1 General Comments

Activities scheduled for this week are those planned for the 47th calendar week of 2016:

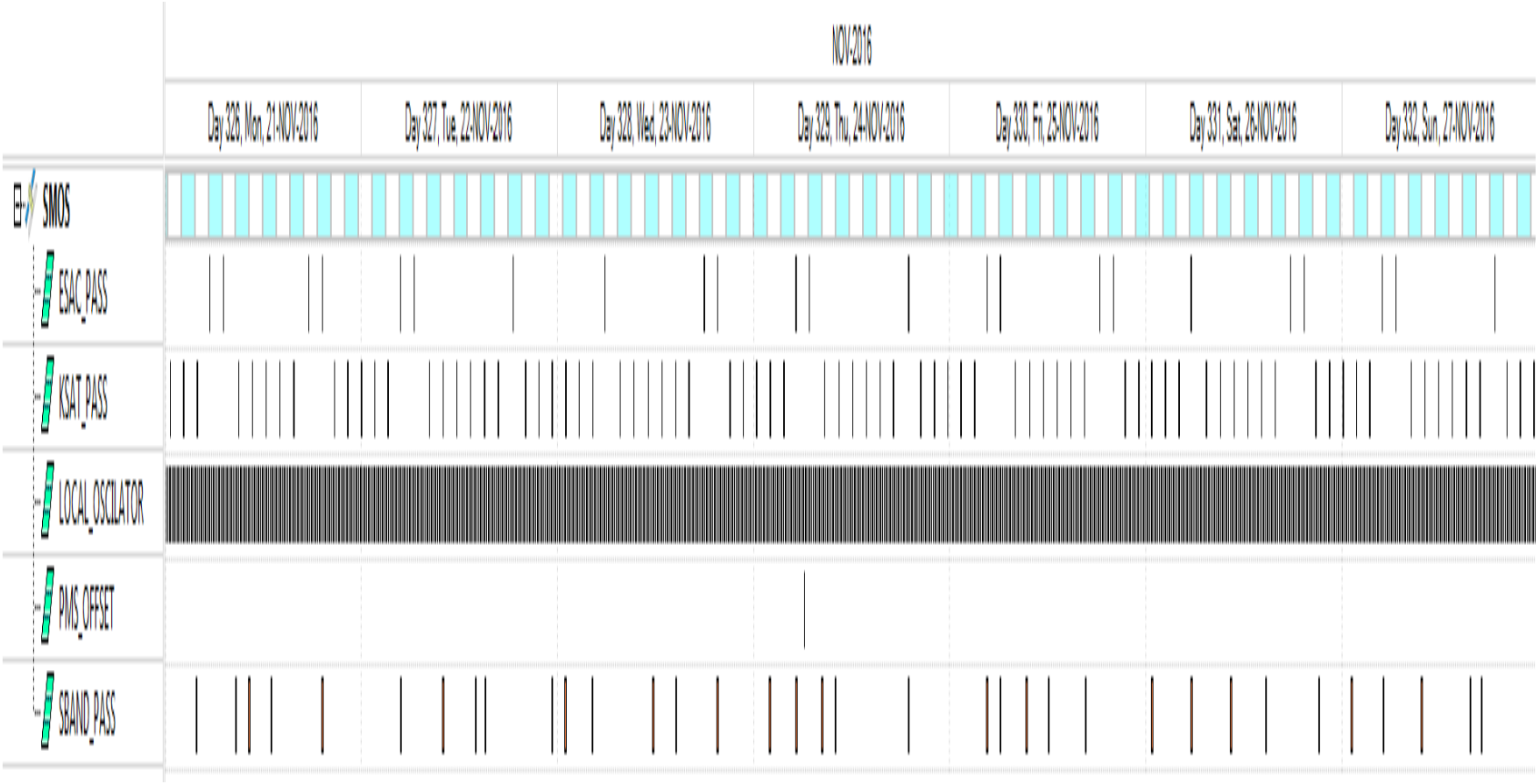
```
21 NOV 2016 to 28 NOV 2016 (DOYs 326 to 333).
```

The following routine activities were planned this week (see Gantt chart on next page and CRF 623):

- One PMS Offset on 24 NOV 2016 (DOY 329), including three Short Calibrations at 06:16:00.0z, 06:16:34.8z, and 06:17:09.6z (orbit 37112).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


NOV-2016
Day 326, Mon, 21-NOV-2016
Day 327, Tue, 22-NOV-2016
Day 328, Wed, 23-NOV-2016
Day 329, Thu, 24-NOV-2016
Day 330, Fri, 25-NOV-2016
Day 331, Sat, 26-NOV-2016
Day 332, Sun, 27-NOV-2016
SMOS
ESAC_PASS
KSAT_PASS
LOCAL_OSCILATOR
PMS_OFFSET
SBAND_PASS

3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

None.

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	2016.331.19.48.36.229	205316C
RAM single Bit Error	WARN	2016.331.11.12.15.514	2299000
RAM single Bit Error	WARN	2016.329.22.18.56.231	229C318
RAM single Bit Error	WARN	2016.329.21.24.24.998	20BCED4
RAM single Bit Error	WARN	2016.325.20.52.29.996	21E3DE0

7 FOS Systems Status

The following programmed activities were performed during this week:

- On the 23 of November the FOS PXMF infrastructure (XBand side) was changed from its nominal physical infrastructure to its new virtual infrastructure. Both prime and backup machines were fully tested and XBand data retrieved from different passes and ingested into the SMTA MUST Telemetry archive. Old PXMF physical machines will also remain available for the next two weeks in case of possible failure of the virtual systems. After that both PXMFPRM and PXMFBKP will be finally decommissioned.
- On the 22 of November the FOS PLPC infrastructure (SBand side) was changed from its nominal physical infrastructure to its new virtual infrastructure. Both new virtual PLPC machines were successfully tested using three different SBand GS passes. The swap among these two machines was also fully tested together with all the FOS internal interfaces (SPGF, PLPCEXT and SMTA interfaces). At the same time the whole Mission Planning Process was fully exercised and the generation of Telecommands and TC Groups also

validated. Based on the successful results of this exercise it was decided to switch permanently to the new PLPC FOS virtual infrastructure. Old PLPC physical machines will remain available for next two weeks in case of possible failures on this new virtual infrastructure. After these two weeks, old PLPC machines will be finally decommissioned.

- Three new RAM slots of 4 GB were installed on FOSVIRT03 machine. Initial plan was to install these three new ones together with the existing one reaching in total 16GB. Unfortunately the one already installed was not compatible with the new ones therefore only the 3 were installed and the final configuration is such that the total RAM memory is 12 GB.
- The following old physical servers were shutdown, permanently disconnected from the FOS infrastructure, and decommissioned: SPGF-2, MIRASIM-1, PLPCDEV-1. Two virtual versions of these old servers are already deployed on the FOS systems.

8 Data Reception from CNES

All *S* band passes were correctly received from CNES and successfully processed by the FOS PLPC system, with the following exceptions:

9 *X* Band Data Reception in PXMF

None, all *S* band passes successfully received and processed.

10 Exceptional Activities

The ones related with the FOS ground segment and detailed in section seven of this report.

11 AOB

None.

APPENDIX A: OOLs

None.