

Subject: Re: EP30 heat cure waiver for L1 SR3

From: Janeen Romie <romie_j@ligo-la.caltech.edu>

Date: 1/16/2013 8:13 AM

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

CC: Norna Robertson <nroberts@ligo.caltech.edu>, Gary Traylor <gtraylor@ligo-la.caltech.edu>, Janeen Romie <janeen@ligo-la.caltech.edu>

Hi Dennis,

Derek made an alog entry about the magnet coming off. It is alog 5810, dated yesterday:

"I took a look at the AOSEM brackets on the Intermediate Mass to see why the magnet may have become detached and why the corresponding earthquake stop does not contact the optic. The definite reason for the incorrect placement of the earthquake stop and a possible reason for the magnet becoming detached is that the AOSEM bracket is NOT aligned so that the AOSEM fits over the magnet. If someone tried to move the AOSEM closer to the Intermediate Mass before aligning the AOSEM with the magnet (counter to the assembly/alignment instructions), the AOSEM would have touched the magnet and possibly knocked it off. If the AOSEM was aligned to fit over the magnet, the earthquake stop would contact the Intermediate Mass correctly."

He will update the assembly document to note the importance of this critical detail.
Janeen

On 1/14/2013 6:44 PM, Janeen wrote:

Hi Dennis

We are still working on determining when it came off, and then why. We will get back to you.

Janeen

On Jan 14, 2013, at 6:08 PM, Dennis Coyne<coyne@ligo.caltech.edu> wrote:

Waiver granted.

However, why did the bond fail? I was told that these bonds to metal penultimate masses were strong. Was the bond weak? contaminated? improperly prepared? ... or was it simply impacted in handling/assembly?

Dennis

On 1/14/2013 1:39 PM, Janeen Romie wrote:

Hi Dennis,

The magnet/dumbbell assembly on the lower right of the penultimate mass of SR3 has fallen off. We would like to re-glue it in-situ.

However, due to the assembled state of the suspension, a heat lamp is not a good idea, due to the various materials nearby. We would like a waiver for this tiny bond, .0044 in ².

Thoughts?

Janeen