

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

VII

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

LIFE HISTORY

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EVENT	DATE	SUMMARY OF CHRONOLOGICAL EVENTS	
NO	SUBJECT	TEST DOCUMENT NUMBER / TEST FUNCTIONS / SERIAL NUMBER OF ADJUSTMENTS / REPAIRS	DESCRIPTION / NATURE & REMOVED OR REPLACED PARTS / MODIFICATIONS / RECEIVED / SHIPPED / MAINTENANCE / ETC.
L13	120 sec flat field C	HV = 79/91	Twink (4) PI97061303. rd
	60 sec flat field PI97061304		
	60 sec flat field PI97061304	HV = 79/91	PI97061304
	60 sec flat field C B	HV = 79/91	PI97061305. rd
	Power down, all hv off		studs
	Switched over to fast tap		
	HV up to 79/91		Thyristor C S
	Started background run C X 1 (62=0)		
	1000 sec PI97061303. rd		
			9:22
			AK
			CM
1878 X-ray	Started 500 s bucking and run, p/9200/130Kard		9:22
	tuned on X-rays during above run		
	C @ 1 KV 44 m A 33 m poly film		
	start 7100 sec run C x 10		
	rate ~ 1400 sec ⁻¹ PI97061304. rd		
			9:25 11:30

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1875	Flat field	6-13	Revenue Flat field @ Al 41kV, 34A emission current rate ~ 1450 sec ⁻¹	12:42	14:45	A/C	3
1876			D197061307. rd, X-rays off filler gun D197061308. rd			14:58	
1876			0 X-rays from Mn O ₄ during filler gun 1400 sec ⁻¹ 1kV, 303mA			14:58	
1876	flat field		official flat field @ X-rays D197061310. rd			14:59	
1877	X-rays		set value closed off			16:59	
1878	BNC		10000s background D197061309. rd			17:00	RPK

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1879	flat field	B K flat field	17/9					4
		Bad My knock p197061313. rd						RPK
		Vg = 800 V						
		7200 sec						
		Tg = 436 ms						
1880	Y-nap	gate valve closed						
		off						
1881		10000 sec backworned	1919					
		p1970613p. rd						
		2130						
1882	flat field	N. L & flat field ~1300x25/s	2132					
		N. wheel						
		2 min Cut filter p197061317. rd						
		1/4 = 2000V						
		Tg = 12 ms						
1883	Y-nap	gate valve closed						
		off						
1884	B160	10000 s BKG p197061302. rd	2133					
		2133						

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1885	flat field	6/14/97	Ti Ke flat field	0002				5
			Ti Ohchoa	0203				
			Vf = 1000V					
			150 um Ti fields					
			Le = 110 μm					
			720C AIC					
			PI97061321-ncf					
1886	X-ray	6/14/97	close out notes	0203				
			off					
1887	HRC-T		Change command 9 to 5	0210				
			off	SB till				
			28V supply off					
1888	LV Power	6/14/97	SEND S,P,N	(86,2,4,7,8,10 SENT)				
			+28V SUPPLY ON	(.2A)				
			SEND INITI.(MD)	(1.3A)				
			Reboot PC TO GET RID OF UNDESIRED DISPLAY					
			LV HSK OK.					

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1889	11V on "I"	6/1/97	WILL TURN ON 11V TO STEPS 79 ⁰ , 91 ⁰ (2) 110 FORMATTED ON, CURRENT LIMIT ON	926				JG
1890	BKG		10000 sec background p19706149. red	927				RPK
1891	BKG		1000 sec background for Ag in flat field p197061403. red	1023				
1892			2000 sec flat field Ag La ~1350 flats Ag Anode VA = 6000V Ie = 0.041 mA	1042	1242			
1893	X-rays		flat surface observed off					
1894	BKG	6/14/97	background 10000 sec p19706149. red					BR3

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NO.	SUBJECT		START	STOP	TOTAL TIME	CUM. TOTAL		
1895	flat field	6/14	Fl. flat field	7200s			RPK	7
			Fe Adad					
			175 mm Fe flat					
			V = 10 field					
			Ts = 0.052 ms					
1896	X-rays		Det. valve closed off					
1897	BKG		10000 s background					
			19706146 ref					
1898	HBC-I	6/14	HBC-I off				RPK	
			Commence 9 → 0					
			SC → 11					
			28V power supply off					
1899		6/14	Vent spot-to chg to SEC-4 short					
			8 lower Table to connect height					

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NO.	SUBJECT		START	STOP	TOTAL TIME	CUM. TOTAL	
1900	Re pump	6/14	Boil pumpout Main P, pe Cart				STAMP OR INITIAL
			9×10^{-5}	1.2×10^{-5}	1725		SM
			1.6×10^{-5}	4.1×10^{-6}	1738		GKA
			5.2×10^{-6}	1.5×10^{-6}	1819		GKA
1901	UNCLAS	14JUN97	UNCLAS UNCLAS DNE'ING EGGS & CARGO UP FLIGHT CHANGES				
			EGGS				GKA
1902	PNL ON	14JUN97	PNL UPS				GKA
1903	DEARL	14JUN97	USING BACKWARDS & DISHLIP TO DOWNWIND				1840 1857
			ADJUSTMENT NEEDED FOR PRODUCING MOTION AT OPEN POSITION. SWIM NOSEUS = .350				1858
1904	PNL OFF	14JUN97	SNOTS				WS2
1905	PLOSSWAD	14JUN97	BA 1.7 $\times 10^{-6}$ PNL CML 2.0 $\times 10^{-7}$				WS3
			2.154				GKA
1906	Power Up S	6/15/97	Power up S detector				
1907	HV S	HV xP,			6:35 640		AK
					6:49		AK
1908	X-ray	6-15-97	Marsa Shutter open. Fe X-ray Started 10005 run while paddles are moved				06:57
			in #2 to expose segment # of HRC-5 p1970615-hrd				06:57 7:10
1909	flat field	600 sec	F2 w/padding				GKA
			Plat 700 15 sec		07:21		AK
					07:31		

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			START	STOP	TOTAL TIME	
			RUNNING TIME/OTHER (HOURS AND MINUTES)			
1910	Background	6/15/62	Started 1800s background run p197061503.rnd	07:31	07:45	Gm
			Run ended at 260 s so that we could			
			switch to 4×10^{-4} acquisition system			
1911	Power down		Power down HPC-J high voltage off	07:45		Gm
			all houses 's strobe			
1912	Change	15Jun62	UNCAUSED FLUTTER IN TROCHOIDAL UNCG' RIG	0757		GKA
			RESULTS FOR LOX CAPABILITY			
1913	PWR UP		56 \Rightarrow 11			
			HV on			
			4 \Rightarrow 0			
			1 \Rightarrow 1			
			2, 3 \Rightarrow 20, 102			
			4 \Rightarrow 1			
			62 \Rightarrow 1			
				0802		
1914			Official blks p197061503.rnd, 1000 sec			GKA
1915	X range	C	1350 sec - 1			
			start run p197061504.rnd 2000 sec			
			V = 1014V Ie = 490 μ A			
			filler blks run p197061504.rnd			
				8:23		
				8:24		9:00

