

HERSCHEL FLIGHT OPERATIONS PLAN

VOLUME 6 FCP Related Nominal Flight Control Procedures

CDMU FCP's

DHS_1001 to DHS_3081

PT-HMOC-OPS-FOP-6001-OPS-OAH

Issue 3.1

05/09/11







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DOCUMENT APPROVAL

The Approval Page for all Volumes of the FOP can be found in Volume 1.

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DISTRIBUTION LIST

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CHANGE SUMMARY

Date	FOP Issue	Version	Modification Description	Author	SPR Ref
01/08/2008		1	Created	mvoegele-hp	
04/08/2008		2	Updated for Issue 1.0	mvoegele-hp	
05/08/2008	1.0	3	Changed title	mvoegele-hp	
02/02/2009	2.0	4	Updated change control history for Issue 2.0	mvoegele-hp	
06/03/2009		5	Updated change control history for Issue 2.1	mvoegele-hp	
10/03/2009	2.1	6	Due to the large amount of procedures vol6 ch2 has been divided into two books as follows: DHS_1001 to DHS_3081 and DHS_4001 to OBS_7114	mvoegele-hp	
26/03/2009	2.2	7	Updated change control history for Issue 2.2	mvoegele-hp	
23/04/2009	2.3	8	Updated change control history for Issue 2.3	mvoegele-hp	
06/05/2009	2.4	9	Updated change history for Issue 2.4	mvoegele-hp	
08/10/2009	2.5	10	Updated change control history for Issue 2.5	dbleakle-hp	
13/04/2010	3.0	11	Updated change control history for issue 3.0	mvoegele-hp	
05/09/2011	3.1	12	Updated change control history for issue 3.1	mvoegele-hp	

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CHANGE RECORD SHEET

Change No.	Type of	Date of Issue	Section Affected		
1	Change		ΔII		
1	1.0	06/08/08	All	T	
			Updated:		
			Added:	H_FCP_DHS_1001, H_FCP_DHS_1002,	
				H_FCP_DHS_1003, H_FCP_DHS_1004,	
				H_FCP_DHS_1005, H_FCP_DHS_1006,	
				H_FCP_DHS_1007, H_FCP_DHS_1008,	
				H_FCP_DHS_1009, H_FCP_DHS_1010,	
				H_FCP_DHS_1011, H_FCP_DHS_1012,	
				H_FCP_DHS_1013, H_FCP_DHS_1014,	
				H_FCP_DHS_1015, H_FCP_DHS_1016,	
				H_FCP_DHS_1017, H_FCP_DHS_1018,	
				H_FCP_DHS_1019, H_FCP_DHS_1020, H_FCP_DHS_1021, H_FCP_DHS_1022,	
				H_FCP_DHS_1021, H_FCP_DHS_1022, H_FCP_DHS_3001,	
				H_FCP_DHS_3002, H_FCP_DHS_3004,	
				H FCP DHS 3005, H FCP DHS 3006,	
				H_FCP_DHS_3005, H_FCP_DHS_3006, H_FCP_DHS_3008,	
				H_FCP_DHS_3009, H_FCP_DHS_3010,	
				H_FCP_DHS_3011, H_FCP_DHS_3012,	
				H_FCP_DHS_3013, H_FCP_DHS_3014,	
				H_FCP_DHS_3015, H_FCP_DHS_3016,	
				H_FCP_DHS_3017, H_FCP_DHS_3018,	
				H_FCP_DHS_3019, H_FCP_DHS_3020,	
				H_FCP_DHS_3021, H_FCP_DHS_3022,	
				H_FCP_DHS_3023, H_FCP_DHS_3024,	
				H_FCP_DHS_3025, H_FCP_DHS_3026,	
				H_FCP_DHS_3027, H_FCP_DHS_3028,	
				H_FCP_DHS_3029, H_FCP_DHS_3030,	
				H_FCP_DHS_3032, H_FCP_DHS_3033,	
				H_FCP_DHS_3034, H_FCP_DHS_3035,	
				H_FCP_DHS_3036, H_FCP_DHS_3037,	
				H_FCP_DHS_3038, H_FCP_DHS_3039,	
				H_FCP_DHS_3040, H_FCP_DHS_3041,	
				H_FCP_DHS_3042, H_FCP_DHS_3043,	
				H_FCP_DHS_3044, H_FCP_DHS_3045,	
				H_FCP_DHS_3046, H_FCP_DHS_3047,	
				H_FCP_DHS_3048, H_FCP_DHS_3049,	
				H_FCP_DHS_3050, H_FCP_DHS_3051,	
				H_FCP_DHS_3052, H_FCP_DHS_3053,	
				H_FCP_DHS_3054, H_FCP_DHS_3055,	
				H_FCP_DHS_3056, H_FCP_DHS_3057,	
				H_FCP_DHS_3058, H_FCP_DHS_3059,	
				H_FCP_DHS_3060, H_FCP_DHS_3061,	
				H_FCP_DHS_3062, H_FCP_DHS_3063,	
				H_FCP_DHS_3064, H_FCP_DHS_3065,	
				H_FCP_DHS_3066, H_FCP_DHS_3067,	
				H_FCP_DHS_3068, H_FCP_DHS_3069,	
				H_FCP_DHS_3070, H_FCP_DHS_3071,	
				H_FCP_DHS_3072, H_FCP_DHS_3073,	
				H_FCP_DHS_3074, H_FCP_DHS_3075,	
				H_FCP_DHS_3076, H_FCP_DHS_3077,	
				H_FCP_DHS_3078, H_FCP_DHS_3079,	
				H_FCP_DHS_3080, H_FCP_DHS_3081,	

