

HAM ISI Preliminary Design Review

- *Design Review Presentations (Wednesday, Oct 8, 2008)*
 - 1. Lantz: [HAM System Overview](#)
 - 2. Kissel: [HAM ISI Preliminary Performance Review](#)
 - 3. O'Reilly: [HAM ISI Very Preliminary Production Plan](#)
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- [T080236-01](#) Single Stage HAM ISI Preliminary Design Review
 - [HAM ISI PDR Charge \(2008-10-02\)](#)
 - [HAM-ISI review committee questions \(2008-10-08\)](#)
 - [HAM-ISI committee questions answered \(2008-24-08\)](#)
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- Associated Documents:

[T080274-00-D](#) eLIGO Plant Comparisons Document

[G080463-00](#) HAM ISI Status Talk (LVC Meeting Sept '08) [pptx](#)

[T080251-00](#) HAM ISI Performance Review

[E070156-00](#) Single Stage HAM FDR -- HPD version

[E070154-00](#) Single Stage HAM Assembly Procedure (Ver. 00)

[E070154-01](#) Single Stage HAM Assembly Procedure (Ver. 01)

[E070154-02](#) Single Stage HAM Assembly Procedure (Ver. 02) - needs safety comments

[E070330-B-D](#) Single Stage HAM Assembly Hazard Analysis

[D070586-A](#) HAM ISI Installation Fixture

[E080053-A](#) HAM ISI Installation Fixture Dimensioning and Specifications

[E080012-01](#) HAM ISI Installation Procedure

[E080187-01](#) HAM ISI Installation Hazard Analysis

[E080166-00](#) HAM Crossbeam Redesign - FEA of Concepts

[E080328-01](#) HAM Crossbeam Redesign - FEA of Final Design

[E080356-01](#) HAM Crossbeam Redesign - Technical Justification

[T070088-00](#) Status Report for the Single Stage HAM ISI in Enhanced and Advanced LIGO, April 2007

[G070475](#) Seismic Isolation Discussions-- Discussion of active seismic isolation for Advanced LIGO, July 2007

[T080001](#) Commissioning of HAM Internal Seismic Isolation for Enhanced LIGO and Advanced LIGO (test of system built at HPD)

[E030180-02](#) Design Requirements for the In-Vacuum Mechanical Elements of the Advanced LIGO Seismic Isolation System of the HAM Chamber

[Single Stage ISI Electronics Overview](#) ([PowerPoint](#) presentation)

Change Lists:

[HAM ISI Change List](#)

[HAM ISI "Gotcha List"](#)

Electronics Information:

[HAM Single-Stage ISI Test Plan](#)

[HAM ISI Electronics Overview](#)- Powerpoint presentation

[HAM ISI Electronics Schematics](#)

[HAM ISI Chassis Schematics](#)

[GS-13 Seismometer Electronics](#)

[T080025](#) Actuator DAC requirements **NEW Oct 22, 2008**

[T080276](#) Sensor ADC requirements **NEW Oct 22, 2008**

[ISI.mdl](#) ISI Simulink Overview

[ISI-OMC.mdl](#) ISI-OMC Simulink Overview

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- Advanced LIGO RODA's for the HAM ISI: '

[M080342](#) RODA on the HEPI Assembly Plan

[M070119](#) RODA on the HAM Optics Table Height

[M040189](#) RODA on the Output Mode Cleaner to be a Monolithic Structure

- Schedule:

[SEI Current Schedule](#) (September 2008)

[T080274-00](#) eLIGO Commissioning Plan (October 2008)

[T080125-00](#) HAM ISI Damping Loop Turn On Procedure

[iLogEntry](#) HAM ISI Steps to Final Optimal Isolation

- Model and Drawing:

[List of Part and Assembly Drawings for HAM ISI Assembly](#) (excel sheet)

[Single Stage HAM Model](#) (E-Assembly)

[D071400](#) HAM Isolation Table Assembly Drawing

- Requirements and Conceptual Design Documents:

[E990303-03](#) Seismic Isolation Subsystem Design Requirements Document

[E010016-00](#) Advanced LIGO Seismic Isolation

[T060075-00](#) HAM Seismic Isolation Requirements

[M060062-00](#) HAM Single Stage Isolation Baseline Option Review Report

- Picture Libraries (For Assembly/Installation): '

[LHO Picture Library](#)

[LLO Picture Library](#)

- Additional Documents:

[E080497-00-D](#) Cleaning Procedure for Magnetic Actuators used in Seismic Isolation

[T080148-00-E](#) Use of PI-2525 Resin with T-9039 Solvent on Vacuum Parts for LIGO

[T080262](#) Cleaning and Assembly Procedure for ISI Sensor Pods

[GS-13 Seismometer Assembly Procedure](#)

[GS-13 Seismometer Inspection Checklist](#)

[G080330](#) HAM ISI- An Introduction for Operators

[HAM6 orientation](#) LHO log entry with sensor/ actuator/ locker definitions