

SAO-HRC-LOG-97-277
DR# SCM10
Data Type: 3

Volume III

HRC-500

HIGH RESOLUTION CAMERA (HRC)

LOG BOOK

Prepared in accordance with DR# SCM10

Prepared for:
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, AL 35812

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The Smithsonian Astrophysical Observatory
is a member of the
Harvard-Smithsonian Center for Astrophysics

EQUIPMENT LOG BOOK

1.0 PURPOSE

A contractual requirement exists to maintain an accurate chronology of one or more tests in an equipment log book as they are performed on a system or subsystem. Data entered in the equipment log book will facilitate a quality assurance assessment of a system or subsystem.

The equipment log book provides a running account for all periods of time, including idle periods, specific events and movements of hardware from the time of initial electrical and mechanical activation to the time of shipment. It is imperative to record all events as they occur.

Entries must be complete and entered such that a reviewer can reconstruct the history of the hardware during any interval.

Each equipment log book contains 50 life history forms to be completed according to the instructions provided in paragraph 2.0. When the equipment log book becomes filled, it shall be returned to the project engineer, and an additional log book shall be issued, with the requirement that the volume number shall be changed to the next highest number. When the particular equipment log book activity is completed, the last volume used shall be returned to the project engineer to add to the documentation required for this DR.

2.0 FORM COMPLETION

This paragraph provides guidance in completing each life history form. In addition to the prime purpose of testing, the equipment may also be categorized as follows:

- Repairs: corrective action for operating failures.
- Preventive maintenance: an action to prevent failures, including replacement of age-sensitive component parts and materials, and retrofitting components and subsystems where required.
- Storage: a status where the hardware will be inactive.
- In-transit: a status where the hardware is transferred from one location to another.

2.1.1 Page of Pages. Number each page sequentially in the first box and write the number 50 in the second box.

2.1.2 Event No. Each event shall be numbered sequentially. This number will provide reference without the need to repeat the entry information.

2.1.3 Subject. The nature of the event in brief, such as ATP, QTP, Repair.

- 2.1.4 Date. Record the date of the event in military format: the day of the month using one or two digits, followed by the first three letters of the month, followed by the last two digits of the year; e.g. 24 Nov. 90.
- 2.1.5 Summary of Chronological Events. The items to be covered shall include the description of the events printed on the form under this category, as well as any other event of interest. In addition, a separate line entry shall be made stating the change whenever the equipment is moved to another location. Also, a separate line entry shall be made whenever a failure occurs; note the type of failure and the failure report number under the event subject heading.
- When the equipment is under test, the line entry shall include the test paragraph and the nature of the test.
- When replacements are made during installation, testing and final checkout, indicate the serial and part numbers of articles removed, as well as those substituted.
- 2.1.6 Running Time/Other. The four categories under this topic are explained below:
- Start: Note the time when the event has started, using military time. For example PM is 1500 and midnight is 0000.
 - Stop: Note the conclusion of the event using military time as described above.
 - Total time: This category is the elapsed time for each event as determined by the difference between Start and Stop. This may be recorded in either hours and minutes or in operating cycles of a known character, whichever is applicable. When entered as hours and minutes, the hours digits are followed by a colon followed by two digits; e.g. 4:32.
 - Cumulative total: This category represents the sum of the elapsed time entries brought forward.
- 2.1.7 Stamp or Initial. The person entering an event shall initial each completed event.

START OF CDT

LIFE HISTORY

EVENT		DATE	SUMMARY OF CHRONOLOGICAL EVENTS TEST DOCUMENT NUMBER/TEST DESCRIPTION/NATURE & DESCRIPTION OF MALFUNCTIONS/SERIAL NUMBER OF REMOVED OR REPLACED PARTS/MODIFICATIONS/ ADJUSTMENTS/REPAIRS/MAINTENANCE/SHIPPED/RECEIVED/ENVIRONMENT/ETC.	RUNNING TIME/OTHER (HOURS AND MINUTES)			PAGE OF PAGES
NO.	SUBJECT			START	STOP	TOTAL TIME	CUM. TOTAL
670	HANDLING	14/03/97	HRC REMOVES FROM BAUL MIGSE AND PLACED ON A NON PORT TABURE IN CLEAN ROOM. HRC IS STILL ATTACHING TO A BAUL ADAPTER PLATE WHICH IS RESTING ON TWO PC'S ONE CHANNELED ON TOP OF TABLE, PURGE LINES REMOVED TEMPORARILY (~20 MIN) ENTIRE HRC WAS MOVED FROM ROOM OFF CLEAN ROOM TO FRONT CORNUE.				
671	IMG DUT	4/14/97	CONNECT CTUE/RCV/TCU/CAL CABLES TEST IN 2K HRC IS IN CLEAN ROOM, GSE IS OUTSIDE CLN ROOM OUTSIDE CH.			1800 COT	JG
			VERIFIED 28V POWER SUPPLY SETTINGS	2012			
672	DOT TEST	4/14	RUN CMD GSE PURGE I.CMD (TOOK CTUE FILES TLM1002.D4, DS)	I = 1,363	2015		JG
	HRC-I					2042	JG
673		4/14	POWER DOWN (POWERDOWN.CMD) B/S SW OFF, P/S OFF, TEST GO OFF			2045	JG

LIFE HISTORY				PAGE OF PAGES	
EVENT NO.	SUBJECT	DATE	SUMMARY OF CHRONOLOGICAL EVENTS	RUNNING TIME/OTHER (HOURS AND MINUTES)	STAMP OR INITIAL
674	pwrup I	4/15	POWER UP FOR TESTS OF A/B TRIGGER LETTERS Pwrup I. Cmd Side A - IMG DET. w/ NO TEST INJECT SIGNALS, CAN LOWER TRIGGER TO SD2903 (SD2902 HAS ~ 20-30 TE COUNTS) WITH 0 TOTAL EVENT RATE.	0820 1.39A 0828	✓
			FILE TL002 TL00 NEEDS SD2906 TL00 FOR TE TO BE ZERO.		
			FILE TL006, @ 2905 TE = VE = 98 NEEDS SD2911 TU BE 0.		
			RUNS GREAT, EVER AT 2904 - BUT SOME EXTRA EVENTS @ 2903.		
			USING LFFT PROC. w/ TL002 + SD2904, HAVE TE = VE ~ 30 / SEC. (PROC. HAS 0%). @ TL006, TE = VE = 97-98.		
			PURDOWNS @	0943	GKA
			PUMP DOWN ISAM97 STAYS PUMP DOWN OF HEC WITH PUMP CART LOCATED OUTSIDE OF CROWN 200' M. BACKING, LINE IS 15' LONG (ALL SECTIONS USED)		

