

**HERSCHEL  
FLIGHT OPERATIONS PLAN**

**VOLUME 4  
COP Related Nominal Flight Control Procedures**

**Payload FCP's**

**HIFI  
H\_COP\_HIF\_NCRT to H\_COP\_HIF\_SP30  
PT-HMOC-OPS-FOP-6001-OPS-OAH**

**Issue 3.0**

**13/04/10**

## 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
06/03/2009	2.1	1	Created	mvoegele-hp	
23/04/2009		2	Updated change control history for Issue 2.3	mvoegele-hp	
24/04/2009		3	Book divided into two parts as follows: Volume 4 HIFI FCP's divided into 2 book as follows: H_COP_HIF_CFHR to H_COP_HIF_RFLE and H_COP_HIF_SP31 to H_COP_HIF_WBFT	mvoegele-hp	
24/04/2009	2.3	4	Updated list of procedures	mvoegele-hp	
06/05/2009	2.4	5	Updated change history for Issue 2.4	mvoegele-hp	
08/10/2009		6	Updated change history for Issue 2.5	dbleakle-hp	
12/10/2009	2.5	7	Updated change record sheet	mvoegele-hp	
13/10/2009		8	corrected typo in title	mvoegele-hp	
13/04/2010	3.0	9	Updated change control history for issue 3.0	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_COP_PAC_A001, H_COP_PAC_A002, H_COP_PAC_G001, H_COP_PAC_G002, H_COP_PAC_G003, H_COP_PAC_X001, H_COP_PAC_X002, H_COP_PAC_X003
Deleted:				
2	2.0	02/02/09	All – Complete re-print for Issue 2.0	
			Updated:	H_COP_PAC_A001, H_COP_PAC_A002, H_COP_PAC_G001, H_COP_PAC_G002, H_COP_PAC_G003, H_COP_PAC_X001, H_COP_PAC_X002, H_COP_PAC_X003
			Added:	H_COP_HIF_CFHR, H_COP_HIF_CFWB, H_COP_HIF_NCRT, H_COP_HIF_NFF1, H_COP_HIF_NFF2, H_COP_HIF_NFF3, H_COP_HIF_NFF4, H_COP_HIF_NFF5, H_COP_HIF_NFF6, H_COP_HIF_NFF7, H_COP_HIF_NFF8, H_COP_HIF_NFL1, H_COP_HIF_NFL2, H_COP_HIF_NFL3, H_COP_HIF_NFL4, H_COP_HIF_NFL5, H_COP_HIF_NFL6, H_COP_HIF_NFL7, H_COP_HIF_NFL8, H_COP_HIF_NFL9, H_COP_HIF_NFLA, H_COP_HIF_NFLB, H_COP_HIF_NFLC, H_COP_HIF_NFLD, H_COP_HIF_NFLE, H_COP_HIF_NIF1, H_COP_HIF_NIF2, H_COP_HIF_NIF3, H_COP_HIF_NIF4, H_COP_HIF_NIF5, H_COP_HIF_NIF6, H_COP_HIF_NIF7, H_COP_HIF_RCRT, H_COP_HIF_RFL1, H_COP_HIF_RFL2, H_COP_HIF_RFL3, H_COP_HIF_RFL4, H_COP_HIF_RFL5, H_COP_HIF_RFL6, H_COP_HIF_RFL7, H_COP_HIF_RFL8, H_COP_HIF_RFL9, H_COP_HIF_RFLA, H_COP_HIF_RFLB, H_COP_HIF_RFLC, H_COP_HIF_RFLD, H_COP_HIF_RFLE, H_COP_PAC_A003, H_COP_PAC_C101, H_COP_PAC_C102, H_COP_PAC_C103, H_COP_PAC_C201, H_COP_PAC_C202, H_COP_PAC_C203, H_COP_PAC_C204, H_COP_PAC_CX01, H_COP_PAC_CX02, H_COP_PAC_CX03, H_COP_PAC_CX04, H_COP_PAC_CX05, H_COP_PAC_D000, H_COP_PAC_D001, H_COP_PAC_D002, H_COP_PAC_D003, H_COP_PAC_D100, H_COP_PAC_D101, H_COP_PAC_D102, H_COP_PAC_D103, H_COP_PAC_D200, H_COP_PAC_D201, H_COP_PAC_D202, H_COP_PAC_D203, H_COP_PAC_D204, H_COP_PAC_D300, H_COP_PAC_D301, H_COP_PAC_D302, H_COP_PAC_D303, H_COP_PAC_D304, H_COP_PAC_D305, H_COP_PAC_D306, H_COP_PAC_D307, H_COP_PAC_F000,

