHAMBER JACKET FILL (REV. A)
V-24522	C	S-IB STAGE PREPARATION FOR COUNTDOWN DEMONSTRATION AND LAUNCH (REV E)
V-24523	C	PRELAUNCH ELECTRO-MECHANICAL TEST (REV. B)
V-24525	C	FUNCTIONAL AND LEAKAGE TEST - THRUST OK PRESSURE SWITCH CHECKOUT CONSOLE (REV. A)
V-24526	C	TM COMPONENTS PRESSURIZATION
V-24534	C	SATURN IB STAGE ENGINE CLEARANCE TEST (REV. A)
V-24535	C	CONTROL SPHERE REPLENISH AND BLOW-DOWN TEST
V-24536	D	S-IVB/V/IB STAGE VENT & RELIEF VALVES CRACK & RESEAT VERIFICATION (REV. D)
V-24540	D	FILL AND SAMPLE, S-IVB HYDRAULIC SYSTEM, LOW BAY
V-24541	D	STAGE PREPARATIONS, S-IVB/IB, TRANSFER TO VAB HIGH BAY (REV. B)
V-24542	D	STRUCTURAL/MECHANICAL, S-IVB/IB; PRECOUNT PREPARATIONS
V-24543	D	STAGE INSTALLATION, S-IVB/IB, HIGH BAY-VAB
V-24545	D	ACCESS KIT VERTICAL CONSTANT AFT INTERSTAGE DSV-IVB/IB INSTALLATION
V-24547	D	SPECIAL TESTS - PROPULSION
V-24548	D	SATURN S-IVB/IB J2 ELECTRICAL CONTROL ASSEMBLY FUNCTIONAL TEST - LOW BAY (REV C)

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A. PLANNED TESTS AND OPERATIONS:

V-24549	D	SATURN S-IVB/IB J2 ELECTRICAL CONTROL ASSEMBLY FUNCTIONAL TEST - HIGH BAY/PAD (REV. A)
V-24550	D	SATURN S-IVB/IB PROPULSION SUBSYSTEM VALVE TIMING AND PRESSURE SWITCH CHECKOUT (REV. A)
V-24552	D	MISCELLANEOUS SCHEDULED PROPULSION TASKS (REV. B)
V-24553	D	SATURN S-IVB/IB STAGE METER AND RECORDER CALIBRATIONS
V-24554	D	SATURN S-IVB/IB ENGINE SEQUENCE TEST (REV A)
V-24556	D	HYPERGOL PROTECTION, S-IVB STAGE - IB
V-24560	D	HAZARDOUS GAS SYSTEM, LEAK AND FLOW CHECK, S-IVB/IB, KSC
V-24561	I	IU PNEUMATIC SYSTEM LP BLEED DOWN TEST (REV. A)
V-24562	D	STAGE PREPARATION, ORDNANCE INSTALLATION AND TRANSPORTATION TO PAD, SATURN IB
V-24563	D	SATURN S-IVB/IB PROPULSION SYSTEMS PREFLIGHT PREPARATION
V-24564	D	SATURN S-IVB/IB PROPULSION SUBSYTEM AND GSE POST LOADING CHECKOUT (REV A)
V-24565	D	STAGE REMOVAL FROM VERTICAL STORAGE AND INSTALLATION INTO LOW BAY, DSV-4B/SAT IB, KSC
V-25002	B	RP-1 SAMPLING (REV. D)
V-25004	B	RP-1 STORAGE AREA CHECK VALVE LEAK TEST (REV. C)
V-25006	B	RP-1 DISCONNECT REMOVAL (REV. B)
V-25007	B	RP-1 STORAGE TANK HOLDING
V-25009	B	RP-1 RECIRCULATION THROUGH FILTER SEPARATORS (REV. B)
V-25010	B	RP-1 PRESSURE SWITCH TEST [41180-S] (SV SUPPORT) (REV. B)
V-25011	B	RP-1 TEMP SWITCH TEST [41180-AK] (SV SUPPORT) (REV. B)
V-25012	B	RP-1 STOR AREA PNEUMATIC LEAK AND FUNCTIONAL TEST [41160-W] (SV SUPPORT) (REV. B)
V-25013	B	TRANSFER SYSTEM LEAK CHECK (REV. E)
V-25014	B	RP-1 LEVEL ADJUST VALVE TEST
V-25015	B	RP-1 TRANSFER LINE FILTER STRAINER ELEMENT REPLACEMENT (REV. A)
V-25016	B	RP-1 STOR AREA PURGE SYS C/O [41180-X] (SV SUPPORT) (REV. B)
V-25019	B	RP-1 STORAGE AREA RELIEF VALVE TEST (REV. B.)
V-25020	B	LH2 SYSTEM STORAGE AREA CHECKVALVE CHECKOUT (REV. B)
V-25021	B	LH2 STOR TANK PRESS SWITCH C/O [43082-AP] (SV SUPPORT) (REV. B)
V-25023	B	LH2 STORAGE AREA RELIEF VALVE CHECKOUT
V-25025	B	LH2 SYS VAPORIZER VALVE C/O [43082-G] (SV SUPPORT) (REV. B)
V-25026	B	LH2 REPL VALVES CHECKOUT/ML [43082-MB] (SV SUPPORT)
V-25028	B	LH2 ML PNEUMATIC LEAK & FUNCTIONAL TEST (REV. C)
V-25029	B	LH2 STOR AREA PURGE SYSTEM LEAK TEST [43082-K] (SV SUPPORT) (REV. C)
V-25030	B	LH2 ML PURGE SYS LEAK TEST [43082-MD] (SV SUPPORT)
V-25032	B	LH2 SYSTEM VACUUM JACKETED COMPONENT EVACUATION (REV. C)
V-25033	B	LH2 SYSTEM V/J COMPONENT PRESSURE CHECK (REV. C)

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A. PLANNED TESTS AND OPERATIONS:

V-25034	B	LH2 STORAGE TANK FILL AND DRAIN (REV. B)
V-25036	B	LH2 STORAGE TANK PRESSURIZATION TEST [43082-A] (SV SUPPORT) (REV. C)
V-25037	B	LH2 DISCONNECT MECHANISM TEST (REV. B)
V-25042	B	LH2 BURN POND CHECKOUT (REV. B)
V-25044	B	LH2 STORAGE TANK LEVEL SYSTEM CHECKOUT (REV. B)
V-25076	B	DATA TRANSMISSION SYSTEM (DTS) INTEGRATION, LAUNCH CONTROL CENTER (LCC) PAD TERMINAL CONNECTIONS ROOM (PTCR) (REV. A)
V-25077	B	DTS DAILY OPERATIONS/SELF CHECK (REV. B)
V-25078	B	DIGITAL EVENTS EVALUATOR DEE-3 SELF CHECK (REV. A)
V-25141	B	LH2 H/L PRESSURE SWITCH CHECKOUT [43082-ME] (SV SUPPORT)
V-25142	B	LH2 DISCONNECT REMOVAL [43082-AL] (SD SUPPORT) (REV. B)
V-25143	B	RP-1 STORAGE TANK RELIEF VALVE AND PRESSURIZATION TEST [41180-V] (SV SUPPORT) (REV. B)
V-25146	B	LH2 DISCONNECT INSTALLATION (REV. E)
V-25153	B	LIQUID HYDROGEN MOBILE LUANCHER CHECK VALVE CHECKOUT (REV. A)
V-25154	B	LIQUID HYDROGEN MOBILE LAUNCHER FILTER ELEMENT REPLACEMENT (REV. A)
V-25160	B	DTS/DEE SYSTEM PAD SECURING [40093-1AA] (SV SUPPORT) (REV. B)
V-25167	B	PTCS VALVE CONTROL ASSY INTEGRATION TEST [40093-1AB] (SV SUPPORT) (REV. A)
V-25171	B	DIGITAL EVENTS EVALUATOR (DEE) SYSTEM INTEGRATION (REV. A)
V-25172	B	FUNC TEST OF LUT PROPELLANTS 28 VDC CONTROL CIRCUITS [40093-1AE] (SV SUPPORT) (REV. B)
V-25173	B	PROPELLANT ELECTRICAL & CONTROL SYSTEM (E&CS) SYS PANEL METER CALIBRATION/CERTIFICATION (REV. A)
V-25177	B	RP-1 STORAGE AREA COMPONENT LEAK TEST [41180-R] (SV SUPPORT) (REV. C)
V-25186	B	LH2 STORAGE AREA PNEUMATIC LEAK & FUNCTIONAL TEST/PAD B [43082-J] (REV. B)
V-25188	B	LH2 STORAGE AREA LEAK CHECK (REV. C)
V-25252	B	LOX BY-PASS SYSTEM CONTROL LOOP CHECKOUT/PAD B (REV D)
V-25260	B	LOX GN2 PURGE SYS. LEAK CHECK/ML [43080-MD] (SV SUPPORT) (REV. A)
V-25271	B	LOX SYS REPLENISH PUMP TEST/PAD B (REV. D)
V-25274	B	LOX PROPEL. VALVE CONTROL ASSEMBLY C/O/ML [43080-MF] (SD SUPPORT) (REV. A)
V-25276	B	LOX SYS. MECH. PREPS AND SECURING FOR SIMULATED FLOW/PAD B (REV. C)
V-25279	B	LIQUID OXYGEN PREPS FOR VEHICLE LOADING/PAD B/ML #1 (REV. C)
V-25281	B	LOX SYS SECURING AFTER LOX LOADING AND DRAINING/PAD B/ML #1 (REV C)

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A. PLANNED TESTS AND OPERATIONS:

V-25284	B	TOTAL LOX SYS. DEW POINT/PAD B/ML #1 (REV. C)
V-25301	B	RP-1 MOBILE LAUNCHER GAGE & TRANSDUCER CALIBRATION (REV. C)
V-25312	B	LOX SYSTEM GENERAL MAINTENANCE (REV. D)
V-25318	B	LOX SYS PRESSURE SWITCH C/O/PAD A [43080-B] (SV SUPPORT) (REV. C)
V-25320	B	LOX SYS RELIEF VALVE C/O/PAD A [43080-J] (SV SUPPORT (REV. C)
V-25323	B	LOX VAPORIZER CONTROL LOOP CHECKOUT (REV. C)
V-25325	B	LOX STORAGE AREA PURGE SYS LEAK CHECK/PAD A [43080-N] (SV SUPPORT) (REV. C)
V-25326	B	LOX STORAGE AREA GN2 LEAK TEST/PAD A [43080-E] (SV SUPPORT) (REV. C)
V-25330	B	LOX STORAGE TANK PRESSURIZATION TEST/PAD A [43080-F] (SD SUPPORT) REV. C)
V-25332	B	LOX SYS. SERVICE TOWER ALIGNMENT MECHANISM C/O/PAD A [43080-AF] (SD SUPPORT) (REV. C)
V-25334	B	ML TO SERVICE TOWER DISCONNECT INSTALLATION/PAD A [43080-AL] (SD SUPPORT) (REV. D)
V-25338	B	LIQUID OXYGEN REPLENISH PUMP SYSTEM MAINTENANCE (REV. C)
V-25341	B	LOX SYSTEM DISCONNECT MOBILE LAUNCHER TO SERVICE TOWER/PAD A [43080-AQ] (SD SUPPORT) (REV. D)
V-25347	B	LOX SYS SECURING AFTER VEHICLE LAUNCH/PAD B/ML #1 (REV. B)
V-25353	B	PROPELLANT NETWORKS METER CALIBRATION (REV. B)
V-25355	B	RP-1 SYSTEM INSTRUMENTATION CALIBRATION (REV. C)
V-25364	B	LIQUID HYDROGEN SYSTEM INTEGRATION LAUNCH CONTROL CENTER (LCC)/PAD TERMINAL CONNECTION ROOM (PTCR)/STORAGE AREA [43082-U] (SV SUPPORT) (REV. B)
V-25373	B	PROPELLANTS AND GASES 28 VDC POWER SYSTEM CALIBRATION [40093-1AK] (REV. C)
V-25386	B	POST LAUNCH PROPELLANT NETWORK SECURING (REV. C)
V-25405	B	DIGITAL EVENTS EVALUATOR (DEE-3) OPERATIONAL CONFIGURATION CONTROL PROCEDURE
V-25409	B	PROPELLANT D.C. POWER SYSTEM INTEGRATION (LCC/PTCR) (REV. B)
V-25411	B	RP-1 LEVEL ADJUST VALVE TEST - ML #1.
V-25412	B	RP-1 MOBILE LAUNCHER PNEUMATIC LEAK & FUNCTIONAL TEST
V-25413	B	RP-1 MOBILE LAUNCHER COMPONENT CHECKOUT AND LEAK CHECK (REV. A)
V-25414	B	RP-1 DISCONNECT INSTALLATION
V-25415	B	RP-1 SYSTEM SUPPORT FOR SIMULATED TESTS
V-25416	B	RP-1 DISCONNECT REMOVAL
V-25417	B	RP-1 MOBILE LAUNCHER PNEUMATIC VALVE LEAK TEST
V-25420	B	LOX STORAGE AREA PNEUMATIC SYSTEM LEAK AND VALVE FUNCTIONAL CHECK/PAD B

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A. PLANNED TESTS AND OPERATIONS:

V-25421	B	LOX SYSTEM ML #1 PNEUMATIC LEAK AND VALVE FUNCTIONAL TEST
V-25422	B	LOX SYSTEM GN2 LEAK TEST - ML #1 (REV. A)
V-25423	B	LOX SYSTEM TO S-IB LOX SERVICE MAST CONNECTION (REV. A)
V-25424	B	LOX SYSTEM TO S-IB LOX SERVICE MAST DISCONNECTION (REV. A)
V-25427	B	LOX SYSTEM/DEE INTERFACE VERIFICATION - PAD B (REV. A)
V-25428	B	LIQUID OXYGEN SYSTEM INTEGRATION LAUNCH CONTROL CENTER (LCC)/PAD TERMINAL CONNECTION ROOM (PTCR) - PAD B (REV. A)
V-25429	B	LOX INTEGRATION LCC/PTCR/STORAGE AREA - PAD B (REV. A)
V-25433	B	LIQUID HYDROGEN DIGITAL EVENTS EVALUATION INTERFACE VERIFICATION (REV. A)
V-25434	B	LIQUID HYDROGEN SYSTEM INTEGRATION LAUNCH CONTROL CENTER (LCC)/PAD TERMINAL CONNECTION ROOM (PTCR)
V-25435	B	LH2 SYSTEM INSTRUMENTATION CALIBRATION (REV. A)
V-25436	B	RP-1 SYSTEM INTEGRATION LAUNCH CONTROL CENTER (LCC)/PAD TERMINAL CONNECTION ROOM (PTCR) (REV. A)
V-25437	B	RP-1 DIGITAL EVENT EVALUATION INTERFACE VERIFICATION (REV. A)
V-25438	B	RP-1 SYSTEM INTEGRATION (LCC)PTCR/STORAGE AREA) (REV. A)
V-25439	B	PROPELLANT NETWORKS (ESE) LOADING PREPS (REV. A)
V-25440	B	S-IB PROPELLANT TANKING COMPUTER SYSTEM CHECKOUT AND INTEGRATION
V-25441	B	SKYLAB II PROPELLANT TANKING COMPUTER SYSTEM PREPS FOR PROPELLANT LOADING
V-25442	B	S-IVB PROPELLANT TANKING COMPUTER SYSTEM CHECKOUT AND INTEGRATION (REV. A)
V-25443	B	RP-1 SYSTEM PREPARATIONS FOR LOADING OPERATIONS
V-25444	B	S-IB LOX FILL LINE COLD SHOCK - ML #1
V-25446	B	LOX SYSTEM INSTRUMENTATION CALIBRATION
V-25447	B	PROPELLANTS PTCR SIMULATOR OPERATIONS
V-26002	D	SATURN S-IVB/V PNEUMATIC CONSOLES AND HEAT EXCHANGER PRE-LAUNCH CHECKOUT (REV. E)
V-26003	D	SATURN S-IVB/V UMBILICAL LINES LEAK CHECK AND BLOWDOWN (REV. H)
V-26033	B	COMMAND MODULE SERVICE ARM LCC INTEGRATION TEST [40009-EA] [TSI 39-305] (REV. A)
V-26034	B	COMMAND MODULE SERVICE ARM SYSTEM FUNCTIONAL TEST [40009-EB] [TSI 39-306] (REV. A)
V-26037	B	COMMAND MODULE SERVICE ARM ENVIRONMENTAL CHAMBER FUNCTIONAL TEST (REV. A)
V-26038	B	COMMAND MODULE SERVICE ARM RETRACT SYSTEM COMPONENT PRESSURE & BLEED TEST [40009-ED] [TSI 39-308] (REV. A)
V-26040	B	COMMAND MODULE SERVICE ARM ENVIRONMENTAL CHAMBER PNEUMATIC SYSTEM PRESSURE TEST [40009-EF] [TSI-39-310] (REV A)

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A. PLANNED TESTS AND OPERATIONS:

V-26062	B	S-IVB AFT SERVICE ARM WITHDRAWAL SYSTEM COMPONENT TEST [40009-CE] [TSI 39-287] (REV. B)
V-26064	B	HYDRAULIC DISTRIBUTION SYSTEM LCC INTEGRATION TEST [40092-1BF]
V-26109	B	ENVIRONMENTAL CONTROL SYSTEM PURGE GN2 SUB-SYSTEM CHECKOUT/LC-39A & B [43083-G] [TSI 39-582] (REV. C)
V-26113	B	ENVIRONMENTAL CONTROL SYSTEM CONTROL GN2 SUB-SYSTEM CHECKOUT/LC-39A & B [43083-L] [TSI 39-586] (REV. C)
V-26133	B	SERVICE MODULE SERVICE ARM-LCC INTEGRATION TEST [40009-DA] [TSI 39-299]
V-26138	B	SERVICE MODULE SERVICE ARM WITHDRAWAL PNEUMATIC COMPONENT TEST [40009-DE] [TSI 39-303]
V-26165	B	INDUSTRIAL WATER SYSTEM PAD PERIODIC MAINTENANCE/LC-39A (REV. B)
V-26186	B	S-IVB FORWARD SERVICE ARM EXTENSION PLATFORM SUB-SYS TEST [40009-CN] [TSI 39-295]
V-26196	B	SAT V VEHICLE PRIMARY DAMPING SYS-LCC INTEGRATION TEST [43085-A] [TSI 39-684]
V-26197	B	SAT V VEHICLE PRIMARY DAMPING SYS FUNCTIONAL TEST (REV. A)
V-26198	B	SAT V VEHICLE PRIMARY DAMPING SYS COMPONENT PRESSURE & BLEED TEST [43085-B] (REV. A)
V-26203	B	INDUSTRIAL WATER SYSTEM HYDROPNEUMATIC TANK T-1 AND T-2 FILL & PRESSURE CHECK/LC-39A & B [43081-J] (SD SUPPORT) (REV. C)
V-26217	B	SERV. MOD. DELUGE PURGE PANEL FUNCTIONAL TEST (REV. A)
V-26218	B	SERV. MOD. DELUGE PURGE SYSTEM OPERATIONAL TEST/ML [40093-1AP] (REV. C)
V-26223	B	PERIODIC INSPECTION & MAINTENANCE FOR PNEUMATIC DISTRIBUTION SYSTEM (REV. B)
V-26261	B	INDUS. WATER SYS PERIODIC MAINT/ML (REV. A)
V-26323	B	SAT V VEHICLE AUX. DAMPING SYS COMPONENT PRESS. AND BLEED TEST [43085-C]
V-26324	B	SAT V VEHICLE AUX. DAMPING SYS. OPERATION [43085-D] (REV. A)
V-26333	B	AUXILIARY DAMPING SYSTEM DAILY OPERATION [43085-E] (REV. C)
V-26336	B	COMMAND MODULE ACCESS ARM ENVIRONMENTAL CHAMBER OPERATION (REV. A)
V-26380	B	S-IVB FWD SERVICE ARM RETRACT SYS VALID TEST [40009-CS] (REV. A)
V-26382	B	S-IVB AFT SERVICE ARM RETRACT SYS VALID TEST [40009-CT] (REV. A)
V-26384	B	SERVICE MODULE SERVICE ARM RETRACT SYS VALID TEST [40009-DG] [TSI 39-707] (REV. A)
V-26390	B	S-IVB FWD SERVICE ARM WITHDRAWAL SYS VALID TEST [40009-CU] (REV. A)

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A. PLANNED TESTS AND OPERATIONS:

V-26394	B	ENVIRONMENTAL CONTROL SYSTEM (ECS) ELECTRO-MECHANICAL COMPONENTS CHECKOUT/LC-39A&B (REV. B)
V-26396	B	SATURN V HURRICANE PROCEDURE PRIMARY AND AUXILIARY DAMPING SYSTEMS
V-26414	B	ENVIRONMENTAL CONTROL SYSTEM CHECKOUT AND FUNCTIONAL TEST/VAB HB-1 (TOWER E) (REV. A)
V-26433	B	SERVICE MODULE SERVICE ARM WITHDRAWAL SUBSYSTEM FUNCTIONAL TEST (LCC CONTROL) (40009-DM)
V-26434	B	SERVICE ARMS AND DAMPENING RETRACT RECONNECT SYSTEM LIMIT SWITCHES ADJUSTMENTS
V-26435	B	SERVICE ARMS, DAMPENING RETRACT - RECONNECT SYSTEM AND HYDRAULIC CHARGING UNIT PRESSURE SWITCHES ADJUSTMENTS (REV. A)
V-26436	B	PNEUMATIC PRECHARGE OF SERVICE ARM ACCUMULATORS AND SHOCK ABSORBERS
V-26442	B	SATURN V PRIMARY DAMPING SYSTEM - REMOVAL AND/OR REINSTALLATION PREPARATIONS AND SECURING
V-26443	B	ENVIRONMENTAL CONTROL SYSTEM DAILY OPERATIONS/VAB HB-1 (TOWER E) (REV. A)
V-26446	B	SERVICE ARM SYSTEMS - CORROSION CONTROL OF STAINLESS STEEL TUBING AND PIPE
V-26448	B	COMMAND MODULE ACCESS ARM - REMOVAL AND/OR REINSTALLATION PREPARATIONS AND SECURING
V-26458	B	ENVIRONMENTAL CONTROL SYSTEM EQUIPMENT PREVENTIVE MAINTENANCE OPERATIONS/LC-39 A&B
V-26460	B	MOBILE SERVICE STRUCTURE/VAB "A" PLATFORM SUPPORT FOR THE COMMAND MODULE S/A ENVIRONMENTAL CHAMBER (REV. A)
V-26462	B	SERVICE MODULE DELUGE PURGE PANEL VAB ELECTRO-MECHANICAL TEST/LCC (REV. A)
V-26479	B	POST LAUNCH REFURBISHMENT FOR PNEUMATIC DISTRIBUTION SYSTEM (REV. A)
V-26480	B	COMMAND MODULE SERVICE ARM EXTEND OPERATIONS (IN-TRANSIT)
V-26481	B	SERVICE ARM ECS DUCTS CLAMP TORQUING PROCEDURE (REV. A)
V-26483	B	POST-LAUNCH REFURBISHMENT FOR THE HYDRAULIC (REV. B)
V-26485	B	SERVICE ARM WATER GLYCOL AND WATER METHANOL FITTINGS TORQUING PROCEDURE
V-26486	B	INPLACE CALIBRATION OF SERVICE ARM PRESSURE GAGES
V-26491	I	GSCU FILL, DRAIN, AND COOLANT TRANSFER (REV. C)
V-26492	I	ORNITE SAMPLING (REV. C)
V-26494	I	IU PNEUMATIC CONSOLE FUNCTIONAL TEST (REV. B)
V-26501	B	MAINTENANCE OPERATIONS, SERVICE ARMS AND ASSOCIATED ELECTRICAL SYSTEMS
V-26502	B	LUT NETWORKS PREVENTIVE MAINTENANCE - TAIL SERVICE MASTS, HOLDDOWN ARMS AND SERVICE ARM CONTROL SWITCHES
V-26503	B	LUT NETWORKS PREVENTIVE MAINTENANCE - LUT DISTRIBUTORS AND CABLES

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A. PLANNED TESTS AND OPERATIONS:

V-26506	D	ELECTRONIC EQUIPMENT ENCLOSURES POSITIVE PRESSURE VALIDATION (REV. A)
V-26514	C	S-IB/LC39 ENGINE SERVICE PLATFORM (ESP) MAINTENANCE (REV. A)
V-26515	C	FIRING ACCESSORY REFURBISHMENT (REV. C)
V-26516	C	S-IB/LC39 ENGINE SERVICE PLATFORM OPERATION (REV. A)
V-26529	C	PROPELLANT MAST INSTALLATION AND QUALIFICATION TEST (REV. A)
V-26531	C	SHORT CABLE MAST INSTALLATION AND QUALIFICATION TEST (REV. A)
V-26532	C	S-IB HOLDDOWN ARM QUALIFICATION TEST (REV. C)
V-26533	C	VACUUM PUMP P/M AND CHECKOUT
V-26538	C	S-IB FIRING ACCESSORIES AND HOLDDOWN ARM PREVENTIVE MAINTENANCE (REV. A)
V-26544	B	SERVICE ARM ECS DUCT INSTRUMENTATION REMOVAL AND REINSTALLATION
V-26548	I	IU CORROSION INSPECTION (REV. A)
V-26549	I	EQUIPMENT PRESSURIZATION (REV C)
V-26552	C	LAUNCH PAD ESP TRANSPORTER OPERATIONS (REV. A)
V-26554	C	PNEUMATIC SYSTEM QUALIFICATION TEST (REV. B)
V-26555	C	GSE DELUGE PURGE SYSTEM QUALIFICATION TEST (REV. A)
V-26556	C	GSE PRESSURE SWITCH FUNCTIONAL (REV. A)
V-26557	B	ENVIRONMENTAL CONTROL SYSTEM VAB TOWER E MAINTENANCE
V-26560	B	S-IB SERVICE ARM CONTROL SWITCH REFURBISHMENT
V-26561	C	PNEUMATIC POST LAUNCH PURGE (REV. B)
V-26562	C	INSPECTION AND LUBRICATION OF GROVE MODEL 401-F REGULATORS
V-26564	C	PMP FOR STAINLESS STEEL TUBING, FITTINGS AND VALVE PANELS
V-26565	B	INDUSTRIAL WATER SYSTEM PAD PNEUMATIC CHECKOUT - PAD B
V-26566	B	INDUSTRIAL WATER SYSTEM PAD LINE FILL AND PRESSURE CHECK/LC-39B
V-26567	B	INDUSTRIAL WATER SYSTEM PAD VALVE CHECKOUT/LC-39B
V-26568	C	PREVENTIVE MAINTENANCE HUCK POWER PAC W/GUNS (REV. A)
V-26569	C	PREVENTIVE MAINTENANCE S-IB ERECTION HARDWARE (REV. A)
V-26570	C	PREVENTIVE MAINTENANCE FIN ERECTION PLATFORMS & HANDLING SLINGS PREVENTIVE MAINTENANCE FIN HANDLING TO ERECTION HARDWARE (REV. A)
V-26571	C	PREVENTIVE MAINTENANCE - THRUST CHAMBER THROAT PLUG (REV. A)
V-26572	C	PREVENTIVE MAINTENANCE FIN TRANSPORTER (REV. A)
V-26573	C	PREVENTIVE MAINTENANCE ENGINE REMOVAL EQUIPMENT (REV. A)
V-26574	B	INDUSTRIAL WATER SYSTEM SUB-SYSTEM FUNCTIONAL TEST LC-39B (REV. A)
V-26575	B	INDUSTRIAL WATER SYSTEM PAD BOOSTER PUMP CHECKOUT
V-26577	C	PREVENTIVE MAINTENANCE ORONITE CHARGER (REV A)

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A. PLANNED TESTS AND OPERATIONS:

V-26578	C	HYDRAULIC SERVICER (REV. A)
V-26588	C	IN-PLACE FUNCTIONAL VERIFICATION OF GAGES (REV. A)
V-26589	C	STANDARD OPERATING PROCEDURE FOR THE PNEUMATIC SYSTEM (REV. A)
V-26590	C	S/A NO. 1A QUICK RELEASE HOUSING INSTALLATION (S-IB) (REV. A)
V-26591	B	ENVIRONMENTAL CONTROL SYSTEM FUNCTIONAL TEST/LC-39B
V-26592	B	ECS DAILY OPERATIONS/LC-39B
V-26593	C	TEST GUAGE PANEL ASSEMBLIES CLEANLINESS INSPECTION OF PRIOR TO PRE-LAUNCH CHECKOUT (PREVENTIVE MAINTENANCE)
V-26594	C	FLEXIBLE HOSE ASSEMBLIES INSPECTION
V-26595	C	PREVENTIVE MAINTENANCE GSE SHOP EQUIPMENT (REV. A)
V-26598	B	S-IB FORWARD SERVICE ARM - LCC INTEGRATION TEST (REV. A)
V-26599	B	INDUSTRIAL WATER SYSTEM ML #1 SUB-SYSTEM FUNCTIONAL AND LAUNCH CONFIGURATION TEST (REV A)
V-26600	B	INDUSTRIAL WATER SYSTEM ELECTRO-MECH TEST/LC-39B (REV A)
V-26601	B	INDUSTRIAL WATER SYSTEM LINE FILL AND CHECKOUT TEST/ML #1
V-26602	B	INDUSTRIAL WATER SYSTEM VALVE CHECKOUT TEST/ML #1 (REV. A)
V-26603	B	STANDARD OPERATING PROCEDURE FOR THE LUT #1 PNEUMATIC DISTRIBUTION SYSTEM
V-26605	B	S-IB FORWARD SERVICE ARM RETRACT SYSTEM VALIDATION TEST (REV. A)
V-26609	B	S-IB FORWARD SERVICE ARM KICKOFF AND WITHDRAWAL COMPONENT TEST (REV. A)
V-26615	B	S-IVB AFT SERVICE ARM-LCC INTEGRATION (MOBILE LAUNCHER 1 ONLY)
V-26616	B	S-IVB FORWARD SERVICE ARM-LCC INTEGRATION TEST (MOBILE LAUNCHER 1 ONLY)
V-26617	B	S-IVB AFT SERVICE ARM EXTENSION PLATFORM SUBSYSTEM TEST (REV A)
V-26620	B	S-IB FWD CARRIER KICKOFF AND WITHDRAWAL TEST
V-26622	B	SERVICE ARM PRESSURE HOLD TEST
V-26627	C	PREVENTATIVE MAINTENANCE, ENGINE TRICH FLUSH SYSTEM
V-26629	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL MV173K NASA DWG 75M02802 (REV A)
V-26630	C	FUNCTIONAL TEST OF ANNIN MANUAL VALVE, MODEL 4510-1 NASA DRAWING 75M50306-2
V-26631	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL MV-123K, ANSA DRAWING NO 10425/01-2
V-26632	C	FUNCTIONAL TEST OF ANNIN MANUAL VALVE MODEL 6510T, NASA DRAWING NO 75M50304
V-26633	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL MV-174K NASA DRAWING NO. 75M01351-2
V-26634	C	FUNCTIONAL TEST OF SIGMA-NETICS PRESSURE SWITCHES NASA DRAWING NO. 75M51766

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A. PLANNED TESTS AND OPERATIONS:

V-26635	C	FUNCTIONAL TEST OF GROVE PRESSURE REGULATOR MODEL 2018, NASA DRAWING NO. 75M01356
V-26636	C	FUNCTIONAL TEST OF CUSTOM COMPONENT PRESSURE SWITCH, NASA DRAWING NUMBER 10430405
V-26637	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL MV130 NASA DRAWING NUMBER 10437739-2
V-26638	C	FUNCTIONAL TEST OF MELETRON PRESSURE SWITCHES, NASA DRAWING NUMBER 75M50728
V-26641	C	PNEUMATIC SYSTEM LOW VOLTAGE E-M TEST
V-26642	I	GSCU & FCVB OPERATIONAL VERIFICATION TEST
V-26643	I	*IU PNEUMATIC CONSOLE OPERATIONAL VERIFICATION TEST
V-26644	C	FUNCTIONAL TEST OF RELIEF VALVE, CIRCLE SEAL, SERIES 5100 NASA DRAWING NO. 75M02172 AND 10430079
V-26645	C	FUNCTIONAL TEST OF FLUID MECHANICS (MISSION MFG) RELIEF VALVE SERIES 448-TG-2A, NASA DWG. NO. 10430216-5, -12, -13, -14, AND -18
V-26646	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL PVM555M-30 NASA DWG NO. 75M51262
V-26647	C	FUNCTIONAL TEST OF MANUAL VALVE; ROBBINS, 250, 375 AND 500, NASA DRAWING NO'S 75M01305; 75M01720, 75M25094, 10437694
V-26648	C	FUNCTIONAL TEST OF MANUAL VALVE, FUTURECRAFT NASA DRAWING NO. 75M50161
V-26649	C	FUNCTIONAL TEST OF MANUAL VALVE, MAROTTA HVA-80 NASA DRAWING NO. 75M51064-2
V-26650	C	FUNCTIONAL TEST OF MANUAL VALVE, MAROTTA HVA-16A NASA DRAWING NO. 75M51145
V-26651	C	FUNCTIONAL TEST OF PRESSURE SWITCH, SOUTHWESTERN INDUSTRIES NASA DRAWING NO. 75M04207
V-26652	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, GROVE MODEL 94W, NASA DRAWING NO. 75M02156-2
V-26653	C	FUNCTIONAL TEST OF MANUAL VALVE, MAROTTA MODEL SPV29A, NASA DRAWING NO. 75M51063-1
V-26654	C	FUNCTIONAL TEST OF RELIEF VALVE, STEWART WARNER, MODEL 116, AND 118, NASA DRAWING NO. 75M05311-2 AND 10426704
V-26655	C	FUNCTIONAL TEST OF PRESSURE REGULATOR GROVE MODEL 15LH NASA DWG NO. 75M50165-9
V-26656	C	FUNCTIONAL TEST OF GROVE PRESSURE REGULATOR MODEL 15KX NASA DWG NO. 75M50165-13
V-26657	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL 159KA, NASA DRAWING NO. 10437737-2
V-26658	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, GROVE MODEL 401F NASA DRAWING NO. 75M50341-1 AND -2
V-26659	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, TESCOM 26-1000 SERIES NASA DRAWING NO. 75M51364-1 AND -3
V-26660	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, LEONARD 187040-2 NASA DRAWING NO. 75M50182

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A. PLANNED TESTS AND OPERATIONS:

V-26661	C	FUNCTIONAL TEST OF MAROTTA SOLENOID VALVE MODEL PVM5268-1D NASA DRAWING NO. 75M03978-1
V-26662	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, GROVE MODEL 401F, NASA DRAWING NO. 75M50305-1 AND -4
V-26663	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, LEONARD 126290-4, NASA DRAWING NO. 75M50726-2
V-26664	C	FUNCTIONAL TEST OF MANUAL VALVE, TESCOM, 30-1201-516-016, NASA DRAWING NO. 75M51365-1
V-26665	C	FUNCTIONAL TEST OF GROVE PRESSURE REDUCING REGULATOR NASA DRAWING NO. 75M50341-3
V-26666	C	FUNCTIONAL TEST OF PNEUMATIC CYCLINDER, AIR NASA DRAWING NO. 75M02697
V-26667	C	FUNCTIONAL TEST OF BOTTOM VALVE, FUTURECRAFT, NASA DRAWING NO. 10425920
V-26668	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, FUTURECRAFT NASA DRAWING NO. 10426705
V-26669	C	FUNCTIONAL TEST OF PRESSURE REGULATOR, FUTURECRAFT 40051-4, NASA DRAWING NO. 75M02663
V-26670	C	FUNCTIONAL TEST OF CYLINDER, KICKOFF NASA DRAWING NO. 75M02614
V-26671	C	FUNCTIONAL TEST OF CHECK VALVE, CIRCLE SEAL 220T1 SERIES DRAWING NO. 75K26289-1
V-26672	C	FUNCTIONAL TEST OF CHECK VALVE, CIRCLE SEAL 299T1 SERIES NASA DRAWING NO. 10426693, 10430233, 75M50149 & 75M25095
V-26673	C	FUNCTIONAL TEST OF CHECK VALVE, CIRCLE SEAL HP-279-T1 SERIES, NASA DRAWING NO. 75M02676

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A. PLANNED TESTS AND OPERATIONS

V-26674	C	FUNCTIONAL TEST OF SEPARATOR, ADVEL, NASA DRAWING NO. 75M01839
V-26675	C	FUNCTIONAL TEST OF CYLINDER, TOMPKINS-JOHNSON, NASA DRAWING NO. 10426689
V-26676	C	FUNCTIONAL TEST OF APCO PRESSURE REGULATOR, MODEL 140200, NASA DRAWING NO.75M04839-1 AND -4
V-26677	C	FUNCTIONAL TEST OF APCO PRESSURE REGULATOR, MODEL 141100, NASA DRAWING NO. 75M05023-1
V-27030	X	SERVO RITER II MAINTENANCE (REV. A)
V-27031	X	H.P. 5424 DIGITAL RECORDER MAINTENANCE (REV. A)
V-27032	X	MODEL 240 BRUSH RECORDER MAINTENANCE (REV. A)
V-27033	X	CONSOLIDATED ELECTRODYNAMICS CORPORATION 5-133 OPTICAL OSCILLOGRAPH MAINTENANCE PROCEDURE (REV. A)
V-27034	X	MODEL 1707 BRUSH RECORDER MAINTENANCE (REV. A)
V-27035	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT POWER SUPPLY MAINTENANCE (REV. B)
V-27036	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT DIGITAL TO ANALOG CONVERTER MAINTENANCE (REV. A)
V-27038	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT SIMULATOR VOLTAGE CONTROLLED OSCILLATOR MAINTENANCE (REV. C)
V-27047	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT ONE SHOT MULTIVIBRATOR MAINTENANCE (REV. B)
V-27056	I	R.F. AND TELEMETRY MEASUREMENTS TEST (REV. I)
V-27058	I	ACCELERATION MEASUREMENTS TEST (REV. H)
V-27060	I	POSITION MEASUREMENTS TEST (REV. J)
V-27061	I	TEMPERATURE MEASUREMENTS TEST (REV. H)
V-27062	I	SIGNAL MEASUREMENTS TEST (REV. I)
V-27063	I	ANGULAR VELOCITY MEASUREMENTS TEST (REV. J)
V-27064	I	VOLTAGE, CURRENT, AND FREQ. MEAS. TEST (REV. J)

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A. PLANNED TESTS AND OPERATIONS:

V-27065	I	FLOW RATE MEASUREMENTS TEST (REV. J)
V-27066	I	GUIDANCE AND CONTROL MEASUREMENTS TEST (REV. J)
V-27067	I	PRESSURE MEASUREMENTS TEST (REV. G)
V-27071	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT AIR FILTER MAINTENANCE (REV. A)
V-27077	I	CTS CALIBRATION & OPERATION PROCEDURE (REV. A)
V-27079	I	IU MODULE TEST PROCEDURE (REV. B)
V-27087	B	HGD SYSTEM OPERATING PROCEDURE (SID-27087-B) (SD SUPPORT) (REV. C)
V-27104	D	INSTR SET-UP PROCEDURE, S-IVB ENGINE SEQUENCE TEST (REV. E)
V-27137	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT CALIBRATION POWER SUPPLY FUNCTIONAL TEST (REV. B)
V-27138	X	VMGSE EIGHT CHANNEL CALIBRATION CERTIFICATION (REV. B)
V-27175	B	LCC MEASURING STA. AND ML MEASURING EQUIPMENT OPER. CALIB AND MAINT (REV. C)
V-27193	B	LCC MEASURING STATION OPERATIONAL CONFIGURATION CONTROL PROCEDURE (REV. B)
V-27196	B	HAZARDOUS GAS DETECTION SYSTEM SAMPLE LINES TEST (SID-27196-B) (REV. D)
V-27204	X	ECOM 1A TELEMETRY DATA ANALYZER MAINTENANCE (REV. A)
V-27209	B	LUT SYSTEMS END-TO-END CALIBRATION OF FIRING ROOM PANEL ANALOG METERS, AND CRT DISPLAYS (REV. A)
V-27213	I	IU GROUND MEASUREMENTS ACCOUNTABILITY PROCEDURE (REV. B)
V-27228	B	ANALOG SIGNAL CONDITIONER CALIBRATION AND CHECKOUT
V-27229	I	E.D.S. D-BALL TEST SET VALIDATION
V-27233	I	GROUND MEASURING SYSTEM
V-27234	C	PREPARATION OF RECORDER SCALES AND MEASUREMENT PATCHING VERIFICATION FOR S-IB STAGE LCC MEASURING STATION RECORDERS
V-27235	C	S-IB STAGE LAUNCH CONTROL CENTER MEASURING STATION (LCCMS) PREPARATION FOR TEST SUPPORT
V-27236	C	S-IB STAGE TEMPERATURE MEASUREMENTS PREFLIGHT VERIFICATION TEST
V-27237	C	S-IB STAGE PRESSURE MEASUREMENTS PREFLIGHT VERIFICATION TEST (REV. A)
V-27238	C	S-IB STAGE DYNAMIC MEASUREMENT PREFLIGHT VERIFICATION TEST
V-27239	C	S-IB STAGE SIGNAL MEASUREMENTS PREFLIGHT VERIFICATION TEST
V-27240	C	S-IB STAGE LEVEL MEASUREMENTS PREFLIGHT VERIFICATION TEST
V-27241	C	S-IB STAGE VOLTAGE AND CURRENT MEASUREMENTS PREFLIGHT VERIFICATION TEST
V-27242	C	S-IB STAGE STRAIN MEASUREMENTS PREFLIGHT VERIFICATION TEST

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A. PLANNED TESTS AND OPERATIONS:

V-27244	C	S-IB STAGE VEHICLE MEASURING GROUND STATION EQUIPMENT (VMGSE) OPERATION SUPPORT
V-27246	D	SATURN S-IVB/IB SURFACE OPTICAL PROPERTY MEASUREMENTS (REV. A)
V-27247	D	S-IVB LIQUID LEVEL SENSOR CALIBRATION
V-27249	D	S-IVB MEASUREMENT VERIFICATION (REV. B)
V-27250	D	INDUCED VOLTAGE DETECTOR INSTALLATION, OPERATION, AND REMOVAL (REV. A)
V-28003	X	RADIO FREQUENCY SYSTEM TEST (REV. B)
V-28004	X	FREQUENCY MODULATION DISCRIMINATOR TEST (REV. B)
V-28005	X	TAPE RECORDER TEST (REV. B)
V-28008	X	PULSE CODE MODULATION STATION TEST (REV. B)
V-28019	B	GSE FUNCTIONAL TEST-DIGITAL RANGE SAFETY COMMAND SYSTEM (DRSCS)-LCC [40092-1DK]
V-28023	B	GSE END-TO-END RF AND AUDIO TRANSMISSION LINE CHECKS (DRSCS) [40092-1DL] (REV. C)
V-28024	B	DRSCS-RANGE AUDIO LINK FUNCTIONAL TEST [40093-1BB] (SD SUPPORT) (REV. A)
V-28035	D	LOW BAY PCM/DDAS GROUND RECEIVING STATION SETUP AND CHECKOUT PROCEDURE (REV. D)
V-28037	D	RANGE SAFETY RCVR AND DECODER TEST, S-IVB FLIGHT STAGE (REV. G)
V-28049	I	TM, RF PWR, OUT AND ANT. VSWR TEST (REV. I)
V-28050	I	TELEMETRY, PCM/DDAS FUNCTIONAL TEST (REV. H)
V-28051	I	TELEMETRY, FM/FM SYSTEM FUNCTIONAL TEST (REV. I)
V-28053	I	I.U. RF GSE VERIFICATION TEST (REV. E)
V-28055	I	C-BAND SYSTEM CLOSED LOOP TEST (REV. D)
V-28056	I	C-BAND SYSTEM OPEN LOOP TEST (REV. F)
V-28059	I	RF TRANSMISSION SYSTEM CALIBRATION (REV. E)
V-28061	I	COMMAND COMMUNICATIONS SYSTEM (CCS) TEST, CLOSED LOOP (REV. B)
V-28063	I	CCS TEST - OPEN LOOP (REV. D)
V-28070	X	S-IC TELEMETRY, MOBILE LAUNCHER GSE READINESS (REV. C)
V-28072	I	IU STAGE MODULE TCE SETUP AND OPERATION (REV. D)
V-28085	I	CHECKOUT OF DRS AND ASSOCIATED GSE (REV. B)
V-28086	I	GROUND DDAS TRANSMITTER VERIFICATION (REV. C)
V-28088	I	DDAS DAC CHECKOUT AND CALIBRATION (REV. A)
V-28089	I	DDAS COMPUTER INTERFACE, TYPE II CHECKOUT (REV. A)
V-28090	I	DDAS DIGITAL RECEIVING STATION (DRS) CHECK OUT AND CALIBRATION PROCEDURE (REV. A)
V-28091	I	MAGNETIC TAPE RECORDER/REPRODUCER AND MULTIPLEXER TEST (REV. A)
V-28092	I	DDAS LINE DRIVER AND LINE RECEIVER TEST (REV. B)
V-28109	B	DRSCS GSE-ML FUNCTIONAL TEST
V-28121	D	DDAS SUBSYSTEM TEST (REV. F)
V-28146	I	RF SYSTEM PREVENTIVE MAINTENANCE
V-28147	X	TELEMETRY CHECKOUT EQUIPMENT IN-PLACE CALIBRATION PROCEDURE (REV. A)

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A. PLANNED TESTS AND OPERATIONS:

V-28150	X	TELEMETRY CHECKOUT EQUIPMENT MECHANICAL MAINTENANCE PROCEDURE (REV. B)
V-28152	I	DDAS PREVENTIVE MAINTENANCE (REV. B)
V-28187	I	IU UNDERWATER LOCATION AID SYSTEM BENCH TEST (REV. E)
V-28202	C	SATURN IB ANTENNA SYSTEM AND RF CABLE CHECKOUT (REV. A)
V-28203	C	S-IB DIGITAL RANGE SAFETY COMMAND (DRSC) DECODER BENCH TEST (REV. A)
V-28204	C	S-IB DIGITAL RANGE SAFETY COMMAND (DRSC) RECEIVER BENCH TEST (SPARE) (REV. A)
V-28205	C	DIGITAL RANGE SAFETY (DRSC) SYSTEMS TEST - CLOSED LOOP (VAB)
V-28206	C	DIGITAL RANGE SAFETY COMMAND (DRSC) SYSTEM - FUNCTIONAL TEST - CLOSED LOOP (PAD)
V-28208	C	DECODER POWER SWITCH LEAKAGE TEST
V-28209	C	SPARE DECODER POWER SWITCH LEAKAGE TEST (BENCH CHECKOUT) (REV. A)
V-28212	C	PREVENTIVE MAINTENANCE, AIRBORNE TELEMETRY TEST EQUIPMENT
V-28213	I	TELEMETRY ANTENNA RADIATION TEST (REV. A)
V-28214	C	TELEMETRY, FM/FM SYSTEM FUNCTIONAL TEST (REV. B)
V-28215	C	TELEMETRY SYSTEMS FUNCTIONAL TEST
V-28216	C	TELEMETRY (LUT) GSE ANTENNA AND COAXIAL CABLE FUNCTIONAL VERIFICATION
V-28217	C	TELEMETRY, FM/FM SYSTEM FUNCTIONAL TEST (SPARE)
V-28218	C	TELEMETRY, PCM SYSTEM FUNCTIONAL TEST (REV. A)
V-28219	C	TELEMETRY, RF POWER OUTPUT AND VEHICLE ANTENNA SYSTEM VSWR TEST.
V-28220	C	TELEMETRY, PCM/DDAS DIGITAL DATA CHANNEL VERIFICATION (SPARE)
V-28221	C	TELEMETRY, PCM SYSTEM FUNCTIONAL TEST (SPARE) (REV. A)
V-28227	I	VAB RF TRANSMISSION SYSTEM CALIBRATION
V-28228	I	IU COMMAND GSE VERIFICATION TEST (REV. A)
V-28229	I	IU COMMAND CLOSED LOOP TEST
V-28230	I	IU COMMAND PAD TEST
V-28232	I	IU RF SYSTEMS SUPPORT - VAB
V-28233	I	IU RF SYSTEMS SUPPORT - PAD
V-28234	I	RF ANTENNA ORIENTATION AND MSS CABLE CHECKS (REV. A)
V-28235	I	DDAS FUNCTIONAL BENCH TEST
V-28250	I	FLIGHT HARDWARE PRESSURATION
V-29037	D	SAFETY AND ARMING DEVICE (REV. I)
V-29065	D	EBW DETONATOR LOT VERIFICATION (REV. B)
V-29116	C	CALIBRATION PROCEDURE FOR ORDNANCE TEST STATION (1205) (REV. A)
V-29117	C	CALIBRATION PROCEDURE FOR P.D.S. SAFE AND ARMING DEVICE TESTER (REV. A)
V-29118	C	S-IB ORDNANCE REPACKAGE AND SURVEILANCE PROCEDURE (REV. A)

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A. PLANNED TESTS AND OPERATIONS:

V-29126	C	ELECTRICAL CONNECTION PROCEDURE FOR CONAX VALVE INITIATORS
V-29128	C	ELECTRICAL CONNECTION PROCEDURE FOR PROPELLANT DISPERSION EBW DETONATORS (REV. A)
V-29129	C	ELECTRICAL CONNECTION PROCEDURE FOR TURBINE SPINNER INITIATORS
V-29130	D	DETONATOR & INITIATOR, EBW CHECKOUT (REV. C)
V-29132	D	S-IVB/IB ORDNANCE KIT VERIFICATION AND FLIGHT BOX ASSEMBLY
V-29133	C	RECERTIFICATION OF EBW FIRING UNITS (REV C)
V-29140	C	ENGINE ORDNANCE LOT CERTIFICATION FIRING TEST
V-29141	C	AUTO IGNITER LINKWIRE CHECKS & CONNECTIONS
V-30030	I	IBM PREPARATIONS FOR PLATFORM "B" RETRACTION (REV. D)
V-31032	B	ENVIRONMENTAL CONTROL SYSTEM NETWORKS PREOPERATIONAL CHECKOUT/LC 39 A&B (REV. C)
V-31108	I	GSCU POWER UP/DOWN (REV. C)
V-33034	I	ALL SYSTEMS OVERALL TEST AND FRT; ST-124M STABILIZED PLATFORM SYSTEM OPERATIONS (REV. D)
V-34017	I	MECHANICAL SYSTEMS SUPPORT OF IU STAGE POWER (REV. D)
V-34045	I	IU LIGHT COMPONENT INSTL. & REMOVAL (REV. C)
V-34046	I	IU ACCESS DOOR INSTL. & REMOVAL (REV. D)
V-34047	I	IU HEAVY COMPONENT INSTL. & REMOVAL (REV. G)
V-36023	B	SERVICE ARMS SYSTEM PREOPERATION INSPECTION PROCEDURE
V-36038	I	IU PNEUMATIC CONSOLE SETUP (REV. F)
V-36044	B	SERV ARM SYS. HYD. STANDBY PROC
V-36046	I	IU UMBILICAL HOUSING AND EJECT PLATE, INSTL. AND REMOVAL (REV. B)
V-36048	I	IU UPPER PROTECTIVE RING, INSTL. AND REMOVAL (REV. C)
V-36093	B	BACKUP BATTERY RACK PREPARATION FOR CDDT/LCD
V-36141	I	IU UMBILICAL HOUSING AND EJECT PLATE P/M
V-36167	B	LAUNCH SUPPORT EQUIPMENT MECHANICAL OPERATIONS FOR SUPPORT OF MAJOR INTEGRATED TESTS

B. STANDBY TESTS AND OPERATIONS:

THE FOLLOWING LISTING PRESCRIBES THE STANDBY TESTS AND OPERATIONS FOR THE AS-208 LAUNCH VEHICLE. THIS LISTING INCLUDES PERIODIC MAINTENANCE AND GSE TESTS WHICH ARE NOT SCHEDULED BUT WILL BE RUN WHEN REQUIRED. TEST CATALOG SHEETS WILL BE FOUND IN THE CATALOG OF TESTS IN NUMBERICAL ORDER. REVISION LEVEL OF THE TEST SHEET SHOULD BE CLOSELY OBSERVED IN THE LISTING.

V-20111	B	SATURN IB VERIFICATION TEST AFTER LIGHTNING STRIKE (REV. B)
V-20122	D	L/V ORDNANCE REMOVAL IN VAB (REV B)
V-20133	B	SATURN IB LAUNCH VEHICLE EMERGENCY PROCEDURE
V-21019	B	EMERGENCY BACKUP BATTERIES CLEANING & SERVICING (REV. A)
V-21225	D	RANGE SAFETY CONTROLLER (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-21227	D	STATIC INVERTER CONVERTER (LABORATORY COMPONENT TEST PROCEDURE) (REV. C)
V-21241	D	APS LAB CHECKOUT EQUIPMENT ELECTRICAL VERIFICATION (REV. B)
V-21260	D	ESE QUAL TEST - LOW BAY (REV. F)
V-21267	D	CHILLDOWN AND LOAD SIMULATOR VERIFICATION (LABORATORY COMPONENT TEST PROCEDURE) (REV. B)
V-21273	D	LIQUID LEVEL CONTROL UNITS (REV. A)
V-21290	D	RELAY MODULE TEST SET VERIFICATION (REV. A)
V-21293	B	28V, 10 AMP P/S METER CALIBRATION
V-21294	B	18V, 50 AMP P/S METER CALIBRATION
V-21295	D	PORTABLE VISICORDER VERIFICATION (REV. A)
V-21297	B	BATTERY CHARGER METER CALIBRATION (REV. B)
V-21301	D	GSE RELAY MODULES, DIODE MODULES AND CIRCUIT BREAKER TEST (REV. F)
V-21311	B	AUTOMATIC BATTERY SCANNER CALIBRATION (REV. A)
V-21315	I	IU STAGE BATTERY-EMERGENCY REMOVAL (STANDBY) (REV. C)
V-21343	D	PC CARD CALIB. PROC. (REV. G)
V-21345	D	P.U. OVEN ON INDICATOR MODULE (LABORATORY COMPONENT TEST PROCEDURE)
V-21418	D	VOTER - REGULATOR MODULE
V-21420	D	SPARK EXCITER TCP
V-21430	B	FLIGHT BATTERY CONSOLE CALIBRATION AND MAINTENANCE
V-21432	I	LAUNCH VEHICLE EDS SINGLE STEP TEST (REV. D)
V-21439	B	EMERGENCY BACKUP BATTERY OPERATIONS
V-21456	B	GROUND POWER LAB EQUIP. METER CALIBRATION
V-21465	D	PROPELLANT UTILIZATION ACTUATOR VALVE
V-21467	D	DSV-4B-112 PROPELLANT UTILIZATION TEST SET VERIFICATION

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B. STANDBY TESTS AND OPERATIONS:

V-21468	D	40M67431-1 (DSV-4-298) STRAY VOLTAGE CHECKOUT KIT VERIFICATION
V-21469	D	DSV-4B-248, PROPELLANT UTILIZATION PORTABLE TEST SET VERIFICATION
V-21470	D	ELECTRONIC ASSEMBLIES, MODEL DSV-4B-744, VERIFICATION (REV. A)
V-21471	D	PD SAFE AND ARM DEVICE TEST SET VERIFICATION
V-21472	D	PD SAFE AND ARM DEVICE TEST SET VERIFICATION
V-21473	D	DSV-4-196, EBW - INITIATOR TEST SET VERIFICATION
V-21474	D	MICROSWITCH ASSEMBLY ADJUSTMENT PROCEDURE (REV. A)
V-21480	D	FLIGHT BATTERY PRETEST (REV. A)
V-21481	D	RF POWER DETECTOR (LABORATORY COMPONENT TEST PROCEDURE)
V-21482	D	EBW PULSE SENSOR
V-21483	D	7-CHANNEL RECORDING SYSTEM VERIFICATION
V-21484	D	DIODE MODULE TESTER VERIFICATION
V-21485	D	DIODE MODULE
V-21486	D	RELAY MODULES (LABORATORY COMPONENT TEST PROCEDURE)
V-21487	D	SWITCH MODULES (LABORATORY COMPONENT TEST PROCEDURE)
V-21488	D	ESE PATCH DISTRIBUTOR TEST
V-21489	D	EBW FIRING UNIT (REV. A)
V-21490	I	IBM HARDLINE SAFING TEST (REV. D)
V-21491	D	PROPELLANT UTILIZATION ELECTRONICS ASSEMBLY
V-21493	D	CHILLDOWN INVERTERS (REV. A)
V-21494	D	BATTERY CHARGING PROCEDURE VOLT METER MODEL DC-1008D (DSV4B-248)
V-21495	D	BATTERY SUBSTITUTE VERIFICATION
V-21511	C	S-IB ESE CABLE TESTS - FIRING ROOM 3 (REV. B)
V-23026	I	CONTROL EDS/RATE GYRO UNIT TEST
V-23027	I	CONTROL SIGNAL PROCESSOR UNIT TEST
V-23061	I	ST-124M MOUNTING SURFACE ALIGNMENT (REV. F)
V-23069	I	ST-124M STABILIZED PLATFORM SYSTEM EQUIPMENT INSTALLATION IN THE MOBILE LAUNCHER, LCC AND AZIMUTH ALIGNMENT BUILDING (REV. D)
V-23144	I	VERIFICATION OF RATE-OF-TURN TABLE (REV. A)
V-23145	I	VERIFICATION OF CONTROL SIGNAL PROCESSOR TEST CONSOLE (REV. A)
V-23146	I	VERIFICATION OF CONTROL/EDS RATE GYRO TEST SWITCHING ADAPTERS "A" AND "B" (REV. A)
V-23147	I	VERIFICATION OF CONTROL COMPUTER TEST CONSOLE (REV. A)
V-23148	I	VERIFICATION OF IU INTERRUPT BOXES (REV. A)
V-23150	I	VERIFICATION OF CONTROL/EDS RATE GYRO TEST CONSOLE (REV. A)
V-23159	I	FUNCTIONAL CHECK OF ESE RECORDERS (REV. A)
V-23182	I	LVDC/LVDA GROUND COMPUTER SYSTEM INTERFACE TEST (REV. B)
V-23183	I	LVDC/LVDA REDUNDANCY AND TMR OUTPUT DRIVER TEST (REV. C)