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START	STOP	TOTAL TIME	CUM. TOTAL				
615	pwrup S	TRIG LVL TEST w/ SPECT DETERMINE pwrup S. cmd	0945 1.39A				
TL002,	Sd 2904	TE ~ 5/s (TRIG IS 5/s)					
TL006,	TE ~ 97-98 OK						
② TL002,	Sd 2905	YIELDS TE = 0.					
		Powerdown	0957				
616	TRIG CHK, SIDE B SP	VERIFIED A B A B A B (TO RUN HRC-S ON SIDE B) (No HV)	1000				
		Bus B on	T = 100 ms				
		init b. cmd (LV RDGS NORMAL)	I = 1.363				
		Spect b. cmd (SET S TO SIDE B) - VERIFIED					
		TL002, Sd 2904	TE ~ 40/s				
		TL006,	TE 97-98 OK				
		② TL002, Sd 2905	YIELDS TE = 0				
			5pf				
			1012				

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NO.	SUBJECT	START	STOP	TOTAL TIME	CUM. TOTAL
6/17	TRIG CLK SIDE B, M	SEND PWRCFG 2, GET A/B/A+B (OK) Pwr bus B ON, 103 mA 1A1fb.cmd 1,364, LV (OK) 1 Magb. cmd $I = \text{SIDE } B (\text{OK})$	1015		
		TR002, Sd 2904 TE ~ 15/s (TE=VG)			
		Sd 2905 41E2DS TE=0			
		TR006, Sd 2904 TE = VE = 97,98			
		∴ SIDE A PERFORMANCE SEEKS TO BE IDENTICAL TO SIDE B (IT WAS NOT IN CAMBRIDGE AND AT BARE).			
		Spt	1024		
6/18	Shrtf test Shrtf test	4/15 Pwrup I. cmd (prep for shield tests)	1.3PA	1150	KI
		Shrtf. cmd OK, PWRLOG = 8P, SH RATE ~ 15/s			
		Step 4, 24/s; step 8 ~ 50/s, step 12 didn't take, step 8.			
		APR 15 ~ 17:02. (GMT).			
		SEND STEP 12 MANUALLY 060C. SH R ~ 130-170/s. APR 15 ~ 17:02. (GMT).			

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619 SHIELD 2 TESTS				w/ Co60 SOURCE, RATE ~ 14 500 /s.					
				HP POWER SUPPLY ACCIDENTALLY TURNED OFF	1207				
				POWER UP w PCFG1. cmd ABABBA	1208				
				bus A, 99ma (OK)					
				initial. cmd 1.38A (OK) LV OK					
				SH2G. cmd SIDE A = SH 2 OK					
				S2HVN.cmd Oy, Analog = 87 ~ 90 / SEC.					
				S2HVO4. cmd Analog = 85, Step 4 ~ 130-170 / SEC					
				w/Co60 SOURCE, RATE ~ 13200 /s.					
				TRUE R/O mt16,w385 IS 34. REM SOURCE = 0.	1220				
				PWRDOWN. cmd	1220				
				ACCESS PANEL					
620 ACCESS PANEL				START REMOVAL OF ACCESS PANELS	1222.				
630 PWUP I				PWPS TO LOOK AT HV RIPPLE					
				PWUP I. cmd 99m → 1.384	1357				
				if PT0387 - pulses propagate ok					

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631	90 KHz	15A057	TURNED ON UN-TESTED STOP 0. STARTED DATA FILE IN STATION A PRIOR TO TURN-ON.				6	
	Instrumental		BUT BEFORE TURN-ON SOUND TRIGGER NOISE ~ 10 mV P-P, FREQ < 90 KHz					
			NO CHANGES AT TURN-ON.	15215				GMA
			SCATTERED PULSES OCCURRED SIMULTANEOUSLY IN SWING VOLTAGE RATING PH DISTRIBUTION /	1521				GKA
			PULSE RATE STOPS, THEN RESTARTED	15223				
			PULSE RATE STOPS AFTER ATTTEMPTS TO SWING PULSES INVERTED LINES, WHICH IMPROVED DISTRIBUTION.					
			Raised REAR PLATE VOLTAGE TO 112V (SdOB13)	1530				
			NOISE LEVEL 60mV P-P @ 112V (SdOB13)					
			Raised FRONT PLATE VOLTAGE TO 110V (SdOB08)	1532				
			Raised REAR PLATE VOLTAGE TO 110V (SdOB18)	1534				
			NOISE LEVEL 42mV					
			TRANSITION FRONT PLATE VOLTAGE TO 210V (SdOB08)					
			NOISE LEVEL NO CHANGE	1535				
			DYNAMIC PRESSURE 1.7 x 10^-5 AT CLOSURE	1536				GKA

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631	15 NOV 07	Front	PLATE TO 310V	(S) 0016	GVA
			NO CHANGE		
			Front PLATE TO 310V	(S) 0012	
			NOISE NOW 60mV P-P	1536	
			INABLE INPUT CL	(S) 0001	1538
			Rear PLATE TO 413V	(S) 0022	1541
			NOISE DOWN TO 50 mV P-P		1542
			Front PLATE TO 410V	(S) 0017	
			NOISE UP TO 70 mV P-P	1544	
			Rear PLATE UP TO 513V	(S) 0027	
			NO CHANGE		
			Front PLATE TO 510V	(S) 0014	
			NOISE 30 mV P-P		1546
			HV OFF	(with noise)	1547
	15 NOV 07	Front	SYNCH TO HVC-S	(Aspect)	1547
			NOISES SCOPES TO SURF OF AIR 3 HVC-S STAGES,	1551	
			STANDBY DATA RUN S370415b		1554
			NOISE 6 mV P-P WITH NO 1000 KHz		
			TURN ON SPOT HV HVSP0000		1555
			GRABUN CWR. LIMIT (S) 0001		1556
			NO CHANGE IN NOISE		

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				START	STOP	TOTAL TIME	
632 (cont'd)	15 APR 97	Planes	No 155 C170				
		ROTOR	100	150 mV	SD 0313	1558	GKA
		Front	91	180 mV	SD 0208		
		ROTOR	200	215	SD 0318	1600	
		Front	191	250	SD 0208	1601	
		ROTOR	300	275	SD 0318	1601	
		Front	291	300	SD 0212		
		ROTOR	400	350	SD 0322	1602	
		Front	391	350	SD 0217	1603	
		ROTOR	500	390	SD 0327	1603	
		Front	491	400	SD 0210	1604	
		LN OFF		all hrs off		1605	GKA
633	PLN OFF 15 APR 97	Sent Purdown					GKA
634	PRESSURE 15 APR 97	PRESSURE 1.5 / 1.6 X 10 ⁻⁵ AT CLUSTER					GKA
		" 2.0 X 10 ⁻⁶ " "					GKA
635	TEMP READING 16 APR 97	COLD TURB ON FOR TEMPERATURE DATA	0818				
		JHC DATA, CTUE TLM DATA.					
		Pureff. cmd	0956				

