

**Subject:** can we use the RH former with the broken tip?

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

**Date:** 3/21/2014 10:53 AM

**To:** Mindy Jacobson <mjacobso@ligo.caltech.edu>

**CC:** Betsy Bland <bland\_b@ligo-wa.caltech.edu>, Gregory Grabeel <grabeel\_g@ligo-wa.caltech.edu>, Calum Torrie <torrie\_c@ligo.caltech.edu>

Mindy,

Yes, I agree that we can use the RH coil & former assembly with the broken tip (at the 3 o'clock position), if and only if used as a lower segment RH. I have spoken with Greg and told him of this decision. Please mark up the ICS record for this SN to indicate this as-built discrepancy.

I also think that the RH coil & former assembly with the glass former failed at mid-span can be used, if and only if used as a lower segment RH (with the failure at the 6 o'clock position). Greg has already replaced this coil & former assembly with another, but the broken one can/should be put back into the parts inventory (with an ICS note) to be used as a deep spare part.

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On 3/18/2014 12:04 PM, Mindy Jacobson wrote:

Dennis,

I collected some images together (in the attached file), which describe how these unprecedented breaks would have happened.

And, then I stared at the photo of the shear-off glass tip of the RH element.

... thinking open-mindedly...

How do you feel about us keeping this RH element in circulation and in this same assembly, but only replacing the broken macor part?

After all-

a) this is the lower (ITM-Y) RH, which means that gravity will seat it in the direction opposite of the broken tip.

b) the windings are not disturbed

What do you think?

Mindy