

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

**Subject:**Re: L0900058-v1 request

**Date:**Fri, 22 Jan 2010 08:59:36 -0800

**From:**John Worden <worden\_j@ligo-wa.caltech.edu>

**To:**Betsy Bland <bland\_b@ligo-wa.caltech.edu>

**CC:**Rai Weiss <weiss@ligo.mit.edu>, Michael Zucker <zucker\_m@ligo.mit.edu>, Fred Raab <raab\_f@ligo-wa.caltech.edu>, Riccardo DeSalvo <desalvo@ligo.caltech.edu>, Dennis Coyne <coyne@ligo.caltech.edu>, "ODell, J (Joe)" <joe.odell@stfc.ac.uk>, Michael Meyer <mmeyer@ligo-la.caltech.edu>

**References:**<4B59CDA8.90708@ligo-wa.caltech.edu>

This document = LIGO-L1000022-v1

Betsy,

>From this email train(below) it looks like we did not get a response from Joe ODell regarding a few questions posed by Mike Zucker. The consensus appears to be that this is not acceptable. I should have followed up and closed out this item - I think shipping them here is the right thing to do. I've added Michael Meyer to the email list as he is our newest VRB member.

John

>From Mike Zucker:

Indeed, my favorite example was a welding vendor who took the trouble to advertise his UHV-quality pure silica blasting beads. We visited the shop; about 6 feet from their only blast cabinet sat some proud employee's ancient--but dazzlingly clean--barbeque grill.

On Mar 30, 2009, at 11:41 AM, Riccardo DeSalvo wrote:

Mike's is a good point, the blasting is forbidden because they embed dirt deep into the material, an then it takes a lot of etching to remove.

More than the question of the beads, there is the question of the blaster chamber. it is often used to take dirt out of surfaces, which may include everything.

The beads fall to the bottom of the chamber and get re-blasted carrying with them any dirt clected at the bottom of the blaster.

To make an example LMA has a dedicated blaster, which is dedicated only to periodically blast away coating accumuulating on their deposition chamber baffles.

Those baffles are UHV before and then they get re-washed before re-using.

If you were to use the blasters for other uses, you would transfer pollution to the baffles.

R

On Mar 30, 2009, at 1:29 AM, Michael Zucker wrote:

Joe-

A few questions:

Can you say where these components would be installed if admitted?

How much surface area is involved?

Were the parts cleaned chemically before blasting?

Were the beads used absolutely new, or recycled?

mike

On Mar 30, 2009, at 1:05 AM, Dennis Coyne wrote:

Please consider this request for waiver:

L0900058-v1, Request for waiver on glass shot blasted parts (BS/FM stay brackets)

Dennis

Betsy Bland wrote:

Hi VRB -

I am currently at RAL and just discovered that one of the BS/FM SUS parts has a glass bead blasted surface finish. RAL sent the following VRB request out (<https://dcc.ligo.org/DocDB/0001/L0900058/001/L0900058-v1.pdf>) back in March of last year regarding this finish, which is logged as still OPEN. As we are drawing near the time when we will need these parts, could you please re-review the request and get back to us with how to proceed with these parts.

Since we cannot rework these parts, we will proceed with shipping them to the States and scrap them there if they need to be remade by RAL. Or, maybe someone has a suggested surface treatment which would make them acceptable? John can then look over them himself at our site if that helps.

Thanks-  
Betsy

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Subject: FW: BS/FM stay brackets (glass shot blasted)

From: <[joe.odell@stfc.ac.uk](mailto:joe.odell@stfc.ac.uk)>

Date: Fri, 22 Jan 2010 15:50:13 -0000

To: <[bland\\_b@ligo-wa.caltech.edu](mailto:bland_b@ligo-wa.caltech.edu)>

To: <[bland\\_b@ligo-wa.caltech.edu](mailto:bland_b@ligo-wa.caltech.edu)>

Joe O'Dell  
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**From:** Dennis Coyne [<mailto:coyne@ligo.caltech.edu>]  
**Sent:** 30 March 2009 06:06  
**To:** John Worden; Rainer Weiss; Mike Zucker; Fred Raab; Riccardo DeSalvo  
**Cc:** ODell, J (Joe); Greenhalgh, RJS (Justin)  
**Subject:** Re: BS/FM stay brackets (glass shot blasted)

Please consider this request for waiver:  
[L0900058-v1](#), Request for waiver on glass shot blasted parts (BS/FM stay brackets)

Dennis

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