

PacsEng_Spec_setup_Flex
 File: H_CRP_PAC_SPEC.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to setup PACS setup for spectroscopy observations.

Based on procedure:
 PacsEng_Spec_setup_Flex (v1.0) dated 16.12.2010

Summary of Constraints

To be executed on PACS/HSC request only

Spacecraft Configuration

Start of Procedure

End of Procedure

Reference File(s)

Input Command Sequences

Output Command Sequences
 HRPSPEC

Referenced Displays

ANDs GRDs SLDs

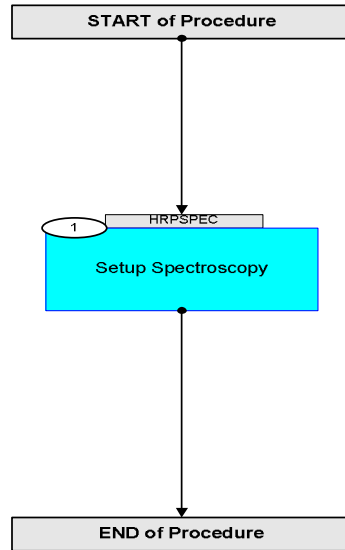
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
06/07/2010		1	Created	R. Biggins	
19/11/2010		2	Update due to new inputs from PACS	R. Biggins	
10/01/2011		3	Update due to new inputs from PACS	R. Biggins	
18/01/2011	3.1	4	Minimum delta time of 1 second added	R. Biggins	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HRPSPEC (Setup Spectroscopy)				
TimeTag Type: B Sub Schedule ID: □				
1		Setup Spectroscopy		Next Step: END
		NOTE: - The following TCs should be executed in a single block - There are no TM checks required - Estimated execution time ~3 minutes		
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <div style="text-align: right;">DMC_SET_OBSID</div> Command Parameter(s) : OBSERVATION_ID PP069420 TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 90 Det. descr. : SET OBSID IN DMC	PC078420 536886547 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <div style="text-align: right;">DMC_SET_BBID</div> Command Parameter(s) : BUILDING_BLOCK_ID PP070420 Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420 1080360961 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <div style="text-align: right;">DPU_SET_HK_LIST</div> Command Parameter(s) : HK_PACKET_ID PP005380 SPU_ARRAY PP025380 Subsch. ID : 90 Det. descr. : SET THE PREDIFINED LIST OF HK VALUES FOR THE HK PACKET	PC003380 SPEC BOTH Array	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_DIAGHK_CONF_TAB</p> <i>Command Parameter(s) :</i> DMC_DATA_LENGTH PP065420 5 <dec> DMC_4_BYTES_WORDS_DATA PP067420 346ab <hex> DMC_4_BYTES_WORDS_DATA PP067420 1 <hex> DMC_4_BYTES_WORDS_DATA PP067420 2 <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 1 <hex> DMC_CHECKSUM PP066420 96da <hex>	PC161420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_BOL_REC_OPT</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 4 <hex> DMC_CHECKSUM PP066420 c444 <hex>	PC169420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_B_DEC_REC_OPT</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 4 <hex> DMC_CHECKSUM PP066420 c444 <hex>	PC170420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_R_DEC_REC_OPT</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 4 <hex> DMC_CHECKSUM PP066420 c444 <hex>	PC171420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_TIMING_FPGA_PAR</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 1a <hex> DMC_4_BYTES_WORDS_DATA PP067420 95217cb <hex> DMC_4_BYTES_WORDS_DATA PP067420 b <hex> DMC_CHECKSUM PP066420 3c78 <hex>	PC176420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_TIMING_FPGA_PAR <i>Subsch. ID : 90</i> Det. descr. : SET THE PARAMETERS OF THE FPGA REGISTER	PC081420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_B_DEC <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON THE BLUE DEC POWER	PC082420	