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			I, H_FCP_DHS_4002,
		H_FCP_DHS_4008 H_FCP_DHS_LMC H_FCP_DHS_SAC H_FCP_DHS_STR H_FCP_OBS_1448 H_FCP_OBS_7102	3, H_FCP_DHS_4004, 5, H_FCP_DHS_4006, 6K, H_FCP_DHS_NMCK, 6K, H_FCP_DHS_SRCK, T, H_FCP_OBS_1210, 9, H_FCP_OBS_7101, 2, H_FCP_OBS_7108, 0, H_FCP_OBS_7112, 14
2 2.0	02/02/09	All – complete re-print for Issue	2.0
		H_FCP_DHS_1003 H_FCP_DHS_1003 H_FCP_DHS_1003 H_FCP_DHS_1003 H_FCP_DHS_1013 H_FCP_DHS_1013 H_FCP_DHS_1013 H_FCP_DHS_1023 H_FCP_DHS_3003 H_FCP_DHS_3003 H_FCP_DHS_3003 H_FCP_DHS_3013 H_FCP_DHS_3013 H_FCP_DHS_3013 H_FCP_DHS_3013 H_FCP_DHS_3023 H_FCP_DHS_3033 H_FCP_DHS_3033 H_FCP_DHS_3033 H_FCP_DHS_3034 H_FCP_DHS_3044 H_FCP_DHS_3046 H_FCP_DHS_3046 H_FCP_DHS_3046 H_FCP_DHS_3056	I, H_FCP_DHS_1002, I, H_FCP_DHS_1004, I, H_FCP_DHS_1006, I, H_FCP_DHS_1010, I, H_FCP_DHS_1011, I, H_FCP_DHS_1014, I, H_FCP_DHS_1014, I, H_FCP_DHS_1018, I, H_FCP_DHS_1020, I, H_FCP_DHS_1020, I, H_FCP_DHS_3001, I, H_FCP_DHS_3006, I, H_FCP_DHS_3006, I, H_FCP_DHS_3010, I, H_FCP_DHS_3010, I, H_FCP_DHS_3014, I, H_FCP_DHS_3016, I, H_FCP_DHS_3016, I, H_FCP_DHS_3016, I, H_FCP_DHS_3020, I, H_FCP_DHS_3024, I, H_FCP_DHS_3024, I, H_FCP_DHS_3024, I, H_FCP_DHS_3026, I, H_FCP_DHS_3033, I, H_FCP_DHS_3033, I, H_FCP_DHS_3035, I, H_FCP_DHS_3037, I, H_FCP_DHS_3037, I, H_FCP_DHS_3037, I, H_FCP_DHS_3041, I, H_FCP_DHS_3041, I, H_FCP_DHS_3045, I, H_FCP_DHS_3045, I, H_FCP_DHS_3045, I, H_FCP_DHS_3047, I, H_FCP_DHS_3047, I, H_FCP_DHS_3056, I, H_FCP_DHS_3061, I, H_FCP_DHS_3061, I, H_FCP_DHS_3066, I, H_FCP_DHS_4003, I, H_FCP_DHS_4005, II, H_FCP_DHS_4005, II, H_FCP_DHS_4005, III, H_FCP_DHS_4005, IIII, H_FCP_DHS_4005, IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