(CONTINUED)

B. STANDBY TESTS AND OPERATIONS:

V-23186	I	LVDC/LVDA COMMAND SYSTEM INTERFACE TEST (REV. C)
V-23187	I	LVDC/LVDA - FLIGHT CONTROL SYSTEM INTERFACE TEST (REV. B)
V-23188	I	LVDC/LVDA - ST 124M INTERFACE TEST (REV. C)
V-23189	I	LVDC/LVDA G & C SIMULATED FLIGHT SEQUENCE VERIFICATION (REV. D)
V-23190	I	LVDC/LVDA REVALIDATION TEST (REV. D)
V-23192	I	VERIFICATION OF PORTABLE SUBSTITUTE CONTROL COMPUTER
V-23195	I	VEHICLE INTERSTAGE ALIGNMENT (REV. A)
V-23198	I	ST-124M STABILIZED PLATFORM DRIFT TEST (REV A)
V-23200	I	OPTICAL MEASUREMENT - L/V COMPRESSION & SHRINKAGE (REV C)
V-23212	D	INSPECTION, STATIC MEASUREMENT AND LENGTH SETUP FOR REPLACEMENT, S-IVB HYDRAULIC ACTUATOR.
V-23213	I	LAUNCH VEHICLE GUIDANCE AND CONTROL FLIGHT COMPONENTS PURGE PROCEDURE
V-23215	I	THEODOLITE VALIDATION PROCEDURE - MANUAL (REV. A)
V-23217	D	FLIGHT CONTROL INTERRUPT BOXES AND CABLES, S-IVB STAGE; SATURN IB AND V, VERIFICATION. (REV. B)
V-23218	I	VALIDATION PROCEDURE - MICROPOSITIONER
V-23219	I	ACCELEROMETER CALIBRATION OF THE ST-124M STABILIZED PLATFORM
V-23220	I	ST-124M GYRO DRIFT TEST
V-23221	I	ST-124M PRISM ALIGNMENT TEST
V-23222	I	ST-124M ALIGNMENT SYSTEM PERFORMANCE TEST
V-23223	I	ST-124M/32:1 RESOLVER TEST
V-23224	I	ST-124M STABILIZED PLATFORM SYSTEM PRELIMINARY OPERATIONS FOR LABORATORY TESTING
V-23225	I	LABORATORY PNEUMATIC TEST OF THE ST-124M STABILIZED PLATFORM SYSTEM
V-23226	I	FUNCTIONAL TEST OF THE STABILIZED PLATFORM SYSTEM IN THE LABORATORY
V-23227	I	VALIDATION PROCEDURE - ST-124M MOUNTING SURFACE ALIGNMENT TEST FIXTURE
V-23228	I	TURN - TILT STAND VALIDATION AND CALIBRATION
V-23229	I	VALIDATION PROCEDURE - SHORT RANGE AUTOMATIC AZIMUTH ALIGNMENT THEODOLITE
V-23232	D	APS' TEST SET AND VALVE SIMULATOR VERIFICATION (REV. A)
V-23234	I	VERIFICATION OF SYSTEM RESPONSE TESTER
V-23238	I	SHIPPING PREPARATIONS, ST-124M PLATFORM AND COMPONENTS (REV. A)
V-23255	D	MISCELLANEOUS MODULES (LAB COMPONENT TEST PROC)
V-23256	D	TIME DELAY CIRCUIT MODULES (LAB COMPONENT TEST PROC)
V-23257	D	RESISTOR MODULES
V-23258	D	CONTROL RELAY PACKAGE (REV. A)
V-23265	C	FUNCTIONAL TEST AND CALIBRATION OF S-IB LCC FLIGHT CONTROL SUPPORT EQUIPMENT (REV. A)

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B. STANDBY TESTS AND OPERATIONS:

V-23270	C	S-IB STAGE HYDRAULIC SYSTEM OPERATION (REV. C)
V-23271	C	S-IB HYDRAULIC ACTUATOR CHANGE OUT
V-23272	C	S-IB SPARE HYDRAULIC ACTUATOR LENGTH SET-UP IN THE LABORATORY
V-23273	C	S-IB HYDRAULIC ACTUATOR POTENTIOMETER ASSEMBLY CHANGEOUT
V-23274	C	S-IB HYDRAULIC ACTUATOR POTENTIOMETER LINEARITY TEST
V-23277	C	MEASURE ANGULAR ROTATION OF S-IB STAGE FINS.
V-24076	D	ACCESS KIT, VERTICAL, FUEL TANK INTERIOR (REV. C)
V-24083	D	REMOVAL, LH2 TANK DOOR, DSV-4B STAGE (REV. B)
V-24088	D	VERTICAL LOX TANK ACCESS (REV. C)
V-24095	D	SATURN S-IVB/V PNEUMATIC CONSOLE AND HEAT EXCHANGER OPERATING INSTRUCTIONS (REV. D)
V-24100	D	FILL, FLUSH, BLEED & FLUID SAMPLES, HYDRAULIC SYSTEM, S-IVB/V (REV. C)
V-24111	D	SATURN S-IVB/V APS MODULE PROPELLANT DRAIN AND PURGE (REV. C)
V-24177	D	FWD SKIRT, BTRY INSTALLATION & REMOVAL, DSV-4B/V (REV. B)
V-24185	D	STAGE PREPARATIONS, TRANSPORTATION, PAD TO VAB (REV. C)
V-24190	D	AFT SKIRT BATTERY INSTALLATION & REMOVAL, DSV-4B/V (REV. B)
V-24203	D	CHECKOUT OF APS FUEL PRESSURE INSTRUMENTATION KIT - MODEL 1874 (REV. B)
V-24204	D	CHECKOUT OF APS OXIDIZER PRESSURE INSTRUMENTATION KIT - MODEL 1875 (REV. B)
V-24225	I	INSTRUMENT UNIT DEMATING
V-24240	D	GAGE ASSEMBLY, PORTABLE, TEST, 1861810 VERIFICATION (REV. A)
V-24269	D	STAGE DE-ERECTION & ERECTION - VAB HIGH BAY TO ROLL ADAPTERS (REV. A)
V-24295	D	SETUP AND OPERATION MODEL 286A TEST SET (REV. D)
V-24303	I	IU/S-IVB TCS DRAIN (REV. F)
V-24304	I	IU WATER ACCUMULATOR DRAIN
V-24310	D	POST LAUNCH REFURBISHMENT VISUAL INSPECTION PROCEDURE LC-39 (REV. D)
V-24322	D	S-IVB HYDRAULIC SYSTEM - RESERVOIR REFILL (REV. A)
V-24329	D	OXYGEN HYDROGEN BURNER, REMOVAL AND INSTALLATION, DSV-4B/V-KSC (REV. A)
V-24334	D	APS MODULE REMOVAL AND HANDLING, S-IVB/V - KSC (REV. C)
V-24335	D	APS MODULE REMOVAL, INSTALLATION AND HANDLING, MSS S-IVB/V - KSC (REV. B)
V-24336	D	STAGE ROTATION PROCEDURE, ROLL CRADLE, S-IVB/V (REV. A)
V-24337	D	ACCESS KIT, HORIZONTAL, FORWARD SKIRT AREA, INSTALLATION AND REMOVAL, S-IVB/V (REV. C)

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B. STANDBY TESTS AND OPERATIONS:

V-24338	D	ACCESS KIT, HORIZONTAL, AFT SECTION, INSTALLATION AND REMOVAL, S-IVB/V (REV. C)
V-24343	D	STAGE INSTALLATION AND REMOVAL, ROLL CRADLES, VAB (REV. B)
V-24345	D	STAGE DE-ERECTION VAB LOW BAY TO ROLL ADAPTERS AND RE-ERECTION VAB LOW BAY - S-IVB/V (REV. B)
V-24356	D	J-2 ENGINE-LIMITED LOWERING AND RE-INSTALLATION, VAB-LOW BAY. (REV. B)
V-24362	D	J-2 ENGINE RESTRAINT ASSEMBLY, DSV-4B/V-KSC (REV. A)
V-24364	D	AFT INTERSTAGE REMOVAL VAB LOW BAY
V-24367	D	AFT INTERSTAGE TRANSPORTATION AND LOADING (REV. A)
V-24368	D	UMBILICAL CARRIER, FORWARD ELECTRICAL EJECT & REINSTALLATION (REV. B)
V-24372	D	UMBILICAL CARRIER, FORWARD REMOVAL (REV. A)
V-24375	D	REPLENISHMENT PROCEDURE, DSV-4-186, NITROGEN FILL TRUCK (REV. A)
V-24377	D	PUMPING UNIT HYDRAULIC DSV-4B-479 FUNCTIONAL CHECKOUT (REV. B)
V-24378	D	UMBILICAL CARRIER - AFT ELECTRICAL EJECT AND REINSTALLATION (REV. B)
V-24379	D	TRUCK, NITROGEN FILL - FUNCTIONAL CHECK
V-24380	D	UMBILICAL CARRIER, AFT, MODEL 315 FUNCTIONAL/LEAK TEST (REV. A)
V-24381	D	UMBILICAL CARRIER - FORWARD REINSTALLATION (REV. A)
V-24383	D	UMBILICAL CARRIER ASSEMBLY, FORWARD, DSV-4B-316, FUNCTIONAL/LEAK TEST (REV. A)
V-24396	D	SPARE APS MODULE HANDLING, S-IVB/V-KSC (REV. C)
V-24397	D	UMBILICAL CARRIER-AFT, REINSTALLATION (REV. A)
V-24403	D	PROPULSION PNEUMATIC CHECKOUT CARD DSV-4-328 FUNCTIONAL CHECKOUT (REV. A)
V-24406	D	APS CHECKOUT ACCESSORIES KIT DSV4B-493A LEAK AND FUNCTIONAL CHECKOUT
V-24415	D	SATURN S-IVB/V APS GAS REMOVAL TANKS CHECKOUT, OPERATION, AND FLUSH. (REV. A)
V-24416	D	SATURN S-IVB/V APS MODULE PROPELLANT SYS. FLUSH AND PURGE.
V-24418	D	SATURN S-IVB/V ENGINE SEQUENCE TEST (PAD) (REV. A)
V-24422	I	M/L CAT BOOM TRANSPORTATION, HOISTING, INSTALLATION AND REMOVAL (REV. A)
V-24424	D	STAGE CALIBRATION PANEL 1B72518-1 VERIFICATION (REV A)
V-24430	D	PORTABLE PNEUMATIC REGULATOR UNITS, BOEING & VACCO VERIFICATION
V-24431	D	CHECK VALVE, PCOL CALIBRATION SUPPORT, VERIFICATION
V-24432	D	GAGE ASSEMBLY, 1A73588, VERIFICATION
V-24433	D	GAGE REGULATOR ASSEMBLY, 1A37850, VERIFICATION
V-24434	D	GAGE PANEL ASSEMBLY, 1B72224 VERIFICATION
V-24438	D	COVER, PROTECTIVE, FORWARD DOME, S-IVB, REMOVAL
V-24439	D	ACCESS KIT, VERTICAL, FWD INTERSTAGE, DSV-4B, REMOVAL

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B. STANDBY TESTS AND OPERATIONS:

V-24440	D	ACCESS KIT, HORIZONTAL, LO2 TANK INTERIOR, INSTALLATION AND REMOVAL (REV. A)
V-24441	D	ACCESS KIT, HORIZONTAL, LH2 TANK INTERIOR, INSTALLATION AND REMOVAL (REV. A)
V-24442	D	S-IVB STAGE UNLOADING, POINT BARROW (REV. A)
V-24444	D	STAGE LOADING, DSV-4B, AIR CARRIER - KSC (REV. A)
V-24461	D	GAGE ASSEMBLY, 1A82406-1 VERIFICATION
V-24466	D	APS FACILITY LOADING - S-IVB/IB, LC39 (REV. A)
V-24472	D	APS FLUSH AND PURGE, S-IVB/IB (REV. A)
V-24497	C	INSPECTION AND CORROSION CONTROL OF S-IB STAGE (STANDBY) (REV. B)
V-24515	C	H-1 ENGINE IGNITER FUEL SYSTEM PURGE (REV. B)
V-24527	C	HYDRAULIC SYSTEM PURGE AND FILL (STANDBY) (REV. C)
V-24528	C	ENGINE FUEL SYSTEM DRAIN (STANDBY)
V-24529	C	ENGINE LOX DOME PURGE AND FLUSH PROCEDURE (STANDBY)
V-24530	C	GEARCASE BEARINGS FLUSH AND PRESERVATION (STANDBY)
V-24531	C	TRANSFER S-IB STAGE FROM THE LAUNCH PEDESTAL TO THE TRANSFER AISLE HOLD-DOWNS, REMOVE FINS, DE-ERECT S-IB STAGE AND INSTALL STAGE ON TRANSPORTER (STANDBY) (REV. A)
V-24532	D	PROPULSION GSE COMPONENT REVALIDATION (REV. C)
V-24539	C	H-1 ENGINE REMOVAL AND INSTALLATION (STANDBY)
V-24544	C	H-1 ENGINE FUEL DECONTAMINATION "STANDBY" (REV. A)
V-24555	D	S-IVB/IB ENGINE SEQUENCE TEST (PAD)
V-25179	B	LH2 MOBILE LAUNCHER GAGE & TRANSDUCER CALIBRATION CHECK (REV. E)
V-25296	B	DATA TRANSMISSION SYSTEM (DTS) PRINTED CIRCUIT CARD FUNCTIONAL TEST
V-25302	B	PROPELLANT TANKING COMPUTER SYSTEM (PTCS) PRINTED CIRCUIT BOARD CHECKOUT
V-25321	B	LOX SYSTEM FILTER ELEMENT REPLACEMENT (REV. C)
V-25328	B	LOX SYSTEM VACUUM JACKETED LINE PRESSURE CHECK (REV. D)
V-25329	B	LIQUID OXYGEN (LOX) STORAGE AREA TANK FILLING (REV. C)
V-25331	B	LIQUID OXYGEN (LOX) TANK SAMPLING (REV. D)
V-25354	B	DIGITAL EVENTS EVALUATOR (DEE-3) PERIODIC INSPECTION AND MAINTENANCE
V-25358	B	DATA TRANSMISSION SYSTEM (DTS) PERIODIC INSPECTION AND MAINTENANCE
V-25393	B	PROPELLANT TANKING COMPUTER SYSTEM MAINTENANCE AND INSPECTION
V-26178	B	ENVIRONMENTAL CONTROL SYSTEM PREVENTIVE MAINTENANCE/ LC-39 A & B (REV. C)
V-26317	D	ACCESS KIT, VERTICAL, FLARED AFT INTERSTAGE DSV-4B REMOVAL (REV. A)
V-26351	D	STAGE TRANSFER, LOW BAY CELL TO LOW BAY CELL (REV. C)

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B. STANDBY TESTS AND OPERATIONS:

V-26353	D	STAGE DE-ERECTION, DSV-4B/V, HIGH BAY (REV. B)
V-26396	B	TRANSFER TO VAB OPERATIONS FOR PRIMARY AND AUXILIARY DAMPING SYSTEMS. (REV. A)
V-26478	D	UMBILICAL CARRIER, AFT, MANUAL REMOVAL (REV. A)
V-26496	I	IU MECHANICAL GSE PREVENTIVE MAINTENANCE. (REV. B)
V-26497	I	GSCU AND FCVB FUNCTIONAL TEST (REV. D)
V-26511	D	COMPONENT VERIFICATION, BOEING AND VACCO PNEUMATIC REGULATOR ASSY'S (REV. A)
V-26528	C	HOLD DOWN ARM LOAD TEST (STANDBY) (REV. B)
V-26530	C	PROPELLENT MAST RETRACTION AND ERECTION OPERATION (REV. B)
V-26534	D	ACCESS PLATFORM LH2 TANK INTERIOR
V-26539	I	IU WATER ACCUMULATOR SERVICING ASSEMBLY CART P/M
V-26543	D	PRESSURE TRANSDUCER, NAA ENGINE TYPE (LABORATORY COMPONENT TEST PROCEDURE)
V-26548	I	IU CORROSION INSPECTION (REV. A)
V-26550	I	IU WATER ACCUMULATOR SERVICING ASSEMBLY CART TEST. (REV. A)
V-27009	X	VEHICLE MEASURING GROUND SUPPORT EQUIPMENT FUNCTIONAL TEST (REV. A)
V-27040	D	LCC RECORDERS - SETUP AND VERIFICATION (REV C)
V-27094	D	CALIBRATION VERIFICATION, ANALOG RECORDER - LOW BAY (REV. D)
V-27095	D	BI-LEVEL SUMMING NETWORK (LABORATORY COMPONENT TEST PROCEDURE) (REV. B)
V-27096	D	ACCELEROMETERS, VIBRATION AND ACOUSTIC TRANSDUCERS (REV. A)
V-27099	D	VOLTAGE MONITORING MODULES (REV. A)
V-27143	D	RF COMPONENT MODULES (LABORATORY COMPONENT TEST PROCEDURE) (REV. B)
V-27156	I	Q-BALL CHECKOUT PROCEDURE (REV. D)
V-27166	D	FREQUENCY TO DC CONVERTERS (LAB COMPONENT TEST PROC) (REV. A)
V-27167	D	FREQUENCY STANDARD ASSEMBLY (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27169	D	EXPANDED SCALE FREQUENCY TO D.C. CONVERTER (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27170	D	20 VDC EXCITATION MODULE (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27171	D	D.C. AMPLIFIERS (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27172	D	TEMPERATURE BRIDGE MODULES (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27173	D	2000 HZ FREQUENCY TO D.C. CONVERTER (LABORATORY COMPONENT TEST PROCEDURE) (REV. A)
V-27191	D	PORTABLE RECORDER SETUP, S-IVB ENGINE SEQUENCE TEST - LOW BAY OR PAD (REV. D)
V-27194	B	MOBILE LAUNCHER MEASURING EQUIPMENT DISTRIBUTOR PATCHING PROCEDURE

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B. STANDBY TESTS AND OPERATIONS:

V-27201	D	CHANNEL DECODERS (REV. A)
V-27212	X	VMGSE STATION COMPONENT FUNCTIONAL VERIFICATION TESTING (REV. A)
V-27222	B	HAZARDOUS GAS DETECTION SYSTEM BENCH CHECK PROCEDURE
V-27225	I	NON-OPERATIONAL HARDWARE TEST EQUIPMENT (REV. A)
V-27231	D	PRESSURE TRANSDUCER, S-IVB FLIGHT TYPE
V-27232	D	5 VOLT EXCITATION MODULE (REV. A)
V-27248	D	TIME DOMAIN REFLECTOMETRY - PU PROBES (REV. A)
V-28054	I	C-BAND TRANSPONDER BENCH TEST (REV. C)
V-28060	I	CCS BENCH TEST (REV. C)
V-28062	I	CCS-USB INTERFACE (REV. C)
V-28065	I	COMMAND DECODER BENCH TEST (REV. B)
V-28083	D	PCM/DDAS ASSEMBLY - MODEL 301 PACKAGE (LABORATORY COMPONENT TEST PROCEDURE) (REV. C)
V-28098	D	REMOTE DIGITAL SUBMULTIPLEXER (LABORATORY COMPONENT TEST PROCEDURE) (REV. B)
V-28106	B	DRSCS GSE MAINTENANCE (REV. A)
V-28172	D	LOW LEVEL REMOTE ANALOG SUBMULTIPLEXER (LABORATORY COMPONENT TEST PROCEDURE) (REV B)
V-28180	D	FLOW RATE AND TURBO SPEED (FRATS) MODULE
V-28184	X	TELEMETRY CHECKOUT EQUIPMENT DATA REDUCTION PROCEDURE (REV. A)
V-28185	D	TCE S-IVB TELEMETRY GROUND STATION OPERATIONAL CHECKS (REV. B)
V-28189	I	IU TM CHECKOUT RACK VALIDATION
V-28190	I	RF NON-OPERATIONAL HARDWARE TESTS
V-28193	D	R.F. ASS'Y (LABORATORY COMPONENT TEST PROCEDURE)
V-28194	I	TELEMETRY, PCM/DDAS FUNCTIONAL BENCH TEST (REV. A)
V-28195	I	TELEMETRY CALIBRATION SYSTEM FUNCTIONAL BENCH TEST (REV. A)
V-28196	I	TELEMETRY, FM/FM SYSTEM FUNCTIONAL BENCH TEST (REV. A)
V-28197	I	TM NON-OPERATIONAL HARDWARE VALIDATION (REV. A)
V-28198	D	MODEL 270 MULTIPLEXER (REV. A)
V-28199	D	DIGITAL RANGE SAFETY COMMAND DECODER (REV. A)
V-28200	D	DIGITAL RANGE SAFETY COMMAND RECEIVER
V-28207	C	DIRECTIONAL COUPLER AND POWER DIVIDER CHECKOUT
V-28210	C	TELEMETRY CHECKOUT RACK FUNCTIONAL VERIFICATION (REV. A)
V-28211	C	TELEMETY SYSTEMS TEST BOX FUNCTIONAL VERIFICATION (REV. A)
V-28223	C	SHELF LIFE EXTENSION TEST FOR COMMAND DECODER 50M10698 STANDBY (REV. A)
V-28224	C	SHELF LIFE EXTENSION TEST FOR COMMAND RECEIVER MCR-503 50M10697 STANDBY (REV. A)
V-28231	I	IU COMMAND PAD TEST
V-28236	D	SHELF LIFE EXTENSION TESTS, RANGE SAFETY COMMAND RECEIVER, 50M10697

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B. STANDBY TESTS AND OPERATIONS:

V-28237	D	SHELF LIFE EXTENSION TESTS, RANGE SAFETY COMMAND DECODER, 50M10698
V-28238	B	INDUCED VOLTAGE DETECTOR, 50M16346-1, VERIFICATION
V-28243	D	S-IVB ELECTRICAL/ELECTRONIC COMPONENT SPECIAL VERIFICATION
V-29056	D	ULLAGE ROCKET REMOVAL - VAB (REV. C)
V-29058	D	RETRO ROCKET REMOVAL - VAB (REV. B)
V-29059	D	CDF, MDF AND LSC REMOVAL, S-IVB (REV. C)
V-29060	D	LEAK FUNCTIONAL AND PRESSURE CHECK, INITIATOR & DETONATOR CHAMBER ASSEMBLIES, MODELS DSV-4B-456 AND DSV-4B-457 (REV. D)
V-29113	D	RECEIVING INSPECTION, ULLAGE ROCKET MOTOR (REV. E)
V-29114	D	RECEIVING INSPECTION, RETRO ROCKET MOTOR (REV. D)
V-29119	C	INSPECTION PROCEDURE S-IB ORDNANCE (REV. A)
V-29121	C	ORDNANCE REMOVAL PROCEDURE S-IB (STANDBY)
V-33021	I	CONTROL COMPUTER FUNCTIONAL TEST (REV. G)
V-34030	D	INSTALLATION AND REMOVAL LOX TANK SUMP, DSV-4B STAGE (REV. C)
V-34041	I	IU/S-IVB TCS CONNECT & DISCONNECT (STANDBY) (REV. E)
V-34048	D	ACTUATOR HOLDING FIXTURE - INSTALLATION & REMOVAL (REV. B)
V-34053	C	MODEL VI GROUND HYDRAULIC SERVICER FUNCTIONAL CHECKOUT AND PREPARATION TEST (REV. A)
V-36032	B	S-II AFT SERV ARM LOCAL CONTROL OPER. PROC. (4009-BX) (TSI 39-282) (REV. A)
V-36116	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. CONTROL CONSOLE #1, S/A 3 CONTROL BOX AND CONTROL CONSOLE #2
V-36117	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. ARM HINGES 1 THRU 9 AND CABLE RETRACT SLED SYSTEM
V-36118	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. EXTENSION PLATFORMS
V-36119	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. PRIMARY DAMPING RETRACT/RECONNECT SYSTEM (REV. A)
V-36120	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. S/A 9 ENVIRONMENTAL CHAMBER
V-36121	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. Q-BALL COVER RETRACT SYSTEM
V-36122	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. S/A WITHDRAWAL SYSTEMS (ARM 2 AND 4 THRU 8)
V-36123	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. FLUID SERVICE, CONTROL, PROPELLANT AND ECS LINES
V-36124	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. ARM STRUCTURE AND ACCESSORIES
V-36126	B	SERVICE ARM SYSTEM PREVENTIVE MAINT. AUXILIARY DAMPING SYSTEM
V-36127	B	LUT NETWORKS PREVENTIVE MAINT. - PNEUMATICS, Q-BALL COVER, HYDRAULIC CHARGING UNIT, ENGINE SERVICE PLATFORMS

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B. STANDBY TESTS AND OPERATIONS:

V-36131	B	HYDRAULIC DISTRIBUTION SYSTEM PREVENTIVE MAINT.
V-36137	D	OPERATING PROCEDURE, CART HOSE REEL, CART POWER CABLE REEL, PUMPING UNIT HYDRAULIC (REV. A)
V-36800	D	ACCESS KIT, FUEL TANK INTERIOR, MODEL DSV4B-308 (REV. A)
V-36802	D	TEST SET, COMPONENT POWER SYSTEM, P/N 1A78098-1 MAINTENANCE PROCEDURE (REV. A)
V-36803	D	TEST SET, COMPONENT, PROPELLANT UTILIZATION, MODEL DSV-4B-112 P/N 1A59160-1, MAINTENANCE PROCEDURE (REV. A)
V-36804	D	CALIBRATION UNIT - PROPELLANT UTILIZATION SYSTEM, MODEL DSV4B-248 (REV. A)
V-36805	D	FIXTURE KIT, ENGINE ACTUATOR ADJUSTMENT, MODEL DSV4B-325 (REV. A)
V-36807	D	DOLLY, TRANSPORTER, S-IVB GROUND, MODEL DSV4B-300, AND TOOL KIT, SPECIAL, MODEL DSV4B-305 (REV. A)
V-36808	D	HANDLING SLING, ULLAGE AND ATTITUDE CONTROL MODULE, MODEL DSV4B-341 (REV. A)
V-36809	D	HANDLING SLING, ATTITUDE CONTROL MODULE, MODEL DSV4B-344 (REV. B)
V-36811	D	TEST SET, EBW INITIATOR MODEL DSV4-196 (REV. A)
V-36812	D	CRADLES KIT, S-IVB STAGE, MODEL DSV4B-301 (REV. A)
V-36813	D	HOIST KIT, FORWARD AND AFT MODEL DSV4B-303 (REV. A)
V-36814	D	HANDLING KIT, FLARED AFT INTERSTAGE MODEL DSV4B-307 (REV. A)
V-36815	D	ACCESS KIT, LOX TANK INTERIOR MODEL DSV4B-348 (REV. A)
V-36816	D	PROTECTIVE COVER KIT, FORWARD SKIRT END MODEL DSV4B-309A (REV. A)
V-36818	D	SUPPORT KIT, DUMMY INTERSTAGE AND ENGINE PROTECTIVE MODEL DSV4B-392 (REV. A)
V-36819	D	TEST SET, PORTABLE, PNEUMATIC CONSOLE MODEL DSV4B-286A (REV. A)
V-36821	D	HOIST KIT, FORWARD AND AFT MODEL DSV4B-303A (REV. A)
V-36827	D	VACUUM PUMPING UNIT MODEL DSV4-187 (REV. A)
V-36828	D	FIXTURE, HANDLING AND STORAGE CONTAINER - ULLAGE ROCKET FAIRING MODEL DSV4-233 (REV. A)
V-36829	D	SLING KIT, ULLAGE AND RETRO ROCKET HANDLING MODEL DSV4-234 (REV. A)
V-36837	D	TEST SET, BATTERY SIMULATED MODEL DSV4B-176 (REV. A)
V-36838	D	ACCESS KIT, VERTICAL FLARED AFT INTERS .GE MODEL DSV4B-311 (REV. A)
V-36539	D	UMBILICAL KIT, AFT LAUNCHER MODEL DSV4B-315 (REV. A)
V-36840	D	UMBILICAL KIT, FORWARD LAUNCHER MODEL DSV4B-316 (REV. A)
V-36842	D	TEST SET, PORTABLE, PNEUMATIC CONSOLE, APS MODEL DSV4B-186 (REV. A)
V-36844	D	CONSOLE, PNEUMATIC, MODEL DSV4B-432A (REV. A)
V-36846	D	ACCESS KIT, VERTICAL CONSTANT AFT SECTION, DSV-4B-357 MAINTENANCE PROCEDURE

