

Advanced LIGO Engineering Change Request (ECR)

ECR Title: HEPI script update

DCC No: E1300906-v1

Date: Nov 27, 2013

Requester: Brian Lantz

Impacted Subsystem(s):
SEI/HEPI

Description of Proposed Change(s): create new HPItool2.pl – an updated perl script to replace HPItool. This implements the new CART bias features installed with the HEPI update Nov 2013. It also has useful info for the operator which appears in an xterm window. There is a new MEDM Commands screen which is launched from the HPI overview screen. – see SEI log entry 326: <https://alog.ligo-la.caltech.edu/SEI/index.php?callRep=326>.

Accompanies integration issue 551

Reason for Change(s): Improve the single-button isolate function of HEPI. This will soon (few months) be superseded by the Guardian – but in the meantime it makes HEPI easier to use.

Estimated Cost: \$0

Schedule Impact Estimate: very slight – just an SVN up and some operator training

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: _____
- 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.):

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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