

Configure RFDN switches
File: H_FCP_TTC_SWX.xls
Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to move the RFDN switches in order to achieve a specific configuration.

This procedure uses the logical addressing, thus can be executed under Ground control or not (the commands used can be inserted in the MTL).

Summary of Constraints

The downlink is disabled through ASW TCs(8,4,115,1) while the RFDN switches are commanded using ASW TCs(8,4,115,5/6/7/8), thus the status of the ASW function "TTC Management" has to be "running".

If the ASW function "On board Scheduling" is stopped the TCs can not be added into the MTL. If the function is running, up to four time-tagged TCs are released per second.

Note that:

- The downlink has to be disabled before moving RFDN switches
- If the TCs are sent by Ground in real time, after that a RFDN switch has been moved could be necessary to re-sweep the uplink signal to re-acquire the lock in order to send the second pair of commands (arm and fire).

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
Downlink active via TX and TWTA marked as "Nominal" and "Not Failed" in the "Unit in Use" table (nominally the branch 1);

End of Procedure

CDMU in default configuration;
Downlink disabled (TX1/2 and TWTA1/2 OFF);
XPND XPND Tx LCL (23/16) closed;
Tx in use configured "ON" and "VALID" on the 1553 S/C bus;
RFDN SW positions updated;

Reference File(s)

Input Command Sequences

Output Command Sequences

HFRSWX1
HFRSWX2
HFRSWX3
HFRSWX4
HFRSWX5
HFRSWX6

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Referenced Displays

ANDs GRDs SLDs
 ZAZ7J999

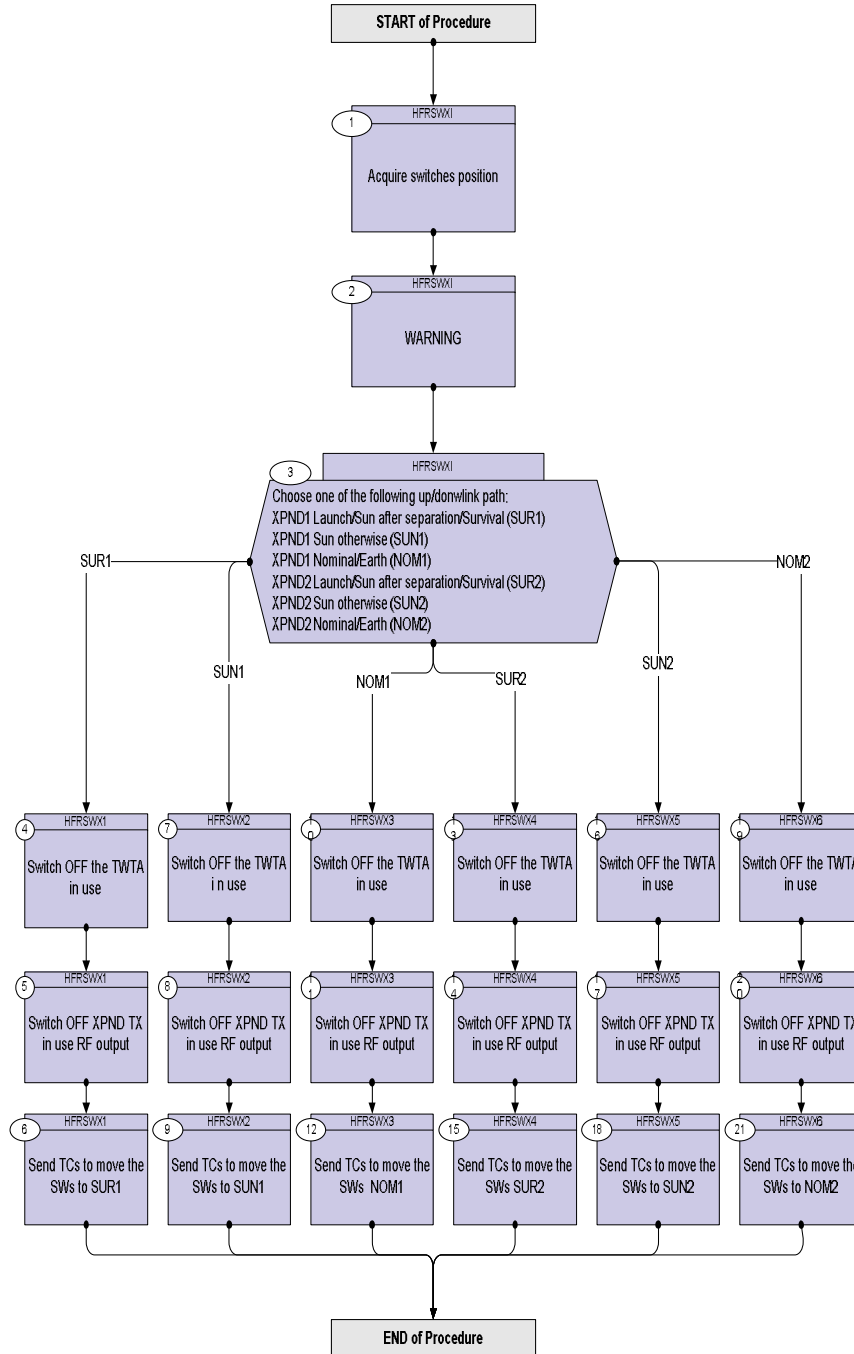
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
11/07/08	1	1	Created	R. Miniscalco	
02/12/08	2	2	Display mode update	E. Picallo	

