

**HERSCHEL
FLIGHT OPERATIONS PLAN**

**VOLUME 6
FCP Related Nominal Flight Control Procedures**

PACS FCP'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	
08/10/2009	2.5	8	Updated change control history for Issue 2.5	dbleakle-hp	
13/04/2010	3.0	9	Updated change control history for issue 3.0	mvoegele-hp	
05/09/2011	3.1	10	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:	H_FCP_OBS_4110, H_FCP_OBS_4112, H_FCP_OBS_4142, H_FCP_OBS_4144, H_FCP_OBS_4162, H_FCP_OBS_4164, H_FCP_OBS_4210, H_FCP_OBS_4240, H_FCP_OBS_4260, H_FCP_OBS_4310, H_FCP_OBS_4342, H_FCP_OBS_4362, H_FCP_PAC_CCDM, H_FCP_PAC_CSBN, H_FCP_PAC_DAILY, H_FCP_PAC_NCMM, H_FCP_PAC_NCSM, H_FCP_PAC_NLDM, H_FCP_PAC_NLMM, H_FCP_PAC_NLSM, H_FCP_PAC_NRDM, H_FCP_PAC_NSOF, H_FCP_PAC_NSON, H_FCP_PAC_RCMM, H_FCP_PAC_RCSM, H_FCP_PAC_RLDM, H_FCP_PAC_RLMM, H_FCP_PAC_RLSM, H_FCP_PAC_RRDM, H_FCP_PAC_RSO, H_FCP_PAC_RSON
			Deleted:	
2	2.0	02/02/09	All – Complete re-print for Issue 2.0	
			Updated:	H_FCP_OBS_4142, H_FCP_OBS_4144, H_FCP_OBS_4162, H_FCP_OBS_4164, H_FCP_OBS_4240, H_FCP_OBS_4260, H_FCP_PAC_DAILY, H_FCP_PAC_NCMM, H_FCP_PAC_NCSM, H_FCP_PAC_NLDM, H_FCP_PAC_NLMM, H_FCP_PAC_NLSM, H_FCP_PAC_NRDM, H_FCP_PAC_NSOF, H_FCP_PAC_NSON, H_FCP_PAC_RCMM, H_FCP_PAC_RCSM, H_FCP_PAC_RLDM, H_FCP_PAC_RLMM, H_FCP_PAC_RLSM, H_FCP_PAC_RRDM, H_FCP_PAC_RSO, H_FCP_PAC_RSON
			Added:	H_FCP_OBS_4140, H_FCP_OBS_4141, H_FCP_OBS_4143, H_FCP_OBS_4145, H_FCP_OBS_4148, H_FCP_OBS_4149, H_FCP_OBS_4150, H_FCP_OBS_4151, H_FCP_OBS_4152, H_FCP_OBS_4153, H_FCP_OBS_4154, H_FCP_OBS_4155, H_FCP_OBS_4160, H_FCP_OBS_4241, H_FCP_OBS_4242, H_FCP_OBS_4243, H_FCP_OBS_4244, H_FCP_OBS_4245, H_FCP_OBS_4246, H_FCP_OBS_4247, H_FCP_OBS_4248, H_FCP_OBS_4249, H_FCP_OBS_4262, H_FCP_OBS_4264
			Deleted:	
3	2.1	06/03/09	All – Complete re-print for Issue 2.1	
			Updated:	
			Added:	
			Deleted:	
4	2.2	26/03/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_FCP_OBS_4149, H_FCP_OBS_4151,




