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	1	1	1	
				H_FCP_DHS_4006, H_FCP_DHS_LMCK,
				H_FCP_DHS_NMCK, H_FCP_DHS_SACK,
				H_FCP_DHS_SRCK, H_FCP_DHS_STRT,
			A 1.1 1	H_FCP_OBS_1210, H_FCP_OBS_1449
			Added:	H_FCP_DHS_1025, H_FCP_DHS_1026,
				H_FCP_DHS_1027, H_FCP_DHS_1028,
				H_FCP_DHS_1029, H_FCP_DHS_1030,
				H_FCP_DHS_1031, H_FCP_DHS_1032,
				H_FCP_DHS_1033, H_FCP_DHS_4007,
				H_FCP_DHS_4008, H_FCP_DHS_EACK,
				H_FCP_DHS_FCCT, H_FCP_OBS_1241,
				H_FCP_OBS_1245, H_FCP_OBS_1249,
				H_FCP_OBS_1251, H_FCP_OBS_1263,
				H_FCP_OBS_1423, H_FCP_OBS_1451,
				H_FCP_OBS_1651
			Deleted:	H_FCP_DHS_3050, H_FCP_DHS_3057,
				H_FCP_DHS_3062, H_FCP_DHS_3063,
				H_FCP_DHS_3064, H_FCP_DHS_3065,
				H_FCP_DHS_3069, H_FCP_DHS_3070,
				H_FCP_DHS_3071, H_FCP_DHS_3072,
				H_FCP_DHS_3073, H_FCP_DHS_3078,
			<u> </u>	H_FCP_DHS_3079
3	2.1	06/03/09	New Book	
				chapter 2 divided into two books as follows:
			_	to DHS_3081 and DHS_4001 to OBS_7114
				ete re-print for Issue 2.1
			Updated:	H_FCP_DHS_1007, H_FCP_DHS_1009,
				H_FCP_DHS_1026, H_FCP_DHS_1027,
				H_FCP_DHS_1030, H_FCP_DHS_1031,
				H_FCP_DHS_3006, H_FCP_DHS_3007,
				H_FCP_DHS_3030, H_FCP_DHS_3037,
			۸ ما ما م ما ،	H_FCP_DHS_3049
			Added: Deleted:	H_FCP_DHS_1034, H_FCP_DHS_1035
4	2.2	26/03/09		lete re-print
-	2.2	20/03/09	Updated:	H_FCP_DHS_1002, H_FCP_DHS_1004,
			Opualeu.	H_FCP_DHS_1002, H_FCP_DHS_1004, H_FCP_DHS_1006,
				H_FCP_DHS_1003, H_FCP_DHS_1010,
				H_FCP_DHS_1012, H_FCP_DHS_1014,
				H_FCP_DHS_1027, H_FCP_DHS_1029,
				H_FCP_DHS_1030, H_FCP_DHS_1031,
				H_FCP_DHS_3001, H_FCP_DHS_3005,
				H_FCP_DHS_3006, H_FCP_DHS_3007,
				H_FCP_DHS_3008, H_FCP_DHS_3010,
				H FCP DHS 3018, H FCP DHS 3019,
				H_FCP_DHS_3021, H_FCP_DHS_3022,
				H_FCP_DHS_3025, H_FCP_DHS_3026,
				H_FCP_DHS_3027, H_FCP_DHS_3028,
				H_FCP_DHS_3030, H_FCP_DHS_3037,
				H_FCP_DHS_3040, H_FCP_DHS_3041,
				H_FCP_DHS_3042, H_FCP_DHS_3043,
				H_FCP_DHS_3044, H_FCP_DHS_3045,
				H_FCP_DHS_3049, H_FCP_DHS_3080
			Added:	
			Deleted:	H_FCP_DHS_3066, H_FCP_DHS_3068,
				H_FCP_DHS_3077
			+	
5	2.3	23/04/09	All – compl	ete re-print for Issue 2.3
5	2.3	23/04/09	All – compl Updated:	ete re-print for Issue 2.3 H_FCP_DHS_1009, H_FCP_DHS_3009,

