

# Advanced LIGO Engineering Change Request (ECR)

**ECR Title:** Add faster ASC INMON channels to DAQ

**DCC No:** E15000348-v1

**Date:** Aug 13, 2015

**Requester:**

Betsy Weaver, for Sheila Dwyer

**Impacted Subsystem(s):**

ASC, ISC

**Description of Proposed Change(s):** Currently there are no fast channels for the INMONs of the ASC loops. Commissioners would like to add either A) 512 Hz channels or B) 256 Hz channels to the DAQ for commissioning purposes.

**Reason for Change(s):**

Easier commissioning of ASC system.

**Estimated Cost:** \$0, only time

**Schedule Impact Estimate:** ~1/2 hour during a Tuesday Maintenance period, which includes mods to Simulink model, then computer restart

**Nature of Change (check all that apply):**

- Safety
- Correct Hardware
- Correct Documentation

- Improve Hardware
- Improve Software
- 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: before start of O1
- Essential by date/event: \_\_\_\_\_
- Immediately (ASAP)

**Impacted Hardware (select all that apply):**

- Repair/Modify. List part & SNs: \_\_\_\_\_
- Scrap & Replace. List part & SNs: \_\_\_\_\_
- Installed units? List IFO, part & SNs: \_\_\_\_\_
- Future units to be built

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

**Impacted Software** (list all that apply):

ASC Model

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## **Disposition of the proposed change(s):**

The disposition of this proposed engineering change request is to be completed by Systems Engineering and indicated in the “Notes and Changes” metadata field in the DCC entry for this ECR. The typical dispositions are as follows:

- **Additional Information Required:** in which case the additional information requested is defined. The ECR requester then re-submits the ECR with the new information using the same DCC number for the ECR but with the next version number.
- **Rejected:** in which case the reason(s) for the rejection are to be given
- **Approved**
- **Approved with Caveat(s):** in which case the caveat(s) are listed
- **TRB:** the ECR is referred to an ad-hoc Technical Review Board for further evaluation and recommendation. It is the System Engineer’s (or designee’s) responsibility to organize the TRB. The System Engineer (or designee) then makes a technical decision based on the TRB’s recommendation. Links to the TRB’s documentation (charge, memos, final report, etc.) are to be added to the “Related Documents” field for this ECR.
- **CCB:** a change request for approval of additional funds or schedule impact is to be submitted to the Configuration Control Board. Links to the CCB’s documentation (CR, etc.) are to be added to the “Related Documents” field for this ECR.

## **Concurrence by Project Management:**

Acknowledgement/acceptance/approval of the disposition is to be indicated by the electronic “signature” feature in the DCC entry for this ECR, by one the following personnel:

- Systems Scientist
- Systems Engineer
- Deputy Systems Engineer