

**HERSCHEL
FLIGHT OPERATIONS PLAN**

**VOLUME 7
FCP Related Contingency Flight Control
Procedures**

ACMS CRP's

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

Issue 3.1

05/09/11



DOCUMENT APPROVAL

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



DISTRIBUTION LIST

The Distribution List for all Volumes of the FOP can be found in Volume 1.

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	2.1	5	Updated change control history for Issue 2.1	mvoegele-hp	
26/03/2009	2.2	6	Updated change control history for Issue 2.2	mvoegele-hp	
23/04/2009	2.3	7	Updated change control history for Issue 2.3	mvoegele-hp	
06/05/2009	2.4	8	Updated change history for Issue 2.4	mvoegele-hp	
08/10/2009	2.5	9	Updated change control history for Issue 2.5	dbleakle-hp	
13/04/2010	3.0	10	Updated change control history for issue 3.0	mvoegele-hp	
05/09/2011	3.1	11	Updated change control history for issue 3.1	mvoegele-hp	

CHANGE RECORD SHEET









































Change No.	Type of Change	Date of Issue	Section Affected	
1	1.0	06/08/08	All	
			Updated:	
			Added:	C_CRP_OBS_2100, C_CRP_OBS_2102, H_CRP_AOC_40S1, H_CRP_AOC_4G01, H_CRP_AOC_4S01, H_CRP_AOC_5ACD, H_CRP_AOC_XA2C
			Deleted:	
2	2.0	02/02/09	All – Complete re-print for Issue 2.0	
			Updated:	H_CRP_AOC_XA2C
			Added:	H_CRP_AOC_03AH, H_CRP_AOC_0S34, H_CRP_AOC_0S78, H_CRP_AOC_2BCM, H_CRP_AOC_2BVL, H_CRP_AOC_3DET, H_CRP_AOC_3SUR, H_CRP_AOC_4RCF, H_CRP_AOC_4RPW, H_CRP_AOC_5F2C, H_CRP_AOC_5NCF, H_CRP_AOC_6RCF, H_CRP_AOC_7NRC, H_CRP_AOC_D2AC, H_CRP_AOC_D2AD, H_CRP_AOC_D2AE, H_CRP_AOC_D2AP, H_CRP_AOC_D2PS, H_CRP_AOC_D2TD, H_CRP_AOC_XN2S, H_CRP_AOC_XS2A, xH_CRP_AOC_03AH, xH_CRP_AOC_3DET, xH_CRP_AOC_D2AP
			Deleted:	
3	2.1	06/03/09	All – Complete re-print for Issue 2.1	
			Updated:	H_CRP_AOC_4RPW, H_CRP_AOC_5F2C, H_CRP_AOC_XN2S, H_CRP_AOC_XS2A
			Added:	H_CRP_AOC_0DVA, H_CRP_AOC_2BRT, H_CRP_AOC_2RCF
			Deleted:	
4	2.2	26/03/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_CRP_AOC_0DVA, H_CRP_AOC_0S34, H_CRP_AOC_4RPW, H_CRP_AOC_XA2C, H_CRP_AOC_XS2A
			Added:	H_CRP_AOC_2CPD, H_CRP_AOC_2PNR, H_CRP_AOC_2POR, H_CRP_AOC_2SGM, H_CRP_AOC_5LVC, H_CRP_AOC_DBSW, H_CRP_AOC_D0BT, H_CRP_AOC_DSGM
			Deleted:	xH_CRP_AOC_03AH, xH_CRP_AOC_3DET, xH_CRP_AOC_D2AP
5	2.3	23/04/09	All – Complete re-print for Issue 2.3	
			Updated:	H_CRP_AOC_0S34, H_CRP_AOC_4RPW, H_CRP_AOC_5NCF, H_CRP_AOC_XS2A
			Added:	H_CRP_AOC_D5LP, H_CRP_AOC_DCTR, xH_CRP_AOC_4S01
			Deleted:	H_CRP_AOC_4S01
6	2.4	06/05/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	