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				H_FCP_DHS_3021, H_FCP_DHS_3024,
				H_FCP_DHS_3028, H_FCP_DHS_3030,
				H_FCP_DHS_3037, H_FCP_DHS_3049,
				H_FCP_DHS_3055, H_FCP_DHS_3059,
				H_FCP_DHS_3067, H_FCP_DHS_3075,
				H_FCP_DHS_3080, H_FCP_DHS_3081
			Added:	
			Deleted:	
6	2.4	06/05/09	Front Page	, Change Summary, Change Record Sheet
			and List of	Procedures replaced.
			Updated:	H_FCP_DHS_1030, H_FCP_DHS_1032,
			· ·	H_FCP_DHS_3080
			Added:	
			Deleted:	
7	2.5	07/10/09	Front Page	, Change Summary, Change Record Sheet
				Procedures replaced.
			Updated:	H FCP DHS 1019, H FCP DHS 1020,
			· ·	H_FCP_DHS_1021, H_FCP_DHS_1022,
				H_FCP_DHS_1023, H_FCP_DHS_3014,
				H_FCP_DHS_3023, H_FCP_DHS_3024
			Added:	H_FCP_DHS_1036, H_FCP_DHS_1037,
				H_FCP_DHS_1038
			Deleted:	
8	3.0	13/04/10	Complete r	e-print
			Updated:	H_FCP_DHS_1003, H_FCP_DHS_1004,
			·	H_FCP_DHS_1014, H_FCP_DHS_3027
			Added:	
			Deleted:	
II - 9	3.1	05/09/11	Front Page	, Change Summary, Change Record Sheet
				Procedures replaced.
			Updated:	H_FCP_DHS_1003, H_FCP_DHS_1004,
			'	H_FCP_DHS_1014, H_FCP_DHS_1018,
				H_FCP_DHS_1027, H_FCP_DHS_3049
			Added:	H FCP DHS 1039
			Deleted:	
			_ = 0.0.00.	

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Introduction

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2.2 CDMU Flight Control Procedures

