



AMSR-E Spun Down on Dec. 2015

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OUTLINE

AMSR-E was spun down to 0 RPM on December 4, 2015.

Time (UT)	Event
05:33:38	ADA violated momentum range of 0.015 Nms and 15 Nms
05:33:46	ISC TMON 41 tripped --> commanded to spin down
05:35:44	Reached 0 RPM

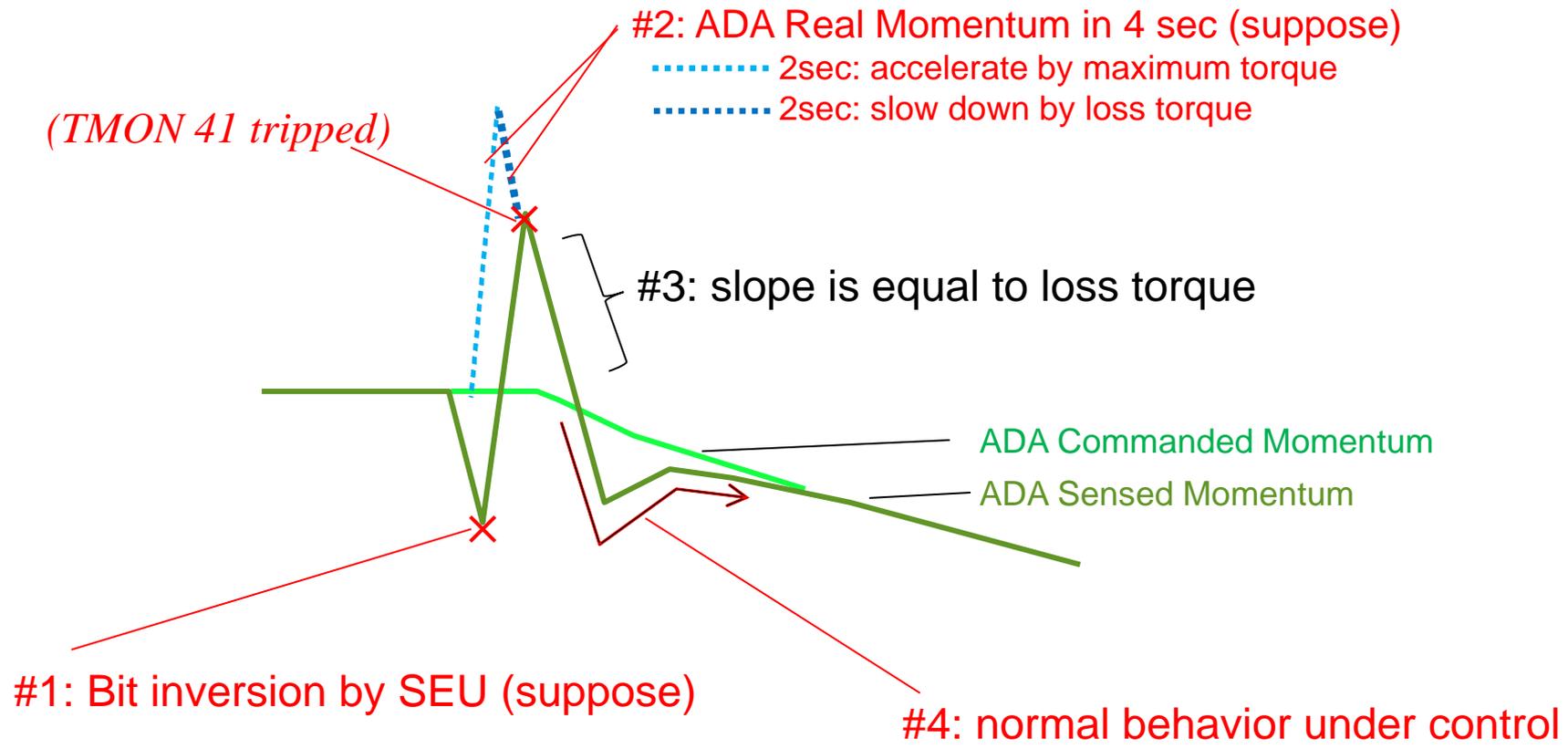


Analysis

[Possible Causes]

- X** #1 : SPC memory failure -> Spun-down should not be controlled correctly. Inconsistent with actual phenomena.
- X** #2 : Temporal anomaly of ADA rotation direction signal -> There is no such an anomaly mode.
- O** #3 : Temporal memory anomaly by SEU -> The behavior of telemetries consistent with actual phenomena.

Presumable behavior at the spin-down



Commanding

- Dec 4 Sequence same as AMR_SLP_TO_SURV
was executed by TMON
→0 RPM (observation continued)
- Dec 9 Conducted AMR_NORM_TO_SLP
→Survival mode
- Mar 3 Conducted AMR_SURV_to_All_off
→All off mode

Direction

AMSR-E Main Reflector is pointing to 109 degrees left from satellite flight direction.

