SPIRE Initial Instrument Switch On
File: H_COP_SPI_SWON.xls
Author: L.Lucas-hp

## Procedure Summary

### Objectives

The objective of this procedure is to switch on SPIRE PRIME during commissioning, and in preparation for the COP CFT.

### Summary of Constraints

The saved stack files should have been generated prior to the DTCP and sent to the HSC/ICC as defined in the procedure H_GSP_MCS_MSTK.
Two OBS_ID values are required from the HSC.

### Spacecraft Configuration

**Start of Procedure**

n/a

**End of Procedure**

n/a

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

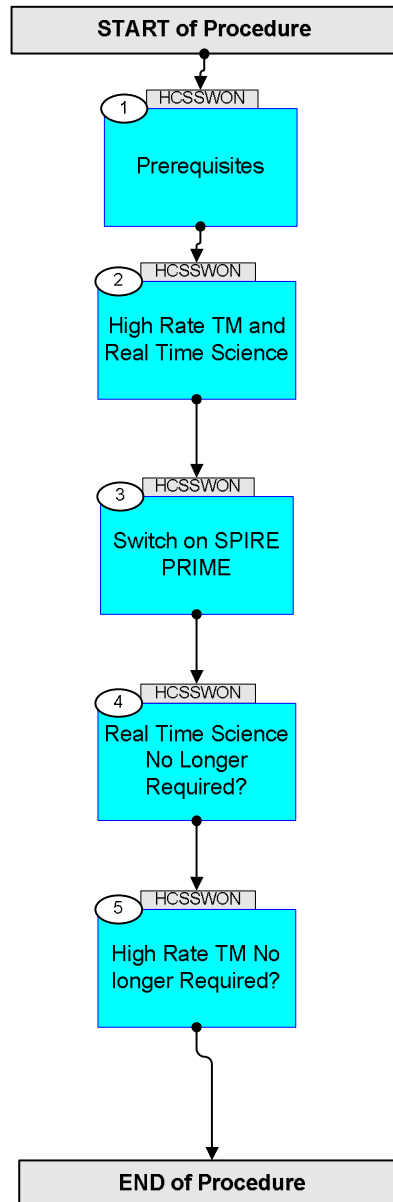### Referenced Displays

ANDs       GRDs       SLDs
ZAZ7J999

### Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|------|-----------|---------|--------------------------|--------|---------|
| 26/02/09 | | 1 | Created | L.Lucas-hp | |
| 27/02/09 | 2.1 | 1.01 | Validation : Text Updates | L.Lucas-hp | |
| 21/04/09 | 2.3 | 1.02 | Validation : Added HR TM and VC1 checks. Updated DRCU procedure name to reflect new mode transistion procedure. | L.Lucas-hp | |

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## Procedure Flowchart Overview

```
                    ┌─────────────────────────┐
                    │   START of Procedure     │
                    └─────────────────────────┘
                                 │
                      ┌───HCSSWON─────────┐
                  ( 1 )│                   │
                      │   Prerequisites    │
                      └───────────────────┘
                                 │
                      ┌───HCSSWON─────────┐
                  ( 2 )│  High Rate TM and │
                      │  Real Time Science │
                      └───────────────────┘
                                 │
                      ┌───HCSSWON─────────┐
                  ( 3 )│  Switch on SPIRE  │
                      │       PRIME        │
                      └───────────────────┘
                                 │
                      ┌───HCSSWON─────────┐
                  ( 4 )│  Real Time Science│
                      │    No Longer       │
                      │    Required?       │
                      └───────────────────┘
                                 │
                      ┌───HCSSWON─────────┐
                  ( 5 )│  High Rate TM No  │
                      │  longer Required?  │
                      └───────────────────┘
                                 │
                    ┌─────────────────────────┐
                    │    END of Procedure      │
                    └─────────────────────────┘
```

