

CDMU PM Switchover  
 File: H\_CRP\_SYS\_PMSC.xls  
 Author: F. Keck



## Procedure Summary

### Objectives

Performing a CDMU PM switchover

### Summary of Constraints

The PM switchover must be coordinated with the SGS and mission planning.  
 No MTL activities for Instruments during this procedure.

### Spacecraft Configuration

**Start of Procedure**

Mode = NOM/SCM  
 Instruments must be in standby/safemode

**End of Procedure**

Mode = NOM/SCM  
 Instruments in standby/safemode

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

### Referenced Displays

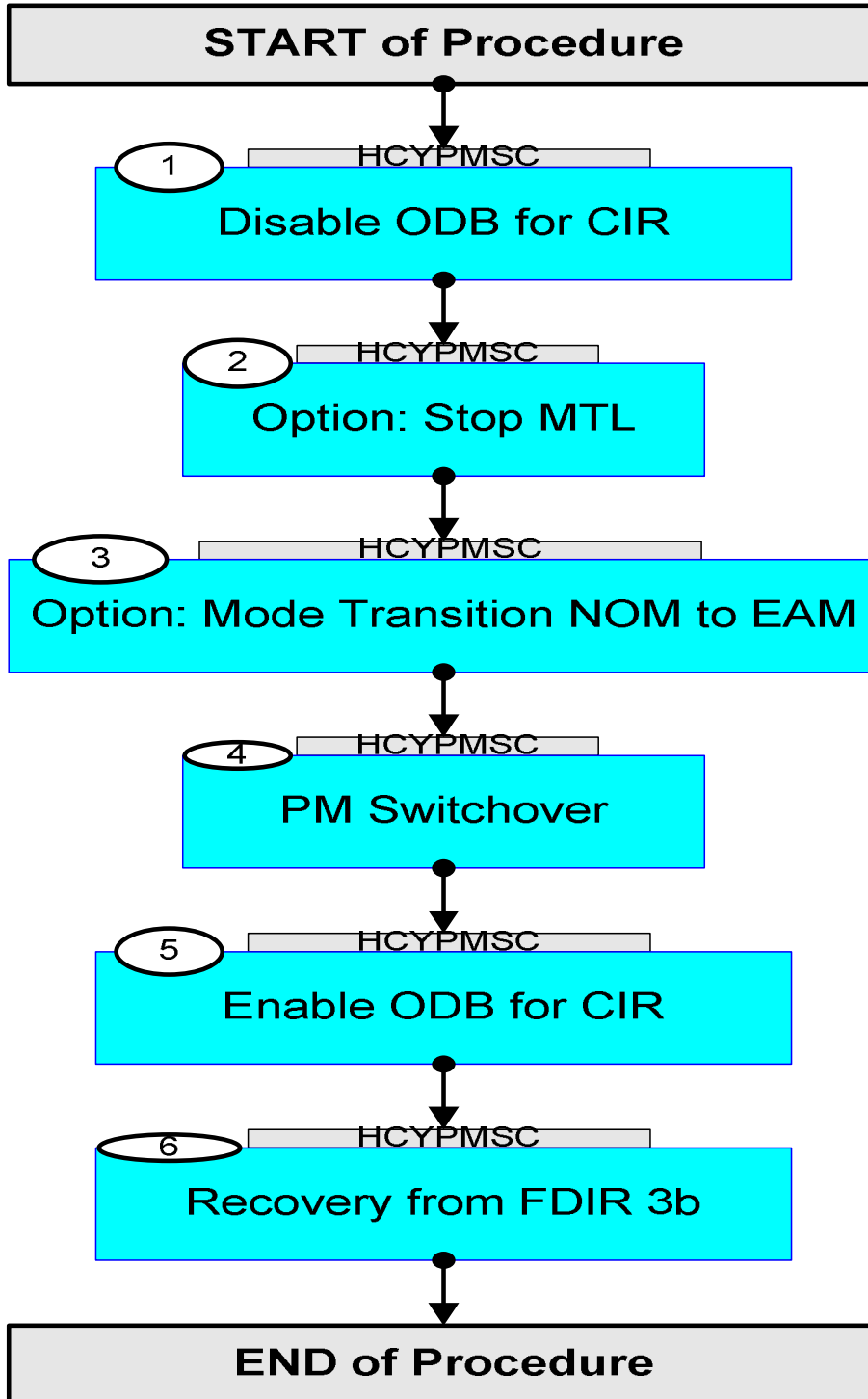
**ANDs      GRDs      SLDs**

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
04/03/09		1	Created	F. Keck	
05/03/09	2.1	1.01	Validation : Adding disabling of ODB for CIR	F. Keck	
07/04/09	2.3	2	Updates after industry feedback on FOP 2.2: Adding PM switchover option A to B as well.	F. Keck	
16/07/09		3	Update of called procedure references	F. Keck	
18/07/09	2.5	4	Checkout and recovery after PM switchover replaced by standard CRPs (H_CRP_SYS_CHECK and H_CRP_SYS_ANOM)	F. Keck	



Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name : H_CYPMSC (CDMU PM Switchover)</i></p> <p><i>TimeTag Type:</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		Disable ODB for CIR		Next Step: 2
		Execute Procedure: <b>H_FCP_AOC_DCIR</b> <b>Modify CIR flag in OBDB</b>		
2		Option: Stop MTL		Next Step: 3
		This step is optional, because the MTL will automatically be stopped later by the FDIR 3b.		
		Execute Procedure: <b>H_FCP_DHS_3025</b> <b>Starting or stopping the MTL function</b>		
3		Option: Mode Transition NOM to EAM		Next Step: 4
		This step is optional, because a transition to EAM will automatically be triggered later by the FDIR 3b.		
		Execute Procedure: <b>H_FCP_DHS_4005</b> <b>S/C Mode transition from Nominal to Earth Acquisition</b>		
		Transition to EAM will automatically trigger the Payload OBCPs (all instruments to standby/safemode).  ACMS mode remains SCM. CIR is not triggered, so the attitude remains DTCP pointing.		
4		PM Switchover		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		The PM switchover will be done by triggering an FDIR 3b.  Effect: - CIR will be sent to ACC (but ignored) - MTL will be stopped - OBCPs will be triggered - PM-B will become active - CDMU mode will become EAM		
4.1		Option 1: PM A to B		<input type="checkbox"/>
		Execute Procedure: <b>H_CRP_DHS_3027</b> PM switchover from A to B		
4.2		Option 2: PM B to A		<input type="checkbox"/>
		Execute Procedure: <b>H_CRP_DHS_3028</b> PM switchover from B to A		
5		Enable ODB for CIR		Next Step: 6
		Execute Procedure: <b>H_FCP_AOC_DCIR</b> Modify CIR flag in OBDB		
6		Recovery from FDIR 3b		Next Step: END
		To rejoin science operations the standard CRPs to recover from an FDIR 3b can be used.		
6.1		Checkout of Level 3b FDIR		<input type="checkbox"/>
		Execute Procedure: <b>H_CRP_SYS_CHECK</b> FDIR 3&4 Anomaly Checkout		
6.2		Recovery to rejoin Nominal Operations		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Procedure: H_CRP_SYS_ANOM System Anomalies		
<b>End of Procedure</b>				