

CALIFORNIA INSTITUTE OF TECHNOLOGY
Laser Interferometer Gravitational Wave Observatory (LIGO) Project

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Refer to: LIGO-M010326-00-P
Date: December 3, 2001

Subject LIGO Change Control Board (CCB) Meeting Minutes - November 20, 2001

Keywords: Change Control, Change Control Board, Civil Construction, Livingston, Contingency Analysis, Account Closeout, Computing

References: CR-010011 Revision D - Adjust LIGO Construction Budgets to Reflect Actual Costs for Completed Tasks as well as REU Expenses, Accounting Adjustments, and 7-LIGO (old work order) costs.
CR-010012 Revision B - WBS 1.4.4.2 Closeout Construction Budgets for Initial Computer Equipment Complement at the Sites.
CR-010013 Revision A - WBS 1.4.3-5 Realign budgets for LIGO Data Analysis and Computing. This is a zero-sum change request.
CR-010014 - WBS 1.1.4 Additional budget to complete Livingston Staging Building.

Attendees included:

B. Barish (tel.) F. Kaufman P. Lindquist F. Raab (tel.)
G. Sanders G. Stapfer (tel.)

Agenda:

A LIGO Change Control Board (CCB) was held on Tuesday, November 20, 2001. The following Change Requests were discussed

Change Request No.	WBS	Description	Submitted By	Date
CR-010011 Rev D	Construction Closeout	Adjust LIGO Construction Budgets to Reflect Actual Costs for Completed Tasks as well as REU Expenses, Accounting Adjustments, and 7-LIGO (old work order) costs.	P. Lindquist	November 12, 2001
CR-010012 Rev B	1.4.4.2	Closeout Construction Budgets for Initial Computer Equipment Complement at the Sites.	P. Lindquist	November 7, 2001

Change Request No.	WBS	Description	Submitted By	Date
CR-010013 Rev A	1.4.3-5	Realign budgets for LIGO Data Analysis and Computing. This is a zero-sum change request.	P. Lindquist	November 7, 2001
CR-010014	1.1.4	Additional budget to complete Livingston Staging Building.	G. Stapfer	November 7, 2001

General Comments

The Change Request Log is attached.

CR-010011 Revision D - Adjust LIGO Construction Budgets to Reflect Actual Costs for Completed Tasks as well as REU Expenses, Accounting Adjustments, and 7-LIGO (old work order) costs.

The effort is complete for a number of Construction accounts, and minor adjustments are required to set budget equal to actual costs. Details are provided in Table 1 of the Change Request. The total required from contingency is \$140,727. **This Change Request is approved and will be funded out of Construction contingency.**

CR-010012 Revision B - WBS 1.4.4.2 Closeout Construction Budgets for Initial Computer Equipment Complement at the Sites.

The proposed changes set budget equal to actual costs for the initial complement of computer equipment at both sites (5N511 and 5N512). The personnel required to discuss this change request were not present. The objective is to assure that high speed network connection expenses are covered, and properly and consistently charged.

Action on this change request is deferred.

CR-010013 Revision A - WBS 1.4.3-5 Realign budgets for LIGO Data Analysis and Computing.

A number of Systems Engineering accounts have been closed, others have been opened, and budgets no longer reflect how costs are being charged. The proposed changes move unused budget to reflect current activity. The changes will facilitate tracking and reporting for remaining Construction project costs. The detail is shown in table 1 of this change request.

This change request is approved. This is a zero-sum change request.

CR-010014 - WBS 1.1.4 Additional budget to complete Livingston Staging Building.

An analysis of the approved budget and approved and proposed field change orders for the Livingston Staging Building is provided in the change request. Additional funding is requested for an

elevator (required for handicapped access), air conditioning for the LIGO Data Analysis System (LDAS), a fire wall and window modification required by the fire marshall, rerouting of the air conditioning in the high bay, a modified overhead door and entry, and landscaping and erosion control. Action on the landscaping and erosion control was deferred since the estimates are not well defined. However, \$20,000 for an FM-200 fire suppression system for the LDAS equipment was added. The total approved is \$179,349.

This change request is approved and will be funded out of Construction contingency.

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Attachments: CR-010011 Revision D - Adjust LIGO Construction Budgets to Reflect Actual Costs for Completed Tasks as well as REU Expenses, Accounting Adjustments, and 7-LIGO (old work order) costs.
CR-010013 Revision A - WBS 1.4.3-5 Realign budgets for LIGO Data Analysis and Computing.
CR-010014 - WBS 1.1.4 Additional budget to complete Livingston Staging Building.
LIGO Change Request Log (pages 28 - 30)

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B. Barish	Chronological File
G. Sanders	Document Control Center