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B. STANDBY TESTS AND OPERATIONS:

V-36848	D	CHECK KIT STRAY VOLTAGE MAINTENANCE PROCEDURE PN 4CM67431-1
V-36849	D	COVER KIT, PROTECTIVE, FORWARD DOME MODEL DSV4B-369, 469A (REV. A)
V-36850	D	FIXTURE, ENGINE ACTUATOR SUPPORT KIT MODEL DSV4B-474 (REV. A)
V-36851	D	ACCESS KIT, VERTICAL FWD INTERSTAGE MODEL DSV4B-402, P/N 1B40699-501 MAINTENANCE PROCEDURE (REV. A)
V-36852	D	HANDLING KIT, ENGINE, MODEL DSV4B-349A (REV. B)
V-36853	D	PUMPING UNIT, HYDRAULIC, MODEL DSV4B-479 CART, HOSE REEL, MODEL DSV4B-477 CART, POWER CABLE REEL, MODEL DSV4B-478 (REV. A)
V-36854	D	HOOL KIT, MODEL DSV4B-481 MAINTENANCE PROCEDURE (REV. A)
V-36856	D	ACCESS KIT, HORIZONTAL, LOX TANK INTERIOR MODEL DSV4B-483 (REV. A)
V-36857	D	ACCESS KIT, HORIZONTAL, FWD. SKIRT AND ACCESS KIT, HORIZONTAL, AFT SECTION MODELS DSV4B-484, 485 (REV. A)
V-36862	D	BEAM KIT, COVER HOIST, S-IVB STAGE MODEL DSV4B-368 (REV. A)
V-36863	D	ADAPTER RING KIT - TRANSFER DOOLY - LOW BAY MODE DSV4B-380 (REV. A)
V-36864	D	HANDLING KIT, RETRO ROCKET, MODEL DSV4B-342 (REV. A)
V-36866	D	CONSOLE, PNEUMATIC, MODEL DSV4B-433A (REV. A)
V-36871	D	PRESERVATION KIT, APS MODULE S-IVB/S-V STAGE MODEL DSV4B-367 (REV. A)
V-36872	D	BATTERY HANDLING KIT MODEL DSV4B-400 (REV. A)
V-36873	D	DESICCANT KIT, STATIC, S-IVB STAGE, MODEL DSV4B-450 MAINTENANCE PROCEDURE (REV. A)
V-36875	D	CHECKOUT ACCESSORIES KIT MODEL DSV4B-1858A (REV. A)
V-36876	D	KIT, CHECKOUT ACCESSORIES MODEL DSV4-238 (REV. A)
V-36877	D	ACCESSORY KIT, ELECTRICAL CHECKOUT MODEL DSV4B-744 (REV. A)
V-36883	D	PRESSURE INSTRUMENTATION KIT, OXIDIZER, APS MODEL DSV-4B-1875 MAINTENANCE PROCEDURE
V-36887	D	ROLLER TRANSFER KIT, AIRCRAFT - SUPER GUPPY MODEL DSV4B-1863 (REV. A)
V-36888	D	HANDLING DOOLY, ULLAGE AND ATTITUDE CONTROL MODULE, MODEL DSV4B-1877 (REV. A)
V-36891	D	PROPULSION PNEU. CHECKOUT CART, MODEL DSV-4-328, P/N 1A80590-1 MAINTENANCE PROCEDURE
V-36892	D	VEHICLE BATTERY SIMULATION KIT, RECHARGEABLE MODEL DSV4B-214 (REV. A)
V-36893	D	ACCESS PLATFORM KIT, LH2 TANK INTERIOR, MODEL DSV4B-1878 (REV. A)
V-36896	D	KIT, SUPPLEMENTARY PRESSURIZATION MODEL NO. DSV4-576 (REV. A)

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W. STANDBY TESTS AND OPERATIONS:

V-36900	D	HEAT EXCHANGER GAS, MODEL DSV4B-439A (REV. A)
V-36901	D	DISCONNECT KIT, LOW BAY, MODEL DSV4B-1884 (REV. A)
V-36905	D	HANDLING KIT, AFT STAGE COMPONENTS MODEL DSV4B-1900 (REV. A)
V-36906	D	HANDLING KIT, J-2 ENGINE, PRIMARY INSTRUMENTATION PACKAGE MODEL DSV4B-1901 (REV. A)
V-36908	D	CHILLDOWN INVERTER LOAD SIMULATOR ASSEMBLY, MODEL DSV4B-206 (REV. A)
V-36912	D	PROPELLANT AND PNEUMATIC INTERCONNECT PLUMBING LC-39 (MAINTENANCE PROCEDURE) (REV. A)
V-36913	D	DOLLY, APS, TRANSPORTATION, TEST AREA MODEL DSV4B-635 (REV. A)
V-36916	D	S-IVB GSE STORAGE RACK MAINTENANCE PROCEDURE
V-36922	D	THRUST CHAMBER THROAT PLUG KIT, ROCKETDYNE MODEL G-3120 MAINTENANCE PROCEDURE (REV. A)
V-36923	D	THRUST CHAMBER PROTECTIVE PAD, ROCKETDYNE MODEL 9016705 MAINTENANCE PROCEDURE (REV. A)
V-36924	D	FUEL TURBINE TORQUE WRENCH KIT, ROCKETDYNE MODEL 9016711-21, MAINTENANCE PROCEDURE, (REV. B)
V-36925	D	TEST PLATE KITS, GFP ROCKETDYNE MODELS, MAINTENANCE PROCEDURE (REV. A)
V-36926	D	TURBOPUMP INLET DUCT TEST PLATE KIT, ROCKETDYNE MODEL 9016713 MAINTENANCE PROCEDURE (REV. A)
V-36927	D	PLATFORM ASSEMBLY, P/N 75M51609, TRACK ASSEMBLY, P/N 75M51608, AND PLATFORM P/N 79K00099 MAINTENANCE PROCEDURE (REV. A)
V-36928	D	INLET DUCT SUPPORT FRAME INSTALLATION TOOL KIT ROCKETDYNE MODEL 9025150 (REV. A)
V-36930	D	OXIDIZER DOME PURGE SHUTOFF PLUG KIT, ROCKETDYNE MODEL 9020784-11, MAINTENANCE PROCEDURE (REV. A)
V-36931	D	INTERFACE HARDWARE KIT, UMBILICAL CARRIER FWD AND AFT G,F,P, MAINTENANCE PROCEDURE (REV. A)
V-36932	D	ROCKETDYNE MODELS, 9024496, 9025424, 9025817, 9025419, 9025591, 9025826, MAINTENANCE PROCEDURE (REV. A)
V-36933	D	HANDLING KIT, SERVICING FIXTURE, APS TANK MODEL DSV4B-1929 MAINTENANCE PROCEDURE (REV. A)
V-36934	D	VERTICAL INSTALLER AND ENGINE SLINGS PROOF TEST WEIGHT, ROCKETDYNE MODEL 9025145 (REV. A)
V-36935	B	INDUSTRIAL WATER SYSTEM CONTINGENCY PROCEDURE LC-39B (REV. A)
V-37027	B	PROPELLANT MEASURING SYSTEM ELECTRONIC CHECKOUT UNIT OPERATIONAL READINESS TEST (REV. A)
V-38006	B	DIGITAL RANGE SAFETY COMMAND SYSTEM GSE ENVIRONMENTAL TEST CHAMBER OPERATIONS

C. SUBTASKS:

THE FOLLOWING LISTING PRESCRIBES THE SUBTASKS FOR THE AS-208 LAUNCH VEHICLE. TEST CATALOG SHEETS WILL BE FOUND IN THE CATALOG OF TESTS IN NUMERICAL ORDER. REVISION LEVEL OF THE TEST CATALOG SHEET SHOULD BE CLOSELY OBSERVED IN THE LISTING.

V-20131	B	SATURN S-IB VEHICLE LOX/LH2 TANKS AND FACILITY LH2 SYSTEM PURGE
V-21569	B	S-IB FORWARD SERVICE ARM ELECTRICAL FUNCTIONAL CHECKOUT AND SUPPORT FOR MECHANICAL TESTS (REV. A)
V-21575	B	S-IVB AFT SERVICE ARM ELECTRICAL FUNCTIONAL CHECKOUT AND SUPPORT FOR MECHANICAL TESTS
V-21576	B	S-IVB FORWARD SERVICE ARM ELECTRICAL FUNCTIONAL CHECKOUT AND SUPPORT FOR MECHANICAL TESTS
V-25098	B	LUT-PTCS TOWER INTERFACE CHECK
V-25418	B	LIQUID HYDROGEN SYSTEM PREPS FOR VEHICLE LOADING (REV. A)
V-28009	X	TELEMETRY CHECKOUT EQUIPMENT DAILY READINESS TEST (REV. A)
V-30494	D	S-IVB HYDRAULIC SYSTEM PREPARATION, OPERATION AND SECURING-INTEGRATED TESTS (REV. C)
V-30602	D	S-IVB PREPS, SUPPORT, AND SECURING FOR LAUNCH VEHICLE ELECTRICAL SYSTEMS TEST
V-30603	D	S-IVB PREPS, SUPPORT, AND SECURING FOR LAUNCH VEHICLE MALFUNCTION DAT
V-30604	D	S-IVB PREPS, SUPPORT, AND SECURING FOR LAUNCH VEHICLE PROPELLANT NETWORKS/VEHICLE INTERFACE TEST
V-30605	D	S-IVB PREPS, SUPPORT, AND SECURING FOR LAUNCH VEHICLE SERVICE ARM DAT
V-30606	D	S-IVB PREPS, SUPPORT, AND SECURING FOR PROPELLANT SIMULATED LOAD TEST (REV A)
V-30607	D	S-IVB PREPS, SUPPORT, AND SECURING FOR SPACE VEHICLE DAT #1 (PLUGS IN)
V-30608	D	S-IVB PREPS, SUPPORT, AND SECURING FOR SPACE VEHICLE BACKUP GUIDANCE SIMULATED FLIGHT TEST
V-30609	D	S-IVB PREPS, SUPPORT, AND SECURING FOR SPACE VEHICLE FLIGHT READINESS TEST
V-30610	D	S-IVB PREPS, SUPPORT, AND SECURING FOR CDDT AND LAUNCH COUNTDOWN (REV. B)
V-31011	I	IU UMBILICAL CABLE INSTALLATION (REV. D)
V-31012	I	SEPARATION SIMULATOR FUNCTIONAL (REV. G)
V-31042	B	LUT NETWORKS ELECTRICAL SUPPORT FOR LV MALFUNCTION OVERALL TEST AND SPACE VEHICLE SERVICE ARM OVERALL TEST (REV. E)
V-31045	B	LUT NETWORKS ELECTRICAL SUPPORT FOR CDDT & LAUNCH (REV D)

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C. SUBTASKS:

V-31046	B	LUT NETWORKS ELECTRICAL SUPPORT FOR SPACE VEHICLE FLIGHT READINESS TEST (REV. B)
V-31065	I	IBM SUPPLEMENTAL TO L/V FLIGHT SYSTEM REDUNDANCY TEST V-20070
V-31066	I	IBM SUPPLEMENTAL TO BACKUP GUIDANCE SIMULATED FLIGHT TEST V-20069
V-31109	B	LUT NETWORKS JUMPER/SIMULATOR INSTALLATION AND REMOVAL
V-31110	C	FLIGHT BATTERY DISCHARGE PROCEDURE
V-31112	C	FLIGHT BATTERY ACTIVATION PROCEDURE FOR 60C40072 FLIGHT BATTERY FOR S-IB (REV. C)
V-31114	C	FLIGHT BATTERIES PRE-ACTIVATION PROCEDURE FOR S-IB (REV. A)
V-31115	C	S-IB POWER APPLICATION AND REMOVAL (REV. A)
V-31116	C	GROUND ELECTRICAL SYSTEMS POST LAUNCH CHECKLIST
V-31117	C	S-IB STAGE FUNCTIONAL TEST (REV. D)
V-31118	C	INSTALLATION AND REMOVAL OF S-IB FLIGHT BATTERIES (REV. B)
V-31119	I	IBM SUPPLEMENTAL TO SATURN IB S/V CDDT AND CD
V-31120	B	INDUSTRIAL WATER ELECTRICAL SYSTEM OPERATIONS
V-31121	I	IBM SUPPLEMENTAL TO SATURN IB BACKUP GUIDANCE SIMULATED FLIGHT TEST V-20119
V-31122	I	IBM SUPPLEMENTAL TO SATURN IB FLIGHT READINESS TEST V-20120
V-31123	I	IBM SUPPLEMENTAL TO SATURN IB SEQUENCE MALFUNCTION TEST V-20103
V-31124	I	IBM SUPPLEMENTAL TO SATURN IB S/V OAT #1 TEST V-20117
V-31125	I	IBM SUPPLEMENTAL TO SATURN IB SWING ARM TEST V-20106 (REV. A)
V-31126	I	IBM SUPPLEMENTAL TO SATURN IB LV ELECTRICAL SYSTEMS TEST V-20101
V-31129	C	ELECTRICAL SYSTEMS PREPARATIONS AND SECURING FOR LV SERVICE ARM OAT (REV. B)
V-31130	C	S-IB STAGE AND ESE PREPARATIONS AND POST TEST SECURING OPERATIONS FOR ELECTRICAL SYSTEMS TEST
V-31131	C	S-IB STAGE AND ASSOCIATED ESE PREPARATIONS & POST TEST OPERATIONS FOR LAUNCH VEHICLE MALFUNCTION OAT
V-31133	C	S-IB STAGE, ESE, AND LSE ELECTRICAL PREPARATIONS AND POST TEST OPERATIONS FOR BACKUP GUIDANCE SIMULATION FLIGHT TEST AND FRT (REV. A)
V-31134	C	S-IB STAGE AND ASSOCIATED ESE PREPARATIONS AND POST TEST SECURING OPERATIONS FOR SPACE VEHICLE OVERALL TEST #1
V-31135	C	S-IB STAGE ELECTRICAL AND ESE PREPARATIONS AND POST TEST SECURING OPERATIONS FOR LV PROP, NETWORKS ELEC. INT. TESTS

