

Mode\_DcuFunc11\_SLW SLW BDA Switch ON check  
 File: H\_COP\_SPI\_SLWN.xls  
 Author: L.Lucas-hp



## Procedure Summary

### Objectives

The purpose of this procedure is a SLW BDA Switch on check.

Based on procedure:  
 Name:Mode\_DcuFunc11\_Spec  
 Version number:1  
 Generated:05/06/2009

### Summary of Constraints

n/a

### Spacecraft Configuration

#### Start of Procedure

Type Pre-condition Here

#### End of Procedure

Type Post-condition Here

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HCSLWN

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 SA\_6\_559  
 ZAZ93999  
 ZAZ90999

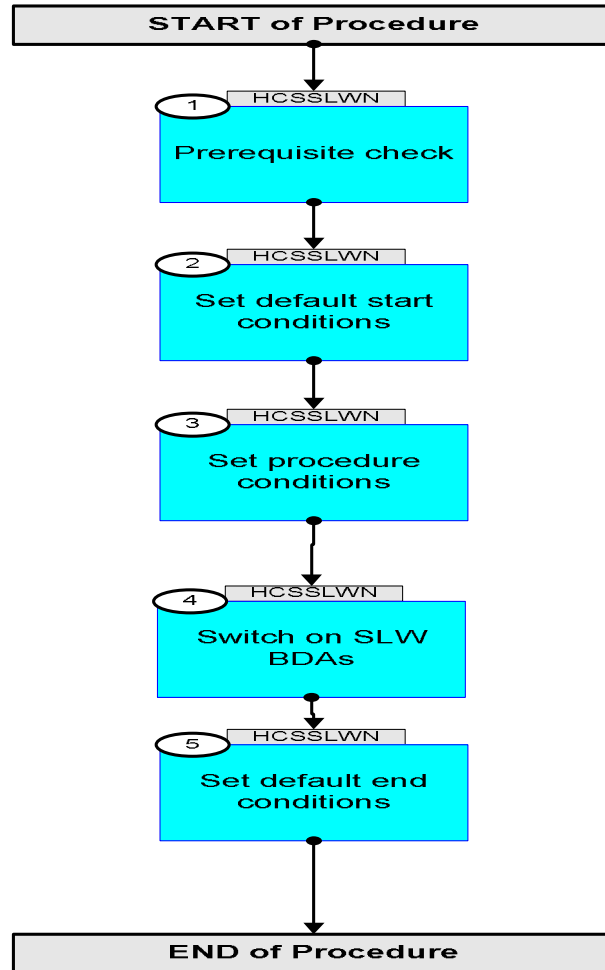
### Configuration Control Information

| DATE     | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION                                | AUTHOR     | SPR REF |
|----------|-----------|---------|---|------------|---------|
| 20/04/09 | 2.3       | 1       | Created   | L.Lucas-hp |         |
| 05/05/09 | 2.4       | 2       | ET Removed  | L.Lucas-hp |         |
| 06/06/09 | 2.5       | 3       | Updated recieved form SPIRE after initial phase of COMM | L.Lucas-hp |         |

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### Procedure Flowchart Overview