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1916	Bkgs	Bkgs P197061507, rd, 1000 sec	9:18	
1917	X-rays	As L 2.98 KV , $V_A = 6 \text{ kV}$ $I_{e=226 \mu A}$ 2000 second run P197061508, rd	9:35	
1918	Bkgs	X-ray off, filler runs P197061509, hard official Bkgs P197061510, rd	10:08	
		filler run P197061510, rd	10:15	
1919	X-rays	PI @ 10KV, 626 μA ~ 1300 sec -1	10:49	
		/ P197061512, rd Background, filler run P197061510, rd	11:22	
1920	X-rays	# Ni L X-ray S 1 2KV, 60 μA rate ~ 1300 sec -1	12:04	
1921	X-rays off	Yan = P197061516, rd ended last light	12:39	
1922		HRC shut down S 1 → 0	12:41	
		2 → 0		
		3 → 0		
		56 → 11		
		two runs switch on PS off		
				12:46

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			START	STOP	TOTAL TIME	CUM. TOTAL	STAMP OR INITIAL		
1931 LEFT SH 1 SIDE B	6/16/97	SEND PCFG1.CMD FOR SH 1 TESTS ON SIDE B	1315				JG		
		A B AB BA, 4 DIS, 2 OFF							
		SEND INITB1.CMD							
		SH 1 COUNT TO B IS VERIFIED							
		S1 HVON.CMD STEP 0,20 CTS/SEC							
		STEP 4 40 CTS/SEC							
		STEP 8 75 CTS/SEC							
		STEP 12 170 CTS/SEC							
		All HV OFF, SPF	1321						
1932 LEFT SH 2 SIDE B	6/16/97	SEND PCFG2.CMD FOR SH 2 TESTS ON SIDE B	1322				JG		
		A B BA AB, 4 DIS, 2 OFF							
		INITB1.CMD							
		SEND HLP7D, SEND HLP3B TO CONVER							
		SH 2 TO PREAMP B, SH 1 TO PREAMP A (VERIFIED)							
		S2 HVON.CMD STEP 0, 60 CTS/SEC							
		STEP 4 175 CTS/SEC							
		All HV OFF, SPF	1331						

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				START	STOP	TOTAL TIME		
1933 TRANSPORT		16 Jun 07	DRAPED HRC WITH PLASTIC BAG & MOVED PORTABLE CLAW TENT AWAY. ATTACHED LIFTING FIXTURE TO CRANE IN POSITION CHANG TO CONNECT 2 LIFTING FIXTURE SHACKLES TO HRC. USING CRANE TO RAISE HRC & ROTATE IT SO THAT +X IS DOWN WITH THE HRC POSITIONING ON 4 FOAM BLOCKS.					
			REPOSITIONED LIFTING FIXTURE SO AN A SLACKING AND ATTACHED TO HRC. LIFTED HRC OFF FOAM BLOCKS & TRANSFERRED CRANE TO CLOSER SUPPORT TABLE. LOWERING HRC onto TRANSPORT PLATES ON PORTABLE CART. ROTATING LIFTING FIXTURE & CLOSING TRANSPORT CART BAG.					
			TRANSPORTED HRC TO AXAF LAB & ATTACHING HRC FLIP FIXTURE TO TRANSPORT PLATES.					
			REMOVED ANGLED BONNERS/TUBES ASSY USED TO SUIDE HRC ON TABS TO TOP DURING FLAT FIELD TESTING. POSITIONED FLAT HORN TORQUED & STAILOD.(10 in-lb).					
			ROTATED HRC 180° TO +X UP USING HRC					

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1933	Cont'd	16 Jun 97	ROTATION FIXTURE - PLACED HRC ON OPTICAL TAG IN CUSTODIAL TENT & POSITIONED MASS.	SGA
1934	BIPOD	16 Jun 97	ROTATION + Z, Y = -7 BIPODS & BAGGED THORN FOR HAND CARRY TO MSFC FOR STAIN GAGE	1705
	TOOTHAL		INSTANTANEOUS	
1935	SNUBBER	16 Jun 97	BONDED ON ADDITIONAL SPACERS ON SNUBBERS USING INSULATING TRABOND BA- F5411	1727
1936	NVPS SET	16 Jun 97	INSTALLED CLIPS BLINDSIDE HIPS EKA & CDA ACCESS CLIPS COVING. TORQUED & STRAINED HORN	
1937	PWB ASSY	16 Jun 97	TORQUED AND PWB ASSY BILLETOR CLAIRES TO TORQUING 60 OZ-IN. HORN NOT STRAINED (LOCATE WASHER AND VISCOM INSTALLED)	
1938	CDA/FCA	16 Jun 97	INSTALLED CDA & FCA ACROSS PANNS. TORQUED ACCESS PANNS (10 IN-LBS FOR HS HAs; 16 IN-LB FOR PANNS 10-32')	1947
1939	ALIGN.	16 Jun 97	PREVIOUSLY HRC ALIGNMENT IMPROVED PRIOR TO BAGGING FOR NIBMARIN COLOR	SGA
1940	CLOSING	16 Jun 97	THAT MINUS ECU INSTALLED WITH STAIN LIGHT SHIMMERS INSTALLED	1950
				SGA

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				START	STOP	TOTAL TIME	CUM. TOTAL	
1946	UNLOAD	18 Jun 97	TRUCK UNLOADING Completed	19:30	1930	1.5 hr		W.M.
1947	Shock WTS	18 Jun 97	Shock WTS inside Shipping Container, (6 units) (2 ea) 2g, 5g, 10g Note: The bottom section of the 2g mount had tripped, others ok	1800	1930	1.5 hr		
			This was the unit that was located under the gas one that tripped on the outside.					W.M.
1948	GAS System	18 Jun 97	GAS System Down. 5PSI OK					W.M.
1949	UNPACK	19 Jun 97	UNPACKED HRC & SET-UP FOR LFFT Full NSFC PROCESSORS SP-HRC-55008	19:30	19:35			
1950	LFFT	19 Jun 97	STARTED LFFT - IN APPENDIX A, 1.3.3.2 J166 POWER CONNECTOR CHUCK, STOP 002 - PINS ARE HAVE SWELLED BUT NO INDIGENCE OR IMBAL OSCILLATION.					
1951	LFFT	19 Jun 97	REPLACED CHUCK WITH XRCF UNIT. NOW CORRECTLY SEE OSCILLATIONS ON PROPERTY.	1035				JG
			J166 PINS. THEM NOT FUNCTIONING					1125
			PROPERTY. EXAMINED ORIGINAL CHUCK					
			FOUND 2 WINS WHICH PINS SHORTED					
			TOP SECTION - ROTATIONAL SHOCK'S FOUND CROSSED					
			APPARATUS NORMAL, REPAIRS AND ORIGINAL					
			CASE INTO BASE IN RESUME TESTS INC					214
								1609

