

Subject: [Fwd: Re: prism status - FM / BS and CP]
From: Calum Torrie <ctorrie@ligo.caltech.edu>
Date: Thu, 13 May 2010 08:01:14 -0700
To: Kurt Buckland <kbucklan@ligo.caltech.edu>
CC: Norna Robertson <nroberts@ligo.caltech.edu>

Kurt

They are keen for us to see if we can reduce the masked off area at 3 o'clock and 9 o'clock (currently reserved for the prisms) by a factor of 2 at each position in [LIGO-D1000981-v1](#).

Also it turns out the CP and TCP prism is D080750 and not D070033.

Can you take a look at this, we will need to check with Norna the exact vertical position of the prism, although for now I would leave it at the 3 and 9 o'clock position.

Cheers, Calum

----- Original Message -----

Subject: Re: prism status - FM / BS and CP

Date: Thu, 13 May 2010 15:20:31 +0100

From: Mariëlle van Veggel <m.veggel@physics.gla.ac.uk>

To: Calum Torrie <ctorrie@ligo.caltech.edu>

CC: Liam Cunningham <w.cunningham@physics.gla.ac.uk>, Norna Robertson <nroberts@ligo.caltech.edu>, "k.strain" <k.strain@physics.gla.ac.uk>, Angus Bell <a.bell@physics.gla.ac.uk>

References: <4BEB0652.9030202@ligo.caltech.edu> <4BEB124E.2090605@ligo.caltech.edu>

Hi Calum,

In answer to your question:

ERM break-off prisms D080750-01 - material: 316 stainless steel no. off: 36 - have been produced - current status: Mariëlle is checking all of them for dimensions and a random selection on quality of grooves with SEM. Mariëlle is also investigating if they can and should be engraved with their drawing no. and possibly unique serial number (the answer to the latter seems to be NO, but I'll need to verify that). (Parts are very small).

FM/BS break-off prisms:

Primary sapphire prisms D080765-02 - material: sapphire no. off: 24 - have been produced - current status: Mariëlle is checking all of them for dimensions and all on quality of grooves. These prisms will NOT be engraved.

Secondary break-off prisms D0902368-v2 - material: AISI 304 no. off: 24 - have been produced - current status: Mariëlle has checked relevant dimensions and has taken images of a random selection of grooves. I'm still to document these. They do not need unique serial numbers, but Mariëlle is investigating if the drawing number can/should be engraved.

All up to date drawings are on the DCC.

In answer to the gold-coating changes. Liam and I talked about it and don't see a problem with making the

bare patch smaller, if you are sure of the position of the prism.

Inspecting these prisms is an active ongoing job for me. I expect to have the checking (and engraving) done in the next few weeks.

As additional info:

The production of the wire break-off prisms for the main chain penultimate masses is ongoing. I'll check the drawing status.

We are intending to wait with sending these prisms to Bob for class A cleaning until we have received and checked all.

Cheers,

Marielle

Calum Torrie wrote:

To put question into context they are trying to squeeze the masked off area at 3pm and 9pm on the thin TCP (keen to reduce it by a factor of 2)

i.e. [LIGO-D1000981-v1](#)

Cheers, Calum

Calum Torrie wrote:

Guys

Can you give us a status, including up to date drawings, for the prism status - FM / BS and CP?

Cheers, Calum

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