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Mauna Loa Solar Observatory Observer's Log  
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Wed Jul 26 16:28:27 GMT 2006

Year: 06 Doy: 207

Observer: yasukawa

WEATHER COMMENT: Wed Jul 26 16:28:47 GMT 2006

Clear, SW wind 5 mph, temp 38 F.

\_\_\_\_end\_\_\_\_

Wed Jul 26 16:38:23 GMT 2006 CHIP Start Patrol

Wed Jul 26 16:38:28 GMT 2006 PICS Start Patrol

SBM COMMENT: Wed Jul 26 16:39:54 GMT 2006

Observing

\_\_\_\_end\_\_\_\_

PSPT COMMENT: Wed Jul 26 16:40:03 GMT 2006

Starting up.

\_\_\_\_end\_\_\_\_

\*\*MKIV PROBLEM\*\* : Wed Jul 26 16:52:18 GMT 2006

Barrel completely nonresponsive to either akamai commands or manual commands requested at gui.

\_\_\_\_end\_\_\_\_

Wed Jul 26 16:53:12 GMT 2006 MKIV Start Patrol

PSPT COMMENT: Wed Jul 26 16:54:51 GMT 2006

Observing.

\_\_\_\_end\_\_\_\_

Wed Jul 26 17:26:01 GMT 2006 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Wed Jul 26 17:26:08 GMT 2006

Barrel started turning "spontaneously" while I was attending to something else. It was running at a slow (30) rate. Went to 176 and stopped.

Started Patrol.

\_\_\_\_end\_\_\_\_

\*\*PSPT PROBLEM\*\* : Wed Jul 26 17:31:45 GMT 2006

Crash at 1714 UT, k/r.

\_\_\_\_end\_\_\_\_

Wed Jul 26 17:55:48 GMT 2006 MKIV End Patrol

Wed Jul 26 18:00:19 GMT 2006 PICS Flat

Wed Jul 26 18:02:39 GMT 2006 PICS End Flat

Wed Jul 26 18:02:46 GMT 2006 CHIP LSD

Wed Jul 26 18:02:52 GMT 2006 PICS ReStart Patrol

Wed Jul 26 18:04:48 GMT 2006 CHIP End LSD

Wed Jul 26 18:04:57 GMT 2006 CHIP BiasLSD

Wed Jul 26 18:05:39 GMT 2006 CHIP End BiasLSD

Wed Jul 26 18:05:47 GMT 2006 CHIP Bias

Wed Jul 26 18:06:28 GMT 2006 CHIP End Bias

Wed Jul 26 18:06:36 GMT 2006 CHIP ReStart Patrol

Wed Jul 26 18:16:33 GMT 2006 MKIV End Cal

Wed Jul 26 18:16:39 GMT 2006 MKIV Start Patrol

GONG COMMENT: Wed Jul 26 18:17:10 GMT 2006

Going down to GONG to do a requested tape change.

\_\_\_\_end\_\_\_\_

GONG COMMENT: Wed Jul 26 18:44:03 GMT 2006

Back from GONG. Previous stored tape indicates wekkly PM wasn't done on Monday. Performed the PM while down there.

\_\_\_\_end\_\_\_\_

\*\*MKIV PROBLEM\*\* : Wed Jul 26 19:28:46 GMT 2006

There was a light leak at the tube ahead of the tilt plates. Connecting tube wasn't secured after tilt problem fix and there was about a 3/8" gap caused by the tube rotating and sliding forward a bit. Secured tube.

\_\_\_\_end\_\_\_\_

Wed Jul 26 19:38:18 GMT 2006 CHIP End Patrol

COMMENT: Wed Jul 26 19:38:29 GMT 2006

Stopping to reconfigure dome shutter.

\_\_\_\_end\_\_\_\_

Wed Jul 26 19:38:26 GMT 2006 PICS End Patrol

Wed Jul 26 19:39:12 GMT 2006 MKIV End Patrol

Wed Jul 26 19:45:04 GMT 2006 MKIV Start Patrol

Wed Jul 26 19:45:23 GMT 2006 CHIP Start Patrol

Wed Jul 26 19:45:34 GMT 2006 PICS Start Patrol

COMMENT: Wed Jul 26 19:46:27 GMT 2006

Declination recentered itself. Repointed and reset.

\_\_\_\_end\_\_\_\_

NICE MK4 IMAGE: 1806

NICE PICSLIMB IMAGE: 1806

NICE PICSDISC IMAGE: 1806

NICE CHIP IMAGE: 1807

\*\*MKIV PROBLEM\*\* : Wed Jul 26 20:42:47 GMT 2006

Stopping MK4 to test startup. May lose guiding while KCC turned off.

\_\_\_\_end\_\_\_\_

Wed Jul 26 20:44:13 GMT 2006 MKIV End Patrol

Wed Jul 26 20:51:10 GMT 2006 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Wed Jul 26 20:52:15 GMT 2006

Idle, then End Day, then Turning off KCC power.

Turning on KCC power after 30 sec., restarting guiding.

Barrel rotated from 359 (stow) to 176 as normal once VxWorks loaded.

Patrol started normally.

Nahenahe was left on and in Run state during this test.

\_\_\_\_end\_\_\_\_

Wed Jul 26 21:00:08 GMT 2006

MkIV

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Wed Jul 26 21:06:02 GMT 2006

Year: 06 Doy: 207

Observer: yasukawa

Wed Jul 26 21:07:05 GMT 2006 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*:  
Wed Jul 26 21:07:22 GMT 2006

Stopped Patrol with End Day. Pau on cmdtool. Exited desktop. Logged out. Turned KCC off. Waited 30 seconds. Turned on KCC. Logged into nahenahe. Akamai displayed "connected" and monitor screen came up and gui displayed. Barrel rotated from 359 to 176 and stopped. Patrol started OK after that when selected. -- no problem.