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1951	LFFT	15/11/97	CONTINUOUS PUSHING INJECTION TESTS FOR HRC-T CONT'D	1 HRC-S ON BOTH A & B SIDES					
			SHUTTER TEST OFF + SHUTTER SHUTTER TO LIMIT SWITCH B THAN BANK TO SWITCH A			1207	GKA		
			SECONDARY - TUSING STOPPED BECAUSE OF POSSIBLE INTERRUPTED WITH ACCUMULATIVE CAUSES ON DOOR ACTUATOR - CONTINUOUS UNKN CALLS CAUSED TUSING						
			CONTINUOUS CALL SOURCE TESTS ON B AND A SIDE			1921			
			SHUTTER SHUTTER TESTS			1936	GKA		
			SIDE A						
			SH 1 @ 0	16	(pos 0, a side, init a)				
			SH 1 @ 4	40	(shuton, sh off)				
			SH 1 @ 8	70					
			SH 1 @ 12	135	(all housed across)				
			SH 2 @ 0	50	(b side, init b)				
			SH 2 @ 4	160	(all housed, esp)				
			SIDE A		(pos 1, a side, init a)(sh off)				
			SH 2 @ 0	55	(shuton, sh off)				
			SH 2 @ 4	150	(all housed, sh off)				

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				START	STOP	TOTAL TIME		
1951	LFTT cont'd	19 Jun 97	SIDE B (Side, initb)					
			SH 1 @ 0					
			SH 1 @ 4	40				
			SH 1 @ 8	70				
			SH 1 @ 12	150	(all gross, sp5)			
1952	VIB PHASES	20 Jun 97	UNCLAMPED HIC FROM GAGE IN MOLDED TO VIB TABS, LIFTED HIC OFF TRANSPORT > LATER ON CALL ONTO VIBRATION FIXTURE TORQUE ONE HARDWARE > CONNECTED VIBRATION				0705	1958
			INSTRUMENTATION. CHECKED OUT VIBRATION INSTRUMENTATION.					
							1214	GRK
1953	Z AXIS	20 Jun 97	RAN Z AXIS SINE SAWTOOTH DOL TR-HIC - 322				1215	
			SWING SWINGER					
			FIRST RESONANCE @ N80 Hz, RESPONSES IN				1218	GRK
			Z DYNAMIC 2-3 g's FOR .25g INPUT (QN10)					
1954	Z AXIS	20 Jun 97	RAN Z-AXIS RANDOM @ -6dB FOR 30sec				1231	
			SWITCHED BIPOS STAIN GAUGES CHANNELS 1-4					
			FOR A SECOND 30 SECONDS					
1955	Z AXIS	20 Jun 97	RAN Z-AXIS RANDOM @ FUN LOAD IN Z 30				1245	
			SECONDS RUNS.					
1956	Z AXIS	20 Jun 97	RAN POST RANDOM Z SINK SOURCE				1303	
			SINK SINK					
							1307	
							1311	GRK

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1957	AxIS	Z0JN97 ATTACHING HNE LIFTING FIXTURES TO LIFTING 2Y05 CHANGING 2 5 TRIMMED HOWL @ +Y 5 -Y BIPODS TO HOUSING 1/F'S AND AT 2 BIPODS TO VIB FIXTURES	1325	
		1/F. RAISING HNE center OF VIB FIXTURES 5 Y BIPODS. TRANSFER 2 BIPODS FROM VIB FIXTURES.		
		ROTATING VIB FIXTURES 20° AND RESTORING TO VIB TAEWS. PULLING OUT RUM. USEFUL RANDOM TEST OF FIXTURES.		
		TRANSFERRING Y BIPODS ON VIB FIXTURES + LOADING HNE BACK INTO POSITION. INSTALLED + TORQUED ALL MOUNTING HARD CLEMENTS OUT. ACROSS. INSTALLATION	1608	GKA
1958	Y AXIS	Z0JN97 RAN .25 of Y-AXIS SINCE SWING. FASE SWING PERIODIC ~ 54.6 Hz	1632	GKA
			1638	
1959	Y AXIS-GOB	Z0JN97 RAN TWO 30 SECONDS Y-AXIS RANDOM RUNS RANDOM	1642	GKA
		@ -6 dB FROM FINE VALUE		
1960	Y AXIS	Z0JN97 RAN TWO 30 SECONDS Y-AXIS RANDOM RUNS RANDOM @ FINE VALUE	1705	GKA
			1707	
1961	Y AXIS	Z0JN97 RAN POST RANDOM Y-AXIS SINCE SWING CHANGING	1718	GKA
			1721	
			1724	GKA

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1962	Axis	20Jun97	ATTACHED HPC LIFTING FIXTURES TO LIFTING BIPOD CHANKE				
			3 POSITIONED HANKE @ -45° +45° BIPOD TO HOUSING V/F'S AND @ ± BIPOD TO VIB FIXTURE V/F.				
			REASON HPC OFF VIB FIXTURE IS SECURING IT TO TRANSPORT PLATE ON CART USING 2				
			TURN OVERY 4 BIPODS.				
1963	TRANSPORT	20Jun97	TRANSPORTED HPC TO CUSTON TENT & CABINED UP TEST PROOF				
			FOR FUNCTIONAL TEST				1819
1964	FUNCTIONAL TESTING	20Jun97	UPON CLOSURE/RELEASE TURN-ON, MECHANISMS DISPLAY TEST				
			SIGNS DOOR NOT OPEN/NOT CLOSED - SHUTTERS CAL SENSORS ARE INDICATE OPEN, VISUAL INSPECTION				
			SHOWS THAT LIMIT SWITCH ACTUATOR ON +1 SHUTTER SECONDARY POSITION HAS SHUTTER OFF OR				
			SHUTTER BLADE.				
1965	POWER	20Jun97	RAN SHORT FORT FUNCTIONAL TEST WITH SFFT				
			ARMED WANTS, NO MALE FUNCTIONS OBSERVED				2017
1966	VIB PROPS	21Jun97	UNCAPSED HPC FRUIT BEGINS TO MOVE, CAL 0705 VIB. TABS@. LIFTED HPC OFF TRANSPORT PLATE ON CART ONTO VIBRATION FIXTURES INSTALLED @ TORONTO AND HARMONICS @ CONNECTED VIBRATION INSTRUMENTATION, ALARMS OUT				