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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 : HFRSWXI (RFDN SW Config) Configure RFDN switches TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Acquire switches position		Next Step: 2
		Verify RFDN SW1 Position A Telemetry RFDN SW1 Pos A RMB05436		AND=ZAZ7J999
		Verify RFDN SW1 Position B Telemetry RFDN SW1 Pos B RMB09436		AND=ZAZ7J999
		Verify RFDN SW2 Position A Telemetry RFDN SW2 Pos A RMB06436		AND=ZAZ7J999
		Verify RFDN SW2 Position B Telemetry RFDN SW2 Pos B RMB10436		AND=ZAZ7J999
		Verify RFDN SW3 Position A Telemetry RFDN SW3 Pos A RMB07436		AND=ZAZ7J999
		Verify RFDN SW3 Position B Telemetry RFDN SW3 Pos B RMB11436		AND=ZAZ7J999
		Verify RFDN SW4 Position A Telemetry RFDN SW4 Pos A RMB08436		AND=ZAZ7J999
		Verify RFDN SW4 Position B Telemetry RFDN SW4 Pos B RMB12436		AND=ZAZ7J999
2		WARNING		Next Step: 3
		<p>In the next step the downlink is deactivated. Therefore no CLCW will be available to acknowledge the TCs .</p> <p>Send the next TCs time-tagged selecting a execution time in the future such that no ore of four time-tagged TCs are released per second or</p> <p>Switch to DB mode in order to avoid triggering the TC re-transmission.</p>		
3		Choose one of the following up/downlink path: XPND1 Launch/Sun after separation/Survival (SUR1) XPND1 Sun otherwise (SUN1) XPND1 Nominal/Earth (NOM1) XPND2 Launch/Sun after separation/Survival (SUR2) XPND2 Sun otherwise (SUN2) XPND2 Nominal/Earth (NOM2)		Next Step: SUR1 4 SUN1 7 NOM1 10 SUR2 13 SUN2 16 NOM2 19