	H_FCP_DHS_1001	Upload default housekeeping and diagnostic packets.	7	08/01/2009
	H_FCP_DHS_1002	Upload default MOT table.	5	19/03/2009
	H_FCP_DHS_1003	Nominal TRANSMIT/STORAGE settings	14	05/10/2010
画	H_FCP_DHS_1004	Nominal TM Pkt to Store Routing	13	15/10/2010
	H_FCP_DHS_1005	Define the standard packet stores on SSMM A	5	24/03/2009
	<u> </u>	and B (4 banks)		, 00, _ 000
	H_FCP_DHS_1006	Default packet store catalogues.	13	19/03/2009
	H FCP DHS 1007	Dump of PSITs from default stores.	5	19/03/2009
	H FCP DHS 1008	AD protocol initialisation	8	09/12/2008
	H FCP DHS 1009	Enable default HK packets	10	22/04/2009
	H FCP DHS 1010	MM Banks 0, 1, 2 and 3 power ON.	9	24/03/2009
	H FCP DHS 1011	MTL Uplink	5	09/12/2008
Ē	H FCP DHS 1012	Write survival register after separation	6	23/03/2009
Ē	H FCP DHS 1013	Enable/disable VC1 RT	11	09/12/2008
Ē	H FCP DHS 1014	Dump of CEL and SSMM packet stores	25	08/12/2010
Ē	H FCP DHS 1015	Routine CDMU Checks for DTCP	10	21/11/2008
Ē	H FCP DHS 1016	Rejoin HIFI	6	29/07/2008
Ē	H FCP DHS 1017	Rejoin PACS	7	29/07/2008
Ē	H FCP DHS 1018	Rejoin SPIRE	8	14/12/2010
Ē	H FCP DHS 1019	Set SCBP 2 (HIFI prime)	8	27/08/2009
Ē	H FCP DHS 1020	Set SCBP 4 (PACS Prime)	8	27/08/2009
Ē	H FCP DHS 1021	Set SCBP 3 (SPIRE prime)	8	27/08/2009
Ē	H FCP DHS 1022	Select SCBP 8 (parallel mode)	7	27/08/2009
Ē	H FCP DHS 1023	Set SCBP 7 (burst mode)	6	27/08/2009
Ē	H_FCP_DHS_1025	SSMM dumps after DTCP loss.	2	09/12/2008
Ē	H FCP DHS 1026	Start MTL function during LEOP	7	05/03/2009
Ē	H_FCP_DHS_1027	Dumping BSW TM routing Info array	4	13/10/2010
Ē	H FCP DHS 1028	List the HKID defined on board (using SGM dump)	4	11/12/2008
واللارات المال والكراف والمالي والمراف والمالي والمراف والمالي والمراف والمالي والمراف والمالية والمالية	H_FCP_DHS_1029	CDMU and ACC TC test (Serv 17 or BD/BSW	3	19/03/2009
		counter only)		
	H_FCP_DHS_1030	CDMU OBSW data acquisition	10	04/05/2009
	H_FCP_DHS_1031	Read main registers	6	25/03/2009
	H_FCP_DHS_1032	Set the [TM generating TC] exe rate	5	03/05/2009
	H_FCP_DHS_1033	Abort or modify rate of MTL reports	1	06/01/2009
	H_FCP_DHS_1034	Increase VC0 rate	1	04/02/2009
	H_FCP_DHS_1035	Dump of main On-board tables from SGM	3	23/02/2009
	H_FCP_DHS_1036	HIFI LCL Supercommutation	2	02/09/2009
	H_FCP_DHS_1037	Setup OBCP MOT EAT for SPIRE FDIR	2	26/08/2009
	H_FCP_DHS_1038	Set SCBP 14 (HIFI prime with SupComm)	2	07/09/2009
	H_FCP_DHS_1039	Re-Enabling of Payload Subschedules	1	19/08/2010
	H_FCP_DHS_3001	Define housekeeping or diagnostic packet	8	15/03/2009
	H_FCP_DHS_3002	Clear housekeeping or diagnostic packet	5	12/01/2009
	H_FCP_DHS_3004	Set timeout for ASW internal event filtering	8	01/12/2008
	H_FCP_DHS_3005	Report ASW event filter function and settings	5	24/03/2009
	H_FCP_DHS_3006	Switch to TM encoder A and OBT A	7	23/03/2009
	H_FCP_DHS_3007	Switch to TM encoder B and OBT B	7	23/03/2009
	H_FCP_DHS_3008	Switch PM A ON or OFF	6	24/03/2009
	H_FCP_DHS_3009	Switch PM B ON or OFF	5	14/04/2009
	H_FCP_DHS_3010	Read TTR CROME register	6	22/03/2009
	H_FCP_DHS_3011	Abort current memory dump	3	02/01/2009
(am) (am) (am) (am) (am) (am) (am) (am)	H_FCP_DHS_3012	Dump and interpretation of Reconfiguration Log	6	21/01/2009
	H_FCP_DHS_3013	Dump and interpretation of Unit in Use table	5	12/01/2009



