aLIGO Integration Issue and ECR Tracker

Bug 101 - Pinhole transmission in ETM08 and ETM09 (edit) Save Changes Status: CLOSED WONTFIX (edit) Reported: 2013-05-15 16:21 PDT by GariLynn Billingsley (LIGO - Caltech) Product: COC Modified: 2013-05-22 11:51 PDT (History) Component: aLIGO **CC List:** Add me to CC list Version: unspecified 1 user (edit) Platform: Optics Other See Also: Add Bug URLs: Importance: Highest o minor Assigned Peter Fritschel (LIGO - Massachusetts Institute of To: Technology) (edit) Flags: Waiver URL: Depends on: Blocks: Show dependency tree Orig. Est. **Current Est. | Hours Worked Hours Left** %Complete Gain Deadline 0.0 0.0 + 0.00.0 0.0 0.0 (YYYY-MM-DD) Summarize time (including time for bugs blocking this bug) **Attachments** Add an attachment (proposed patch, testcase, etc.) Additional Comments: Status: CLOSED Save Changes Mark as Duplicate Collapse All GariLynn Billingsley (LIGO - Caltech) 2013-05-15 16:21:19 PDT **Description** [reply] [-] **Comments** ~200ppm peak transmission at a radius of 38mm Expand All ETM09 L1-y ~900 ppm peak transmission at a radius of 33mm Probe beam spot size 1mm Comments Back of the envelope estimate is ~sub ppm loss for the arm cavity. The diameter of the pinhole on ETM09 is estimated at 10-20 micrometers based on the divergence of the beam coming out the back. Reports for ETM08 Transmission https://dcc.ligo.org/LIGO-E1300313-v1 Scatter https://dcc.ligo.org/LIGO-E1300311-v1 Reports for ETM09 Transmission https://dcc.ligo.org/LIGO-E1300329-v1 Scatter https://dcc.ligo.org/LIGO-E1300330-v1

Peter Fritschel (LIGO - Massachusetts Institute of Technology) 2013-05- Comment 2 [reply] [-] 17 09:14:54 PDT

Defects accepted.

<u>Peter Fritschel (LIGO - Massachusetts Institute of Technology)</u> 2013-05- <u>Comment 1</u> [reply] [-] 17 09:12:37 PDT

This should become part of the test report data in the DCC for these optics.

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