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638 cont'd	16APR97	FE-J 34 - 5258 02					10
		FE-J 17 - 5253 02					
		FE-J 18 "			05		
		FE-J 19 "			03		
		FE-J 20 "			01		
		TEMPORARY RE-INSTATEMENT ACCESS PANELS TO PROTECT PWB's DURING SUBSEQUENT HANDLING					
639	Phasing	16APR97 PRESSURE : 5.7×10^{-6} @ CUSTOME				1205	GKA
		17APR97 4.7×10^{-6} "				1731	GKA
		4.5×10^{-6} "				0804	GKA
						1332	
640	Pipe cap	17APR97 CLOSING BLOCK VALVE ON HEC § REPRESSURE PURPOSE . ROTATIONAL CONNECTION OF PLATE CUSTOME				1445	
		AT BLOCK VALVE TO PORTAIT ROTATION OF HEC .					
641	DETACH	17APR97 REMOVED HRC FROM BANK 1/F PLATE FROM BAKER PLATES				1456	
		§ INSTALLED IT ON ITS OWN TRANSIENT					
642	HE	17APR97 ROTATED HRC TO THE TX UP POSITION FOR ROTATION					GKA
		SECTION 2 OF SP-HRC-SS05				1846	GKA

1876
1926

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7/18

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650	17 Apr 97			SORT A DOT FROM PURSER'S DOGS APPROX ON RAD & ROLLING DISPLUN ON CUDISOP IS WORKING				
651	22 Apr 97			STARTED NEW IMAGE FOR ZUZU STC & SANT FIVE DOT TESTS PARK DOWN	1838			1838
652	22 Apr 97			SENT PARKDOWN, SHD. BOTH CUDISOP & DESIDEN FLASHING W/O TURNING OFF HRC. HRC TURNED OFF @ BUSS SWITCH BOX & LIPPS	1853			1853
653	23 Apr 97			VACUUM @ 9:10 AM 1.4 X 10^-6 REBOOTED ALL 5 COMPUTERS. STARTED UP AGAIN, ABLE TO CONNECT CTUE, LANTWPHYSIS & NECL1701A & WALLS, BUT CANNOT CONNECT TO NETSI WHEN OTHERS ARE CONNECTED TO ITSELF ONLY. CTUE SHUT DOWN, THANKS BLACK BALLS ON DISPLAY. PLACED INTO NETSI, BUT PORTALLED DOWN ON CTUE & RECONNECTED BOARD. CAN'T CONNECT CTUE NOW, BOTTOME KONEK & TRY AGAIN	07:00			0803
				CTUE HAS BEEN STABIL				0803
				1738				0803

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EVENT NO.	SUBJECT	DATE 23M0257	TEST DOCUMENT NUMBER/TEST DESCRIPTION/NATURE & DESCRIPTION OF MALFUNCTION/SERIAL NUMBER OF REMOVED OR REPLACED PARTS/MODIFICATIONS/ ADJUSTMENTS/REPAIRS/MAINTENANCE/SHIPPED/RECEIVED/ENVIRONMENT/ETC.	START	STOP	TOTAL TIME	CUM. TOTAL
654	Run Up	23M0257	STATIONED DATA FILE IN 0970423a STATIONED FILE PURUP J (NOTICE THAT TODAY PURUP IS WRITTEN FOR STATION ALONE NODE. TYPHEN TURN YESTERDAY THE FILE CALLED UP WAS THE ONE USED FOR CALLING) THE PURUP FILE JUST USED IS IN THE /easy Directory. Comparison son WITH /sci PURUP FILE SHOWS THAT YESTERDAY'S LAST WORK WAS WHILE RUNNING IN THE /sc, DIRECTORY WHICH PRESENT HAS THE LATEST +/HOME SUSPENDED.	12:40			
655	HPC-T	23M0257	Running off /sci & /easy containing LOGS SHOWS THAT WAS WORK VARIOUSLY IN THIS /easy & /sci DIRECTORIES LAST WORK, BUT THAT RECENT MEASUREMENTS ON 16 APR WERE DONE IN /sci. ... PURUP-DOWN TO CENTER UP IN /sci ON BOTH MACHINES			1323	1323
	LOW DOTS		PURUP J. crd			1324	1330
	HV OFF		STATIONED FILE IN 0970423b FOR TOTAL				GMA

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656	RIPPLE TEST	23APR97	SORT UP TO MEASURED RIPPLE AS HV ON IMAGOR	*					
			IS INCREASED LOADING @ FAST IS SLOW SIGNALS ON MCP AITE BD TEST POINTS J1-11 & J1-13 RESPECTIVELY. WITH PULSES BEING INJECTED, PEAK OF SLOW SIGNAL OCCURS AT ZERO CROSSING OF FAST SIGNAL. STARGRO DATA FILE 10970423b						
			Sd CMDS NOMINAL SLOW SIG HV/PULSE SLOWING P-P						
			N/A HV OFF 10 mV (HV ON) 0 V 20 mV Ob19,0a00 100 V 50 mV [HV OFF] VALUES SENT IN OB'S OR WIRE DECIMAL VALUES, SHOULD HAVE BEEN HV RESTAUR TEST)						
			HV OFF 15mV 0 V 20 mV Ob13,0a08 100 V 40 mV Ob18,0a0d 200 V 50 mV Ob1d,0a12 300 V 60 mV Ob22,0a17 400 V 100 mV GVA						

* ENTRIES ON PGS 15 - 20 TRANSCRIBED FROM CURN ROOM NOTES.
SEE CMS LOGS FOR EXACT TIMES OF CMS & DATA FILES FOR DATA ACUM, TIMERS

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656	CONT'D		Ob 27, 0a1c	500 V	100 mV	$\Sigma U_{Ripple} = 200 \text{ mV}$	$\sum V_{Ripple} = 400 \text{ mV}$	
			Ob 28, 0a21	600 V	120 mV			
			Ob 31, 0a26	700 V	140 mV			
			Ob 36, 0a26	800 V	160 mV			
			Ob 35, 0a30	900 V	180 mV			
			[PULSON TURNED OFF]					
			Ob 40, 0a35	1000 V	200 mV			
			Ob 45, 0a30	1100 V	240 mV			
			Ob 4a, 0a35	1200 V	260 mV			
			Ob 45, 0a44	1300 V	320 mV			
			Ob 54, 0a40	1400 V	350 mV	FAST $R_{Ripple} = 180 \text{ mV}$		
			Ob 58, 0a40	1480 V	400 mV	FAST = 200 mV, $\Sigma U = 360 \text{ mV}$, $\Sigma V = 960 \text{ mV}$		
			CURRENT LIMIT ENABLING					
			SLOW TO FAST PHASING OF RIPPLE					
			SLOW					
			FAST					
			— FAST IS LOW @ SLOW ZERO CROSSING.				SIVIA	

LIFE HISTORY

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657	11/25/81	Z3907	TERMINATED PROGRAMMING DATA FILE IS STARTED LOW DOTS W/HV ON	A NON ONE, LOG970423 &, IS STARTED IDOTSL ON DULSON			
				ABORTED TEST BECAUSE RESET AND MAY NOT HAVE BURN DONE. STARTED A NEW DATA FILE, LOG970423 & IS RESET PURSON.			
				HV TRIPPED OFF DURING TEST . TEST TERMINATED WITH ONLY PARTIAL DOT PATTERN.			
658	11/25/81	Z3907	STARTED NEW DATA FILE LOG970423S AND HV ON TURNED ON HV @ 0 AND RAMPED UP TO OPERATING VOLTAGE USING CNDSC HV IN 0000. CNDSC " 05500. "	" 1000. "	" 1200. "	" 1300. "	
				" 1400. "	" 1480. "	" 1480. "	
							ENABLING CURE. LIMIT W/ SLOC01

