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Mauna Loa Solar Observatory Observer's Log  
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Wed Nov 6 16:52:53 GMT 2019

Year: 19 Doy: 310

Observer: berkey

WEATHER COMMENT: berkey: Wed Nov 06 17:02:54 GMT 2019

Temp: 45.5f, Humidity: 27%, Pressure: 28.713in, Wind: 4mph from 152degs, Skies: thin cirrus with heavy clouds likey to blow in over the day.

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

GENERAL COMMENT BY berkey: Wed Nov 06 20:45:40 GMT 2019

Slightly tightend the Dec clutch to address Lisa's note yesterday that the DEC clutch is too loose. RA is still tighter than DEC.

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

GENERAL COMMENT BY berkey: Thu Nov 07 00:41:56 GMT 2019

Based on some comments from Rob, another DEC train inspection was performed.

Not sure what happened but I am not unable to reproduce the issue I was seeing last week. Instead of a 1/4" gear train slip at the dec arm, I am not seeing <1mm and I am not even sure I am seeing that because I can't get my face close enough to watch in detail while bumping the spar. I think the only things that have changed since the big moves were seen was a slight balance change in the spar (but this was mostly in RA with very little DEC lever arm) and a change in the DEC clutch tightness.

During this inspection I also had the worm gear box cover off and confirm good connection (no slop) between the gears. I was not able to get the lead screw boot off to inspect coupling leading to the arm, by removing its retaining cover. It feels like the rubber may be just good and stuck to the worm assembly after decades, but I can't get a great look at it so I didn't want to force anything. To be picked back up when we have a second set of hands on the mountain.

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

ONSITE STAFF: berkey