Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:	**FOS Report for week 41, year 2015**
Date:	from 05 OCT 2015 to 12 OCT 2015
Issue:	**1.0**

1   General Comments

Activities scheduled for this week are those planned for the 41st calendar week of 2015:

    05 OCT 2015 to 12 OCT 2015 (DoYs 278 to 285).

The following routine activities were planned this week (see Gantt chart on next page and CRF 528):

- One PMS Offset on 08 OCT 2015 (DoY 281), including three Short Calibrations at 15:53:00.0z, 15:53:34.8z, and 15:54:09.6z (orbit 31175).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2   Mission Planning Deviations

None.

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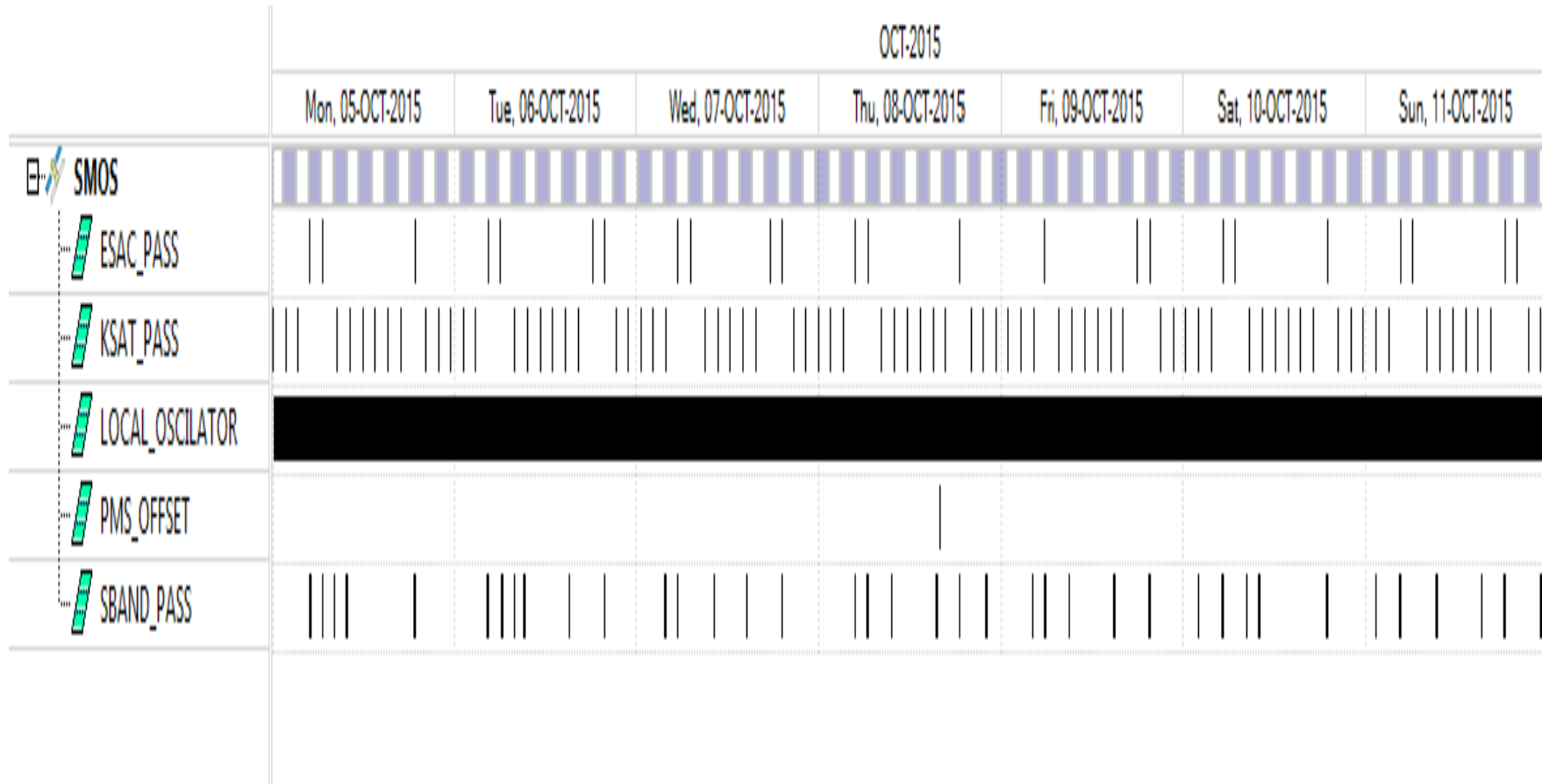Topic: **FOS Report for week 41, year 2015**

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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

- MIRAS telemetry parameter *DMASME45 DB Err In P6* went Out of Limits at 2015-10-10T09.58.41.262 (DOY 283) indicating a double bit memory error on Mass Memory partition P6. (See section 5 and Appendix-A)

5 On Board Anomalies

- On 2015-10-10T09:59:41 (DOY 283), a Mass Memory Double bit Memory Error happened in partition P6. Telemetry parameter *DMASME45 DB Err In P6* went Out of Limits at that time with value FALSE. The position at that time of the Write Pointer was 871054 (Partition P1) and the Read Pointer 676032 (Partition P1). Since the error happened in a partition above the one currently being written no data losses or data corruptions did happen.

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	2015.285.10.26.05.086	23E2214
RAM single Bit Error	WARN	2015.283.09.59.26.162	23EBF48
RAM single Bit Error	WARN	2015.281T14:08:01.800	21C0600

7 FOS Systems Status

All FOS Systems behaved nominal with exception of:

- On day 2015-10-07T08:00:00 (DOY 280) PLPC SCSI device failed due to a conflict of two PLPC machines accessing at the same time. As part of the PLPCNAS installation, PLPCBKP machine was temporarily connected in order to verify its connectivity with PLPCNAS and to align their SW patches. Unfortunately the machine was connected to PLPC SCSI array while it should not be; this created an access conflict since both machines PLPCPRM and PLPCBKP were connected to the same device. As consequence of that four disks got offline. After some consultation the disks were made online again and the problem successfully recovered.

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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.

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APPENDIX A: OOLs

The only relevant Out of Limits received in this reporting period was the Double Bit Memory Error in partition P6.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2015.283.10.30.05.540	2015.283.09.58.41.262	DMASME45	DB Err In P6	FALSE	TRUE