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| Step No. | Time                 | Activity/Remarks  | TC/TLM           | Display/ Branch | AIT Comment |
|----------|----------------------|---|------------------|-----------------|-------------|
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500   | = ClearObs       | AND=ZAZ90999    |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500         | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_OBSID<br>SET_OBSID<br>Command Parameter(s) :<br>OBSERVATION_ID SP00N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION IDENTIFIER     | SC000500         | TC              |             |
|          |                      | Verify Telemetry<br>OBSID SM10N500  | = 00000000 <hex> | AND=ZAZ90999    |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500         | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br>SET_BBID<br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500         | TC              |             |
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500   | = Null           | AND=ZAZ90999    |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500         | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br>SET_BBID<br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500         | TC              |             |
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500   | = StartObs       | AND=ZAZ90999    |             |
| 3        |                      | Set procedure conditions  |                  | Next Step:<br>4 |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM       | Display/ Branch | AIT Comment |
|----------|----------------------|---|--------------|-----------------|-------------|
|          | ET=+<br>UT=+00.00.00 | RESET_DRCU_COUNTERS<br><br>RESET_DRCU_COUNTERS<br><br>Subsch. ID : 370<br>Det. descr. : RESET DRCU COUNTERS   | SCD00505     | TC              |             |
|          |                      | Verify that the TRESET parameter has the same value as the THSK parameter<br><br>TRESET SM01T500  | same as THSK | AND=ZAZ90999    |             |
|          |                      | THSK SM00T500   | any          | AND=ZAZ90999    |             |
|          |                      | Note that a <b>TM(5,1)</b> packet [New_Step_Report] is generated after each of the following SET_OBS_STEP telecommands                                      |              |                 |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500     | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_OBSID<br><br>SET_OBSID<br><br>Command Parameter(s) :<br>OBSERVATION_ID SP00N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION IDENTIFIER     | SC000500     | TC              |             |
|          |                      | Verify Telemetry<br><br>OBSID SM10N500  | OBS_ID       | AND=ZAZ90999    |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500     | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br><br>SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500     | TC              |             |
|          |                      | Verify Telemetry<br><br>BBFULLTYPE SM2LN500   | = Null       | AND=ZAZ90999    |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500     | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br><br>SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500     | TC              |             |

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| Step No. | Time                 | Activity/Remarks   | TC/TLM                                      | Display/ Branch | AIT Comment |
|----------|----------------------|--|---|-----------------|-------------|
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500  | = SLW_BDA_On                                | AND=ZAZ90999    |             |
| 4        |                      | Switch on SLW BDAs   |   | Next Step:<br>5 |             |
|          |                      | The next set of TCs to switch on the detectors should be executed as quickly as possible. The interval between TCs should not exceed the values given in the procedure. No TM parameter checks from the MCS are necessary during the detector switch on. |   |                 |             |
|          | ET=+<br>UT=+00.00.03 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>TC Control Flags :<br>GBM IL DSE<br>--Y -- ---<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP  | SC003500<br>1 <hex>                         | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br>SEND_DRCU_COMMAND<br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br>TC Control Flags :<br>GBM IL DSE<br>--- --- ---<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU                  | SCD06505<br>a0870006 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br>SEND_DRCU_COMMAND<br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br>TC Control Flags :<br>GBM IL DSE<br>--- --- ---<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU                  | SCD06505<br>843000ff <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br>SEND_DRCU_COMMAND<br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br>TC Control Flags :<br>GBM IL DSE<br>--- --- ---<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU                  | SCD06505<br>84390079 <hex><br>0 <hex> (Def) | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM   | Display/ Branch | AIT Comment |
|----------|----------------------|---|----------|-----------------|-------------|
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505 | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505 | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505 | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505 | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505 | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|---|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843c0014 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0001 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.02 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0000 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843c001c <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0001 <hex><br>0 <hex> (Def) | TC              |             |



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| Step No. | Time                 | Activity/Remarks   | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|--|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.03 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0000 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | FLUSH_FIFO<br><br>FLUSH_FIFO<br><br>Command Parameter(s) :<br>FIFOFLAGS SPD0N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : FORCE DPU TO READ SCIENCE DATA FROM FIFOS AND FLUSH CONTENTS           | SCD01505<br><br>1000 <hex>                      | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843c0004 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843d0000 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0001 <hex><br>0 <hex> (Def) | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|---|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.04 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>8434004c <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>84370001 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.30 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>8431002d <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>8432002d <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>--- -- ---<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0000 <hex><br>0 <hex> (Def) | TC              |             |