	ET=+00.00.08 UT=+00.00.08	Execute Telecommand DMC_SWON_R_DEC <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON RED DEC POWER	PC089420	
	ET=+00.00.13 UT=+00.00.13	Execute Telecommand DMC_WRT_B_SPEC_PAR <i>Command Parameter(s) :</i> DMC_CLOCKS PP095420 32 <dec> DMC_READOUTS PP096420 8 <dec> DMC_CRE_CTRL_REG PP097420 396 <dec> DMC_BIAS_R PP098420 0.0 V DMC_BIAS_D PP099420 0.0 V DMC_SIMUL_REG PP100420 60000 <dec> DMC_CHECKSUM PP066420 36c8 <hex> <i>Subsch. ID : 90</i> Det. descr. : WRITE THE BLUE SPECTROMETER PARAMETERS	PC174420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_R_SPEC_PAR <i>Command Parameter(s) :</i> DMC_CLOCKS PP095420 32 <dec> DMC_READOUTS PP096420 8 <dec> DMC_CRE_CTRL_REG PP097420 396 <dec> DMC_BIAS_R PP098420 0.0 V DMC_BIAS_D PP099420 0.0 V DMC_SIMUL_REG PP100420 60000 <dec> DMC_CHECKSUM PP066420 36c8 <hex> <i>Subsch. ID : 90</i> Det. descr. : WRITE THE RED SPECTROMETER PARAMETERS	PC173420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_PAR_B_SPEC <i>Subsch. ID : 90</i> Det. descr. : SEND COMPLETE PARAMETERS TABLE TO BLUE DEC	PC086420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_PAR_R_SPEC Subsch. ID : 90 Det. descr. : SEND COMPLETE PARAMETERS TABLE TO RED DEC	PC093420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_B_SPEC Subsch. ID : 90 Det. descr. : SWITCH ON BLUE SPECTROMETER ARRAY POWER	PC084420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_R_SPEC Subsch. ID : 90 Det. descr. : SWITCH ON RED SPECTROMETER ARRAY POWER	PC091420	
	ET=+00.00.16 UT=+00.00.16	Execute Telecommand DMC_WRT_B_SPEC_PAR Command Parameter(s) : DMC_CLOCKS PP095420 32 <dec> DMC_READOUTS PP096420 8 <dec> DMC_CRE_CTRL_REG PP097420 398 <dec> DMC_BIAS_R PP098420 0.0 V DMC_BIAS_D PP099420 0.0 V DMC_SIMUL_REG PP100420 60000 <dec> DMC_CHECKSUM PP066420 bc0e <hex> Subsch. ID : 90 Det. descr. : WRITE THE BLUE SPECTROMETER PARAMETERS	PC174420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_R_SPEC_PAR Command Parameter(s) : DMC_CLOCKS PP095420 32 <dec> DMC_READOUTS PP096420 8 <dec> DMC_CRE_CTRL_REG PP097420 398 <dec> DMC_BIAS_R PP098420 0.0 V DMC_BIAS_D PP099420 0.0 V DMC_SIMUL_REG PP100420 60000 <dec> DMC_CHECKSUM PP066420 bc0e <hex> Subsch. ID : 90 Det. descr. : WRITE THE RED SPECTROMETER PARAMETERS	PC173420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_PAR_B_SPEC Subsch. ID : 90 Det. descr. : SEND COMPLETE PARAMETERS TABLE TO BLUE DEC	PC086420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_PAR_R_SPEC Subsch. ID : 90 Det. descr. : SEND COMPLETE PARAMETERS TABLE TO RED DEC	PC093420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_B_SPEC_PAR Command Parameter(s) : DMC_CLOCKS PP095420 DMC_READOUTS PP096420 DMC_CRE_CTRL_REG PP097420 DMC_BIAS_R PP098420 DMC_BIAS_D PP099420 DMC_SIMUL_REG PP100420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE BLUE SPECTROMETER PARAMETERS	PC174420 32 <dec> 64 <dec> 386 <dec> 0.01 V 0.1 V 60000 <dec> 8b8 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_R_SPEC_PAR Command Parameter(s) : DMC_CLOCKS PP095420 DMC_READOUTS PP096420 DMC_CRE_CTRL_REG PP097420 DMC_BIAS_R PP098420 DMC_BIAS_D PP099420 DMC_SIMUL_REG PP100420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE RED SPECTROMETER PARAMETERS	PC173420 32 <dec> 