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>XPND1 configurations:</p> <p>- Launch/Sun acquisition after separation/Survival (SUR1) RFDN SWs position BBBB D/L path: TX1 - TWTA1 - LGA1 U/L path: LGA1 - RX1 (LGA2 - RX2)</p> <p>- Sun acquisition otherwise (SUN1) RFDN SWs position BBAB D/L path: TX1 - TWTA1 - LGA1 U/L path: LGA1 - RX1 (MGA - RX2)</p> <p>- Nominal/Earth acquisition (NOM1) RFDN SWs position ABAB D/L path: TX1 - TWTA1 - MGA U/L path: MGA - RX1 (LGA1 - RX2)</p>		
		<p>XPND2 configurations:</p> <p>- Launch/Sun acquisition after separation/Survival (SUR2) RFDN SWs position ABBB D/L path: TX2 - TWTA2 - LGA1 U/L path: LGA1 - RX2 (LGA2 - RX1)</p> <p>- Sun acquisition otherwise (SUN2) RFDN SWs position ABAB D/L path: TX2 - TWTA2 - LGA1 U/L path: LGA1 - RX2 (MGA - RX1)</p> <p>- Nominal/Earth acquisition (NOM2) RFDN SWs position BBAB D/L path: TX2 - TWTA2 - MGA U/L path: MGA - RX2 (LGA1 - RX1)</p>		
		<p>To move a RFDN SW it is necessary to send two commands:</p> <p>- TC(8,4,115,5/6) Arm Command RFDN SW (5 for pos A = straight, 6 for pos B = cross); - TC(8,4,115,7/8) Fire Command RFDN SW (7 for pos A = straight, 8 for pos B = cross);</p> <p>Note that using the logical addressing of a RFDN switch pair, the logical position of the switch pair is commanded into the desired position commanding the switch in use of the switch pair to a position that takes into account the position of the other switch.</p>		
<p><i>TC Seq. Name : HFRSWX1 (RFDN SW SUR1 (XPND1))</i> <i>XPND1 Launch/Sun after separation/Survival</i></p> <p><i>TimeTag Type: B</i> <i>Sub Schedule ID:</i></p> <p>□</p>				
4		Switch OFF the TWTA in use		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		
	ET=+00.00.00 UT=+	Execute Telecommand <p style="text-align: right;">TtcCommandTwtaInUseOff</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Ttc Command Twta In Use Off</i> <i>TC(8,4,115,1)</i>	DC08E170	
5		Switch OFF XPND TX in use RF output		Next Step: 6
		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">TtcCommandTxInUseOff</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1)</i>	DC05E170	
6		Send TCs to move the SWs to SUR1		Next Step: END
		Launch/Sun acquisition after separation/Survival (SUR1) RFDN SWs position BBBB D/L path: TX1 - TWTA1 - LGA1 U/L path: LGA1 - RX1 (LGA2 – RX2)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">RfdnArmSW1_SW2_log_A</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Rfdn Arm Command SW1/SW2 (logical)</i> <i>Position A TC(8,4,115,5)</i>	DC47E170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW1_SW2_log_A TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position A TC(8,4,115,7) GBM IL DSE --Y -- --	DC67E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW3_SW4_log_A TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Arm Command SW3/SW4 (logical) Position A TC(8,4,115,5) GBM IL DSE --Y -- --	DC48E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW3_SW4_log_A TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position A TC(8,4,115,7) GBM IL DSE --Y -- --	DC68E170	
<p>TC Seq. Name : HFRSWX2 (RFDN SW SUN1 (XPND1)) XPND1 Sun acquisition otherwise</p> <p>TimeTag Type: B Sub Schedule ID: <input type="checkbox"/></p>				
7		Switch OFF the TWTA i n use		Next Step: 8
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		
	ET=+00.00.00 UT=+	Execute Telecommand TtcCommandTwtaInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Twta In Use Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC08E170	
8		Switch OFF XPND TX in use RF output		Next Step: 9