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| Step No. | Time                 | Activity/Remarks   | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|--|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0001 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.03 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0000 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | FLUSH_FIFO<br><br>FLUSH_FIFO<br><br>Command Parameter(s) :<br>FIFOFLAGS SPD0N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : FORCE DPU TO READ SCIENCE DATA FROM FIFOS AND FLUSH CONTENTS           | SCD01505<br><br>1000 <hex>                      | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843c0004 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND SPD4N505<br>OVERRIDE SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843d0000 <hex><br>0 <hex> (Def) | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|---|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.01 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>843e0001 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.31 | SEND_DRCU_COMMAND<br><br>SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND           SPD4N505<br>OVERRIDE        SPD9N505<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU | SCD06505<br><br>84340052 <hex><br>0 <hex> (Def) | TC              |             |
|          | ET=+<br>UT=+00.00.02 | SET_OBS_STEP<br><br>SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP        SP03N500<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP  | SC003500<br><br>0 <hex>                         | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SET_BBID<br><br>SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID        SP01N500<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER  | SC001500<br><br>80000000 <hex>                  | TC              |             |
|          | ET=+<br>UT=+00.01.02 | SET_OBS_STEP<br><br>SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP        SP03N500<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP  | SC003500<br><br>0 <hex>                         | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SET_BBID<br><br>SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID        SP01N500<br><br>TC Control Flags :<br><br>GBM IL DSE<br>---- -- --<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER  | SC001500<br><br>88360001 <hex>                  | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch                                 | AIT Comment |  |
|----------|----------------------|---|---|---|-------------|--|
|          | ET=+<br>UT=+00.00.02 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP                                | SET_OBS_STEP<br><br>SP03N500<br><br>GBM IL DSE<br>----                    | SC003500<br><br>1 <hex>                         | TC          |  |
|          | ET=+<br>UT=+00.00.00 | SEND_DRCU_COMMAND<br><br>Command Parameter(s) :<br>DRCUCOMMAND<br>OVERRIDE<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : SEND A SINGLE COMMAND TO THE DRCU       | SEND_DRCU_COMMAND<br><br>SPD4N505<br>SPD9N505<br><br>GBM IL DSE<br>--- -- | SCD06505<br><br>843e0000 <hex><br>0 <hex> (Def) | TC          |  |
|          | ET=+<br>UT=+00.00.01 | FLUSH_FIFO<br><br>Command Parameter(s) :<br>FIFOFLAGS<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : FORCE DPU TO READ SCIENCE DATA FROM FIFOS AND FLUSH CONTENTS | FLUSH_FIFO<br><br>SPD0N505<br><br>GBM IL DSE<br>--- --                    | SCD01505<br><br>1000 <hex>                      | TC          |  |
|          | ET=+<br>UT=+00.00.03 | RESET_FIFOS<br><br>Command Parameter(s) :<br>RESETFLAGS<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : RESET FIFOS  | RESET_FIFOS<br><br>SPDDN505<br><br>GBM IL DSE<br>--- --                   | SCD07505<br><br>7000 <hex>                      | TC          |  |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP                                | SET_OBS_STEP<br><br>SP03N500<br><br>GBM IL DSE<br>----                    | SC003500<br><br>0 <hex>                         | TC          |  |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID<br><br>TC Control Flags :<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER                          | SET_BBID<br><br>SP01N500<br><br>GBM IL DSE<br>--- --                      | SC001500<br><br>80000000 <hex>                  | TC          |  |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch | AIT Comment |
|----------|----------------------|---|---|-----------------|-------------|
|          | ET=+<br>UT=+00.00.01 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP       | SET_OBS_STEP<br><br>SC003500<br><br>0 <hex>     | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SET_BBID<br><br>SC001500<br><br>80030001 <hex>  | TC              |             |
|          | ET=+<br>UT=+00.00.02 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP       | SET_OBS_STEP<br><br>SC003500<br><br>1 <hex>     | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBSID<br><br>Command Parameter(s) :<br>OBSERVATION_ID SP00N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION IDENTIFIER      | SET_OBSID<br><br>SC000500<br><br>b0000000 <hex> | TC              |             |
|          | ET=+<br>UT=+00.00.01 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP       | SET_OBS_STEP<br><br>SC003500<br><br>0 <hex>     | TC              |             |
|          | ET=+<br>UT=+00.00.00 | SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br><br>TC Control Flags :<br>GBM IL DSE<br>----<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SET_BBID<br><br>SC001500<br><br>80000000 <hex>  | TC              |             |

