

Start or stop the whole OBCP function  
File: H\_FCP\_DHS\_3046.xls  
Author: cmevi-hp



## Procedure Summary

### Objectives

The ASW function "OBCP Management" is responsible of executing the loaded Procedures.

This procedure describes the steps needed to switch ON or OFF the function.

### Summary of Constraints

Default status of the function: "Stopped".

Note that the function is autonomously started after warm boot if the mass memory is available.

When the function is stopped, it does not accept any other telecommands than the:

- Start Function TC(8,1,107);
- Report Function Status TC(8,5,107).

### Spacecraft Configuration

#### Start of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
  - TM Encoder/OBT A or B active (nominally A)
  - RM A and B enabled
  - MM A and B ON

#### End of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
  - TM Encoder/OBT A or B active (nominally A)
  - RM A and B enabled
  - MM A and B ON

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HFD3046B  
HFD3046C  
HFD3046D  
HFD3046F

### Referenced Displays

ANDs      GRDs      SLDs  
ZAZAI999

### Configuration Control Information

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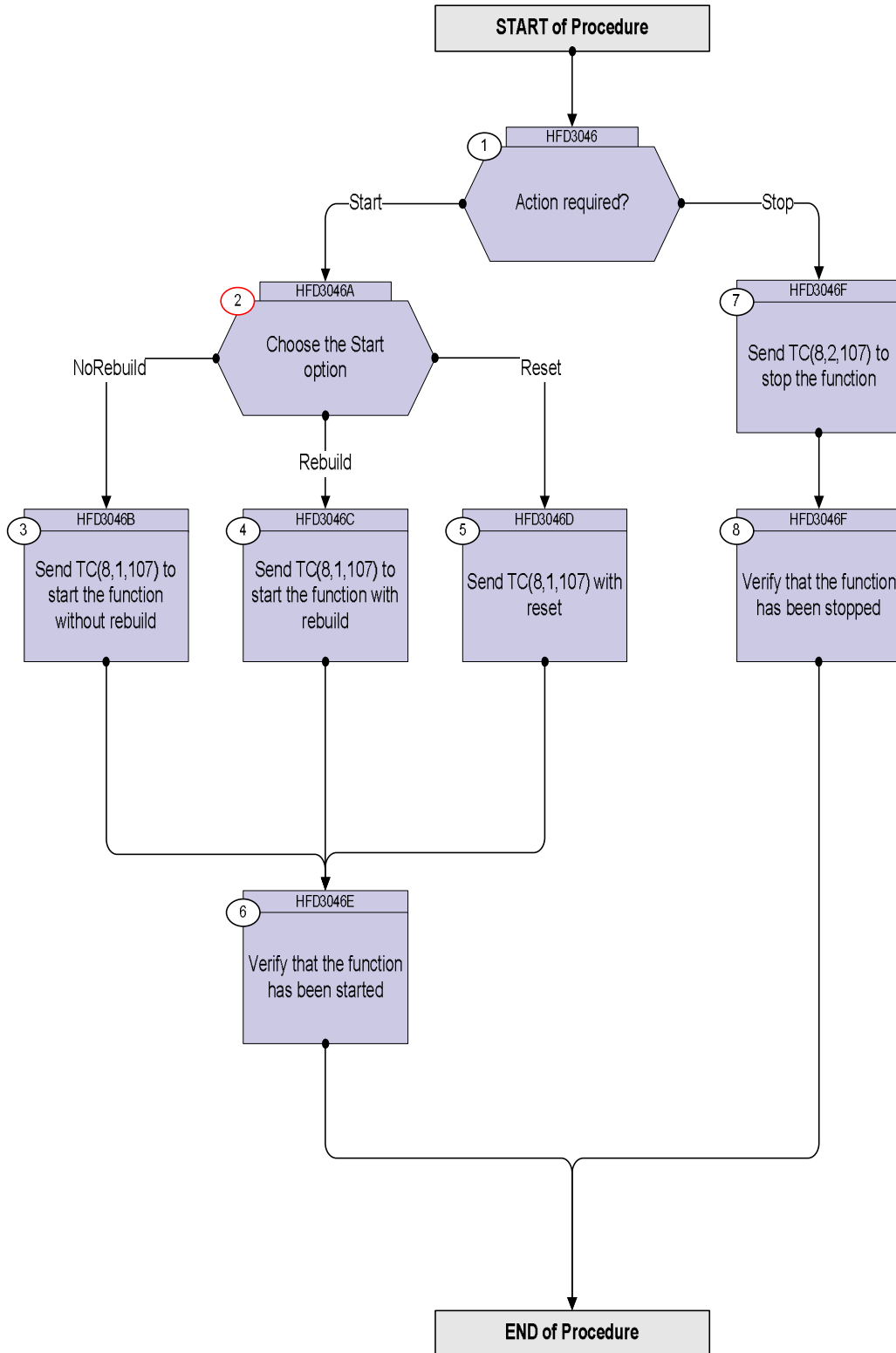


| DATE     | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION   | AUTHOR       | SPR REF |
|----------|-----------|---------|--|--------------|---------|
| 05/11/07 |           | 1       | Created  | cmevi-hp     |         |
| 10/06/08 | 1         | 2       | TC Flag and Seq Properly changed   | S. Manganeli |         |
| 28/11/08 | 2         | 3       | Procedure updated according to latest version received from industry on 29/09/2008 | cmevi-hp     |         |