64 <dec> 386 <dec> 0.01 V 0.042 V 60000 <dec> 575 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_PAR_BOTH_SPEC Subsch. ID : 90 Det. descr. : SEND COMPLETE PARAMETERS TABLE TO BOTH DECS	PC094420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_BD_HEATER Subsch. ID : 90 Det. descr. : SWITCH ON BLUE DEC HEATER	PC130420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_B_SPEC_HEAT_C Command Parameter(s) : CURRENT PP073420 Subsch. ID : 90 Det. descr. : SET BLUE DEC HEATER CURRENT	PC087420 0.78 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SYNCHRONIZE_ON_DET Command Parameter(s) : DET_ID PP074420 Subsch. ID : 90 Det. descr. : SET THE SYNCHRONIZATION SOURCE FOR SEQUENCER AND TIMING FPGA	PC080420 1 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_B_DEC_REC_OPT Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE BLUE DEC RECEIVER OPTIONS	PC170420 0 <hex> 84c0 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_R_DEC_REC_OPT Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE RED DEC RECEIVER OPTIONS	PC171420 0 <hex> 84c0 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_VAL_SCI_DATA_BOTH Subsch. ID : 90 Det. descr. : VALIDATE SCIENCE DATA FROM BOTH CHANNELS	PC097420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_DIAG_HK_LIST Command Parameter(s) : DMC_DATA_LENGTH PP065420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY	PC160420 13 <dec> d1 <hex> f4 <hex> f5 <hex> f6 <hex> f7 <hex> f8 <hex> f9 <hex> 102 <hex> 197 <hex> 22d <hex> 231 <hex> 235 <hex> ffff <hex> 691f <hex>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_STOP_DIAG_HK</p> <i>Subsch. ID : 90</i> Det. descr. : STOP THE ACQUISITION OF THE DIAGNOSTIC HK	PC147420	
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_CS1_CONF_PAR</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 f4240 <hex> DMC_4_BYTES_WORDS_DATA PP067420 1388 <hex> DMC_4_BYTES_WORDS_DATA PP067420 ccd <hex> DMC_4_BYTES_WORDS_DATA PP067420 741 <hex> DMC_4_BYTES_WORDS_DATA PP067420 147 <hex> DMC_4_BYTES_WORDS_DATA PP067420 7fff <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_CHECKSUM PP066420 5c9f <hex> <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE CS1 TEMP REGULATOR	PC166420	
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_CS2_CONF_PAR</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 f4240 <hex> DMC_4_BYTES_WORDS_DATA PP067420 1388 <hex> DMC_4_BYTES_WORDS_DATA PP067420 ccd <hex> DMC_4_BYTES_WORDS_DATA PP067420 741 <hex> DMC_4_BYTES_WORDS_DATA PP067420 147 <hex> DMC_4_BYTES_WORDS_DATA PP067420 7fff <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_CHECKSUM PP066420 5c9f <hex> <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE CS2 TEMP REGULATOR	PC167420	
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_SWON_BB_1_CONT</p> <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON BLACK BODY 1 CONTROLLER	PC138420	
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_ENABLE_BB_1_CONT</p> <i>Subsch. ID : 90</i> Det. descr. : ENABLE BB1 CONTROLLER	PC206420	
	ET+=00.00.01 UT+=00.00.01	Execute Telecommand <p style="text-align: center;">DMC_SET_TEMP_BB_1</p> <i>Command Parameter(s) :</i> DMC_BB_TEMP PP094420 48.0 Ohm <i>Subsch. ID : 90</i> Det. descr. : SET THE TEMPERATURE OF THE BLACK BODY 1	PC140420	