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| Step No. | Time                 | Activity/Remarks  | TC/TLM                     | Display/ Branch   | AIT Comment |
|----------|----------------------|---|----------------------------|-------------------|-------------|
| 4.1      |                      | TM Checks   |                            |                   |             |
|          |                      | Verify Telemetry<br>SPECJFETSTAT SMF0F510   | = 1 <hex>                  | AND=SA_6_559      |             |
|          |                      | Verify Telemetry<br>SLIABITSTAT SM_1X520  | = ON                       | AND=SA_6_559      |             |
|          |                      | Verify Telemetry, (+/- 0.1V)<br>SLIAP5V SML3V510  | = 5.23 V                   | AND=ZAZ93999      |             |
|          |                      | Verify Telemetry (+/- 0.1V)<br>SLIAP9V SML4V510   | = 11.57 V                  | AND=ZAZ93999      |             |
|          |                      | Verify Telemetry (+/- 0.1V)<br>SLIAM9V SML5V510   | = 11.54 V                  | AND=ZAZ93999      |             |
| 5        |                      | Set default end conditions  |                            | Next Step:<br>END |             |
|          |                      | Note that a <b>TM(5,1)</b> packet [New_Step_Report] is generated after each of the following SET_OBS_STEP telecommands                          |                            |                   |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500<br>0 <hex>        | TC                |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br>SET_BBID<br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500<br>80000000 <hex> | TC                |             |
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500   | = Null                     | AND=ZAZ90999      |             |
|          | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br>SET_OBS_STEP<br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP   | SC003500<br>0 <hex>        | TC                |             |
|          | ET=+<br>UT=+00.00.01 | SET_BBID<br>SET_BBID<br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SC001500<br>80030001 <hex> | TC                |             |
|          |                      | Verify Telemetry<br>BBFULLTYPE SM2LN500   | = EndObs                   | AND=ZAZ90999      |             |



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| Step No.                | Time                 | Activity/Remarks  | TC/TLM  | Display/ Branch | AIT Comment |
|-------------------------|----------------------|---|---|-----------------|-------------|
|                         | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP       | SET_OBS_STEP<br><br>SC003500<br><br>1 <hex>     | TC              |             |
|                         | ET=+<br>UT=+00.00.01 | SET_OBSID<br><br>Command Parameter(s) :<br>OBSERVATION_ID SP00N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION IDENTIFIER      | SET_OBSID<br><br>SC000500<br><br>00000000 <hex> | TC              |             |
|                         |                      | Verify Telemetry<br><br>OBSID SM10N500  | = 00000000 <hex>                                | AND=ZAZ90999    |             |
|                         | ET=+<br>UT=+00.00.00 | SET_OBS_STEP<br><br>Command Parameter(s) :<br>OBSERVATION_STEP SP03N500<br><br>Subsch. ID : 370<br>Det. descr. : SET OBSERVATION STEP       | SET_OBS_STEP<br><br>SC003500<br><br>0 <hex>     | TC              |             |
|                         | ET=+<br>UT=+00.00.01 | SET_BBID<br><br>Command Parameter(s) :<br>BUILDING_BLOCK_ID SP01N500<br><br>Subsch. ID : 370<br>Det. descr. : SET BUILDING BLOCK IDENTIFIER | SET_BBID<br><br>SC001500<br><br>80000000 <hex>  | TC              |             |
|                         |                      | Verify Telemetry<br><br>BBFULLTYPE SM2LN500   | = Null  | AND=ZAZ90999    |             |
| End of Sequence         |                      |   |   |                 |             |
| <b>End of Procedure</b> |                      |   |   |                 |             |