				H_FCP_PAC_CCDM, H_FCP_PAC_CSBF, H_FCP_PAC_CSBN, H_FCP_PAC_NCMM, H_FCP_PAC_NCSM, H_FCP_PAC_NLDM, H_FCP_PAC_NLMM, H_FCP_PAC_NLSM, H_FCP_PAC_NRDM, H_FCP_PAC_NSOF, H_FCP_PAC_NSON, H_FCP_PAC_RCMM, H_FCP_PAC_RCSM, H_FCP_PAC_RLDM, H_FCP_PAC_RLMM, H_FCP_PAC_RLSM, H_FCP_PAC_RRDM, H_FCP_PAC_RSOF, H_FCP_PAC_RSON
			Added:	
			Deleted:	
5	2.3	23/04/09	All – Complete re-print for Issue 2.3	
			Updated:	H_FCP_PAC_CCDM, H_FCP_PAC_CSBN, H_FCP_PAC_NCMM, H_FCP_PAC_NCSM, H_FCP_PAC_NLDM, H_FCP_PAC_NLMM, H_FCP_PAC_NLSM, H_FCP_PAC_NRDM, H_FCP_PAC_NSON, H_FCP_PAC_RCMM, H_FCP_PAC_RCSM, H_FCP_PAC_RLDM, H_FCP_PAC_RLMM, H_FCP_PAC_RLSM, H_FCP_PAC_RRDM, H_FCP_PAC_RSON
			Added:	
			Deleted:	
6	2.4	06/05/09		
7	2.5	07/10/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_FCP_OBS_4110, H_FCP_OBS_4112, H_FCP_OBS_4142, H_FCP_OBS_4143, H_FCP_OBS_4210, H_FCP_OBS_4310, H_FCP_PAC_CSBF, H_FCP_PAC_CSBN, H_FCP_PAC_NLDM, H_FCP_PAC_NSOF, H_FCP_PAC_NSON, H_FCP_PAC_RLDM, H_FCP_PAC_RSOF, H_FCP_PAC_RSON
			Added:	
			Deleted:	
8	3.0	13/04/10	Complete re-print	
			Updated:	H_FCP_PAC_NSON
			Added:	
			Deleted:	
9 9	3.1	05/09/11	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_FCP_OBS_4310, H_FCP_PAC_NSOF, H_FCP_PAC_NSON, H_FCP_PAC_RSOF, H_FCP_PAC_RSON
			Added:	
			Deleted:	



Introduction

3.5 PACS Flight Control Procedures

	H_FCP_OBS_4110	Load PACS DPU OBS in instrument INIT mode	4	24/07/2009
	H_FCP_OBS_4112	Load PACS DPU OBS in instrument RESCUE mode	3	19/07/2009
	H_FCP_OBS_4140	Monitor dump of PACS DPU EEPROM memory area	2	01/09/2008
	H_FCP_OBS_4141	Update PACS DPU EEPROM ground image via memory dump	3	04/09/2008
	H_FCP_OBS_4142	Monitor dump of PACS DPU PRAM memory area	4	24/07/2009
	H_FCP_OBS_4143	Update PACS DPU PRAM ground image via memory dump	5	24/07/2009
	H_FCP_OBS_4144	Monitor dump of PACS DPU DRAM memory area	2	01/09/2008
	H_FCP_OBS_4145	Update PACS DPU DRAM ground image via memory dump	2	05/09/2008
	H_FCP_OBS_4148	Monitor dump of PACS DPU RAM Data 1553 memory area	1	02/09/2008
	H_FCP_OBS_4149	Update PACS DPU RAM Data 1553 ground image via memory dump	3	12/03/2009
	H_FCP_OBS_4150	Monitor dump of PACS DPU RAM Data SMCS chip memory area	2	02/09/2008
	H_FCP_OBS_4151	Update PACS DPU RAM Data SMCS chip ground image via memory dump	3	12/03/2009
	H_FCP_OBS_4152	Monitor dump of PACS DPU RAM Data SMCS memory area	1	02/09/2008
	H_FCP_OBS_4153	Update PACS DPU RAM Data SMCS ground image via memory dump	2	05/09/2008
	H_FCP_OBS_4154	Monitor dump of PACS DPU RAM Data PRAM memory area	1	02/09/2008
	H_FCP_OBS_4155	Update PACS DPU RAM Data PRAM ground image via memory dump	2	05/09/2008
	H_FCP_OBS_4160	Check PACS DPU EEPROM memory area (checksum calculation)	1	02/09/2008
	H_FCP_OBS_4162	Check PACS DPU PRAM memory area (checksum calculation)	3	02/09/2008
	H_FCP_OBS_4164	Check PACS DPU DRAM memory area (checksum calculation)	2	02/09/2008
	H_FCP_OBS_4210	Load PACS SPU OBS in instrument INIT mode	2	18/06/2009
	H_FCP_OBS_4240	Monitor dump of SPU EEPROM memory area	4	04/09/2008
	H_FCP_OBS_4241	Update PACS SPU EEPROM ground image via memory dump	2	04/09/2008
	H_FCP_OBS_4242	Monitor dump of PACS SPU PRAM memory area	1	05/09/2008
	H_FCP_OBS_4243	Update PACS SPU PRAM ground image via memory dump	1	04/09/2008
	H_FCP_OBS_4244	Monitor dump of PACS SPU DRAM memory area	2	05/09/2008
	H_FCP_OBS_4245	Update PACS SPU DRAM ground image via memory dump	1	04/09/2008
	H_FCP_OBS_4246	Monitor dump of PACS SPU RAM Ext memory area	1	05/09/2008
	H_FCP_OBS_4247	Update PACS SPU RAM Ext ground image via memory dump	1	04/09/2008
	H_FCP_OBS_4248	Monitor dump of PACS SPU RAM Data DRAM memory area	1	05/09/2008