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659	Door	23APR07	Sent File CALOPEN.CMD . STARTED A SOURCE	New DATA FILE IN 0970423 AND DID A 1000 SEC ACCUMULATION. SENT CALCULUS, AND AND AUTH/OFF. CMD				
660	PWR Down	23APR07	SENT POWERDOWN.CMD	MANAGED UPS OUTPUT, SWITCHED BUS SWITCH TO B'S SENT INITBS.CMD . PULSE TURNED ON. [still in PGFG0]				
661	HRC-S on	23APR07	SIDE B	STARTED DATA FILE S0970423H AND PULSE FILE SHOTS1. ΣU NOISE = 120 mV				
662	HRC-S	23APR07	VAN DOTS W/H OFF	ΣU NOISE = 140 mV				
663	HRC-S	23APR07	RIPPLE TEST	TOPOTEST RIPPLE TEST OF STER 656 EXCEPT NON TURNING ON HRC-S HV BEING B SIDE INTEGRITY.				
			SD CMOS	NOMINAL SWIND SIX.	HV/PULSE	PIPES		
					OFF	15mV		
					ON	20mV		
					100V	200mV		
					03130208	100V		SIKA

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663	CONT'D	23APR257	0318, 0208	200V	260 mV					
			0318, 0212	300V	320 mV					
				[STARTED DATA FILE S0970423]						
			0322, 0217	400V	380 mV					
			0327, 0218	500V	420 mV					
			0328, 0221	600V	480 mV					
			0331, 0226	700V	540 mV					
			0336, 0226	800V	600 mV					
			0336, 0230	900V	640 mV	TIE RATE = N25				
				[FOUND THAT T/H CWD IN INITBS WAS S22914. LOOKED AT INITAS & FOUND IT SHOULD HAVE BIDAN S22928. CWD WAS SICK] TIE RATE → O						
			0340, 0235	1000V	700 mV					
			0345, 0238	1100V	760 mV					
			0348, 0238	1200V	800 mV					
			0348, 0244	1300V	860 mV					
			0354, 0249	1400V	960 mV					
			0359, 0242	1500V	1000 mV					
			0358, 0253	1600V	1100 mV					
			0362, 0257	1680V	1150 mV	Σ U Ripples = 105 mV, Σ V = 195 mV				
			Sd001	CURRENT LIMIT DISABLING.						ELA

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664	HRC-S	23 APR 97	STARTED NEW DATA FILE S0970423; AND LOD DOTS W/HV ON				
			DOT MISSING IN FIRST SEGMENT. NOTED ONE UNTIL PAST THAT LOCATION ON 2ND SEC. DOT ADDED ON SIGA. 2. TERMINATED				
665	SIGA/FAST	23 APR 97	DATA FILE 3 PULSER. SIGNING OF RAPPE IN FAST IS Slow SIGNALS WAS THE SAME AS FOR HRC-T. RAPPE ON FAST SIGNAL SHOWS SOME DISTORTION				
666	HRC-S	23 APR 97	SUN CALOPEN, CMD. STARTED DATA FILE DOORSOURCE S0970423SK FOR 1000 SEC. TEST ABORTED @ N 700 SEC DUE TO LARGE NUMBER OF SATURATION OUTPUTS FROM ADC'S ON U-AXIS.				
			PULSE HGT NOT SATURATING IN 30-40.				
667	PNL OFF	23 APR 97	SUN AUTOOFF CAUSES PNLDOWN CONNECTIONS BNC PULSER TO HRC-S PULSER				
668	VNA/HV	24 APR 97	PULSE HGT TEST HV OFF WITH CAP'S INSTALLED IN THRU. USED TRIGGER HZ. USED THE VNA GENERATOR TO SWEEP PULSE AMPLITUDE OVER RANGE 255 TO 16.				
			TURNED ON HRC-S USING BUS B AND				

↑ For settings on pulser's wave generator, see
Attached sheet.

FIR Race 955 → 16

507 77 ← 2904

To power up

Users INITBS BUS B

FREQ 175 Hz

Performance EXT

REL +

10 IN

10 OUT

5 IN

ATTEN 8 OUT

RAMP = 0.8

RANGE = 10

Ts = 200

TR = 1.

NOEM = 10

Pulse

MDE = RDE

OFFSET + GND

✓ WAVEFORM TRIG

Square

AMPL HV

FREQ 10 MHz

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668 cont'd	24 APR 87	INIT BS.	SET T/H TO SD2904 TO GRT LOW PULSE NETS. STATION DATA FILE S0370424 AND RAIRPOS PULSE NETS				
			FL011 low TO HIGH TO LOW.				
669	PURGEON 24 APR 87	CONT PURGEON	PRESSURE @ CUSTON 1.3 X 10 ⁻⁶	0855		0855	GVA
G10	PRESSURE 24 APR 87			1.3 X 10 ⁻⁶		1258	GVA
671	PUL UP 24 APR 87	LENABUDU UPS OUTTONS & SIGN BUS SWITCH					
SPCA/B		TO B. SONT	INIT BS. CMIO				
		SD2928	PULSION OFF				1313
672	NAC-S	STATION DATA FILE S0370424B	SENT HV SP 0000. cur. HV ON WITH CURRENT LIMIT DISABED.				GVA
	HV on						
			HVSPOS00				
			HV SP 1000				
			HV SP 1300				
			HV SP 1500				
			HV SP 1600				
			HVSPOS00				
			SINT SDLOAD1 CURR. LIMIT LENABUS				
			SINT SANITARIO ADC OUTPUT ON UAVIS CLANTINE				

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			ADC. SUM OF SIGNALS SHOW SUM 0 PULSES SUBSTANTIALLY HIGHER THAN SUM V. IN SV, VN ZV				
673	VALI ABUS TEST	24/11/97	STANING DATA FILE 80970424C 9 PM PULSE HGT UP IN DOWN AS IN STOP 668. NO CONDITION OF LARGE NUMBER OF U-AXIS SATURATING ADC OUTPUT. THOSE THAT ARE Saturating Are Biased Outputs (Different Consecutive Positions) And Not Pulse Inject Events				
674	Fixing Hgt	24/11/97	ADJUSTING PULSE TO PULSE HT ~ 40 AND RAN TEST USING SAME CABLING SET UP. STANING DATA FILE 80970424d. 100 SEC AVERAGE.				
675	Sum Rate	24/11/97	ADJUSTING PTN TO NAP; CUT RATE TO 50 TEST CONTRAPSE TO Biased RATE. NO CHANGE IN PERFORMANCE. PULSES OK, Biased NOT OK. CPL OPEN, CND. START FILE 80970424 FOR 200 SEC. 20 SIGNALS 8-10V, SY 314 V AVERAGING, CND				