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1966	CONT'D	21 Jun 67	INSTRUMENTATION					
1967	X-AXIS	21 Jun 67	RAN 25 of SINE SWINGS ON X-AXIS. FIRST	0845			GKA	
	SINE		INSTANCES 210 Hrs. QN 5	0846				
1968	X-AXIS	21 Jun 67	RAN TWO 30 SEC RANDOM RUNS IN Y-AXIS @ -6dB FIRST FIVE LINES	0852				
	RANDOM CYCLE			0901				
1969	X-AXIS	21 Jun 67	RAN TWO 30 SEC RANDOM RUNS IN RANDON LINES @ X-AXIS	0910				
	RANDON			0911				
1970	X-AXIS	21 Jun 67	RAN 25 of POSI-RANDOM X-AXIS SWING SINE SWINGS	0923				
				0930				
1971	TOOL PHOTOS	21 Jan 67	ATTACHES THREE LIFTING FIXTURES TO LIFTING LEY 5 TO REMOVE H.D. DOME @ -Y 1/4 BIPOD TO HOUSING 1/F'S AND AT 2 BIPOD TO VIB FIXTURE 1/F. LIFTS H.D. CUPULA OFF VIB FIXTURE. PONTOON FUT. 2 BIPOD INSTANTANEOUS TURNOVER & BIPOD. LAMINATED WIRE ONTO TRANSPORT PLATE ON	0934				
1972	LFFT	21 Jun 67	DAKI IS SURVEYING IT USING TEMPORARY Y BIPODS MOVING WIRE TO CURVED TENT & CABINED UP FOR LIFT. THIS CONSTRUCTED HIRE GEN SYSTEM. AT LSSIS TURNED ALL THE DATA APPARATUS NORMAL EXCEPT THAT DOORS NOT SHOW AS CLOSED.	1023			GKA	
1972	LFFT					1035		

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SUMMARY OF CHRONOLOGICAL EVENTS

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				START	STOP	TOTAL TIME	
1972 CONT'D	21 Jun 07	CONTINUOUS SURVEY ON C-1 TURBOS OR TO-HAR - 338	PWR OFF	1307			GKA
			TRAN MODIFIED HV SECTION	1308			GKA
1973 SPARE	21 Jun 07	RAN LIVE DRLSAP, AND TO SIDE IF DRLR DRLR TURB	CLOSED INDICATION CAN BE REGRAWSH HND.	1505	1521		GKA
			BOTH SIDE IN PWR SWITCHES BOTH INDICATES CLOSING & TIME DISPLAY SHOWS DOOR CLOSING	1537			GKA
1974 LEFT	21 Jun 07	CONTINUOUS SURVEY C-3 MECHANISMS TURST INSTR	SUR UP PULSE INDICATION IN THV CONFIGURATION TO USABUSH PULSE CONFIGURATION AND	1618			GKA
1975 PULSER	21 Jun 07	INSTR	UXOP TURB VARISS IN PHASE AND DISPLAY	1728			GKA
1976 PWR OFF	21 Jun 07	PWR OFF & HAR UNCAUSED FLIGHT CASSE	FOR SHIPMENT TO XREF	1730			GKA
1977 SHIPMENT	23 Jun 07	LOADS HAR INTO ITS SHIPPING CONTAINER; LOADS C-3A, AND INTO TRAILER TRUCK	TRANSFERS TO BUS 4718 IN OFF LOADS	0745			GKA
			HAR SHIPPING CONTAINER INTO 10K CROWN ROOM	0852			GKA
1978 UNPACK	23 Jun 07	UNPACKED HAR FROM SHIPPING CONTAINER IN 2K CLEAN ROOM. INSTRUMENT INSTANCES ON TRANSPORT PUTS ON CART. USED NOTATION FIXTURE TO PUTS HAR IN +X UP POSITION ON NEWPORT TABLE		0939			GKA

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			START	STOP	TOTAL TIME	
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1979	MLI	23Jun87	INSTALLED MLI ON +X SIDE OF HRC INSTALL.			
1980	ROTATION	24Jun87	INSTALLED FUT BIPODS IN USDS ROTATION FIXTURE TO PLACE HRC IN +X DOWN POSITION ON TRANSPORT PLATES ON TWO CHANNELS ON AIRPORT TASKE.			GKA
1981	HRC	24Jun87	STARTED INSTALLATION OF ROTATOR OF MLI CONTINUED MLI INSTALLATION			GKA
1982	TUV PROPS	25Jun87	REMOVED HRC FROM TRANSPORT PLATE & MOUNTED IN ON HRC/LASS-2 1/F PLATE			1650
1982	INTEGER.	27-June 1983	DURING INTEGRATION OF THE HRC/1F PLATE THE PMT SIGNATURE CABLES INTERFERED WITH THE CABLE TRAY ON THE LASS-2. THE CABLE CLAMPS WERE REMOVED IN ORDER TO FLEX THE CABLES INTO A POSITION TO PREVENT INTERFERENCE. THE 1ST LAYER OF MLI WAS SLICED TO ACCOMMODATE THE CABLES.			1610
1984	TUV PROPS	27Jun87	INSTALLED FUTS IN BOTH CABINS @ HRC TEST PANAL - INSTALLATION GUARD HRC & THIGH STANDOFF ON 1/F CABIN BUNDLES SWAPPED WITH MLIS,			

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1984	CONT'D	27 JUN 87	INSTAURING TEST ONLY THURMISTOR FOR THURM BALANCE STABILITY MEASUREMENTS MOUNT LASSE-Z/HRC ON TOP OF THA SUPPORT STRUCTURE ATTACHING LAITE ARMY ASSY TO THA BASE WITH SAFETY WIRE SO IT IS SUSPENDED IN FRONT OF HRC. INSTALLED HUT CULTRON INSIDE OF THA BASE CROSS OUT TO LASSE-Z/HRC SO THAT WE VIBRATING OF DIRECTIONS IS LIMITED TO ONE PAIR ON BOTTOM OF CHAMBER.					
1985	FUND.	27 JUN 87	MOLDO ASSY INTO THA CHAMBER & WELDED CABLING OF THURMISTOR, GUARD HTR LAITE ARMY & TEST INSTRUMENTS TO FACILITY CABLES. ATTACHMENT TO STREET AMBIENT SETT P/NZ TP- HRC-337 P/N B. COULD NOT VERIFY PURR CONFIGURATION. APPEARS THAT THURM IS NO TURBOSTAT					
1985	FUND.	28 JUN 87	PROBLEM OF NO TURM TRACES TO TURM SOURCE POSSAY IN REWJ NOT BEING SENT CORRECTLY. WITH HRC/REGU 28J PS ON, NEEDS TO SEND CMD A, RC, HLD 35 (SEE MISFC PROCEDURE)					

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NO.	SUBJECT		START	STOP	TOTAL TIME	CUM. TOTAL	STAMP OR INITIAL
1985 cont'd	28 May	SP-XRC-1042).					
		WITH TURN IN GEAR, PNEU CONING WAS BOARD, BUT 'INITIAL' WOULD NOT TURN ON HPC.					
		EXAMINERS 1/F CABINING IN CHARTERED & FOUND CONNECTIONS PROPERLY MATED. PROBLEM DUE THEN TO JACK OR OVALCLIPS OF VAC. LOSS PROTECTION CIRCUIT PRODUCING 28V RATCHETING HPC.					
		WHICH PNEU ON READING, RAN FUNCTIONAL TEST, PNEU INDICATED DATA SHOWS LARGE VARIABILITY ON PNEU IN USE INDUS. COULD POSITIONS OK ON HPC-I & HPC-S. HPC TESTS OK. SHIELD TRATORS LOWING INSIDE THE CHAMBRY.					
1986	28 Jun	STANDS PUMP DOWN P = 93 TONE P = 30 TONE	1256	1415	1455	1510	GKA
	DOWN						
1987	28 Jun	DOOR OPEN POWERS UP HPC ON A SIDE & SIGHT CLOSED DOOR. AND. POWERED OFF AGAIN	1512				GKA
1988	28 Jun	TOP DATA P = 2×10^{-4} T, READING ON STANDS CONNECTING	1522				GKA
		TOP DATA Q 179/22/52/09					