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	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_BB_2_CONT Subsch. ID : 90 Det. descr. : SWITCH ON BLACK BODY 2 CONTROLLER	PC142420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_ENABLE_BB_2_CONT Subsch. ID : 90 Det. descr. : ENABLE BB2 CONTROLLER	PC208420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_TEMP_BB_2 Command Parameter(s) : DMC_BB_TEMP PP094420 Subsch. ID : 90 Det. descr. : SET THE TEMPERATURE OF THE BLACK BODY 2	PC144420 58.0 Ohm	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_DIAG_HK_LIST Command Parameter(s) : DMC_DATA_LENGTH PP065420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY	PC160420 16 <dec> 21b <hex> 21c <hex> 100 <hex> 101 <hex> 22c <hex> 234 <hex> 230 <hex> 237 <hex> d0 <hex> fa <hex> fb <hex> fc <hex> fd <hex> 1c4 <hex> 200 <hex> ffff <hex> 3085 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_START_DIAG_HK Command Parameter(s) : DIAG_HK_PERIOD PP076420 Subsch. ID : 90 Det. descr. : START THE ACQUISITION OF THE DIAGNOSTIC HK	PC146420 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_CONF_PAR <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE GRATING SERVO LOOP	PC162420 bb8 <hex> 15f90 <hex> 1e <hex> 0 <hex> 3 <hex> 10e4311 <hex> 452f <hex> 579 <hex> 5b06 <hex> 28e5 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_CONF_FILTER <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS OF THE GRATING CONTROLLER FILTER	PC378420 f4240 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 2f41 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_INDUC_AMPL <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE AMPLITUDE OF THE INDUCTOSYN EXCITATION SIGNAL	PC203420 7d0 <hex> d62a <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_HALLOFFSET <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE OFFSET OF THE HALL SENSORS OF THE GRATING	PC368420 7b9 <hex> 2ba5 <hex>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_RANGE <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE NUMBER OF ENCODER STEPS OF THE HARDSTOPS	PC204420 100000 <hex> c7a3 <hex>	
	ET=+00.03.01 UT=+00.03.01	Execute Telecommand DMC_SWON_GRAT_CONT <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON GRATING CONTROLLER	PC108420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_ENABLE_GRAT_CONT <i>Subsch. ID : 90</i> Det. descr. : ENABLE GRATING CONTROLLER	PC110420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_HOME_GRAT <i>Command Parameter(s) :</i> HOMING_MODE PP077420 <i>Subsch. ID : 90</i> Det. descr. : MOVE GRATING TO THE HOME POSITION	PC114420 NEGATIVE	
	ET=+00.01.10 UT=+00.01.10	Execute Telecommand DMC_WRT_GRAT_CONF_PAR <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE GRATING SERVO LOOP	PC162420 bb8 <hex> 15f90 <hex> 1e <hex> 0 <hex> c <hex> 10e4311 <hex> 452f <hex> 579 <hex> 5b06 <hex> dd5b <hex>	