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676	HV OFF	24 APR 97	A HV OFF				
677	Powerdown 24 APR 97		Powerdown / Bus switch off / Discrete output	1447			
678	PULL UP	24 APR 97	For SNSR Misfire fit clock				
	SP0091B		CONSTANTS +28 VPS ON/ON, SWITCH TO BUS 3	1627			
679	HAC-S	24 APR 97	'SIGNAL' INIT B3. CND. SNSR SD/2028 HV SP0000 STANDBY FIVE 50970A24h				
	HV OJ		HV SP0500				
			HV SP1000				
			HV SP1300				
			HV SP1500				
			HV SP1600				
			HV SP1680				
			SD 0901				
			GIVE SNSR SD U ADC IN/OUTS				
			SNSD ab 251C TO CHANGE GRID BIAS.				
			(was SD 2655) SUM U ? GRID BAL OR				
			SUM V)				
680	HV OFF	24 APR 97	A HV OFF				
681	DISCONNECT	24 APR 97	ADJUST PULSE TO FIXED PULSE HGT 5				
	PULSE NOT		CONNECT DATA FOR 200 SEC TEST				
			TEST				

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NO.	SUBJECT		FILE NAME	A	C	START	STOP	TOTAL TIME	CUM. TOTAL	STAMP OR INITIAL
681	CONT'D		PH	A	C					
			75	SO970424f;	775	1100	555	785	1160	570
			175	SO970424j	925	1312	670	935	1385	680
			200	K	1075	1530	780	1085	1615	790
			220	L	1173	1668	849	1187	1758	864
			240	m	1290	1830	932	1302	1930	947
			255	n	1353	1923	978	1364	2025	994
			275	o	1824	2592	1320	1842	2732	1340
					CLASS MN - PULSES A&T HIGH VOLTAGE TO DISTORT					
					SUS' S2N BJT NOT SATURATE THDM					
682	PULL DOWN	24 APR 97								
					PULLDOWN, BUS SWITCH TO OFF, BUS SWITCH TO A					
					INITIALS HLP39, HLP75 HACCS NOW ON SIDE A					
683	DISCHARGE	24 APR 97								
					TOP BAT STOP 681 FOR HRC-S ON SIDE A					
					PULL					
					PH					
					H1 TOP					
					7580 SO970424g					
					750 1055 545 753 1110 547					
					175					
					930 1305 675 936 1376 677					
					200					
					1085 1522 790 1086 1601 788					
					220					
					t 1184 1660 863 1184 1746 859					
					240					
					U 1292 1810 940 1293 1905 938					
					255					
					✓ 1345 1886 980 1345 1986 977					
					> 255 S0970424P 1835 2570 1335 1836 2710 1332					
					GMA					
					PAGE 24					

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SUMMARY OF CHRONOLOGICAL EVENTS TEST DOCUMENT NUMBER/TEST DESCRIPTION/NATURE & DESCRIPTION OF MALFUNCTIONS/SERIAL NUMBER OF REMOVED OR REPLACED PARTS/ADJUSTMENTS/REPAIRS/MAINTENANCE/SHIPPED/RECEIVED/ENVIRONMENT/ETC.						
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684	PWR OFF	24 APR 97	PWR Down	1833		GKA
685	Vac CLK	25 APR 97	1.3×10^{-6}			
686	PWR UP	25 APR 97	LINABUS +20 PS OUTPUT, SWITCH TO BNS A, HRC-II SEND PWR UP cmd TO POWER UP HRC-II ON THE A SIDE	0768		W.M.
687	TRIGGER TRIGGERS	25 APR 97	SIGNAL INPUT UP. cmd. IN CAL OPEN. cmd START STACROS DATA FILE LOGTO4250	0840	0847	GKA
688	SUM SIG'S (HRC-II)	25 APR 97	MEASURED SWON & FAST TRIGGLED SIGNALS (JL-13, JL-11) PEAK SIGNAL FAST 0.5-2V (MOST 1-1½V) SLOW 0.8-4V (n) SUM U 2-6V SUM Y 2-6V COUNT RATE: 30-32 CPS	200 mV 400 mV 95 V .25 V		RIPPLE (P-F)
689	SWITCH TO HACCS	25 APR 97	SPEC ST. cmd STACROS DATA FILE LOGTO4250	0905	0906	
690	HACCS					
691	SENTR HVSP UP. cmd CAL OPEN. cmd					0915
692						0915

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689	14/09/97	25APR97	MEASURING SLOW, FAST & SWIN SIGNALLING					
		SWIN SWIN'S	PEAK SIGNAL	PIPPIKE (P-P)				
		SWIN SWIN'S	FAST 1-4V (most 1½V)	0.6V				
		SWIN	1-3V (most 1½V)	1.1V				
		SWIN U	2-6V	.13V				
		SWIN ✓	2-6V	.24V				
			COUNT RATE 10-20 CPS					
			SWIN CLOSER, CWD	0950				
			HAC-S 25APR97	CONTINUOUS RUNNING DATA FIVE FOR 10 MIN				
		BIGED	TO OBTAIN BAKED DATA					
691	14/09/97	25APR97	SWIT ALL HHOES, CWD & PULLDOWN, CWD					
692	14/09/97	25APR97	POWER UP WITH INITIAT					
693	14/09/97	CAL SOURCE	MOTOR TO CAL OPEN POSITION W/ SECONDARY SWITCH					
		LIGHT SW	DISABLING USING FORWARDING CWD SOURCE					
		TEST	SD 6500	SD 5100				
			7200	SD 5200				
			5400	SD 5300 (DISABLING 2ND SW)				
			5401	SD 6801				
			4301	> IN 6801				
			4001	SD 5000				

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653 CANT D			MOTOR STOPPED ON PRIMARY SWITCH. JURIFILED PRIMARY SWITCH @ BYTE 73, BIT 3 = 1, RESIDENT SWITCH ALSO TIMED (BYTE 73, BIT 4 = 1) AND TRAN INDICATION IS CROSSING @ MAX IN S/S MECHANISMS DISARMED (PDI, BUS CODE 153) SD 6800 (PDI BUS CODE 151) SD 7000 MOVE TO CAL CROSSING POSITION WITH SECONDARY SWITCH DISARMED				
			SD 6500 SD 7200 SD 5400 SD 5401 SD 4901 SD 4901 SD 5001 JURIFILED PRIMARY & SECONDARY SWITCH OPERATION BYTE 73 BITS 0 & 1 = 1 TRAN INDICATION IN S/S MECHANISMS DISARMED IS "OPEN" @ HALTER SD 6800				

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			NO.	SUBJECT	START	STOP	TOTAL TIME	CUM. TOTAL	
696	Door Switch	MANUALLY ACTIVATE PRIMARY DOOR OPEN SWITCH BY TC 73 BIT 3 CHANGES FROM 0 TO 1 "Correct" TRW DOOR OPEN FLAG CHANGES FROM NOT TO OPEN "Correct"							ef
		MANUALLY ACTIVATE REDUNDANT DOOR OPEN SWITCH BY TC 73 BIT 34 45 CHANGE FROM 0 TO 1 "Correct"							
		MANUALLY ACTIVATE PRIMARY DOOR CLOSES SWITCH BY TC 73 BIT 0 CHANGES FROM 1 TO 0 INDICATING 1 Switch is wired backwards NO 2nd Terminal							
		2 DOOR IS ACTIVATING Redundant SATION FIRST WE NEED TO INTERCHANGE WIRES ON PINS 38 & 34 ON CONNECTOR C EXPNL.							
697	wire changed	PULL DOWN IS INTERCHANGES PINS 33 34 Power down up INITAI							7:45PM
698		Power down up INITBS							8:08 PM
699		Power down up INITBS							809
700		Power down up INITBS							8:10
701		Power down up INITBS							8:10
702		Check door went to wrong way							8:14
703		Send SD6800 motor drive off							8:15
704		Send SD7000 de select all motors							8:15 AM
705	Pull down test	Pull down							2020