\_\_\_\_end\_\_\_\_

WEATHER COMMENT: Wed Jul 26 22:27:42 GMT 2006

In scattered orographic clouds.

\_\_\_\_end\_\_\_\_

Wed Jul 26 22:55:05 GMT 2006 CHIP End Patrol

Wed Jul 26 22:55:25 GMT 2006 PICS End Patrol

WEATHER COMMENT: Wed Jul 26 22:55:27 GMT 2006

In thick clouds, pausing instruments.

\_\_\_\_end\_\_\_\_

Wed Jul 26 22:59:01 GMT 2006 MKIV End Patrol

Wed Jul 26 23:13:06 GMT 2006

MkIV

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Mauna Loa Solar Observatory Observer's Log

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Wed Jul 26 23:19:27 GMT 2006

Year: 06 Doy: 207

Observer: yasukawa

\*\*MKIV PROBLEM\*\*:  
Wed Jul 26 23:20:51 GMT 2006

Tested shutdown and startup again. Did not do "Run" until akamai monitor came up and barrel rotated from 359 to 176 and stopped. Akamai only displayed "connected", VxWorks load scroll did not happen.

\_\_\_\_end\_\_\_\_

Wed Jul 26 23:26:33 GMT 2006 MKIV End Patrol

Wed Jul 26 23:30:00 GMT 2006

MkIV

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Mauna Loa Solar Observatory Observer's Log

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Wed Jul 26 23:32:21 GMT 2006

Year: 06 Doy: 207

Observer: yasukawa

\*\*MKIV PROBLEM\*\*:  
Wed Jul 26 23:37:46 GMT 2006

Turned things off again using nominal shutdown procedure, exited, and logged out.

Turned on KCC, logged in, started "Run" as soon as desktop came up, before akamai loaded completely, as I often do to get things started early.

This time VxWorks dialog scrolled thru the akamai window. Monitor came up with grey slanted stripes as it sometimes does. Reset akamai.

VxWorks dialog again scrolled thru on the akamai window, monitor came up with the correct gui and barrel scanned from 359 to 176. Pretty typical, no stall problems.

\_\_\_\_end\_\_\_\_  
Wed Jul 26 23:44:08 GMT 2006 MKIV Start Patrol  
Wed Jul 26 23:44:27 GMT 2006 CHIP Start Patrol  
Wed Jul 26 23:44:38 GMT 2006 PICS Start Patrol  
WEATHER COMMENT: Wed Jul 26 23:44:55 GMT 2006  
Clouds broke up. Resumed observations.

\_\_\_\_end\_\_\_\_  
\*\*PSPT PROBLEM\*\*: Thu Jul 27 01:53:17 GMT 2006  
Crashed at 0141 UT, k/r.

\_\_\_\_end\_\_\_\_  
\*\*PSPT PROBLEM\*\*: Thu Jul 27 02:20:39 GMT 2006  
Crashed again at 2000 UT. Serial port buffer overflow.  
Shutting down for the day.

\_\_\_\_end\_\_\_\_  
Thu Jul 27 02:27:18 GMT 2006 CHIP End Patrol  
Thu Jul 27 02:27:20 GMT 2006 PICS End Patrol  
Thu Jul 27 02:31:08 GMT 2006 MKIV End Patrol  
\*\*MKIV PROBLEM\*\*: Thu Jul 27 02:29:36 GMT 2006

Midday startup tests went OK.  
Set up scope on access points on signal transformation board (J6) to look at pulses between the counter/controller in the KCC and the tranceivers in the STM box on the spar. If the barrel doesn't run in the morning, I'd like to see if the KCC is still trying to send pulses up to the barrel. If it is, the problem may be upstairs in the electronics or the barrel may be in need of lubrication in its bearings. If there are no pulses, then the problem may be in the electronics downstairs or in the transfer of the VxWorks or in nahenahe's software.

\_\_\_\_end\_\_\_\_  
\*\*MKIV PROBLEM\*\*: Thu Jul 27 02:41:10 GMT 2006  
So far, I haven't found any consistent procedure or comments that point to a solution in the barrel problem written in the logs.

\_\_\_\_end\_\_\_\_  
Thu Jul 27 02:43:04 GMT 2006  
MkIV

00_01.rawmk4	01_40.rawmk4	18_25.rawmk4	20_05.rawmk4	21_57.rawmk4
00_04.rawmk4	01_43.rawmk4	18_28.rawmk4	20_08.rawmk4	22_00.rawmk4
00_07.rawmk4	01_46.rawmk4	18_31.rawmk4	20_11.rawmk4	22_02.rawmk4
00_10.rawmk4	01_49.rawmk4	18_34.rawmk4	20_14.rawmk4	22_05.rawmk4
00_13.rawmk4	01_52.rawmk4	18_37.rawmk4	20_17.rawmk4	22_08.rawmk4
00_16.rawmk4	01_55.rawmk4	18_40.rawmk4	20_20.rawmk4	22_11.rawmk4
00_19.rawmk4	01_58.rawmk4	18_43.rawmk4	20_23.rawmk4	22_14.rawmk4
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00_25.rawmk4	02_04.rawmk4	18_48.rawmk4	20_29.rawmk4	22_20.rawmk4

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01_30.rawmk4	18_16.rawmk4	19_56.rawmk4	21_48.rawmk4	c17_55.rawmk4
01_34.rawmk4	18_19.rawmk4	19_59.rawmk4	21_51.rawmk4	c18_03.rawmk4
01_37.rawmk4	18_22.rawmk4	20_02.rawmk4	21_54.rawmk4	c18_10.rawmk4