	H_FCP_OBS_4249	Update PACS SPU RAM Data DRAM ground image via memory dump	1	04/09/2008
	H_FCP_OBS_4260	Check PACS SPU EEPROM memory area (checksum calculation)	2	05/09/2008
	H_FCP_OBS_4262	Check PACS SPU PRAM memory area (checksum calculation)	1	05/09/2008
	H_FCP_OBS_4264	Check PACS SPU DRAM memory area (checksum calculation)	1	05/09/2008
	H_FCP_OBS_4310	Load PACS DMC OBS in instrument INIT mode	3	05/10/2010
	H_FCP_OBS_4342	Monitor dump of DMC PRAM memory area	1	30/01/2008
	H_FCP_OBS_4362	Check PACS DMC PRAM memory area (checksum calculation)	1	30/01/2008
	H_FCP_PAC_CCDM	Pacs_Dpu_MemCheck	7	20/04/2009
	H_FCP_PAC_CSBF	PACS_Burstmode_Reset	7	26/05/2009
	H_FCP_PAC_CSBN	PACS_Burstmode_Setup	6	26/05/2009
	H_FCP_PAC_DAILY	PACS daily health check	2	10/09/2008
	H_FCP_PAC_NCMM	Check DMC software (Nominal)	7	17/04/2009
	H_FCP_PAC_NCSM	Check SPU software (Nominal)	7	17/04/2009
	H_FCP_PAC_NLDM	Pacs_LoadDpuObsw_Nominal	7	24/07/2009
	H_FCP_PAC_NLMM	Load DMC software (Nominal)	6	17/04/2009
	H_FCP_PAC_NLSM	Load SPU software (Nominal)	7	17/04/2009
	H_FCP_PAC_NRDm	Pacs_LoadDpuObsw_Rescue_Nominal	7	17/04/2009
	H_FCP_PAC_NSOF	PACS_Switch_Off_Nominal	8	11/08/2011
	H_FCP_PAC_NSON	PACS_Switch_On_Nominal	11	11/08/2011
	H_FCP_PAC_RCMM	Check DMC software (Redundant)	6	17/04/2009
	H_FCP_PAC_RCSM	Check SPU software (Redundant)	7	17/04/2009
	H_FCP_PAC_RLDM	Pacs_LoadDpuObsw_Redundant	9	24/07/2009
	H_FCP_PAC_RLMM	Load DMC software (Redundant)	7	17/04/2009
	H_FCP_PAC_RLSM	Load SPU software (Redundant)	7	17/04/2009
	H_FCP_PAC_RRDm	Pacs_LoadDpuObsw_Rescue_Redundant	10	17/04/2009
	H_FCP_PAC_RSOF	PACS_Switch_Off_Redundant	8	11/08/2011
	H_FCP_PAC_RSON	PACS_Switch_On_Redundant	10	11/08/2011