LIFE HISTORY

~~A~~ SWATCH TO UNIVERSAL TIME

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1989	CLOCK SYNC	1/80 0000	PER REQUEST OF D. BOYD, CUE RESTARTED TO SYNC CLOCKS AND NIE/mf/cue COUNTERS @ 180 00 00 ≡ 0/0 NIE/mf counter.					JHC
			TIME CHECK w/ ERIG CLOCK: 180 00 00 00 ≡ 15/67					
1990	POWER UP	1/80 00 25 30	24 V Power supply turned on.					
		1/80	Powered up NIE on side A in PCF90 using initial	0030				
1991	Door open	1/80	Sent door open					
1992	Power	1/80	POWER INTURMERS BUREAU'S CHARTER PROCESS INSURANT	0042				
			LOSS TO 25 X 15' 6" DUE TO OUTGASSING	0117				
			From PANER HUATING, SENT SNOCSE AND INITIAL TO TURN ON AGAIN					
1993	SHI HYON	1/80	SHI HYON C STOP O RATE 15	0701				
		1/80 00 12	④ n 4 " 25					
			④ n 8 " 45					
			④ n 12 " 160					
4/91 on	shield rate	1/80	INV 1000 UP INERT HV ON @ 1000V					GVA
		1/80	SI:					6712
	shield rate		Rate 190					0847
			SI:					MVR
			Rate 220					MVB

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1994	LOST TM 180		at approximately 1900 hrs 6MT lost control Th and rebooted system (MAN FM POSIT TO 0)		1900			JF	
1995	SPRT 180		SINT all hex to start SFFP PR TP-HEC - 337 RDN B.			2109		JK	
			SURGEON 5.3						
			SURGEON 6.1						
			SURGEON 5.6						
			SURGEON 6.4						
1996	180		SWITCH TO SIDE B HV SHUT DOWN AFTER ~550 sec.			2330			
			no known reason for supply to turn off.						
			.SENT ALL HOSTS CMD THEN TURNED ON SWICHD 2 HV AND SPCT HVPS.						
1997	FULL	181	SWITCH TO SIDE B. CANNOT GET HAC FORWARD HS SWITCHING			0015			
			IN PCFGA USING INITI OR INITIAL, INVENT BACK						
			TO PCFGO IN THREW TO POWDER UP ON THIS A SIDE.						
			CANNOT POWER UP. RECYCLED LVPS IS FULL						
			SWITCH IS WORK AS WE TO POWER UP. TURNING						
			OFF POWER TO SOURCE TRANSITION TO COLD TURTE.						
			NO FURTHER POWDER UP NIN BU ATTENTUS UNTIL						
			FACILITY POWER UNPLUGGED IN HAC POWER LOWING ALSO						
			FULLY UNDERSTOOD			0126			

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1988	DOOR	1/81	Power up for door crossing in PC-90. Init. and door close. and vehicle door. and close. and	0239						
				0298						
				029A						
1999	power up		Power up for temperature recording init. and	0400			MVR			
				5V off. and	0405		MVR			
2000	power up		Power up for temperature recording init. and	0500	0500		MVR			
				5V off. and	0507		MVR			
2001	power up		Power up for temperature recording init. and	0600			MVR			
				5V off. and	0605		MVR			
2002	power up		Power up for temperature recording init. and	0700			MVR			
				5V off. and	0704		MVR			

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2003	power up	181	power up for temperature reading initial cmd SVoff.cmd	0800			MVZ
						0805	MVZ
2004	power up	181	power up for temperature reading initial cmd SVoff.cmd	0900			MVZ
						0908	MVZ
2005	power up	181	power up for temperature reading initial cmd SVoff.cmd	0920			MVZ
						0924	MVZ
2006	power up	181	power up for temperature reading initial cmd SVoff.cmd	1000			MVZ
						1011	MVZ
2007	power up	181	power up for temperature reading initial cmd SVoff.cmd	1100			MVZ
						1104	MVZ
2008	power up	181	power up for temperature reading initial cmd SVoff.cmd	1200			MVZ
						1207	MVZ

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2009	1/5/1	PWR UP FOR TURN READINGS in. Tai. cmd. SV OFF		1303				
2010	1/8/1	PWR UP ON B SIDE USING PCFG4		1310				GKA
2011	PWR ON	INITIATE SWES. AND PWR UP ON A SIDE PCFG0		1403				GKA
2012	DOOR OPEN	OPEN DOOR UNIT DOOROPEN. AND TURNED ON SHLD1 ON		1500				
2013	SHLD1 ON	SWIVEL, SWIBA IMAGE RATE @0 = 11 SWIVEL RATE @4 = 22		1504				GKA
		@ 8 = 38						
2014	HRC-I ON	HRC-I HV ON @ 100V WITH HV1100UP. AND @100V		1514				
2015	SWITCH	PURGE DOWN ON SIDE A, PURGE UP ON SIDE B IN PCFG4. HRC-I HV ON @ 100V		1515				GKA
	PWR	SWITCHES BACK TO A SIDE		1516				
2015	FUNCTIONAL TEST	PURGE DOWN ON SIDE A, PURGE UP ON SIDE B IN PCFG4. HRC-I HV ON @ 100V		2000				
2016	CTUE	TELEMETRY DROPOUT - LOST INTERNET ALSO		2034				
		POWER ON MONITOR FOR NETS/LOSS MOMENTARILY		12:06	12:45			
		RECONNECTED SYSTEM TO THREE STE-SYSTEM OK.						

