Operations Notes

FOS Team @ ESAC

Reported by:

J.M. Castro Cerón

Topic:	**FOS Report for week 32, year 2016**
Date:	from 08 AUG 2016 to 15 AUG 2016
Issue:	**1.0**

1 General Comments

Activities scheduled for this week are those planned for the 32nd calendar week of 2016:

08 AUG 2016 to 15 AUG 2016 (DoYs 221 to 228).

The following routine activities were planned this week (see Gantt chart on next page and CRF 594):

- One Warm NIR Calibration on 10 AUG 2016 (DoY 223) with ETO 02:47:00z (orbit 35585) and with the following expected calibration values:

B.T.	= 3.8386°
R.M.S.	= 0.2538
Sun Elevation	= 5.6892°
Moon elevation	= 33.9634°
R.A.	= 236.58°
DEC.	= 42.22°

- One PMS Offset on 11 AUG 2016 (DoY 224), including three Short Calibrations at 06:05:00,0z, 06:05:34,8z, and 06:06:09,6z (orbit 35601).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.

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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

None.

5 On Board Anomalies

• The MIRAS instrument MM partition P3 was temporarily impacted by a double bit error on 2016-08-08T13:35:00,892z (DOY 221).

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

```
2016-08-08T13:35:00.892Z        DMASME42  DB Err In P3
```

At the same time, the following parameters went out of soft limits in the PLPC system:

```
2016-08-08T13:35:00.892Z  NMASME08  Last  IP  SB  Errs
2016-08-08T13:35:00.892Z  NMASME09  Last  IP  DB  Errs
2016-08-08T13:35:00.892Z  NMASME13  SB Err Cnt P3
```

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

```
READ  = 624330  (partition P1)
WRITE = 859419  (partition P1)
```

There was no science data losses associated with this anomaly because it affected P3 while both, Read and Write, pointers were on P1 (i.e. the data in the affected partition had already been downloaded to ground and not yet rewritten). The anomaly recovered by itself after a few seconds, with no operational action being required.

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	2016.222.22.12.52,902	210F6BC
RAM Single Bit Error	WARN	2016.226.10.37.24,564	22EF76C
RAM Single Bit Error	WARN	2016.226.21.19.15,319	20F89D4

7 FOS Systems Status

All FOS systems behaved nominally during this week.

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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 following Teelemetry parameter went Out of Limit on PLPC system at the time of the Double Bit memory error on 2016-08-08T13:35:00z

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.221.15.01.38.219	2016.221.13.35.00.892	DMASME42	DB Err In P3	FALSE	TRUE