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C. SUBTASKS:

V-31138	C	S-IB ESE PREPARATIONS AND POST TEST SECURING OPERATIONS FOR CDDT AND LAUNCH COUNTDOWN (REV. A)
V-32000	I	GROUND COMPUTER SYSTEM POWER UP/DOWN (REV. A)
V-32001	I	GROUND COMPUTER PREVENTIVE MAINTENANCE (REV. C)
V-33011	I	LAUNCH COUNTDOWN; ST-124M STABILIZED PLATFORM SYSTEM OPERATIONS (REV. G)
V-33013	I	COMBINED G&C SYSTEMS TEST; ST-124M STABILIZED PLATFORM SYSTEM OPERATIONS (REV F)
V-33029	I	I.U. FLIGHT CONTROL SYS PREP FOR DATS AND LAUNCH COUNTDOWN (REV. C)
V-33032	I	LVDC/LVDA SUPPORT OPERATIONS FOR OVERALL TESTS (REV. D)
V-33033	I	LVDC/LVDA SUPPORT OPERATIONS FOR COUNTDOWN DEMONSTRATION AND LAUNCH TEST (REV. D)
V-33035	C	VERIFICATION TEST OF S-IB PORTABLE SUBSTITUTE COMPUTER (REV. A)
V-33036	C	CALIBRATION AND FUNCTIONAL TEST OF S-IB ACTUATOR TEST BOX (REV. A)
V-33037	C	CERTIFICATION OF S-IB HYDRAULIC SERVICER (REV. A)
V-33038	C	S-IB FLIGHT CONTROL PRE-OPERATIONAL AND SECURING PROCEDURE
V-33039	C	S-IB FLIGHT CONTROL SYSTEM PREPARATIONS AND SECURING OPERATIONS FOR OVERALL TESTS
V-34010	D	S-IVB HYDRAULIC SYSTEM-AUXILIARY PUMP AIR SUPPLY TANK CHARGE (REV. C)
V-34011	D	S-IVB HYDRAULIC SYSTEM ACCUMULATOR CHARGE (REV. B)
V-34050	C	S-IB HYDRAULIC SYSTEM PREPARATION AND SECURING PROCEDURE (REV. A)
V-34051	C	PREPARATION OF PNEUMATIC SUPPLY PANELS (REV. A)
V-34052	C	PREPARATION FOR USE OF GEARCASE PRESSURE, CONTROL SYSTEM PRESSURE, AND HYDRAULIC PRECHARGE PRESSURE MONITOR GASES (REV. B)
V-34054	C	PROPELLANT CONTAINERS PRESSURIZATION (REV. A)
V-34055	C	PROPELLANT CONTAINERS VENTING (REV. A)
V-34056	D	BATTERY FIT VALIDATION FORWARD & AFT
V-35003	B	LH2 SYSTEM-MECH PREP & SECURING FOR SIMULATED LOADING [43082-AF] (SD SUPPORT) (REV. B)
V-35020	B	RP-1 INTERFACE PROCEDURE (REV. A)
V-36000	B	HYDRAULIC CHARGING UNIT STANDARD OPERATING PROCEDURE
V-36025	B	INDUSTRIAL WATER SYS PREPS FOR VAB SIM [43081-0] (SD SUPPORT)
V-36035	B	S-IVB AFT SERVICE ARM LOCAL CONTROL OPERATION
V-36036	B	S-IVB FORWARD SERVICE ARM LOCAL CONTROL OPERATION
V-36037	B	SERVICE MODULE SERVICE ARM LOCAL CONTROL OPERATION
V-36052	B	HYD. DISTRIBUTION SYSTEM PREP FOR INTEGRATED TEST (REV. A)

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C. SUBTASKS:

V-36053	B	S-IVB AFT SERVICE ARM SUPPORT OPER FOR S/A OVERALL AND S/A COMPAT TEST (REV. D)
V-36057	B	SERVICE MODULE SERVICE ARM OPER FOR S/A OVERALL AND S/A COMPAT TEST (REV. B)
V-36063	B	SERV MODULE DELUGE PURGE SYSTEM LAUNCH CONFIGURATION PREPARATIONS (REV. C)
V-36064	B	PNEU DIST SYS PREPS FOR LAUNCH (40093-1AQ) (SD SUPPORT) (REV. A)
V-36079	B	HYD DISTRIBUTION SYS PREPS FOR COUNTDOWN TST (REV. A)
V-36082	B	S-IVB AFT SERV ARM SUPPORT OPER FOR CDDT & LAUNCH (REV. C)
V-36084	B	SERV MODULE SERV ARM SUPPORT OPER FOR CDDT & LAUNCH (REV. C)
V-36085	B	COMMAND MODULE ACCESS ARM SUPPORT OPER FOR CDDT & LAUNCH (REV. B)
V-36086	B	DAMPING RETRACT/RECONNECT SYS SUPPORT OPER FOR CDDT & LAUNCH (REV. C)
V-36087	B	LSE MECH OPS FOR SUPPORT OF MAJOR INTEGRATED TESTS (REV. B)
V-36094	B	PRIMARY DAMPING SYSTEM SUPPORT OPERATIONS FOR LUT MOVE TO PAD (REV. B)
V-36096	B	S-II INTERMEDIATE SERVICE ARM PROPELLANT LINE VACUUM MONITORING AND MAINTENANCE PROCEDURE
V-36098	B	S-IVB AFT SERVICE ARM PROPELLANT LINE VACUUM MONITORING AND MAINTENANCE PROCEDURE
V-36107	B	S-IVB FORWARD SERVICE ARM SUPPORT OPERATIONS FOR LSE VAB AND PAD ELECTRO-MECHANICAL SYSTEMS TESTS (REV. A)
V-36109	B	SERVICE MODULE SERVICE ARM SUPPORT OPERATIONS FOR LSE VAB AND PAD ELECTRO-MECHANICAL SYSTEMS TESTS
V-36114	B	SERVICE ARM SYSTEMS POWERED EXTENSION PLATFORM OPERATION
V-36133	B	SERVICE ARM HINGE CYLINDER REMOVAL AND INSTALLATION PROCEDURE
V-36134	B	SERVICE ARMS AND DAMPING RETRACT - RECONNECT SYSTEMS FLEX HOSE ASSEMBLIES INSPECTION (REV. A)
V-36136	C	S-IB FIRING ACCESSORIES PREPS FOR LAUNCH (REV. A)
V-36138	C	FIRING ACCESSORIES PREPS FOR LV MALFUNCTION OAT (REV. A)
V-36139	C	FIRING ACCESSORIES PREPS FOR SERVICE ARM OAT (REV. A)
V-36141	I	IU UMBILICAL HOUSING AND EJECT PLATE P/M
V-36142	B	S-II FORWARD AND S-IVB FORWARD SERVICE ARMS VENT LINE CO_2 MONITORING AND MAINTENANCE PROCEDURE (REV. A)
V-36143	B	SPARE PROPELLANT LINE CO_2 AND VACUUM, MONITORING AND MAINTENANCE PROCEDURE
V-36144	B	S-IB SERVICE ARM CONTROL SWITCH PREPS FOR LAUNCH
V-36145	B	S-IB SERVICE ARM CONTROL SWITCH PREPS FOR SERVICE ARM INTEGRATION TESTS AND LSE EM TEST
V-36146	B	S-IB SERVICE ARM CONTROL SWITCH PREPS FOR SERVICE ARM OAT

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C. SUBTASKS:

V-36150	B	ENVIRONMENTAL CONTROL SYSTEM PROPELLANT LOADING SUPPORT OPERATIONS/LC-39B
V-36154	B	S-IB FORWARD SERVICE ARM SUPPORT OPERATION FOR SWING ARM OVERALL AND SERVICE ARM COMPATIBILITY TEST
V-36155	B	S-IB FORWARD SERVICE ARM SUPPORT OPERATION FOR COUNTDOWN DEMONSTRATION TEST (CDDT) AND LAUNCH
V-36156	B	S-IB FWD SERVICE ARM SUPPORT OPERATIONS FOR LSE VAB AND PAD ELECTRO-MECHANICAL SYSTEMS TEST
V-36161	B	S-IVB FORWARD SERVICE ARM SUPPORT OPERATIONS FOR LSE VAB AND PAD ELECTRO-MECHANICAL SYSTEMS TESTS
V-36163	B	S-IVB FORWARD SERVICE ARM SUPPORT OPERATION FOR SWING ARM OVERALL AND SERVICE ARM COMPATIBILITY TEST
V-36165	B	S-IVB FORWARD SERVICE ARM SUPPORT OPERATION FOR COUNTDOWN DEMONSTATION TEST (CDDT) AND LAUNCH
V-36167	B	LAUNCH SUPPORT EQUIPMENT MECHANICAL OPERATIONS FOR SUPPORT OF MAJOR INTEGRATED TESTS
V-36914	B	INPLACE CALIBRATION OF SERVICE ARM OPERATIONAL PRESSURE TRANSDUCERS
V-36937	B	INDUSTRIAL WATER SYSTEM PREPARATIONS FOR CDDT AND LAUNCH LC-39B (REV B)
V-36939	C	PNEUMATIC SYSTEM PREPS AND VERIFICATIONS FOR LV OVERALL TESTS
V-36940	C	PNEUMATIC SYSTEM PREPS AND VERIFICATIONS FOR RP-1 LOAD
V-36941	C	PNEUMATIC SYSTEM PREPS AND VERIFICATIONS FOR CDDT AND COUNTDOWN
V-37015	C	S-IB STAGE VEHICLE MEASURING LAUNCH PREPARATIONS
V-37038	B	HAZARDOUS GAS DETECTION SYSTEM MAINT, PROCEDURES
V-38000	B	DRSCS GSE STAGE - VEHICLE SUPPORT - PAD, VOL II (REV. A)
V-38001	B	DRSCS GSE STAGE - VEHICLE SUPPORT - VAB, VOL II (REV. B)
V-38007	C	SATURN IB RF SYSTEMS PRETEST PREPARATIONS
V-38008	C	DRSC FLIGHT CODE PLUG INSTALLATION
V-38009	C	S-IB TELEMETRY SYSTEMS PRETEST PREPARATIONS
V-38010	C	TCE STAGE MODULE PRETEST PREPARATIONS
V-38011	C	RF AND TELEMETRY PLUGS OUT OAT PREPARATIONS AND SECURING
V-39008	C	HDA EXPLOSIVE RELEASE INSTALLATION AND REMOVAL (REV. A)
V-39009	C	ELECTRICAL CHECKOUT PROCEDURE FOR HOLDDOWN ARM EXPLOSIVE RELEASE-DUPONT X696 (REV. A)
V-39010	C	ELECTRICAL INSTALLATION PROCEDURE FOR HOLDDOWN ARM EXPLOSIVE RELEASE-DUPONT X696 (REV. A)
V-39011	C	ELECTRICAL CHECKOUT - PROPELLANT DISPERSION EBW DETONATORS (REV. A)
V-39012	C	ELECTRICAL CHECKOUT - PROPELLANT DISPERSION S&A UNIT (REV. C)

(CONTINUED)

C. SUBTASKS:

V-39013	C	ELECTRICAL CHECKOUT - SOLID PROPELLANT GAS GENERATOR INITIATOR (REV. B)
V-39014	C	ELECTRICAL CHECKOUT - CONAX VALVES (REV. B)
V-39015	C	ELECTRICAL CHECKOUT - S-IB POWER TRANSFER SAFETY SWITCHES (REV. A)
V-39016	C	ELECTRICAL CHECKOUT - LIQUID PROPELLANT GAS GENERATOR SQUIBLESS IGNITERS (REV. A)
V-39017	C	INSTALLATION PROCEDURE FOR THE PROPELLANT DISPERSION SYSTEM (REV. A)
V-39018	C	INSTALLATION PROCEDURE FOR S-IB CONAX VALVES NA-5-260180 OR ALTERNATE VALVE 411034 (REV. B)
V-39019	C	INSTALLATION OF HYPERGOLIC IGNITER CARTRIDGE
V-39020	C	INSTALLATION PROCEDURE FOR GAS GENERATOR AUTO IGNITER (REV. A)
V-39021	C	INSTALLATION OF THE SOLID PROPELLANT GAS GENERATOR (SPGG) (REV B)
V-39022	C	INSTALLATION OF SOLID PROPELLANT GAS GENERATOR INITIATORS (REV B)
V-39023	C	INSTALLATION PROCEDURES FOR SAFE AND ARM DEVICES (REV. A)
V-39024	D	STAGE SEPARATION SYSTEM INSTALLATION
V-39025	D	PROPELLANT DISPERSION SYSTEM INSTALLATION
V-39026	D	ULLAGE ROCKET JETTISON SYSTEM INSTALLATION (REV. A)
V-39027	D	ULLAGE ROCKET INSTALLATION
V-39031	D	RETRO ROCKET FAIRING INSTALLATION S-IVB/IB

END

DATE

FILMED

JAN 3 1974