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | **Beginning of Procedure** | | |
| | | *TC Seq. Name :HCSSWON* (SPIRE First Time On) <br><br> *TimeTag Type:* <br> *Sub Schedule ID:* | | |
| 1 | | *Prerequisites* | | Next Step: 2 |
| | | The following test consists of one activity. Each activity is represented by one saved stack file which should be generated prior to the DTCP. <br><br> Each stack should allso be delivered to the HSC/ICC using the procedure defined in **H_GSP_MCS_MSTK** | | |
| | | **NOTE:** <br> Naming Convention for saved stack file: <br><br> **yyyymmdd_nnnn_H_SAVED_xxvv** <br><br> yyyy = Year *[of expected uplink]* <br> mm = Month *[of expected uplink]* <br> dd = Day *[of expected uplink]* <br> nnnn = OD *[of expected uplink]* <br> xx = TSF number (defined in each activity) <br> vv = version number | | |
| | | **Note:** <br> The procedures defined below should have been brought together into the following saved stack file prior to the DTCP: <br><br> **yyyymmdd_nnnn_H_SAVED_xxvv** <br><br> This file is then called up and executed on the manual stack during the DTCP. | | |
| 1.1 | | *Verify HSC/ICC Inputs* | | |
| | | Prerequisites, verify: <br> **DPU s/w version/subversion** <br> **SPU s/w version/subversion** <br><br> FP: <br> OBS_ID (quantity 2) | | |
| 2 | | *High Rate TM and Real Time Science* | | Next Step: 3 |
| | | Note: Both high rate TM and Real Time Science are required for this test. | | |
| 2.1 | | *Verify High Rate TM is Available.* | | |

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Fop Issue :                        3.0
Issue Date:                  13/04/10

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | High Rate TM is required. | | |
| | | Verify High Bit Rate<br><br>**TME_BITRATE**              DEMRF160 | **= 1.5 Mbps** | AND=ZAZ7J999 |
| | | If High Rate is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable High Rate TM.<br>PROCEDURE:<br>**H_FCP_TTC_TUHR**      [HFTTUHR] | | |
| | | | | |
| 2.2 | | *Verify Real Time Science is Available.* | | |
| | | Real Time Science data is required. Check the NCTRS for VC1. | | |
| | | If VC1 is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable RTS.<br>PROCEDURE:<br>**H_FCP_DHS_1013A**      [HFD1013A] | | |
| | | | | |
| 3 | | *Switch on SPIRE PRIME* | | Next Step:<br>4 |
| | | **Note:**<br>The procedures defined below should have been brought together into the following saved stack file prior to the DTCP:<br><br>**yyyymmdd_nnnn_H_SAVED_xxvv**<br><br>This file is then called up and executed on the manual stack during the DTCP. | | |
| | | | | |
| 3.1 | | *Activity procedures* | | |
| | | Run the following two, 2 procedures. | | |
| | | | | |
| 3.1.1 | | *Power on and Boot SPIRE PRIME* | | |
| | | PROCEDURE:<br>**H_COP_SPI_NSON**      [HCSNSON]<br><br>FP:<br>**OBS_ID** | | |
| | | | | |
| 3.1.2 | | *Start SPIRE PRIME DRCU* | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | PROCEDURE:<br>**H_COP_SPI_MDRN    [HCSMDRN]**<br><br>FP:<br>**OBS_ID** | | |
| | | | | |
| 4 | | *Real Time Science No Longer Required?* | | Next Step:<br>5 |
| | | Real Time Science data is no longer required for this test for SPIRE. | | |
| | | | | |
| 4.1 | | *Verify Real Time Science is Still Required* | | |
| | | Verify if RTS is still required (generally).<br><br>Consult with SOM.<br><br>If it is still required, do nothing. | | |
| | | If REal Time Science is not still required.<br><br>Upon confirmation from SOM, if RTS is no longer required generally and should be disabled, run the following procedure to disable RTS.<br><br>PROCEDURE:<br>**H_FCP_DHS_1013B    [HFD1013B]** | | |
| | | | | |
| 5 | | *High Rate TM No longer Required?* | | Next Step:<br> END |
| | | | | |
| 5.1 | | *Verify High Rate TM is Still Required.* | | |
| | | Verify if High Rate TM is still required (generally).<br><br>Consult with SOM.<br><br>If it is still required, do nothing. | | |
| | | If High Rate is not still required.<br><br>Upon confirmation from SOM, run the following procedure to changefrom High Rate to medium rate TM.<br><br>PROCEDURE:<br>**H_FCP_TTC_TUMR    [HFTTUMR]** | | |
| | | | | |

## End of Procedure