

MSC: recent issues 7xx Hz and LC improvements

Commissioning meeting 26-11-2007





outline

• 7xx Hz

• LC

7xx Hz





Campagna, Marque, Ruggi, Swinkels, Vajente 21:42, Friday 09 November 2007 (19164)



People operating in the towers: Nicola Menzione, Franco Franconi, Maurizio Perciballi, Michele Punturo, Paola Puppo, Piero Rapagnani: **The conterweight screw was glued to overcome the marionette threading damage.**

Note:

the WE marionette was well balanced and a "specific" counterweight was needed

7xx Hz: twin peaks



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((O))

7xx Hz: untightening again ?



34059.3439 : Nov 17 2007 11:27:25 UTC dt:3.2768s nAv:35 879334119.3439 : Nov 17 2007 11:28:25 UTC dt:3.2768s nAv:35

7xx Hz: conclusion



Payload crew (Paola Piero and others) will schedule in agreement with Michele:

possible period: 1st week of Dicember

actions:

- removal of the counterweight through:
- a) preliminar estimation of the actual motor position
- b) use of optical levers to keep the position during the balance.
- if (and only if) the motor full run position is not "enough"*:
 a prism shaped, compact counterweigh, machined upon the optimal weight, specifically measured, will be installed (and the thread fixed from the top).

* \pm 150 urad random jumps that may occur during big mechanical shakes of the suspension.

((O))

LC



ruggi - 20:26, Friday 26 October 2007 (19059)

The AA Error signal was affected by LC corrector (bump at 3 Hz)

The the ITF signal was then worsened at higher frequency (200-300 Hz)



LocalCtrl NI-WI: status in October



ruggi - 20:26, Friday 26 October 2007 (19059)

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LocalCtrl NI-WI: actions in November



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Now negligible effect on AA differential signal at present