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706	POWER UP	25/09/07	IGNABURN + 28V SUPPLY, BUT SWITCH TO BNSA SIGN IN TAI					2040
707	DOOR OPEN	25/09/07	SIGN DOOR OPEN, AND	2021				2041
	SWITCH TEST		BYTE 73 x x x x x x x x					
				11 1 1	0000			
						↙ pull cross		
						↙ push cross		
						↙ draw away		
						TIME INDICATION DOESN'T SHOW OPEN		
						DOOR ANGLE DOOR STOPS ON BOUNDARY SWITCH.		
708	DOOR CLOSE	25/09/07	ADJUSTING PRI DOOR CROSS SWITCH TO MAKE IT TRIP FIRST	2043				2043
	SWITCH		SIGN DOOR CLOSING, AND			A BOTTLENECK TO RELOCATE CABINE NOT YET		
						SUPPOSED AFTER WIRING CHANGES,		
						SIGN DOOR CLOSING AGAIN		
						BYTE 73 1100 0110		
						↙ push cross		
						↙ draw away		
						STILL STOPPING ON TWO SWITCH - NEEDS FURTHER ADJUSTMENT		
						2045		2045

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			START	STOP	TOTAL TIME	CUM. TOTAL		STAMP OR INITIAL	
705	25/09/07	PULL DOWN	PULL OFF		2048			GKA	31
710	26/09/07	WIRING CHANGE	ROTATED CONN CEXPITZ & FOUND PINS 1 & 2 INTERCHANGED. SWAPPED WIRES & PASSIVED CONNECTIONS.		0720				
711	26/09/07	SWITCH AND DOOR	ADJUSTED DOOR OPEN SWITCHES		0950				
712	26/09/07	DOOR	BAGGAGE HOLE & PULLED WITH GND FOR 20 MINUTES		0930				
			PULLED UP ON B SIDE USING INIT BS.CMD SPLIT CABLES AND DOOR HOLE IN UNLATCH DIRECTION		0952				
			SPLIT DOOR OPEN AND		0953				
			BYTES 73 1111 0000		0957				
			↑↑↑ PULL OPEN ↓↓↓ LATCH, OPEN						
			DIRECT						
			DOOR STOPPED ON REDUNDANT SWITCH AGAIN						
713	26/09/07	ADJUST SWITCH	ADJUSTED DOOR CLOSE SWITCHES						
714	26/09/07	DOOR TEST	SPLIT DOORSHES AND BYTES 73 1100 0110 ↑SVC		1010			GKA	
			STOPPED ON REDUNDANT SWITCH AGAIN.						

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		DATE	START	STOP	TOTAL TIME	CUM. TOTAL
715	Pwr Dmn	26AUG57	PWR OFF		1026	GKA
716	Pwr Up	26AUG57	Push up on A side, initial, and		1103	GKA
717	Door Test	26AUG57	OPEN DOOR w/ PREDOMINANT SWITCH DISABLING, No Push Switches		1104	
			USING Forewing chords:			
			sd 6500 / sd 5800			
			7100 / sd 5100			
			5400 / 5201			
			5401 / 5300			
			4900 / 6801			
			sd 4900 / 6801			
			DIDN'T WORK, SO USE FWD door open, and AND SOUND SDNS300 w/SDN IS MOVING.			
			BUT TO 73 11011000 TMR INDICATION SDN IS OK.			
			sd 6800, sd 7000			
			Push door initially door has a sound			
			sd 5001 minutes remaining (Elliis was sd 5000 is 5101 - only one switch left among y)			
			DUE TO switch miswiring probably			
					1123	

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721	CONT'D	26APR97	AND CXP1M2 . HARDWARE NOT STAKED . RE-INSTALLED CARVE CLAMP HOLDING CABLE TO POWERLESS CONNECTORS . HARDWARE NOT STAKED .				
722	PROF FOR TRANSPORT	26APR97	INSTANCES FUN ACROSS PANEL WITH ONLY FOUR SCREWS - INSTANCED TY 5-Y BIPODS . BACKS OF HRC IS ROTATED IT TO +X DOWN POSITION IS PLACED IT IN A SECOND BAG ON MSFC PROVIDED TRANSPORT CART .	1532	1615	1532	CDA
723	TRANSPORT	28APR97	GND PRESSURE LINE DISCONNECTION FOR APPROX 1 HR DURING HRC ROTATION . BAGGING NOT YET COMPLETED . WORK ACCOMPLISHED FOR MSFC PROCUREMENT	1924	1924	1924	CDA
724	TEST SET UP	28APR97	CONTINUOUS BAGGING OF HRC & PLACED HRC INSIDE CARTEL OF ALMA SHIPPING CONTAINER FOR STORAGE UNTIL MONDAY .	0854	1145	1145	SKA
725			TRANSPORTED HRC FROM 2K CROWN ROOM IN BLDG 4718 TO EMC FACILITY IN BLDG 4708 .	1205			
			REMOVED HRC FROM OUTSIDE BAG & TRANSPORT CART IS SET-UP ON COPPER-TOPPED TABLE IN EMC FACILITY . SEE MSFC PLACE .				

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725 cont'd		28 APR 97	TRANSPORTATION LOGISTICS TO EMC FACILITY & CABLES UP TO CONSTRUCTION SAVINGS ON HRC.					
726	LONG PORT	19 APR 97	VERIFIED EQUIPMENT CONNECTIONS TO HRC & BEGAN LONG FORM FUNCTIONAL TEST, Conf #1, TP-HRC-338 NO DCOX COMMANDS OR HIGH VOLTAGE TURN ON.					
727		29 APR 97	GAS CART PRESSURE: 1350 psi @ 0.75 psi delivery					
728		29 APR 97	Copied initia & initia from ssi to eng. directories (per GKA Request)					JHC JHC
729	EMC TEST	29 APR 97	SYSTEM PRE SURVEY TRIPPED OUT DURING SHOTSC TEST IN LFF. CANNOT BRING BACK ON LINE. SWITCHED TO FACILITY POWER w/ EMC BREAKOUT BOX FOR REMAINDER OF LEFT					
730	LFF		STOPPED LFF WITH "B" SIDE SPECTROSCOPY AND "A" SIDE MOTORS REMAINED TO BEGIN EMC TEST, WILL RESUME LFF AT END OF DAY OR FIRST THURS TOMORROW					JBC JBC
731	EMC SIDE A		START EMC TEST CONDUCTED EMISSIONS Baseline conditions of the battery powered pulser - set to mid pulse height - phar 36 to 40					JBC JBC

