

SDO HMI Weekly Report

Week of Monday, October 18, 2010 through Sunday, October 24, 2010

Summary

HMI successfully performed their weekly calibrations on Wednesday, October 20th (flatfields, focus sweep), including a leg alignment this week. There was one nominal clock adjustment made on Wednesday and one heater zone adjustment. HMI continues to perform nominally.

Weekly Calibration Results

Wednesday October 20, 2010 @ 11:21 am PST

- 1) Leg alignment (AL1, AL2) = (0,-2), 18:21:30 UT, FSN 12569307
- 2) Obs mode flat field, FTS 3001, 18:24:20 UT, FSN 12569391
- 3) Cal mode flat field, FTS 3002, 18:31:15 UT, FSN 12569615
- 4) Focus Sweep (full), FTS 3003, 18:40:05 UT, FSN 12569900
- 5) Obs mode flat field (2), FTS 3001, 18:46:50 UT, FSN 12570114
- 6) Clock adjustment, from 0x800273 to 0x800274, 18:51:44 UT

No detune today.

Additional Operations

None

Anomalies

None.

Limit violations

None

Clock Information

Date/Time (UT)	HMI wrt S/C (ms)	S/C Time Offset (ms)	HMI wrt GND	S/C or Inst. Adjustment?
10/18/10 @ 18:15	-11.0 ms	0.0 ms	-11 ms	S/C reset to 0
10/20/10 @ 19:00	-13.55 ms	-3.5 ms	-17.05 ms	HMI from 0x800273 to 0x800274

Thermal Adjustments

21-Oct-2010 at 17:54:37 UTC

Author: Emma

Raised heater zone 2 deadband high from 31.0 C to 32.5 C.

Sequencer Changes

None

Date/Time of Change	New Sequence	Notes

S/C Calibrations/Maneuvers

None

Pointing Adjustments

None

Long term Trends

Corrupt Image FSN 469769216 (**0x1C001C000**) occurrences (this week / mission to date):

1. (0/12) No corrupted images this week.

Loads

None

Other

18-Oct-2010 at 21:59:35 UTC

Author: Jesper

A lot of noise in the PZTs since around 1800UT.

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18-Oct-2010 at 22:31:47 UTC

Author: Zoe & Emma

We called the MOC to ask about the noise. The last time we saw this effect was when one of the reaction wheels (RW-3, Ron said) was "hovering" near zero. The same situation started around 18 UT today, with RW-3 approaching zero. After it crosses and moves away, we should see things calm down again.

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19-Oct-2010

Operator: Brett Allard

Reporting Time Frame: 24hours.

Checklist completed at: 04:59:33

PZT Voltages: 4:30UT PZTA has a larger than normal voltage noise signal.

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19-Oct-2010 at 14:14:26 UTC

Author: Jesper

PZTs are noisy again after a pause. Otherwise nothing to report.

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19-Oct-2010

Operator: Emma

Reporting Time Frame: 24hours.

Checklist completed at: 16:25:28

PZT Voltages: More noise in PZTs starting at 12:00 UT. Seems to be back to normal now. RW hovering again?