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**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 :HFD3046 (Dummy sequence)</i></p> <p><i>TimeTag Type:</i><br/><i>Sub Schedule ID:</i></p> <p style="text-align: center;"><input type="checkbox"/></p>   |      |   |                  |   |
| 1  |      | Action required?  |                  | Next Step:<br>Start 2<br>Stop 7                   |
| 1.1  |      | Start   |                  | <input type="checkbox"/>                          |
|  |      | Verify Telemetry<br><br><b>ObcpSts                      DEH36170</b>  | <b>= Stopped</b> | AND=ZAZAI999                                      |
| 1.2  |      | Stop  |                  | <input type="checkbox"/>                          |
|  |      | Verify Telemetry<br><br><b>ObcpSts                      DEH36170</b>  | <b>= Running</b> | AND=ZAZAI999                                      |
| <p><i>TC Seq. Name :HFD3046A (Dummy sequence)</i></p> <p><i>TimeTag Type:</i><br/><i>Sub Schedule ID:</i></p> <p style="text-align: center;"><input type="checkbox"/></p>  |      |   |                  |   |
| 2  |      | Choose the Start option   |                  | Next Step:<br>NoRebuild 3<br>Rebuild 4<br>Reset 5 |
|  |      | <p><b>Start OBCP Management telecommand is used for switching ON the function.</b></p> <p><b>Note that the first starting of the function after software reboot, and if parameter force rebuild parameter is given, the execution of this TC takes longer than usual, since in those cases the SSMM buffers are created and initialised, or the existing buffers are read through to see what is in them.</b></p> |                  |   |
| <p><i>TC Seq. Name :HFD3046B (Start NoRebuild)</i></p> <p><i>TimeTag Type:</i><br/><i>Sub Schedule ID:</i></p> <p style="text-align: center;"><input type="checkbox"/></p> |      |   |                  |   |

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| Step No.  | Time | Activity/Remarks   | TC/TLM   | Display/ Branch |
|---|------|--|----------|-----------------|
| 3   |      | Send TC(8,1,107) to start the function without rebuild   |          | Next Step:<br>6 |
|   |      | Execute Telecommand<br><br><b>StartObcpManagNoForce</b><br><br>TC Control Flags :<br><br><div style="text-align: right;">GBM IL DSE<br/>--Y -- ---</div> Subsch. ID : 10<br>Det. descr. : Start Obcp Management TC(8,1,107) without ForceRebuild param | DCN03170 |                 |
| TC Seq. Name :HFD3046C (Start Rebuild)                            |      |  |          |                 |
| TimeTag Type:<br>Sub Schedule ID:<br><br><input type="checkbox"/> |      |  |          |                 |
| 4   |      | Send TC(8,1,107) to start the function with rebuild  |          | Next Step:<br>6 |
|   |      | Execute Telecommand<br><br><b>StartObcpManagForce1</b><br><br>TC Control Flags :<br><br><div style="text-align: right;">GBM IL DSE<br/>--Y -- ---</div> Subsch. ID : 10<br>Det. descr. : Start Obcp Management TC(8,1,107) with ForceRebuild set to 1  | DCN1A170 |                 |
| TC Seq. Name :HFD3046D (Start Reset)                              |      |  |          |                 |
| TimeTag Type:<br>Sub Schedule ID:<br><br><input type="checkbox"/> |      |  |          |                 |
| 5   |      | Send TC(8,1,107) with reset  |          | Next Step:<br>6 |
|   |      | Execute Telecommand<br><br><b>StartObcpManagForce2</b><br><br>TC Control Flags :<br><br><div style="text-align: right;">GBM IL DSE<br/>--Y -- ---</div> Subsch. ID : 10<br>Det. descr. : Start Obcp Management TC(8,1,107) with ForceRebuild set to 2  | DCN1D170 |                 |

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| Step No.   | Time | Activity/Remarks   | TC/TLM                     | Display/ Branch   |
|--|------|--|----------------------------|-------------------|
| <p><i>TC Seq. Name :HFD3046E (Verify function stat)</i></p> <p><i>TimeTag Type:</i><br/> <i>Sub Schedule ID:</i></p> <p><input type="checkbox"/></p> |      |  |                            |                   |
| 6  |      | Verify that the function has been started  |                            | Next Step:<br>END |
|  |      | Verify Telemetry   | ObcpSts DEH36170 = Running | AND=ZAZAI999      |
| <p><i>TC Seq. Name :HFD3046F (Stop function)</i></p> <p><i>TimeTag Type:</i><br/> <i>Sub Schedule ID:</i></p> <p><input type="checkbox"/></p>        |      |  |                            |                   |
| 7  |      | Send TC(8,2,107) to stop the function  |                            | Next Step:<br>8   |
|  |      | <p><b>Stop OBCP Management telecommand is used for switching OFF the function.</b></p> <p><b>When the function is stopped, it does not accept any other telecommands than the Start Function and Report Function Status TCs.</b></p> <p><b>Note: Stopping the function does not stop the execution of the currently running OBCPs.</b></p> |                            |                   |
|  |      | <p>Execute Telecommand</p> <p style="text-align: right;">StopObcpManag</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE<br/>--Y -- ---</p> <p><i>Subsch. ID : 10</i><br/> <i>Det. descr. : Stop Obcp Management TC(8,2,107)</i></p>   | DCN04170                   |                   |
| 8  |      | Verify that the function has been stopped  |                            | Next Step:<br>END |
|  |      | Verify Telemetry   | ObcpSts DEH36170 = Stopped | AND=ZAZAI999      |
| <b>End of Procedure</b>  |      |  |                            |                   |