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2017	BACKGROUN DATA	182 BEGAN ONE HOUR BACKGROUN DATA RUNS ON BOTH DETECTORS, ALTERNATING IMAGING DETECTOR ON SIDE A AND SPECTROSCOPY DETECTOR ON SIDE B.	1745	
2018	PWR CHANGER	DURING HV MONITORING, ATTENTION TO SWITCH PWR TO B SIDES FOR HVC-S, SHZ. HVC WOULD NOT TURN ON AFTER REPOSITION ATTUNERS (PULSING) 5 INITIALS). RUNNERS TO POSITION INITIAL TO NORMALLY POSITION OF ZONE @ HVC. HVC CAME ON. WENT BACK TO A SET AND POSITION WITH INITIALS INITIALLY RESPONDING BUT HVC WOULD NOT TURN ON. SOOT SD 1001 TO TURN ON 15V SUPPLY BUT IT DID NOT TURN ON. WENT BACK TO SIDE A TO 183 H.V.T.A. TURN ON TURN ON.	2352	
2019	STFT	183 RAN STFT PWR TP-HVC-333 APPENDIX A. SIDES SIDE DOORS NOT CLOSE ON; SIDE B TESTS NOT RUN	0025 0100 0350	EKA GKA

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2020	power change	1/8/3	pctg 4 initai primary bus = 145 primary bus V = 219 5V off	0500					M/3
			pctg 4 initbi power did not come on; 5V off sent	0510					M/6
2021	power change		pctg 4 initai pctg 4 5V off	0600					M/2
			pctg 4 initbi power came on / 5V off	0604					M/2
2022	power change		pctg 4 initai pctg 4 5V off	0700					M/2
			pctg 4 initbi power didn't come on! 5V off	0705					M/2
2023	power change		pctg 4 initai 5V off	0800					M/2
			pctg 4 initbi power came on! + 5 volt bus mon 191-192 5V off	0805					M/2
				0810					

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			START	STOP	TOTAL TIME	
2024	power charge	183	pcfg off initai	0900		M/E
			SV off	0903		
			pcfg4 initbi	0904		
			+5V bus 192			M/E
			SV off	0907		
						M/E
						M/E
2025	power charge	183	pcfg off initai	1000		
			SV off	1003		
			pcfg4 initbi	1003		
			+5V bus 192			M/E
			SV off	1005		
						M/E
						M/E
2026	power charge	183	pcfg off initai	1100		
			SV off	1105		
			pcfg4 initbi	1106		
			power came on			
			SV off	1110		
						M/E
2027	power charge	183	pcfg off initai	1200		
			SV off	1208		
			pcfg4 initbi	1213		
			SV off			M/E

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2032	183		PCFGO, initai 5V OFF		17:01	17:07			37
2033	184		PCFG4, initai 5V OFF		17:08				
2034	183		PCFGO, initai 5V OFF		17:58			EJ	
2035	183		PCFG4, initai 5V OFF		18:02				
2036	183		PCFGO, initai 5V OFF		18:03				
2037	183		PCFG4 initai +5V OFF		19:01			EJ	
2038	183		PCFGO, initai +5V OFF		19:07			AK	
2039	183		PCFG4, initai +5V OFF		19:56	20:00	→	AK	
2040	183		PCFGO initai +5 OFF		20:01			AK	
					20:07	20:59	→	EJ	2104

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2041		183	PCFG4, INITBI +5OFF	21:05				38
2042		183	PCFG0, INITBI +5OFF	21:59				
2043		183	PCFG4 INITBI +5OFF	22:04	→			
2044		183	PCFG0, initai 5V off	22:05				
2045		184	PCFG4 initai 5V off	23:01	23:08	07:07		
2046		184	PCFG4 initai 5V off	23:09	23:14	05:09		
2047	fac. part supply		PCFG4 initbi 5V off	00:14				
2048			PCFG4 initbi 5V off	00:22				
2049			PCFG4 initbi 5V off	00:23				
2050			PCFG4 initbi 5V off	00:29				
2051			PCFG4 initai 5V off	01:01				
2052			PCFG4 initbi 5V off	01:08				
2053			PCFG4 initbi 5V off	01:08				
2054			PCFG4 initbi 5V off	01:13				
2055	facility power supply set to 22 Volts		PCFG4 initbi 5V off	01:37	01:47			
2056	Supply		PCFG4 initbi 5V off	01:47				

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2048		18/4	pcfg4 initbi SVoff	0220					
			pcfg4 initai SVoff	0205					MR
2049			pcfg4 initbi SVoff	0206					MR
			pcfg4 initai SVoff	0212					MR
2050			pcfg4 initbi SVoff	0300					MR
			pcfg4 initai SVoff	0305					MR
2051			pcfg4 initbi SVoff	0306					MR
			pcfg4 initai SVoff	0320					MR
2052			pcfg4 initbi SVoff	0400					MR
			pcfg4 initai SVoff	0405					MR
2053			pcfg4 initbi SVoff	0500					MR
			pcfg4 initai SVoff	0504					MR
2054			pcfg4 initbi SVoff	0600					MR
			pcfg4 initai SVoff	0604					MR
2055			pcfg4 initbi SVoff	0700					MR
			pcfg4 initai SVoff	0720					MR
				0808					MR
				0806					MR
				0900					MR
				0904					

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2056		184	pcfg4 init6;	10:00				WZ
2057			5V off	1005				WZ
2058			pcfg4 init6;	1100				WZ
2059			5V off	1105				GW/JWZ
2060			pcfg4 init6;	1200				
2061			5V off	1203				
2062			pcfg4 init6;	1300				GW
2063			5V off	1303				GW
2064			pcfg4 init6;	13:32				
2065			5V off	13:32				
2066			pcfg4 init6;	15:00				GM
2067			5V off	15:05				
2068			(due did not execute SV OFF command when the SEND button was selected. Had to click on SEND button one more time for the SV OFF command to take.)					
2069			pcfg4 init6;	17:00				GM
			5V off	1704				
			pcfg4 init6;	1856				JS
			5V off	1859				
			pcfg4 init6;	2009				JS
			5V off	2011				

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2065	184			PCFG0, INIT A <i>i</i>	2101			
				5V OFF	2103			
2066	184			PCFG4, INIT B <i>i</i>	2303			
				5V OFF	2305			
2067	185			TURNED ON A SIDE, PCFG0, INITIAL	0110			
				5V OFF	0112			
2068	186			TURN ON B SIDE, PCFG4, INIT B <i>i</i>	0257			
				5V OFF	0259			
2069	185			TURN ON A SIDE, PCFG0, INIT A <i>i</i>	0458			
				5V OFF	0500			
2070	185			TURN ON B SIDE, PCFG4, INIT B <i>i</i>	0703			
				5V OFF	0705			
2071	185			TURN ON A SIDE, PCFG0, INIT A <i>i</i>	0900			
				5V OFF	0902			
2072	185			TURN ON B SIDE, PCFG4, INIT B <i>i</i>	1058			
				5V OFF	1100			
2073	185			A SIDE TURN ON, PCFG0, INIT A <i>i</i>	1307			
				5V OFF	1309			
2074	185			B SIDE TURN ON PCFG4, INIT B <i>i</i>	1412			
				5V OFF	1414			
2075	185			TURNED OFF RCTU TO RESET VOLTAGE LIMIT ON	1433			