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET+=00.00.05 UT=+	Execute Telecommand TtcCommandTxInUseOff TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1)	DC05E170	
9		Send TCs to move the SWs to SUN1		Next Step: END
		Sun acquisition otherwise (SUN1) RFDN SWs position BBAB D/L path: TX1 - TWTA1 - LGA1 U/L path: LGA1 - RX1 (MGA - RX2)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		
	ET+=00.00.05 UT=+	Execute Telecommand RfdnArmSW1_SW2_log_A TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Arm Command SW1/SW2 (logical) Position A TC(8,4,115,5)	DC47E170	
	ET+=00.00.05 UT=+	Execute Telecommand RfdnFireSW1_SW2_log_A TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position A TC(8,4,115,7)	DC67E170	
	ET+=00.00.05 UT=+	Execute Telecommand RfdnArmSW3_SW4LogB TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Arm SW3/SW4 (logical) Position B TC(8,4,115,6)	DC58E170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW3_SW4_log_B TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position B TC(8,4,115,8) GBM IL DSE --Y -- --	DC78E170	
<p>TC Seq. Name : HFRSWX3 (RFDN SW NOM1 (XPND1)) XPND1 Nominal/Earth acquisition</p> <p>TimeTag Type: B Sub Schedule ID: <input type="checkbox"/></p>				
10		Switch OFF the TWTA in use		Next Step: 11
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		
	ET=+00.00.00 UT=+	Execute Telecommand TtcCommandTwtaInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Twta In Use Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC08E170	
11		Switch OFF XPND TX in use RF output		Next Step: 12
		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET=+00.00.05 UT=+	Execute Telecommand TtcCommandTxInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC05E170	
12		Send TCs to move the SWs NOM1		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Nominal/Earth acquisition (NOM1) RFDN SWs position ABAB D/L path: TX1 - TWTA1 - MGA U/L path: MGA - RX1 (LGA1 - RX2)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">RfdnArmSW1_SW2LogB</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Rfdn Arm SW1/SW2 (logical) Position B TC(8,4,115,6)	DC57E170	
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">RfdnFireSW1_SW2_log_B</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position B TC(8,4,115,8)	DC77E170	
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">RfdnArmSW3_SW4LogB</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Rfdn Arm SW3/SW4 (logical) Position B TC(8,4,115,6)	DC58E170	
	ET=+00.00.05 UT=+	Execute Telecommand <p style="text-align: right;">RfdnFireSW3_SW4_log_B</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position B TC(8,4,115,8)	DC78E170	

TC Seq. Name : HFRSWX4 (RFDN SW SUR2 (XPND2))
 XPND2 Launch/Sun after separation/Survival

TimeTag Type: B
 Sub Schedule ID:

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
13		Switch OFF the TWTA in use		Next Step: 14
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		
	ET=+00.00.00 UT=+	Execute Telecommand TtcCommandTwtaInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Twta In Use Off TC(8,4,115,1) GBM IL DSE --Y -- ---	DC08E170	
14		Switch OFF XPND TX in use RF output		Next Step: 15
		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET=+00.00.05 UT=+	Execute Telecommand TtcCommandTxInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1) GBM IL DSE --Y -- ---	DC05E170	
15		Send TCs to move the SWs SUR2		Next Step: END
		Launch/Sun acquisition after separation/Survival (SUR2) RFDN SWs position ABBB D/L path: TX2 - TWTA2 - LGA1 U/L path: LGA1 - RX2 (LGA2 - RX1)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW1_SW2LogB TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Arm SW1/SW2 (logical) Position B TC(8,4,115,6) GBM IL DSE --Y -- ---	DC57E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW1_SW2_log_B TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position B TC(8,4,115,8) GBM IL DSE --Y -- ---	DC77E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW3_SW4_log_A TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Arm Command SW3/SW4 (logical) Position A TC(8,4,115,5) GBM IL DSE --Y -- ---	DC48E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW3_SW4_log_A TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position A TC(8,4,115,7) GBM IL DSE --Y -- ---	DC68E170	
<p>TC Seq. Name : HFRSWX5 (RFDN SW SUN2 (XPND2)) XPND2 Sun acquisition otherwise</p> <p>TimeTag Type: B Sub Schedule ID: <input type="checkbox"/></p>				
16		Switch OFF the TWTA in use		Next Step: 17
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		

