

Advanced LIGO Engineering Change Request (ECR)

ECR Title: ECR:

DCC No: E12xxxxx-vx

Eliminating the ALS Wavefront Sensors

Date: 9/28/2012

Requester:

Impacted Subsystem(s):

Daniel Sigg

ISC

Description of Proposed Change(s):

Eliminate the WFS in the end stations. Eliminate the WFS heads, the table feedthroughs, the demodulators, the whitening chassis, the ASC demodulator concentrator, the legacy WFS PD interface, the legacy PD concentrator, the associated cabling, the associated channels in the EtherCAT chassis and the associated channels in the front-end computer.

Reason for Change(s):

The ALS wavefront sensors were of little value during the One Arm Test and we propose to eliminate them.

Estimated Cost: \$0k

Schedule Impact Estimate:

None.

Nature of Change (check all that apply):

- Safety
- Correct Hardware
- Correct Documentation

- Improve Hardware
- Improve/clarify Documentation
- Change Interface
- Change Requirement

Importance:

- Desirable for ease of use, maintenance, safety
- Desirable for improved performance, reliability
- Essential for performance, reliability
- Essential for function
- Essential for safety

Urgency:

- no urgency
- desirable by date/event: Feb 2013
- Essential by date/event: _____
- Immediately (ASAP)

Impacted Hardware (select all that apply):

- Repair/modify. List part & SNs: _____
- Scrap & Replace. List part & SNs: TBD
- Installed units? List IFO, part & SNs: _____
- Future units to be built

Impacted Documentation (list all dwgs, design reports, test reports, specifications, etc.):

D1002803, D1001423, D1100670, E1100591, D1100682, D1100683

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Disposition (to be completed by Systems Engineering):

- TRB
- CCB
- Approved

Additional information required. Define:

[Requester re-submits with new information with the same DCC E-number for the ECR but the next version number.]

Concurrence by Project Management: (Acknowledged Electronically in DCC)

Project Systems Engineer: Dennis Coyne

Project Systems Scientist: Peter Fritschel