LIFE HISTORY

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2076		185	PWR UP RCTU & RECONNECT SITE @ 35V	1449				JS
2077		185	SIDE A PWR UP @ 35V PCFG0, INITIATE 5V OFF	1504				JS
2078		185	SIDE B PWR UP @ 35V PCFG9, INITIATE 5V OFF	1506				
2079		185	RESET BUS VOLTAGE ON FACILITY POWER SUPPLY TO 22VDC.	1538				JS
2080		185	STANDED COULD SOAK FUNCTIONAL TEST POOL APPENDIX A OF TP-HRC-339 . IN SECTION 6, STOP DUE TO TRANSIENT HOT SPOT WAS OBSERVED. HV WAS TURNED OFF WITH ALL HOSES, ETC. AN ADDITIONAL CHECK DOOR AND WAS SENT TO IMPROVE DISTORTION PUMP OUT. THE HV WAS TURNED ON AGAIN USING HVSP - UP AND BUT NOT RAISED TO THE FULL VOL. THE DOOR WAS OPENED FUNNY USING DOOR OPEN, AND AND THIS HAD NO OPERATIONS TO OBSERVE THIS HOT SPOT (SOLE FIVE POSITION 04, N) WAS RAISED TO FULL VOL DURING RUN. HV OFF USING SOLE POSITION 0200 & 0300 TO 0100 TURNING OFF SIDE. DOOR WAS	1545				

LIFE HISTORY

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NO.	SUBJECT			START	STOP	TOTAL TIME	CUM. TOTAL
			CLOSED INITIAL DOOR CLOS. AND PANS AND PROBLEMS WITH CREAK DOOR. AND - HV TURNED ON WHILE IN SP-UP. AND TO FOUR LEVELS USING TURN ON RUN P0770704.0 AND RETURNING TO STOP DOES WITH RUN P0770704.0. P. TEST CONCLUDED				
2081	UV TESTS	186	STATED TESTS WITH XENON LAMP. DURING ONLY EXPOSURE VALID UNITS RATE WENT TO ZERO. PLATES ON TURNED TO CALIBRATED = 1. ALSO UL-T/H WAS 120 NOT 255 - POSITION BOTH COMMANDS IN VALID UNITS WORK AGAIN DISCREPANCY	0015			
2082	UV OFF	186	HV OFF - UV TEST COMPLETED.			0507	
2083	SET	186	PERCENT SET PER TR-HRC-337, APP. A	18:18	2006		
2084	TURN ON TESTS	186	BAK SERIES OF TEST AT 15.2 - 15.4V TO MEASURE INPUT POWER (@ 4A, 28 @ 35V. COPY OF DATA ATTACHED TO LOG. ALSO SENT STORIES OF POWER CONFIG COMMANDS TO DETERMINE WHY HRC FAILS TO TURN ON ON RARE OCCASIONS. I SOLVED				

PWR MEASUREMENTS
HRC TURN-ON TESTS

5 Jul 97

(1)

B SIDE

HOT 40°C

4.08

@ 500 mV/cm
10 mV/cm

TIME	CURRENT	VOLTAGE	I _{ON}	V _{ON}	CONFIG
1522	41.0 mV	22.0	176	195	B SPK HV ON
1524	33.0 mV	28.0	170	214	"
1526	27.6 mV	35.0	166	237	"
1527	25.8 mV	35.0	165	237	B SPK HV OFF
1529	39.6 mV	22.0	175	195	"
1530	31.2 mV	28.0	169	214	"
1540	17.8 mV	28.0	-	-	HRC OFF, REG ON
1541	18.0 mV	35.0	-	-	
1542	18.4 mV	22.0	-	-	HRC IN BAAAAA

PCFGA

28
10mA
5V ON
SA - 182

ATB1 - 31.2

(28)

(2)

BNS @ 28.0V

PCFG4

current is 5.4 mV on 500mA/DIV, 10mV/DIV

5V B SIDE ON

$$8.2 \text{ mV} \quad D = 28.0 \text{ V} \times 500 = 140 \text{ mA}$$

INITBI

31.2 mV SAME AS PREVIOUS PAGE

S1 OFF

INITBI 1st try ABORTED BY HIC, 5V STILL ON, RESEND INITI HIC IS ON

~~S1 OFF~~

INITBI PENDING SENDING BY L656

S1 OFF

INITBI PENDING SENDING BY L656, BUT HIC IS ON.

S1 OFF

BNS @ 27.0V

INITBI PENDING SENDING, BUT HIC ON 39.8mV current

S1 OFF

INITBI PENDING, HIC ON

S1 OFF

BNS @ ~~28.0V~~
35.0INITBI PENDING HIC ON ~~35.0mV~~ 25.8mV

S1 OFF

BNS @ 28.0V

PCFG7, INITBI NORMAL TURN ON 28V

CIA A B BUS 33
CIA A A BUS 32

(3)

A SIDE

pc5yo₀, initia → HIC doesn't turn on

AB AB AB
↓ ↓
B B

STARTING CURRENT READINGS 15.6 mV @ 100 mA/DIV

PWR CONFIG SHOWS A SV ON., PASS. ANALOG ARE ZEROS

SV OFF, CMD - CURRENT UNCHANGED

SWITCH I HVPS FROM A TO B hlp 36 - NO CHANGE

~ SH1 ~ ~ ~ ~ hlp 38 - NO CHANGE

PWR CONFIG NOW AB BBBB

SV A ON hlp 3e, CHANGE SCOPE TO ^{PHASE} 100mA/DIV

CIAA → B hlp 33 DON'T EXPECT ANYTHING, B10 B BUS
~~SH1~~ CMD PULSE IS 40 msec LONG

AMPLITUDE 15.6 → 26 A=1 DIV = 100 mA

CIAA → A hlp 32 CURRENT INC FROM 15.6 mV TO 32.0 mV
 $\Delta \approx 16 mV \times 100 = 160 \text{ mA}$ O.K.

CMD PULSE WIDTH 28 msec LONG

CIAA → B hlp 33 OK. CURRENT DOWN TO 15.4 mV

CIAA → A hlp 32 SWITCHING OK

SV OFF

CIAA → B hlp 33

NOW SEND LNTIPS CONFIG FILE pc5yo₀ CMD PULSE WIDTHS
~ 40 msec

AMP. 15.6 → 27.8 72 mA

INITIAL - Nec on.

LIFE HISTORY

LIFE HISTORY

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NO.	SUBJECT		STAMP OR INITIAL
2087	187	PWR ON PCFG0, INITIATE SVOFF	0258 0302 RPK
2088	187	PWR ON PCFG4, INITIATE 5V OFF	0512 0514 RPK
2089	187	PWR ON A SIDE PCFG0, INITIATE SVOFF	0700 0703 RPK
2090	187	PWR ON B SIDE PCFG4, INITIATE SVOFF	0905 0907 RPK
2091	187	PWR ON A SIDE PCFG0, INITIATE SVOFF	1103 1104 RPK
2092	187	PWR ON A SIDE - TEMP MEAS	
2093	187	PCFG0, INITIATE PERFORM FUNCTIONAL TEST PER APP. A OF TP-HRC-339 AT COLD TEMP, CYCLE 3	12:55 1754 RPK
2094	187	INITIATE & INITIAS COMMANDS DID NOT SET UPPER LVL THRESHOLD TO 255.	1564
2095	187	IN BOTH CASES SETTING WAS 128 TAKE longer measurements +22, +35 A2B	RPK
2096	187	DATA ATTACHED THIS PAGE	19:47
2097	187	Configure HRC-S on Side A	RPK
		Its lamp on, HV turn on	

