Subject: Re: Vacuum Bake Waiver
From: Dennis Coyne <coyne@ligo.caltech.edu>
Date: 5/18/2012 12:07 PM
To: Gary Traylor <gtraylor@ligo-la.caltech.edu>
CC: Brian O'Reilly <irish@ligo-la.caltech.edu>, Calum Torrie <torrie_c@ligo.caltech.edu>, Norna Robertson <nroberts@ligo.caltech.edu>, Janeen Romie <janeen@ligo-la.caltech.edu>

Gary,
I hereby grant the following waiver:

> *The AOSEM positioning brackets for the PR3 assembly at LLO may be modified (by machining a slot extension) using dry machining. Then these modified parts can cleaned and air baked (per E960022), but without the need for an FTIR.*

All future modification of these brackets for other instances of the HLTS must follow standard vacuum preparation procedures (nominally a vacuum bake with RGA qualification).

Since this requires a modification of a version controlled component, please provide the following information so that we can update the drawing and request both LLO and LHO to make the modifications to the other instances of this part:

- part number
- a red-lined version of the drawing showing the modification required

Thanks

Dennis Coyne
Chief Engineer, Advanced LIGO & LIGO Laboratory
California Institute of Technology
MC 100-36, 1200 E. California Blvd.
Pasadena, CA 91125 USA
Telephone 626.395.2034

On 5/18/2012 10:15 AM, Gary Traylor wrote:

> Dennis,
>
> PR3 his hit a small setback because of AOSEM alignments and EQ stop positions due to a small design flaw. There are slots in the four positioning brackets for mounting the AOSEM asembly at the intermediate level. The parts have already been through a bake load but had to be pulled out for modifications (extending the slot by 0.25"). The mods were done on our milling machine using no lubricant. I was hoping we could

re-clean, FTIR and air bake these parts for use next week. The only available aluminum load was heated this morning so it will be a few days before we could get them in the next load.

The mods we are making will be translated to Derik so he can correct the drawings and notify LHO.

Thanks,

Gary Traylor
Lead Operations Specialist
LIGO Livingston Observatory
11190 LIGO Ln.
Livingston, LA. 70754
Phone: 225-686-3178
Fax: 225-686-7189
Cell: 985-507-4621