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-				
	H_FCP_DHS_3014	Dump and interpretation of CEL	6	17/07/2009
	H_FCP_DHS_3015	Dump and interpretation of SEL	6	12/01/2009
	H_FCP_DHS_3016	Map a MM ID to a MM bank	5	12/01/2009
	H_FCP_DHS_3017	Switching a MM bank ON or OFF	5	12/01/2009
	H_FCP_DHS_3018	MM ID reinitialization	6	22/03/2009
Ē	H FCP DHS 3019	Remote terminal synchronization with bus	5	22/03/2009
		controller		
	H_FCP_DHS_3020	Time verification	5	01/12/2008
Ē	H_FCP_DHS_3021	Set central time reference synchronization	7	15/04/2009
붑	H_FCP_DHS_3022	Enable or disable release of TC from MTL	5	15/03/2009
ලකුණු ලකුණු ලකුණු ලකුණු	H_FCP_DHS_3023	Clearing the complete MTL	4	07/10/2009
	H_FCP_DHS_3024	Normal MTL maintenance	7	07/10/2009
틙				
	H_FCP_DHS_3025	Starting or stopping the MTL function	11	19/03/2009
	H_FCP_DHS_3026	Report MTL function	7	19/03/2009
Ħ	H_FCP_DHS_3027	Dump MTL summary or detailed report	7	12/04/2010
	<u>H_FCP_DHS_3028</u>	Enable or disable the on board monitoring for a	6	14/04/2009
_		parameter		
	<u>H_FCP_DHS_3029</u>	Clearing the complete monitoring table	5	01/12/2008
	H_FCP_DHS_3030	Monitoring table maintenance	7	19/04/2009
	H_FCP_DHS_3032	Report monitoring function	3	01/12/2008
	H_FCP_DHS_3033	Enable or disable the generation of an	7	11/12/2008
_		housekeeping or diagnostic packet		
	H_FCP_DHS_3034	TM packet routing to downlink or MM or both	3	27/10/2008
	H_FCP_DHS_3035	Enable or disable storage in a MM packet store	4	13/01/2009
Ē	H FCP DHS 3036	Allocate or deallocate TM type and subtype in a	3	28/11/2008
		MM packet store		
	H_FCP_DHS_3037	TM packet store downlink and maintenance	13	19/04/2009
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@	H_FCP_DHS_3038	Packet store creation and VC 2, 3 allocation	6	13/01/2009
Ē	H_FCP_DHS_3039	Packet store deletion	4	13/01/2009
Ē	H_FCP_DHS_3040	Perform connection test	11	19/03/2009
Ē	H_FCP_DHS_3041	Load or delete an OBCP	4	15/03/2009
불	H_FCP_DHS_3042	Start or stop an OBCP	5	15/03/2009
불	H_FCP_DHS_3043	Suspend or resume an OBCP	5	15/03/2009
를	H_FCP_DHS_3044	Set OBCP parameters	5	15/03/2009
	H_FCP_DHS_3045	Dump OBCP code	4	15/03/2009
틙				
틙	H_FCP_DHS_3046	Start or stop the whole OBCP function	3	28/11/2008
_	H_FCP_DHS_3047	Report OBCP management function	3	11/12/2008
Ħ	H_FCP_DHS_3048	Clear the complete event-action table	3	28/11/2008
	H_FCP_DHS_3049	Event-action table maintenance	9	07/02/2011
	H_FCP_DHS_3051	Report event-action management status or event	3	28/11/2008
_	II	detection list	•	0.4./4.0./0.000
Ą	H_FCP_DHS_3052	Bus profile maintenance	3	01/12/2008
	H_FCP_DHS_3053	Select a bus profile to be active	4	11/12/2008
	H_FCP_DHS_3054	Enable or disable burst mode for a remote	4	13/01/2009
		terminal		
	H_FCP_DHS_3055	Configure 1553 bus FDIR for a remote terminal	4	19/04/2009
	<u>H_FCP_DHS_3056</u>	Enable or disable TC routing to an APID	3	11/12/2008
	H_FCP_DHS_3058	Set AFO or AFS status of FDIR	4	03/12/2008
	H_FCP_DHS_3059	Maintenance of FDIR cross correlated checks	4	19/04/2009
	H_FCP_DHS_3060	Verify configuration matrices for FDIR	4	14/11/2008
	H_FCP_DHS_3061	Report FDIR management function and FDIR	3	01/12/2008
		cross correlated table		
	H_FCP_DHS_3067	Report mode management function and current	4	20/04/2009
		spacecraft mode		
	H FCP DHS 3074	Start or stop the whole reconfiguration module	3	02/12/2008
_		(TTR) function	_	00/6 //5
	<u>H_FCP_DHS_3075</u>	Report reconfiguration module (TTR) status	5	20/04/2009



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 H FCP DHS 3076
 Saving of HK packets in data pool buffers
 3
 02/12/2008

 H FCP DHS 3080
 Survival Register maintenance
 7
 04/05/2009

 H FCP DHS 3081
 CDMS Subsystem Checkout
 7
 14/04/2009