			<p>H_COP_PAC_F001, H_COP_PAC_F002, H_COP_PAC_F003, H_COP_PAC_F100, H_COP_PAC_F101, H_COP_PAC_F102, H_COP_PAC_F103, H_COP_PAC_F104, H_COP_PAC_FDIR, H_COP_PAC_G000, H_COP_PAC_G101, H_COP_PAC_G201, H_COP_PAC_G202, H_COP_PAC_G203, H_COP_PAC_G204, H_COP_PAC_GX01, H_COP_PAC_GX02, H_COP_PAC_GX03, H_COP_PAC_GX04, H_COP_PAC_GX07, H_COP_PAC_GX08, H_COP_PAC_GX09, H_COP_PAC_GX10, H_COP_PAC_GX11, H_COP_PAC_L001, H_COP_PAC_LLOP, H_COP_PAC_SFTC, H_COP_PAC_SX01, H_COP_PAC_X004, H_COP_PAC_X005, H_COP_PAC_X006, H_COP_PAC_X007, H_COP_PAC_X008, H_COP_PAC_X009, H_COP_PAC_X010, H_COP_PAC_X011, H_COP_PAC_X012, H_COP_SPI_BS03, H_COP_SPI_BS06, H_COP_SPI_BS5A, H_COP_SPI_BS5B, H_COP_SPI_BSMF, H_COP_SPI_BSMI, H_COP_SPI_BSSC, H_COP_SPI_DCPN, H_COP_SPI_DCSC, H_COP_SPI_DCSN, H_COP_SPI_DPIC, H_COP_SPI_DPNC, H_COP_SPI_DPPS, H_COP_SPI_DRCN, H_COP_SPI_DSIC, H_COP_SPI_DSPS, H_COP_SPI_MCSC, H_COP_SPI_MCUF, H_COP_SPI_MCUN, H_COP_SPI_PCAC, H_COP_SPI_PHOF, H_COP_SPI_PHVT, H_COP_SPI_REDY, H_COP_SPI_SC2P, H_COP_SPI_SC4P, H_COP_SPI_SCAC, H_COP_SPI_SCAT, H_COP_SPI_SCDT, H_COP_SPI_SCSC, H_COP_SPI_SMCP, H_COP_SPI_SMCS, H_COP_SPI_SMEP, H_COP_SPI_SMER, H_COP_SPI_SMFP, H_COP_SPI_SMFR, H_COP_SPI_SMIP, H_COP_SPI_SMIR, H_COP_SPI_SMLP, H_COP_SPI_SMLR, H_COP_SPI_SMOF, H_COP_SPI_SMOL, H_COP_SPI_SMOS, H_COP_SPI_SMPP, H_COP_SPI_SMPR, H_COP_SPI_SOHC, H_COP_SPI_SPNO, H_COP_SPI_SPOF, H_COP_SPI_SPVT</p>
			Deleted:
3	2.1	06/03/09	<p>All – Complete re-print for Issue 2.1. Payload FCP's divided into 4 books.          New Book added HIFI FCP's</p>
			<p>Updated: H_COP_HIF_CFHR, H_COP_HIF_CFWB, H_COP_HIF_NFF1, H_COP_HIF_NFF2, H_COP_HIF_NFF3, H_COP_HIF_NFF4, H_COP_HIF_NFF5, H_COP_HIF_NFF6, H_COP_HIF_NFF7, H_COP_HIF_NFF8, H_COP_HIF_NIF1, H_COP_HIF_NIF2, H_COP_HIF_NIF3, H_COP_HIF_NIF4, H_COP_HIF_NIF5, H_COP_HIF_NIF6, H_COP_HIF_NIF7</p>
			Added:
			Deleted:

4	2.2	26/03/09	None	
5	2.3	23/04/09	All – Complete re-print for Issue 2.3 Volume 4 HIFI FCP's divided into 2 book as follows: H_COP_HIF_CFHR to H_COP_HIF_RFLE and H_COP_HIF_SP31 to H_COP_HIF_WBFT	
			Updated:	H_COP_HIF_NFF2, H_COP_HIF_NFF3, H_COP_HIF_NFF4, H_COP_HIF_NFF5, H_COP_HIF_NFF8, H_COP_HIF_NFL1, H_COP_HIF_NFL2, H_COP_HIF_NFL3, H_COP_HIF_NFL4, H_COP_HIF_NFL5, H_COP_HIF_NFL6, H_COP_HIF_NFL7, H_COP_HIF_NFL8, H_COP_HIF_NFL9, H_COP_HIF_NFLA, H_COP_HIF_NFLB, H_COP_HIF_NFLC, H_COP_HIF_NFLD, H_COP_HIF_NFLE, H_COP_HIF_RFL1, H_COP_HIF_RFL2, H_COP_HIF_RFL3, H_COP_HIF_RFL4, H_COP_HIF_RFL5, H_COP_HIF_RFL6, H_COP_HIF_RFL7, H_COP_HIF_RFL8, H_COP_HIF_RFL9, H_COP_HIF_RFLA, H_COP_HIF_RFLB, H_COP_HIF_RFLC, H_COP_HIF_RFLD, H_COP_HIF_RFLE
			Added:	
			Deleted:	
6	2.4	06/05/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_COP_HIF_CFHR, H_COP_HIF_NIF6
			Added:	
7	2.5	07/10/09	Front Page, Change Summary, Change Record Sheet and List of Procedures replaced.	
			Updated:	H_COP_HIF_NFL9, H_COP_HIF_NIF6, H_COP_HIF_RFL1, H_COP_HIF_RFL2, H_COP_HIF_RFL3, H_COP_HIF_RFL4, H_COP_HIF_RFL5, H_COP_HIF_RFL6, H_COP_HIF_RFL7, H_COP_HIF_RFL8, H_COP_HIF_RFL9, H_COP_HIF_RFLA, H_COP_HIF_RFLB, H_COP_HIF_RFLC, H_COP_HIF_RFLD, H_COP_HIF_RFLE
			Added:	H_COP_HIF_NFHR, H_COP_HIF_NFWB, H_COP_HIF_PS10, H_COP_HIF_PS20, H_COP_HIF_RFF1, H_COP_HIF_RFF2, H_COP_HIF_RFF3, H_COP_HIF_RFF4, H_COP_HIF_RFF5, H_COP_HIF_RFF6, H_COP_HIF_RFF7, H_COP_HIF_RFF8, H_COP_HIF_RFHR, H_COP_HIF_RFWB, H_COP_HIF_RIF1, H_COP_HIF_RIF2, H_COP_HIF_RIF3, H_COP_HIF_RIF4, H_COP_HIF_RIF5, H_COP_HIF_RIF6, H_COP_HIF_RIF7, H_COP_HIF_SP30
✚ 8	3.0	13/04/10	Deleted:	H_COP_HIF_CFHR, H_COP_HIF_CFWB
			Complete re-print	
			Updated:	H_COP_HIF_RFF1, H_COP_HIF_RFF2, H_COP_HIF_RFF3, H_COP_HIF_RFF4, H_COP_HIF_RFF5, H_COP_HIF_RFF6, H_COP_HIF_RFF7, H_COP_HIF_RFF8, H_COP_HIF_RFHR, H_COP_HIF_RFL1, H_COP_HIF_RFL2, H_COP_HIF_RFL3,

				H_COP_HIF_RFL4, H_COP_HIF_RFL5, H_COP_HIF_RFL6, H_COP_HIF_RFL7, H_COP_HIF_RFL8, H_COP_HIF_RFL9, H_COP_HIF_RFLA, H_COP_HIF_RFLB, H_COP_HIF_RFLC, H_COP_HIF_RFLD, H_COP_HIF_RFLE, H_COP_HIF_RFWB
			Added:	
			Deleted:	H_COP_HIF_NCRT, H_COP_HIF_NIF7






































































