

Subject: Re: OMC (onboard) black glass beam dump debonded

From: Dennis Coyne <coyne@ligo.caltech.edu>

Date: 6/8/2016 2:57 PM

To: karai@caltech.edu

CC: Calum Torrie <ctorrie@ligo.caltech.edu>, Janeen Romie <janeen@ligo-la.caltech.edu>, Stuart Aston <saston@ligo-la.caltech.edu>, Adam Mullavey <amullavey@ligo-la.caltech.edu>, Jennie Wright <jennifer.wright@ligo.org>, Gary Traylor <gtraylor@ligo-la.caltech.edu>

E1600180-v1

Waiver for vacuum bake and RGA scan of a bonded repair of a beam dump on the L1 OMC Breadboard Assy, ASSY-D1201439-3

The EP30-2 epoxy bond for a black glass beam dump on the L1 OMC breadboard assembly was found to be de-bonded (see email below). The beam dump will be re-bonded with EP30-2. For the same reasons cited in waiver E1400330, a waiver to not vacuum bake and RGA scan this assembly is hereby granted.

Dennis Coyne

Chief Engineer, LIGO Laboratory

California Institute of Technology

MC 100-36, 1200 E. California Blvd.

Pasadena, CA 91125 USA

Telephone 626.395.2034

<https://ligo.caltech.edu/>

On 6/8/2016 1:33 PM, Koji Arai wrote:

PS. I just called Dennis and got a verbal approval. He will also respond to this email.

Koji

On 2016/8/6 15:23, Koji Arai wrote:

Hi Dennis, Calum and all

We found that one of the black glass beam dumps on the OMC glass bench (breadboard) got debonded during the preparation for reinstallation today.

<https://dcc.ligo.org/LIGO-D1201285>

It is a V-shaped pair of the black glass pieces and bonded to 1" fused silica disk with EP30-2.

This EP30-2 bonding between the disk and the V-shape got debonded.

I wonder if we can get approval of applying additional EP30-2 lines and get waiver for the successive baking.

I had the same issue for the 3rd OMC and got the waiver of additional baking.

That is documented by Dennis in E1400330 (<https://dcc.ligo.org/LIGO-E1400330>).

This time we will apply half amount of EP30-2 in the document.

If we rebond them today or early tomorrow we will probably be able to complete the reinstallation by the end of the week. Otherwise, I also can extend my stay in LLO for another 2-3 business days.

Koji