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	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_GRAT_CONF_FILT <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE PARAMETERS OF THE GRATING CONTROLLER FILTER	PC378420 f4240 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 2f41 <hex>	
	ET=+00.00.02 UT=+00.00.02	Execute Telecommand DMC_STOP_DIAG_HK <i>Subsch. ID : 90</i> Det. descr. : STOP THE ACQUISITION OF THE DIAGNOSTIC HK	PC147420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_DIAG_HK_LIST <i>Command Parameter(s) :</i> DMC_DATA_LENGTH PP065420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 <i>Subsch. ID : 90</i> Det. descr. : WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY	PC160420 13 <dec> d2 <hex> 100 <hex> 101 <hex> ff <hex> 194 <hex> 195 <hex> 22c <hex> 230 <hex> 22b <hex> 234 <hex> 237 <hex> 22f <hex> ffff <hex> 7100 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_START_DIAG_HK <i>Command Parameter(s) :</i> DIAG_HK_PERIOD PP076420 <i>Subsch. ID : 90</i> Det. descr. : START THE ACQUISITION OF THE DIAGNOSTIC HK	PC146420 5 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_WRT_FWSPEC_CONF_PAR</p> <i>Command Parameter(s) :</i> DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420	PC164420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_DISABLE_GRAT_CONT</p> <i>Subsch. ID : 90</i> Det. descr. : DISABLE GRATING CONTROLLER	PC111420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_SWON_FW_SPEC</p> <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON POWER SUPPLY OF FILTER WHEEL SPEC	PC128420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_MOVE_SPEC_FW_LOC</p> <i>Command Parameter(s) :</i> <p style="text-align: center;">FW_ID PP075420</p> <i>Subsch. ID : 90</i> Det. descr. : MOVE SPECTROMETER FILTER WHEEL TO LOCATION	PC134420	
	ET=+00.00.06 UT=+00.00.06	Execute Telecommand <p style="text-align: center;">DMC_SWON_GRAT_CONT</p> <i>Subsch. ID : 90</i> Det. descr. : SWITCH ON GRATING CONTROLLER	PC108420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_ENABLE_GRAT_CONT</p> <i>Subsch. ID : 90</i> Det. descr. : ENABLE GRATING CONTROLLER	PC110420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: center;">DMC_STOP_DIAG_HK</p> <i>Subsch. ID : 90</i> Det. descr. : STOP THE ACQUISITION OF THE DIAGNOSTIC HK	PC147420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand SPUS_STOP_REDUCT_COMPR Subsch. ID : 90 Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_SWL	PC037400	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand SPUL_STOP_REDUCT_COMPR Subsch. ID : 90 Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_LWL	PC038390	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_WRT_SPU_TRAN_MODE Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 Subsch. ID : 90 Det. descr. : WRITE THE SPU TRASMISSION MODE	PC175420 10 <hex> 10 <hex> 2755 <hex>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand SPUS_RAW_CHAN_TRAN_MODE Command Parameter(s) : SPUS_OBS_MODE PP050400 SPUS_RCXNB PP051400 SPUS_RCX PP052400 Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUS	PC035400 SPEC 3 <dec> 275 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand SPUL_RAW_CHAN_TRAN_MODE Command Parameter(s) : SPUL_OBS_MODE PP032390 SPUL_RCXNB PP033390 SPUL_RCX PP034390 Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUL	PC036390 SPEC 3 <dec> 150 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand SPUS_WRT_DET_CST_SPEC Command Parameter(s) : SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400 SPUS_4_BYTES_WORDS_DATA PP055400	PC063400 0 <hex> 0 <hex> 3e8 <hex> 64 <hex> 64 <hex> 40 <hex> 1 <hex> 0 <hex> 5 <hex> 4 <hex> 3 <hex>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SET_TIME Subsch. ID : 90 Det. descr. : SET THE TIME PREVIOUSLY WRITTEN BY THE WRITE TIME COMMAND	PC077420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_DISABLE_GRAT_CONT Subsch. ID : 90 Det. descr. : DISABLE GRATING CONTROLLER	PC111420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_SWON_FW_SPEC Subsch. ID : 90 Det. descr. : SWITCH ON POWER SUPPLY OF FILTER WHEEL SPEC	PC128420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_MOVE_SPEC_FW_LOC Command Parameter(s) : FW_ID PP075420 Subsch. ID : 90 Det. descr. : MOVE SPECTROMETER FILTER WHEEL TO LOCATION	PC134420 POS B	
	ET=+00.00.06 UT=+00.00.06	Execute Telecommand DMC_SWON_GRAT_CONT Subsch. ID : 90 Det. descr. : SWITCH ON GRATING CONTROLLER	PC108420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_ENABLE_GRAT_CONT Subsch. ID : 90 Det. descr. : ENABLE GRATING CONTROLLER	PC110420	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand DMC_MOVE_GRAT_ABS Command Parameter(s) : SET_POINT PP079420 Subsch. ID : 90 Det. descr. : MOVE GRATING TO AN ABSOLUTE POSITION	PC112420 737500 <dec>	
	ET=+00.00.08 UT=+00.00.08	Execute Telecommand DMC_MOVE_CHOP_ABS Command Parameter(s) : SET_POINT PP079420 Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420 21200 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: right;">DPU_SET_FUNCT</p> Command Parameter(s) : DPU_INT_FUNCT_ID PP007380 ENABLE_DISABLE PP006380 Subsch. ID : 90 Det. descr. : ENABLE OR DISABLE A DPU INTERNAL FUNCTION	PC005380 COUNTER_SPEC ENABLE	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: right;">DPU_MEMORY_DUMP</p> Command Parameter(s) : DPU_MEMORY_BLOCK_ID PP009380 DPU_MEMORY_ADDR PP003380 DPU_DATA_LENGTH PP008380 Subsch. ID : 90 Det. descr. : DUMP OF A DPU MEMORY AREA	PC028380 1100 <hex> bf2 <hex> 4179 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: right;">DMC_SET_BBID</p> Command Parameter(s) : BUILDING_BLOCK_ID PP070420 Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420 1073741824 <dec>	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand <p style="text-align: right;">DMC_SET_OBSID</p> Command Parameter(s) : OBSERVATION_ID PP069420 Subsch. ID : 90 Det. descr. : SET OBSID IN DMC	PC078420 1342177280 <dec>	

End of Procedure