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Record of events relevant, and quite rare, about the Tracker

Here should be recorded date/time and details of the following events:

- Power cycles
- Tracker power configuration
- Tracker second step calibration
- Hardware Failure

Year	GMT	day	action	note
2018	280:12:24	Oct 7th	set Tracker to conf B	
2018	243:08:09	Aug 31st	set Tracker ALL on	
2018	255:08:54	Aug 13th	set Tracker to conf B	
2018	222:13:44	Aug 10th	set Tracker to conf A	
2018	213:12:04	Aug 1st	set Tracker ALL on	
2018	202:14:25	July 20th	set Tracker to conf A	there was a power cut on bus 3A at 202:07:52
2014	272-332	Sept 29th-Nov 28th	test with TTCS OFF	see https://twiki.cern.ch/twiki/bin/view/Main/TestsWithTTCSOff
2014	128:12:21	May 8th	Power Supply	ISS Bus 3A tripped off, Tcrate 0, 2, 4, 5, 6 powered on again at 15:00 (https://amsvobox04.cern.ch/eelog/LEAD/6256). Ladder HwId 605 TkId -609 with the whole Y-side dead.
2014	059:01:17	Feb 28th	Power Supply	All Tracker crates powered OFF (T1 off at 01:51) because of TTCE problems, power on at 059:06:10 (see attachment "tracker_temp_when_PA_stop.pdf")
2013	345:08:50	Dec 11th	Power supply	Tracker crates T4, T5,T6 and T7 are powered off to switch all of them from hot to cold digital power, see attached procedure, see LEAD log https://amsvobox04.cern.ch/eelog/LEAD/6108 and TEE log https://amsvobox04.cern.ch/eelog/TEE/855
2013	311:04:39	Nov 7st	Power supply	Tracker crates T0, T1,T2 and T3 are powered off for AMS power down for 37S docking. FN 060103:see https://amsvobox04.cern.ch/eelog/FN-Chits/341
2012	306:08:50	Nov 1st	Power supply	Due to PDS overheating all Tracker crates but T5 are powered off
2012	303:09:35	Oct 29th	Strip Tag	VA 12th of HwId 302 TkId -814 and VA 13th of HwId 303 TkId -812 since damaged (well know problem of broken capacitors) are tagged permanently as bad
2012	293:12:20	Oct 19th	Power cycle	Ladders HwId 302 TkId -814 and HwId 303 TkId -812 with bad calibrations on K side: on TkId -814 noise level of strips from 961 to 1024 (complete 16th VA) increasing rapidly with time, noise level lower than expected on all of remaining strips. An increase of leakage currents and temperature of 1N-4 sensor, near the Hybrid on plane 1, has been also observed. Problem fixed by cycling the

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				power on FE K-side. Due to this (probably a power glitch) VA 12th of HwId 302 TkId -814 and VA 13th of HwId 303 TkId -812 are damaged (well know problem of broken capacitors)
2012	285:13:05	Oct 11th	Noisy strips	HwID 402 TkID +703 had ~ 700 strips tagged noisy (bit 3) instead of usual ~ 30. A re-boot of DSP (even if never detected as DSP error) fixed the issue. This was due to the corruption of parameter 0xD (0xD and 0xE are used during calibration to determine noisy and dead strips, see https://twiki.cern.ch/twiki/pub/Main/AmsTrackerTDRCode/tdrnot and was checked looking inside CFG blocks (DT 0x7). Is possible to check these parameters also retrieving parameters with command 2e09.
2012	245:21:00	Sep 1st	Power supply	Due to a failure on ISS power bus 3A, Tcrate 0, 2, 4, 5, 6 were powered off, powered on again at 23:45
2012		Feb 15th	Strip Tag	All bad K-side's (8 ladders -> 3200 strips) tagged as permanently bad. One VA (64 strips) tagged on S-side (first cal 1329271885)
2012		Feb 08th	Strip Tag	K-side of T3-12,13,16,17,20,21 tagged as permanently bad (first cal 1328720709)
2011	335:16:00	Dec 1st	Power supply	Problem with S9051 in crate T3 (K-side of #12,13,16,17,20,21) broken (first cal 1322757335)
2011	319:14:00	Nov 15th	Power supply conf.	Flight configuration applied on T1, T3 and T7
2011	318:12:10	Nov 14th	Tracker power	Power off TPD1, TPD3, TPD7 because of PDS overheating, on again at 14:22 and 15:55
2011	236:05:18	Aug 24th	2nd step cal.	Second step calibration with $\Delta t = 220 \mu s$ and $235 \mu s$
2011	230:10:00	Aug 18th	Power supply conf.	The power supply on all the crates are now in nominal configuration: all redundant part are on on the HOT side but S9053 that is on on the cold side
2011	216:xx:xx	Aug 4th	2nd step cal.	Due to the new JAP loading permanent status bit were lost, so second step calibration has been performed with $\Delta t = 220 \mu s$ and $235 \mu s$
2011	202:xx:xx	Jul 24th	2nd step cal.	Second step calibration with $\Delta t = 220 \mu s$ and $235 \mu s$
2011	163:xx:xx	Jun 12th	Power cycle	Request from POD to reduce power consumption, therefore Tracker was switched off and on again

-- GiovanniAmbrosi - 22-Aug-2011

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