



Operations Notes

FOS Team @ ESAC

Reported by: R. Fernandez

Topic:

Date:

Issue:

FOS Report for week 47
from the 17/11/14 to the 24/11/14

1.0

1 General Comments

The activities scheduled for this week are those planned for calendar week 47 of year 2014, from 17/11/2014 to 24/11/2014 (DOYs 321 to 328).

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

- X-band passes over ESAC and Svalbard.
- One PMS offset including three Short Calibrations on day 20/11/2014 (orbit 26542) at 16:28:58.000z, 16:29:32.800 and 16:30:07.600.
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.



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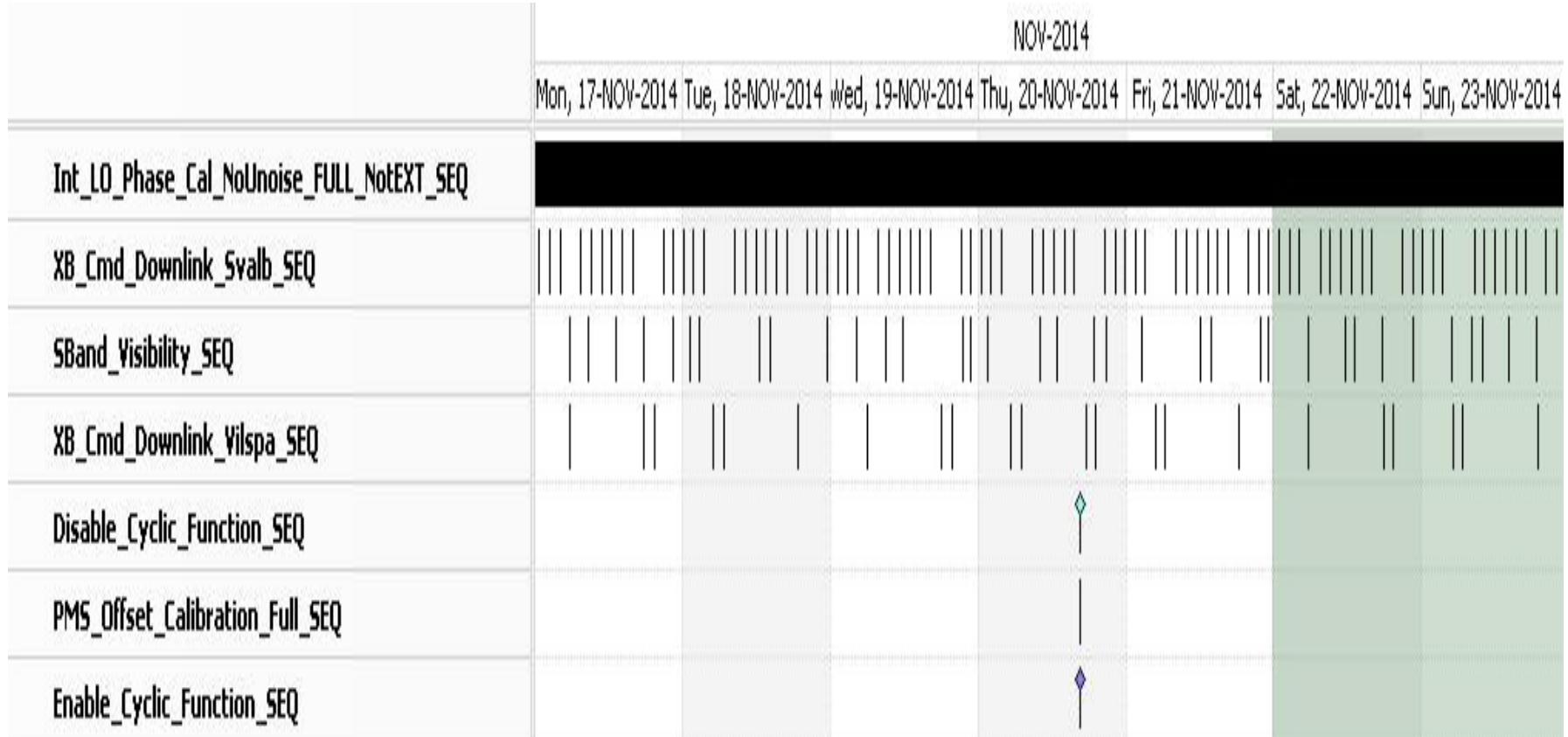
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3 TC Failures

None.