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	ET=+00.00.00 UT=+	Execute Telecommand TtcCommandTwtaInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Twta In Use Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC08E170	
17		Switch OFF XPND TX in use RF output		Next Step: 18
		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET=+00.00.05 UT=+	Execute Telecommand TtcCommandTxInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC05E170	
18		Send TCs to move the SWs to SUN2		Next Step: END
		Sun acquisition otherwise (SUN2) RFDN SWs position ABAB D/L path: TX2 - TWTA2 - LGA1 U/L path: LGA1 - RX2 (MGA - RX1)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW1_SW2LogB TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Arm SW1/SW2 (logical) Position B TC(8,4,115,6) GBM IL DSE --Y -- --	DC57E170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET+=00.00.05 UT=+	Execute Telecommand RfdnFireSW1_SW2_log_B TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position B TC(8,4,115,8) GBM IL DSE --Y -- --	DC77E170	
	ET+=00.00.05 UT=+	Execute Telecommand RfdnArmSW3_SW4LogB TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Arm SW3/SW4 (logical) Position B TC(8,4,115,6) GBM IL DSE --Y -- --	DC58E170	
	ET+=00.00.05 UT=+	Execute Telecommand RfdnFireSW3_SW4_log_B TC Control Flags : Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position B TC(8,4,115,8) GBM IL DSE --Y -- --	DC78E170	
<p>TC Seq. Name : HFRSWX6 (RFDN SW NOM2 (XPND2)) XPND2 Nominal/Earth acquisition</p> <p>TimeTag Type: B Sub Schedule ID: <input type="checkbox"/></p>				
19		Switch OFF the TWTA in use		Next Step: 20
		WARNING: the downlink has to be disabled before moving RFDN switches.		
		The following command will Switch OFF the TWT Amplifier (TWT), the EPC and the OP-LCL TWTA in use.		
	ET+=00.00.00 UT=+	Execute Telecommand TtcCommandTwtaInUseOff TC Control Flags : Subsch. ID : 10 Det. descr. : Ttc Command Twta In Use Off TC(8,4,115,1) GBM IL DSE --Y -- --	DC08E170	
20		Switch OFF XPND TX in use RF output		Next Step: 21

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		The following command switch OFF the TX in use; the status of the XPND LCL does not change (it remains closed) as well as the configuration of the TX on the 1553 S/C bus (it remains "ON" and "Valid").		
	ET=+00.00.05 UT=+	Execute Telecommand TtcCommandTxInUseOff TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Ttc Command Tx InUse Off TC(8,4,115,1)	DC05E170	
21		Send TCs to move the SWs to NOM2		Next Step: END
		Nominal/Earth acquisition (NOM2) RFDN SWs position BBAB D/L path: TX2 - TWTA2 - MGA U/L path: MGA - RX2 (LGA1 - RX1)		
		WARNING: if the commands are sent in real time, after the execution of the first pair of commands ("arm" and "fire") Ground station has to re-sweep the uplink to re-acquire the lock and send the second pair of TCs.		
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW1_SW2_log_A TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Arm Command SW1/SW2 (logical) Position A TC(8,4,115,5)	DC47E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW1_SW2_log_A TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Fire SW1/SW2 (logical) Position A TC(8,4,115,7)	DC67E170	
	ET=+00.00.05 UT=+	Execute Telecommand RfdnArmSW3_SW4LogB TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Rfdn Arm SW3/SW4 (logical) Position B TC(8,4,115,6)	DC58E170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+	Execute Telecommand RfdnFireSW3_SW4_log_B <i>TC Control Flags :</i> Subsch. ID : 10 Det. descr. : Rfdn Fire SW3/SW4 (logical) Position B TC(8,4,115,8) GBM IL DSE --Y -- --	DC78E170	
End of Procedure				