## Introduction

## Chapter 3 Payload Flight Control Procedures

### 3.4 HIFI Flight Control Procedures

	<a href="#">H COP HIF NFF1</a>	FPU functional test	2	24/02/2009
	<a href="#">H COP HIF NFF2</a>	FPU functional test	3	07/04/2009
	<a href="#">H COP HIF NFF3</a>	FPU functional test	3	07/04/2009
	<a href="#">H COP HIF NFF4</a>	FPU functional test	3	07/04/2009
	<a href="#">H COP HIF NFF5</a>	FPU functional test	3	07/04/2009
	<a href="#">H COP HIF NFF6</a>	FPU functional test	1	24/02/2009
	<a href="#">H COP HIF NFF7</a>	FPU functional test	1	24/02/2009
	<a href="#">H COP HIF NFF8</a>	FPU functional test	3	07/04/2009
	<a href="#">H COP HIF NFHR</a>	HRS Functional Test	1	17/08/2009
	<a href="#">H COP HIF NFL1</a>	LO functional test	5	07/04/2009
	<a href="#">H COP HIF NFL2</a>	LO functional test	4	07/04/2009
	<a href="#">H COP HIF NFL3</a>	LO functional test	5	07/04/2009
	<a href="#">H COP HIF NFL4</a>	LO functional test	4	07/04/2009
	<a href="#">H COP HIF NFL5</a>	LO functional test	5	07/04/2009
	<a href="#">H COP HIF NFL6</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFL7</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFL8</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFL9</a>	LO functional test	6	23/05/2009
	<a href="#">H COP HIF NFLA</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFLB</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFLC</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFLD</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFLE</a>	LO functional test	5	08/04/2009
	<a href="#">H COP HIF NFWB</a>	WBS Functional Test	1	17/08/2009
	<a href="#">H COP HIF NIF1</a>	IF Chain Functional Test	3	24/02/2009
	<a href="#">H COP HIF NIF2</a>	IF Chain Functional Test	3	24/02/2009
	<a href="#">H COP HIF NIF3</a>	IF Chain Functional Test	3	24/02/2009
	<a href="#">H COP HIF NIF4</a>	IF Chain Functional Test	4	24/02/2009
	<a href="#">H COP HIF NIF5</a>	IF Chain Functional Test	3	24/02/2009
	<a href="#">H COP HIF NIF6</a>	IF Chain Functional Test	5	26/05/2009
	<a href="#">H COP HIF PS10</a>	Parametric Scan at 1897 GHz	4	11/06/2009
	<a href="#">H COP HIF PS20</a>	Parametric Scan at 1834 GHz	3	11/06/2009
	<a href="#">H COP HIF RCRT</a>	HIFI-COP-2.1-CPR-RespTime_Redundant	1	03/11/2008
	<a href="#">H COP HIF RFF1</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF2</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF3</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF4</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF5</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF6</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF7</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFF8</a>	FPU functional test	2	26/11/2009
	<a href="#">H COP HIF RFHR</a>	HRS Functional Test	2	15/02/2010
	<a href="#">H COP HIF RFL1</a>	LO functional test	7	11/01/2010
	<a href="#">H COP HIF RFL2</a>	LO functional test	6	11/01/2010
	<a href="#">H COP HIF RFL3</a>	LO functional test	7	11/01/2010
	<a href="#">H COP HIF RFL4</a>	LO functional test	6	08/01/2010
	<a href="#">H COP HIF RFL5</a>	LO functional test	5	07/01/2010
	<a href="#">H COP HIF RFL6</a>	LO functional test	6	08/01/2010
	<a href="#">H COP HIF RFL7</a>	LO functional test	6	08/01/2010
	<a href="#">H COP HIF RFL8</a>	LO functional test	6	08/01/2010

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	<a href="#">H_COP_HIF_RFL9</a>	LO functional test	8	11/01/2010
	<a href="#">H_COP_HIF_RFLA</a>	LO functional test	7	11/01/2010
	<a href="#">H_COP_HIF_RFLB</a>	LO functional test	7	11/01/2010
	<a href="#">H_COP_HIF_RFLC</a>	LO functional test	7	11/01/2010
	<a href="#">H_COP_HIF_RFLD</a>	LO functional test	7	11/01/2010
	<a href="#">H_COP_HIF_RFLE</a>	LO functional test	7	11/01/2010
	<a href="#">H_COP_HIF_RFWB</a>	WBS Functional Test	2	15/02/2010
	<a href="#">H_COP_HIF_RIF1</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_RIF2</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_RIF3</a>	IF Chain Functional Test	2	10/09/2009
	<a href="#">H_COP_HIF_RIF4</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_RIF5</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_RIF6</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_RIF7</a>	IF Chain Functional Test	1	27/08/2009
	<a href="#">H_COP_HIF_SP30</a>	Dixplexer Scan	3	10/06/2009