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Mauna Loa Solar Observatory Observer's Log  
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Fri Mar 26 16:48:42 GMT 1999

Year: 99 Doy: 085

Observer: yasukawa

WEATHER COMMENT: Fri Mar 26 16:49:56 GMT 1999

Cool, in thick, extensive cirrus overcast, light southwest breeze.

Cirrus too thick to guide at this time.

\*\*GONG PROBLEM\*\*: Fri Mar 26 16:51:13 GMT 1999

GONG primary exabyte failure, data writing to secondary drive.

Fri Mar 26 16:57:10 GMT 1999 CHIP Startup--Initializing new tape

\*\*CHIP PROBLEM\*\*: Fri Mar 26 17:23:42 GMT 1999

Checked out CHIP temperature controller. Thermocouple resistance was 5.55 k-ohms which was correct for the filter temperature displayed on YCC monitor (39.3 degrees). Voltage to heaters was 9.99 volts. The thermocouple is working OK where the problem was last time -- at the connector on the filter. Apparently, the temperature controller is not cycling off when temperature goes above setpoint.

\*\*CHIP PROBLEM\*\*: Fri Mar 26 18:45:58 GMT 1999

Correct filter temp should be 34.3-34.5 on the monitor, thermistor resistance measured at the sensor input should be around 6.8k-ohms, sensor voltage should be 0.681 VDC, and setpoint should be 0.670 VDC.

Current readings: temp at monitor is 39.3, thermistor resistance is 5.56k-ohms, what the specs say it should be for that temperature, sensor voltage measured at 0.753-0.759 VDC, setpoint measured at 0.556-0.559 VDC. Air temperature at monitor is in range at 22.663 and plate temp at monitor is in range at 21.355.

Turned temperature controller off to watch setpoint and sensor temperature as filter temp rises thru correct temperature when controller is turned back on.

Fri Mar 26 22:25:33 GMT 1999 CHIP ending tape

\*\*CHIP PROBLEM\*\*: Fri Mar 26 22:26:39 GMT 1999

As temperature rose, the setpoint remained fairly stable at around 0.559 volts, a lot lower than it should be, and the sensor voltage dropped as it should have, but at a lot higher voltage than it should be--reading 0.860 as it passed nominal temperature of 34.4 degrees.

Found Meadowlark website and sent email to sales@meadowlark.com (that was the only email address published) requesting they pass the request for assistance on to their technical people. Request contained troubleshooting findings.

COMMENT: Fri Mar 26 22:32:54 GMT 1999

Tapes:

LOWL: L00588 in drive 0

No other observations today.

Fri Mar 26 22:33:57 GMT 1999

MkIII