



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 07, year 2016**

from 15 FEB 2016 to 22 FEB 2016

**1.0**

### 1 General Comments

Activities scheduled for this week are those planned for the 07<sup>th</sup> calendar week of 2016:

15 FEB 2016 to 22 FEB 2016 (DoYs 046 to 053).

The following routine activities were planned this week (see Gantt chart on next page and CRF 552):

- One Warm NIR Calibration on 17 FEB 2016 (DoY 048) with ETO 01:36:15.0z (orbit 33066) and with the following expected calibration values:

B.T.	= 3.7111
R.M.S.	= 0.1167
Sun elevation	= 09.9833°
Moon elevation	= 44.2903°
R.A.	= 053.3272°
DEC.	= -19.1417°
- One PMS Offset on 18 FEB 2016 (DoY 049), including three Short Calibrations at 09:35:00.0z, 09:35:34.8z, and 09:36:09.6z (orbit 33085).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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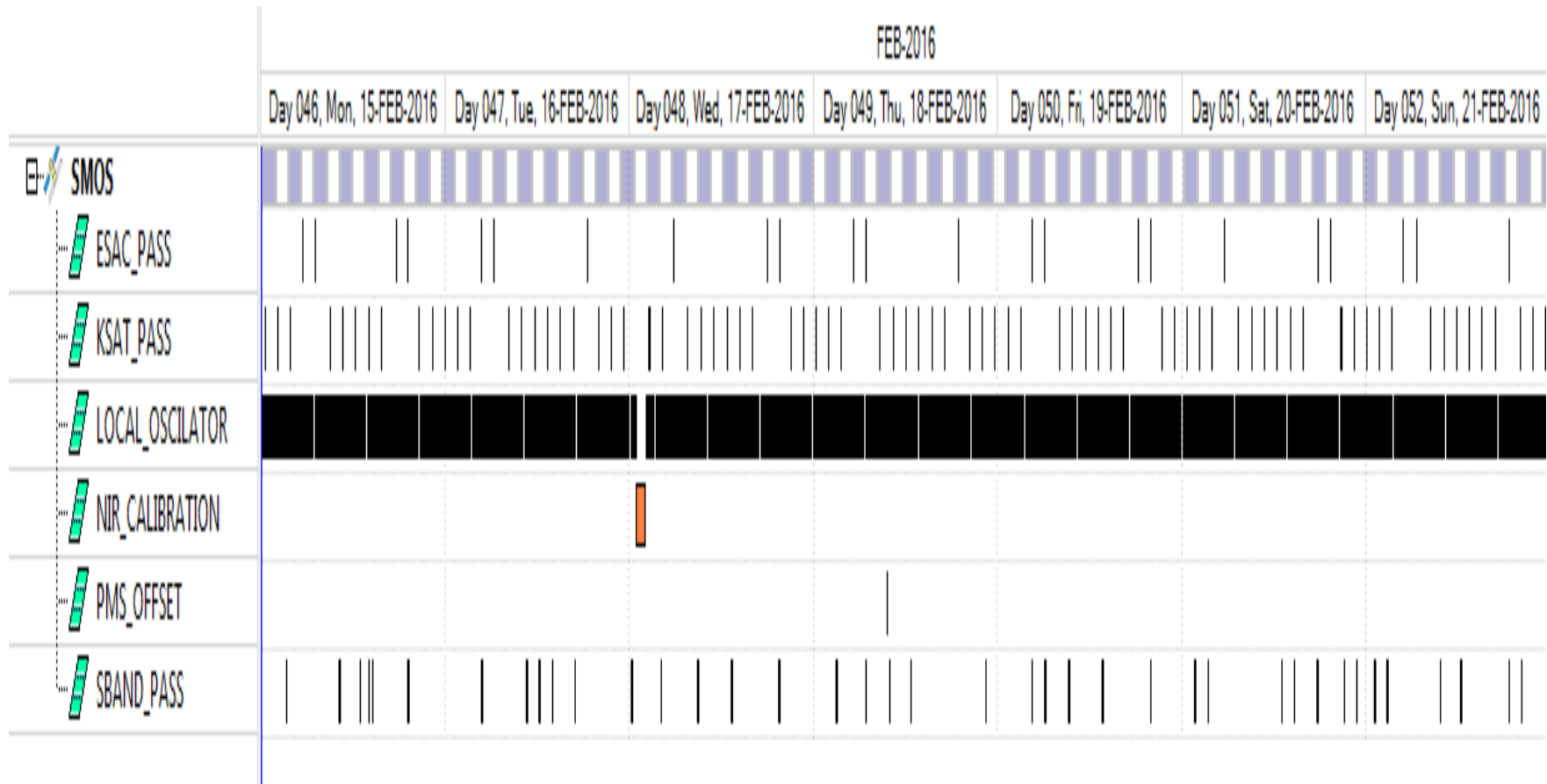
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### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

- The temperature of LICEF A10 is progressively decreasing according with the seasonal evolution of this temperature. Nevertheless the values are still around 1.5 degrees higher than the normal values at this time of the year. High-Soft limits, values higher than 26 degrees, are still received on PLPC system but it should disappear soon since the average value per orbit is currently decreasing below 26 degrees

### 5 On Board Anomalies

None.

### 6 On Board Events Telemetry

The following RAM Single Bit Errors befell this week:

Event Description	Severity	Event Time	Parameters
RAM single Bit Error	WARN	2016.051.11.12.19.700	211AD3C
RAM single Bit Error	WARN	2016.048.11.01.57.866	206F7D4
RAM single Bit Error	WARN	2016.051.11.12.19.700	211AD3C

### 7 FOS Systems Status

- The PLPC TCO task crashed on 2016-02-17T09:36:35,737z (DoY 048; ERT) due to a CORBA System exception. The problem commenced during the reception/processing of GS pass KUX-14 (17 FEB 2.016, DoY 048; AoS=08:57:02z, LoS=09:11:20z; ERT). The PLPC system started receiving/processing TM on 2016-02-17T09:27:43,078z (DoY 048; ERT). The first PUS TM packet had an OBT stamp of 2016-02-17T04:10:42,726z (DoY 048) and, as result of the above anomaly, all PUS TM packets with OBT stamps from 06:57.05,613z to 07:02:17,615z (27 JAN 2.016, DoY 027) were incorrectly archived under Data Stream 4.

The TCO task was manually restarted, followed by the execution of procedure FCP-GRD-040. PUS TM packets with OBT stamps from 04:10:42,726z to 08:58:39,419z (17 FEB 2.016, DoY 048) were deleted from the PLPC system, and the following files reingested/reprocessed:



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SMOS\_PLTM1\_P\_2016\_02\_17\_08\_58\_40

SMOS\_PLTM1\_P\_2016\_21\_17\_09\_00\_52

The SMTA-MUST system was not impacted by the crash. Cronjobs were disabled to have TCO task restarted and procedure FCP-GRD-040 executed, then enabled to have the TM ingested into the SMTA-MUST system.

### **8 Data Reception from CNES**

All S Band Passes were correctly received from CNES and successfully processed by the FOS PLPC System.

### **9 X Band Data Reception in PXMF**

None, all S Band Passes successfully received and processed.

### **10 Exceptional Activities**

None.

### **11 AOB**

None.

### **APPENDIX A: OOLs**

None.