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731	EMC Unit Side A	4-29-97	VCRS = 7 VCRS = 72 Range = 1 TDR = 138, 139 VER = 138, 139 PWR Shld 1 rate = 100 - 131				
	Imager		F1/c = id 370429 d cc. of tests				
	Power		HV on at 100V/MCS step @ up, 19 low				
	6.2 ...		HV max up = 123 low = 117				
			Shld 1 HV on at step 12 shld 1 ong = 80				
732	EMC CE 0.1 B side	4-29-97	test fig, SW5 to red pos, init b, spectb shld 2 at HV step & spect 4WPS at step B upper step 19 low 14V min & peak = 123 14V max low = 118	16:00			
	Power sectors		shld 2 rates 98 - 100 only no pulse				
	copy		Ac pulser on TDR & VTR = 0, 0				
733	Inrush current para	4-29-97	Close S5 and S2 - S1 is off V = 22 Vin - Close S1 to pri side A	16:58			
			1.5A peak pri & RED sides				
			<u>V = 35-Vin using S1 as the</u>				
			inrush activating switch causes				
			a better transient response picture.				
734	02 NOV 1997 G.7.2	4-30-97	RESUME EMC @ PARA G.7.2 DC TRANSIENTS.	0 800			
735	GAS CHART	4-30-97	GAS CART PRESSURE $\approx 1/300 \text{ ps}^1$ @ 0.75 ps, DELAY 1009	009			

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736	CS06 Paran 6.5.1	4-30	File = 10970430a	MC test CS06 Transient susceptibility + 35 V on 35V in line (70V peak) side A tests	13:15			as per
737	CS06 Paran 6.5.1	4-30	File = 10970430b	Transient susceptibility on side B have been S. Pulses are + and - 35 Volts on the 35V in line.	14:00			as per
738	CS02 Paran 6.4.1	4-30	Radio freq. test File = 10970430c	2.8V in A side. 50/443 - 210 MHz	14:59			as per
	Side A		No extraneous events observed.					
739	CS02 Paran 6.4.1	4-30	Same as Event 738	except for side B	15:30			as per
	Side B		File = 50970430d	no events observed				
			Shield 2 had 200 mV for an instant.					
			Most of the time creative for shield 2 was					
			99 - 130					
740	Paran	4-30	Panel removed to observe trigger noise from spec	16:30				as per
			during repeat of 738 Radio freq susceptibility					
			Observed Fast, Slow, SLOW, SLOW signals on the scope. Synced on the 100k/4.3					
			14LPS signal on slow V. Slow trig did not indicate any significant interference. Observed low level frequencies					

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741	C501	4-30	Low audio freq sweep - card susceptibility. Side A & then Side B				38
742	C501	4-30	Side A 30 Hz thru 500 Hz observed				
			Slow trig = 62 mV p-p } These are Fast trig = 40 mV p-p } 100Hz ± 10% Same A = 60 mV p-p } Levels observed				
			Sum V A = 194 mV p-p			17.49	
743	Side A E.2	4-30	Transient Susceptibility + mod - 35V Transient on a 35V line power.			18.07	
			File = 11097043.g Side A at 32V in 11097143.h Side B at 32V in				
			no File Side A at 28V in Side B at 28V in				
			no File Side A at 35V in Side B at 35V in				
			no problems noted from transients - no extreme events observed.				
744	para 6.7.1	5-1-9 under voltage test	22.4 V start Vin 8:15				
		Turns off at 14.9 V in pri cur. - to 0 V					
		# + 22V system does not restart - Must short system in recent fashion - soft, off & on					
		there was no input current.					

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745	Parw G. 3.1	5-1	Start Side B 22 Volts - try to off at 14.3V then down to 0V - was able to restart using switch, switch b - bus 5000, bus 50100, sd 0401, schun, schu04 pur off all the off, set.					
746	RS 02 Parw G. 3.1	5-1	Nearin board radiated commissions - 28 via Tapped the coast out command	9:11				
747	Crakdor	5-1	Start 12000 psi pressure @ 0.8 psi delta above atmospheric pressure. Open deer	9:20				
	Parw G. 3.1	5-1	Start RS 02 - trying HV at 100V/mep shld 1 on at step 1/2. No commission observed on the A side - Volts = 28.13	9:25				
	EMC test		Configure for testing RS 02 on the B or redundant side with sect 4U on at 100V/mep and shld 2 at step 4. - no out if spec commissions observed. Volts = 28.13 via	10:12				
748	RS 03	5-1	Projected Susceptibility - file = S 0270501 a Parw G. 4.1	11:04				
			Side B 3 hour test. Shld 2 rate 09 - 1.30 Pci Bus Current = 150 ± 1.40 amps Pci Bus Voltage = 216 = 2760V as source in ascents observed					

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748 cont'd	5-1	7503 para 6.6.1 side A 29vin	Test run backwards in freq. Start at 18642 → down.	13:18			40
			file = 009705016 major pulse running $v_{UV} = 1795, 2083$ position of the pulse pna = 31 - 41 cas-v = 7 crs-v = 72 u A, B, C ✓ A, B, C 540, 1050, 150 510, 1050, 750 sld1 date = 107 - 144 no extraneous events observed.				cyrc
749	ENC TEST DONE	5-1	ENC TEST COMPLETE except for time spare test. 033-sec passes ENC up to this point.			15:02'	cyrc
750	GASSE OPEN	5-1	CLOSE THE DOOR and remove the gas purge bottle for refill.				JC
751	LEFT OPEN/TOP UP	5-1	Gas pressure is 600 psi and the differential pressure is 0.7 psi Completion of the LEFT RESUMED Power on			15:09	cyrc
	C-3.1.		Motor functions S1/D1A			15:38	

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751 CANT'N	5-1	PLS B	12412 73 134 15 1	PLS A	0 15 1			
				PLS B, etc ok				
752 C-1.3	5-1	Speedcseyg	SIDE B	Issue lots of sd cards prior to sending	16:56			
				+ the SDMS1 batch command.				
				Note: E811 was sent prior to the initis command. There was a residual pulse being issued at 1,1 using the S2 trigger.				
				Should issue an INIT prior to the SDMS1 command.				
				- Range 1, 2, 3 still fails the LEET test.				
753 Re Fill	5-1	Reinstalled O2 bottle		Reinstalled O2 bottle	16:56			
				pressure = 850 needle valve set fir				
				a 0.75 psi delivery				
				Wash off the air for 50 minutes				
754 End test	5-1	Power down						17:31
755 GN2	5-1	pressure = 850	0.4 psi delivery					17:32
756 GN2	5-2	press = 820						17:35

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757	5-2	PUR UP	Power up HEC in Side A to open the vac door for EMC tests - Purge of the HEC started - cracked door	8:05					9:12
758	5-2	DOOR OPEN	SENT COMMAND TO OPEN THE DOOR						
759	5-2	EMC SPARK TEST	File = i0970502a thru at 100V/nc shld, on at step 12 dur on A side C.B	8:46					
			Par Bus Current = 150, 149						
			Par Bus Volts = 216						
			Pur up on B side File = S0970502b						
			5 MV on at 100V/nc shld 2 MV at step 4						
			close door - pur off						
760	5-2	ON 2 GAS	pressure 770 psi operes = 0.7 psid	9:28					
761	5-2	EMC COMPRESSOR	EMC T55T - SUCCESSFUL	9:35					
762	5-2	TRANSITION	PERFORMED TP-HC(-300 - Power /50m Transition	9:50					
763	5-2	Retest		2:53					
764	5-2	SPARK CHG INJ	Retest of the spectroscopy charge inject pulser test after EMC spark test before side B - file = S0970502c (S0970429A)	11:00					
			(after) (S0970501c) 11:45						
			Retest of the integrator charge inject pulser test after EMC spark test.						
			Side A File = i0970502d (missing at 50 before) (i0970429B) (after) (i0970429C)						

