



Operations Notes

FOS Team @ ESAC

Reported by:

J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 31, year 2016

from 01 AUG 2016 to 08 AUG 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 31st calendar week of 2016:

01 AUG 2016 to 08 AUG 2016 (DoYs 214 to 221).

The following routine activities were planned this week (see Gantt chart on next page and CRF 592):

- One PMS Offset on 04 AUG 2016 (DoY 217), including three Short Calibrations at 05:37:00,0z, 05:37:34,8z, and 05:38:09,6z (orbit 35500).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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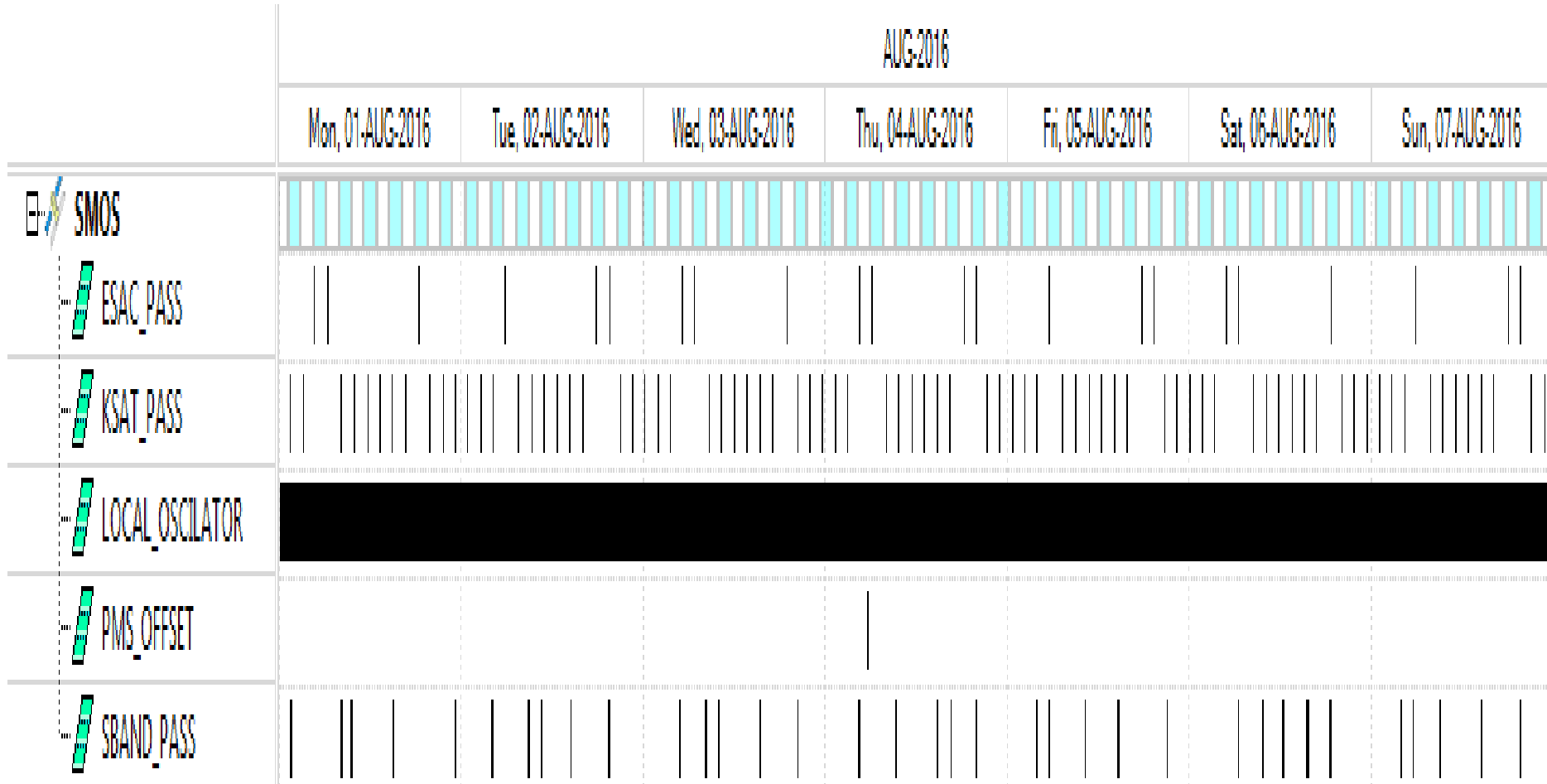
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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

Two parameters went OOL as MM partition P4 latched up on 02 AUG 2.016. Another two parameters did so as well when MM partition P9 latched up on 05 AUG 2.016. (See Appendix A for further details).

5 On Board Anomalies

- MM partition P4 latched up on 2016-08-02T14:51:26,071z.

The following parameters went out of limits in the PLPC system:

2016.215.14.51.26,071DMASME08 LU Switch P4
2016.215.14.51.26,071DMASME37 SDD LU Detected

This anomaly was geolocated over the Kenyan-Somali coast:

LAT. = -2,342479°
LONG. = 46,798911°

There was no science data losses associated with this anomaly because both the Read and Write pointers were on P6. Recovery took place on 2016-08-04T04:00:00z via CRF No. 593.

At the time of the anomaly, the position of the MM pointers were as follows:

READ = 3014598 (partition P6)
WRITE = 3077836 (partition P6)

- MM partition P9 latched up on 2016-08-05T08:40:42,704z.

The following parameters went out of limits in the PLPC system:

2016.218.08.40.42,704 DMASME03 LU Switch P9
2016.218.08.40.42,704 DMASME37 SDD LU Detected

This anomaly was geolocated over the coast of Bahía (Brazil):

LAT. = -11,058132°
LONG. = 321,479536°

There was no science data losses associated with this anomaly because it affected one of the spare partitions, while both the Read and the Write pointers were on P2. Recovery took place on 2016-08-08T15:00:00z via CRF No. 595.

At the time of the anomaly, the position of the MM pointers were as follows:

READ = 924674 (partition P2)
WRITE = 1120031 (partition P2)

6 On Board Events Telemetry

The following RAM Single Bit errors befell this week:



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Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2016.215.05.46.38,250	21226D0
RAM Single Bit Error	WARN	2016.216.07.23.33,126	21E64CC

7 FOS Systems Status

All FOS systems nominal.

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 following OOLs befell at the time MM partition P4 latched up on 2016-08-02T14:51:26,071z:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.215.20.01.30,296	2016.215.14.51.26,071	DMASME08	LU Switch P4	OFF	ON
2016.215.20.01.30,295	2016.215.14.51.26,071	DMASME37	SDD LU Detected	FALSE	TRUE

The following OOLs befell at the time MM partition P9 latched up on 2016-08-05T08:40:42,704z:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.218.10.59.52,388	2016.218.08.40.42,704	DMASME03	LU Switch P9	OFF	ON
2016.218.10.59.52,387	2016.218.08.40.42,704	DMASME37	SDD LU Detected	FALSE	TRUE