			Updated:	H_CRP_AOC_3DET, H_CRP_AOC_3SUR, H_CRP_AOC_4RPW, H_CRP_AOC_5NCF, H_CRP_AOC_D5LP, H_CRP_AOC_DCTR, H_CRP_AOC_XS2A
			Added:	H_CRP_AOC_4S01
			Deleted:	H_CRP_AOC_2RCF, H_CRP_AOC_40S1, H_CRP_AOC_D0BT, xH_CRP_AOC_4S01
7	2.5	07/10/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_CRP_AOC_2POR, H_CRP_AOC_4S01, H_CRP_AOC_XA2C, H_CRP_AOC_XS2A
			Added:	H_CRP_AOC_0SUR, H_CRP_AOC_5SCF
			Deleted:	
8	3.0	13/04/10	Complete re-print	
			Updated:	H_CRP_AOC_2BCM, H_CRP_AOC_2BVL, H_CRP_AOC_4G01
			Added:	
			Deleted:	
9	3.1	05/09/11	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_CRP_AOC_4S01, H_CRP_AOC_XS2A
			Added:	
			Deleted:	



Introduction

2.3 ACMS Flight Control Procedures

	C CRP OBS 2100	Enable/Disable write to ACC CPU and COCOS registers or EEPROM	1	30/01/2008
	C CRP OBS 2102	Enable/Disable write to ACC ASW/BSW code and constants	1	30/01/2008
	H CRP AOC 03AH	Recovery from Level 3a Trigger	2	18/01/2009
	H CRP AOC 0DVA	Herschel ACMS : Abort Delta-V	2	25/03/2009
	H CRP AOC 0S34	Recovery from Separation Straps 3 and 4 (Double) Failure	3	21/04/2009
	H CRP AOC 0S78	Recovery from Separation Straps 7 or 8 Failure	2	02/02/2009
	H CRP AOC 0SUR	Update SM units configuration	2	22/07/2009
	H CRP AOC 2BCM	Modify ACMS Data Bus Communication Configuration	2	07/01/2010
	H CRP AOC 2BRT	Get ACC Boot Report	1	03/03/2009
	H CRP AOC 2BVL	Modify ACMS Data Bus Validity Table	3	07/01/2010
	H CRP AOC 2CPD	Modify CPDU Configuration	2	24/03/2009
	H CRP AOC 2PNR	PM Nominal mode reset	1	19/03/2009
	H CRP AOC 2POR	Set/Clear Power-on-reset Register	3	07/10/2009
	H CRP AOC 2SGM	Modify SGM Configuration	2	24/03/2009
	H CRP AOC 3DET	Select CRS Detection Unit	2	05/05/2009
	H CRP AOC 3SUR	Select CRS Survival Unit	3	05/05/2009
	H CRP AOC 4G01	GYR Electronics reconfiguration	3	07/01/2010
	H CRP AOC 4RCF	Individual GYR reconfiguration	1	12/01/2009
	H CRP AOC 4RPW	Re-power GYRE	6	04/05/2009
	H CRP AOC 4S01	STR Reconfiguration	5	24/02/2011
	H CRP AOC 5ACD	Dump memory area	1	04/08/2008
	H CRP AOC 5F2C	Command RCS to Coarse pointing	2	05/03/2009
	H CRP AOC 5LVC	Modify RCS Nominal Configuration	1	24/03/2009
	H CRP AOC 5NCF	Modify RCS Nominal Configuration	7	04/05/2009
	H CRP AOC 5SCF	Modify RCS Survival Configuration	1	21/07/2009
	H CRP AOC 6RCF	Reconfigure RWLs	1	12/12/2008
	H CRP AOC 7NRC	SAS Nominal reconfiguration	1	10/12/2008
	H CRP AOC D2AC	Set RM Attempt Counter	1	10/01/2009
	H CRP AOC D2AD	Set RM Activation and Toggle Delays	2	09/01/2009
	H CRP AOC D2AE	Enable/Disable RM Alarms	1	10/01/2009
	H CRP AOC D2AP	Set RM Alarm Polarity	2	02/02/2009
	H CRP AOC D2PS	Change RM Programming Set	4	18/01/2009
	H CRP AOC D2TD	Set RM Alarm Temporisation Delays	2	09/01/2009
	H CRP AOC D5LP	Restore launch pad update OBDB values	2	04/05/2009
	H CRP AOC DBSW	Update BSW Health Table	2	24/03/2009
	H CRP AOC DCTR	Manual CTR Synchronisation	2	04/05/2009
	H CRP AOC DSGM	Access to Write-protected Area of SGM	2	24/03/2009
	H CRP AOC XA2C	Recovery from SIR	5	20/05/2009
	H CRP AOC XN2S	Command ACMS from any nominal mode to SM	4	02/03/2009
	H CRP AOC XS2A	Recovery from SM with return to PMA or PMB	16	29/07/2010