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765	Power	5-2		Power down the HRC and remove power cable from wall plug.						age
766	HRC Readout	5-2-97		Connected Pump Out to HRC in the EMC Enclosure. (At 8:00pm) U10 as Pump Out has no function to gain so power to the pump does not have to be connected first. U10 open but other valves show 1.1. at 11:15pm) System loss starts to occur and all processes nominal		20:00 8:00pm				
767	"	5-2-97		Pressure $P = 2.5 \times 10^{-3}$ torr					2018	2X
768	"	5-3-97		$P = 1.4 \times 10^{-3}$					2027	BB
769	"	5-3-97		$P = 9.2 \times 10^{-5}$					0750	BB
770	"	5-3-97		$P = 2 \times 10^{-5}$					1310	BB
771	"	5-4-97		$P = 5.4 \times 10^{-5}$					2100	BB
772	"	5-4-97		$P = 4.1 \times 10^{-5}$					1008	BB
773	"	5-5-97		$P = 3.5 \times 10^{-5}$					1900	BB
				$P = 2.9 \times 10^{-5}$					0710	BB

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774	HAC-Purple	5-5-97	$P = 2.2 \times 10^{-5}$	09:13				Z
775	Trouble Shoot	5-5-97	Performed Tests to determine why system is taking so long to pump down. Also processed each gas valve from 2.3×10^{-5} and 3.0×10^{-5} every 2 minutes (approx)	09:52				Z
776	"	"	Closed Block valve: Cold cath. usage pressure dropped to 9.7×10^{-7} m less than 2 minutes checked all other connections for leakage (ignited alums)	09:55				Z
777	"	"	$P = 3.0 \times 10^{-5} / 2.3 \times 10^{-5} - St: 11$ cycling	13:40				Z
778	"	"	$P = 3.3 \times 10^{-5} / 2.5 \times 10^{-5}$ still cycling	15:35				Z
779	Pumpdown	5/6/97	$P = 3.5 \times 10^{-5} / 2.5 \times 10^{-5}$ cycling - turned off HAC pump					Z
780	HAC pumpdown	5/6/97	$P = 1.8 \times 10^{-5}$ very steady - 5 minutes - no change	17:05				Z
		5/6/97	$P = 1.7 \times 10^{-5}$ applied heat tape to table surface	06:55				Z
			VAC SET TO 50	11:00				Z
		5/6/97	TURNED ON 28V power	11:11				ZHC

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		5/6/97	$P = 1.9 \times 10^{-5}$		12:50			DC	
	PUMP DOWN	5/6/97	$P = 2.0 \times 10^{-5}$ EXCUSIVE 70 2.5×10^{-6}		14:40			JL	
			$P = 2.1 \times 10^{-5} \rightarrow 2.5 \times 10^{-5}$						
		5/6/97	$P = 2.1 \times 10^{-5}$ - STEADY		15:15			JL	
					15:50				
		5/6/97	$P = 2.1 \times 10^{-5}$ - steady		17:00			JL	
			HTR strip off pur off						
		5/7/97	$P = 1.4 \times 10^{-5}$ - STATION		07:00			JL	
			HTR STRIP ON @ 60 INSTRUMENT						
			CLOSE BLOCK VALVE @ 7:19 @ 2.4 in 7.4 x 10^-7 @ 5 min 4.8×10^{-7}						
			OPEN VALVE IN 7.0 4.0 x 10^-5 WITHIN 30 SEC BACK TO 2.3 x 10^-5 WITHIN 1 MIN						
					07:15				
782	1.	5/7/97	LARGE DROPS SYSTEM WITH YELLOW COVER From Power outlet in Order Heat	0820					
			yes greater $P = 1.5 \times 10^{-5}$						
			(also CLOSED ROOM VENT OFF)						
					9:20			JS	
		5/7/97	$P = 1.8 \times 10^{-5}$		10:45			DC	
			$P = 2.3 \times 10^{-5}$ 2.1×10^{-5}						
783		5/7/97	REDUCED HEATER STRIP POWER TO 40 $P @ 2.5 \times 10^{-5}$		13:15			JL	
			LEFT LEVER THIN CLELSIE THREE SAMPLE						
		5/7/97	$P = 2.4 \times 10^{-5}$ SHOT DUE TO FLICKERS UNINTENDED HNC 12:00		14:15			PS	
			NICHT TURNED ON TO POWER						
		5/8/97	$P = 1.1 \times 10^{-5}$		17:00				
					06:45			JL	

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785	Moving HRC	5/8/97	START MOVE OF HRC FROM EMC				
			Facility to XRCF. Last Pressure reading is $P = 1.1 \times 10^{-5}$				of
786	"	5/8/97	Turned off vacuum at block valve disconnected				
			VACUUM CART.				
787	"	5/8/97	Transferred HRC to XRCF 10k clean room	1600			
			Reconnected Vacuum Cart - 10 bar Santekom activated automatically at 45 sec from start up - Block valve still closed.				
788	"	5/8/97	opened block valve in preparation for backfill. Prior to opening, cc gauge is $P = 6.2 \times 10^{-5}$. Valve was opened very slowly due to pressure building up as high as 1.1×10^{-4} .				
789	"	5/8/97	valve fully open open				1705
			$P = 5.5 \times 10^{-5}$. BEGUN REFLUX.				
790	"	5/8/97	No Pressure Simulated at 15.2 psig				
791	"	5/8/97	Tank system connected P. 7				
			Tank Pressure 200 PSI				17:31

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**PULL TAB COMPLETELY
OUT TO START UNIT**

telatemp Transit Thermometer

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796	ARRIVAL 12-1-91	TRUCK ARRIVED @ 1815 MASS AVE - PARKED @ LOADING DOCK IN BOSTONED HRC SHIPPING CONTAINER PORT F-HRC-340. ALSO PROVIDED ASSOCIATED HULL SUPPORT EQUIPMENT EXTINVENTILE ZOG SHOCK INDICATOR ON CONTAINER WAS SHIPPED F-HRC TO REMOVAC FROM TRUCK		1305				
		BUT 5 DOZ INDICATIONS WERE NOT -		1320				
797	UNPACKING 12-1-91	UNPACKED HIRE FROM SHIPPING CONTAINER INSTALLED IT ON TRANSPORT CART DOUBLE BAGGAGE IS CONNECTED TO PORTABLE SMC SYSTEM. MOVED HRC TO HIRE LAB.						
798	GAS FLOW 13 May 91	N2 Supply @ 500 PSI Flow Rate = 0.7 END OF VOL III		1602 935 AM W/W				