06 JUL 97

COLD TOMP

<u>TIME</u>	<u>VACUUM</u>	<u>SCANS</u>	<u>VOLT</u>	<u>IMON</u>	<u>VITON</u>	<u>CONFIG</u>
SIDC 1623	31.4 mV	500	28.0	152	215	PCFG3, HV OFF
1625	39.6 mV	"	22.0	155	196	"
1627	26.2 mV	"	35.0	150	237	"

77 79

SWD CMDS TO PUT \$ HVPS IN SHZ FROM A → B

PWR CONFIG FROM ABABABA TO ABBBBBB

1632	29.8 mV	"
------	---------	---

SWD SW OFF

RECV 1633	18.0 mV	100	35.0	-	-	RECV ONLY
1635	18.0 mV	100	28.0			
1636	18.6 mV	100	22.0			

SWITCHED TO PCFG7

500 22.0

RECV PULSES

N1 HVC RISE/FALL

36.3 ms WIDTH @ TOP

39 ms " @ BASE

1643	SWD B SV ON	SV
	9.4 mV	500 22.0

1646	SWD INITBS	
------	------------	--

SV ON PULSE WIDTH
TOP 37.6 ms
BOT 39.7 ms

3



TIME	WCR	SEPAR	VOUT	INON	VION	CONFIG
1648	39.6 mV	500	22.0	150	196	posj,
1649	26.0 mV	"	35.0	144	238	HV OFF
1650	31.4 mV	"	28.0	145	215	"

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						START	STOP	TOTAL TIME	CUM. TOTAL	
2098	187	10/7	Send Spectroscopy probe select via CTUE	ENDS OF LARGE TESTING, PCFG0 AND INITIAL PERFORM FUNCTIONAL TEST	46					
2099	187	10/7	ENDS OF LARGE TESTING, PCFG0 AND INITIAL SWITCH BACK TO			20:01				
2100	188	10/8	WHEN SWITCHING APP. A. @ H/L TEMPO + 35V THE FACILITY POWER SIDE A TO SIDE B, CYCLED FROM ON TO OFF THEN ON AGAIN TO PERMIT 28 V TO BE APPLIED	0100 0526						
2101	188	10/8	HCC SYSTEM DURING SPECTROSCOPY POWER CONFIGURATION TESTING, SWITCHING TO SIDE B, THIS CONFIGURATION SIDE A CHANGED FROM CONFIGURATION WAS BACK AGAIN TO PCFG3 → PCFG4 # PROBLEMS. WE THEN SWITCHED TO PCFG7 AND COULD NOT SWITCHED TO RECYCLED power and turned on.	0200						
2102	188	10/8	DURING SPECTROSCOPY POWER CONFIGURATION TESTING, SWITCHING TO SIDE B, THIS CONFIGURATION SIDE A CHANGED FROM CONFIGURATION WAS BACK AGAIN TO PCFG3 → PCFG4 # PROBLEMS. WE THEN SWITCHED TO RECYCLED power and turned on.	0100						

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2103		188	SIDE A ON PCFG-O INITAI SV OFF	0604			RPI/C
2104		188	SIDE B ON PCFG-7 INITBI THE ROLLING DISPLAY DID NOT STOP ALL HSIC VALUES AT 255	0705	0607		RPI/C
2105		188	SIDE A ON PCFG-O INITAI SV OFF	0710			RPI/C
2106		188	SIDE B ON PCFG-7 INITBI AS ABOVE, THE ROLLING DISPLAY DID NOT STOP ALL HSIC VALUES AT 255	0858			RPI/C
2107		188	SIDE A ON PCFG-O INITAI SV OFF	1003			RPI/C
2108		188	SIDE B ON PCFG-7 INITBI SV OFF	1109			RPI/C
2109	POWER ON/OFF	188	TURNED ON IN PCFG-7 USING INITBS SV OFF	1515			RPI/C
			TURNED ON IN PCFG-O USING INITAI SV OFF	1517			RPI/C
				1519			RPI/C
				1521			RPI/C

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2110	Power OFF	188	Power on A side PFC 60, INITI		1619			
			SW OFF		1621			
			Power on B 5106 PFC 4, INITI		1622			
			SW OFF		1624			
2111	FUNC TEST	188	PERFORMED SEET PFC Tp-HRC-333, APC.A	1822				
			AT LOW TEMP AND 35VDC					
2112	FUNC. TEST	189	PERFORMED SEET PFC Tp-HRC-333 APC.A	1825				
			A 5 H1 TEMP & 28V. RECORDED					
			H1 TEMP POWER MEASUREMENTS PER					
			TP-HRC-333, SEC.T. 6.3					
2113	Power Tests		Measured input power @ +22+25+35 A5106 400C WITH NO HV AND WITH IM 2 SH1 OPERATING					
			ALSO TRIES AGAIN TO TURN ON POWER WITH 4 MSFC KILL SWITCH. RESULT IS HEC Circuit Breaker TRIPS. DO NOT UNDERSTAND WHY SAS GSE USES SWITCHED ON BUS ROUTINELY. LOOKED AT MSFC WIRES IN CABINET. TYPE WIRE CHANGES IN BOWELS OF CABINET. NO IDEA WHAT IS IN LINE					
			AND NOT SHOWN ON PRINT. JUST CONNECTIONS? DID NOT OBSERVE A TRANSIENT ON +28V AT					
			Power Supply. Will look next time AT switched output on relay.					

LIFE HISTORY

LIFE HISTORY				PAGE OF PAGES					
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2114	PARK ON/OFF	1809	PARK ON ON A SIDE IN PCFG AB BBBB		1707				
			SV OFF						
			PARK ON ON B SIDE IN PCFG BAAAAA		1710				
			SV OFF						
2115	PARK ON/OFF	1809	PARK ON/OFF POSITION STOP LADDER A : B WHEEL INTAKE AND GOOD IN POSITION OF TURN-ON		1715				GKA
			2058						
2116	PARK ON/OFF	1809	PARK ON/OFF POSITION STOP Z114.		2105				GKA
			2310						
2117	PARK ON/OFF	1900	PARKING STOP Z114 USING PCFG8 ; PCFG9		2316				GKA
			0043 0048						
2118	PARK ON/OFF	1900	INSTRATE SV OFF		0210				PPK
			0213						
2119	PARK ON	1900	INITIAL		0259				PPK
2120	COND FUNCT	1900	TRAN FUNCTIONAL TEST @ 5°C PARK APPENDIX A OF TP-HRC-3330		0426				PPK
			TOTAL						
2121	PARK LOSS	1900	FACILITY PARK LOSS: BREAKDOWN. HRC WENT OFF. TURNED ON AGAIN WITH INITIAL AND		0830				GKA
			1328						
2122	Hot Start	1900	PERFORM FUNCTIONAL TEST PER HRC-3339 1501 APP. A @ 28VDC.		1333				GKA
			1333						
			1907						J3