

**SDO HMI Weekly Report**  
**Week of Monday, June 14, 2010 through Sunday, June 20, 2010**  
**Z. Frank**

Weekly Calibration Results

Wednesday June 16, 2010 @ 11 am PST

- 1) Detune, FTS 3007, 18:08:33 UT, FSN 6766420
- 2) Obs mode flat field, FTS 3001, 18:13:07 UT, FSN 6766565
- 3) Cal mode flat field, FTS 3002, 18:17:36 UT, FSN 6766708
- 4) Focus sweep, FTS 3003, 18:22:03 UT, FSN 6766853
- 5) Obs mode flat field (2), FTS 3001, 18:26:36 UT, FSN 6766996

Additional Operations

Monday, 6/14/2010, Focus sweep following OH adjustment (see below)  
perf hmi\_sq\_one\_shot, FTS 3003, 18:46:45 UT, FSN 6675484

PZT Flatfields

No addition PZT flat fields performed outside of the weekly Calibration

Anomalies?

None

Limit violations?

None

Clock Information

Date/Time	S/C Time Offset	Inst Clock Time	S/C or Inst. Adjustment?
June 14, 2010 @17:37 UT	-5 ms fast	29.7 ms fast wrt SC 35 ms fast wrt G	HMI 0x800270 to 0x80026f
June 15, 2010 @19:51 UT	-6 ms fast	18.3 ms fast wrt SC 24 ms fast wrt G	No change
June 16, 2010 @18:00 UT	0 ms	10.9 ms fast wrt SC 11 ms fast wrt G	No change
June 17, 2010 @18:29 UT	+5 ms slow estimate	-2.6 ms wrt SC 7.6 ms slow wrt G	HMI 0x80026f to 0x800270
June 18, 2010 @16:53 UT	+14.9 ms	-3.4 ms wrt SC 17.5 ms slow wrt G	No change
June 19, 2010 @17:08 UT	0 ms	-22 ms wrt SC 22 ms slow wrt G	SC reset to 0 14:45 UT
June 20, 2010 @16:00 UT	-4 ms fast estimate	-29.8 wrt SC 25.8 ms slow wrt G	No change

Thermal Adjustments

Monday 6/14/2010 Operational heater adjustment:

perf sdo\_oh\_control\_menu  
zone 1, duty cycle 22%, duration 33, 17:30:40 UT  
zone 2, duty cycle 4%, duration 28, 17:32:12 UT  
zone 3, duty cycle 19%, duration 11, 17:33:42 UT

Note: there was some discussion of a rise in the OBC oscillator temperature. J. Serafin calculated the rise at 0.1 C per day from 6/14-6/17.

Sequencer Changes

None: HMI continues to run FTS 1001 at priority 7 and 2001 at priority 5

Date/Time of Change	New Sequence	Notes
NA		

S/C Calibrations/Maneuvers

RW 1 zero crossing 6/14/2010 at 08 UT and 15:30 UT. Evident in HMI and AIA PZT plots.

RW 4 zero crossing 6/18/2010 at 17:15 UT. Evident in HMI and AIA PZT plots.

Pointing Adjustments

None

Long term Trends

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

- 1) 1/5 Corrupt image at 2010-06-20 23:42:26 UT

Loads

None