4 Unforeseen Out Of Limits (OOLs)

The list of out limits received during this week can be seen in Appendix-A.

5 On Board Anomalies

The following payload anomalies happened during this reporting period:

- A new CMN unlock on H1 unit on day 17/11/2014 at 21:28:18z. In this case unlock and power output parameters triggered OOL alarm in PLPC system. The geolocation of the event was over South America with the following geographical coordinates:

Lat= -26.103838

Long= 303.776434

The anomaly produced 10 minutes of degraded data.

- Another CMN unlock on B2 unit happened on day 22/11/2014 at 01:59:34z Also this case unlock and power output parameters triggered OOL alarm in PLPC system. The geolocation of the event was over South Indian Ocean with the following coordinates:

Lat= -56.774648

Long= 73.141342

The anomaly produced 10 minutes of degraded data.

- Again another CMN unlock on H3 unit took place on day 23/11/2014 at 19:13:38z. Both parameter unlock and power output parameters triggered OOL alarm in PLPC system. The geolocation of the event was over South Atlantic Ocean with the following coordinates:

Lat= -22.684385

Long= 338.041169

The anomaly produced 10 minutes of degraded data.

6 Telemetry On Board Events in the period.

No RAM Single Bit errors happened during this reporting week.

7 FOS System Status

All FOS systems behaved nominal during this period.



8 Data Reception from CNES

- On day 21/11/2014 and for GS pass KER-39 at 02:33z, MIRAS telemetry data was not complete since there was a small telemetry gap (only 6 missing SSC packets) from onboard time 2014-11-20T22:11:36.775z to 2014-11-20T22:11:41.575z. The affected Telemetry file from CNES was SMO_PLTM1_P_2014_11_21_02_36_14.
- On day the same day, 21/11/2014 and for GS pass KER-40 at 12:12z, telemetry data had 13 missing source Packets. The first onboard gap was from 2014-11-21T04:32:38.235z to 2014-11-21T04:32:43.035z. The affected TM file from CNES was SMO_PLTM1_P_2014_11_21_12_15_04. The second gap was from onboard time 2014-11-21T12:14:30.113z to 2014-11-21T12:14:34.903z. The affected TM file from CNES was SMO_PLTM1_P_2014_11_21_12_19_17.

9 X-Band Data Reception in PXMF

Not used during the present period.

10 Exceptional Activities

A network intervention to change the SMOS ESAC Switch took place in the morning of the 18th of November. No problems with the SBand passes and ESAC-CNES communications happened since there were no GS passes scheduled at the time of the network intervention. Files delivery from the Svalbard XBand passes were delayed due to this network intervention.

11 AOB

None.



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APPENDIX A: OOL's

The following Out of Limits related with the three CMN unlocks that happened this week were received at FOS PLPC system.

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2014.321.21.28.19.840	Hard-High	SPM11167	Unlock	LOCK	H1 LO_Locking
2014.321.21.28.18.640	Hard-High	SPM11162	NOT-OK	O.K	H1 LO_Out_Power
2014.326.01.59.34.184	Hard-High	SPM18167	Unlock	LOCK	B2 LO_Locking
2014.326.01.59.34.184	Hard-High	SPM18162	NOT-OK	O.K	B2 LO_Out_Power
2014.327.19.13.41.627	Hard-High	SPM13167	Unlock	LOCK	H3 LO_Locking
2014.327.19.13.38.027	Hard-High	SPM13162	NOT-OK	O.K	H3 LO_Out_Power