


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

To: Distribution  
From: L. Jones   
Phone: 2970  
Refer to: LIGO-E960115-00-B  
Date: June 8, 1996  
//

Subject: Additional beam tube contract expenditures

The two items listed below were added to beam tube contracts without CCB action, due to the amount of funding involved. This notification is for information only, as the items are already incorporated into the respective contracts. However, there are two issues which should be addressed: where the funding comes from, and whether to reflect these in the beam tube baseline budget. I propose that these issues be discussed, at least in a generic sense, at the next CCB meeting.

1. Air signature testing complexity (Phase 1 contract, Design & QT testing, Change Order #5): \$15.0K was granted CBI in response to their claim for \$60.4K for added work scope; see attached documents.
2. Soft supports for gate valves (Phase 2 contract, Fabrication & Installation, Change Order #3): \$24.8K was added to the contract for CBI to detail, fabricate, and install supports under the termination gate valves; see attached documents.

enclosures:

Letter, Jasnow to Tellalian, Feb. 6, 1996 (LIGO-C960224-00-B), Change Order Request for Data Acquisition  
TIM-010 (LIGO-C960556-00-B), Gate valve soft support

W. Althouse	F. Asiri	R. Bork	M. Coles
D. Coyne	F. Fernandez	R. Fischer	J. Guerrero
E. Jasnow	L. Jones	A. Lazzarini	P. Lindquist
B. Lucas	I. Petrac	F. Raab	R. Savage
D. Shoemaker	R. Spero	G. Stapfer	W. Tyler
R. Vogt	R. Weiss	S. Whitcomb	J. Worden

cc:

B. Barish  
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Chronological File  
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**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
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818-395-2129, Fax 818-304-9834

Chicago Bridge & Iron Technical Services Company  
1501 North Division Street  
Plainfield, IL 60544-8929  
Attention: Marty Tallalian

February 6, 1996  
Refer to: LIGO-C960224-00-B

Subject: Change Order Request for Data Acquisition (P.O. No. PC181520, LIGO-C951080-00-B)

Reference: (1) CBI Letter, dated March 28, 1995  
(2) CBI Letter, dated November 17, 1995  
(3) Caltech Letter, dated January 5, 1996  
(4) Monthly Status Review Meeting held January 8, 1996

Dear Mr. Tallalian:

References (1) and (2) set forth a claim in the amount of \$60,432.00 for work performed by CBI in the areas of air signature testing and data acquisition during the Qualification Test. Reference (3) was the Caltech response rejecting the out-of-scope claim by CBI, but offering an amount of \$15,000.00 as compensation for the unanticipated additional complexity of the data requirements for the air signature task.

This issue was discussed at length during the Reference (4) meeting, and Caltech agreed to review the facts presented for the purpose of either confirming or revising its compensation offer.

Caltech has now completed its review. After an investigation of the facts, Caltech can find no justification for any more compensation than the \$15,000.00 previously offered. The effort performed was clearly within the scope of the contract, and the only issue to be resolved concerned the unanticipated complexity of that effort. It is in compensation of that complexity that Caltech is offering \$15,000.00.

This represents Caltech's final determination of this claim, and a contract Change Order in this amount will be issued to Contract PC185120.

Yours truly,



Edward J. Jasnow  
LIGO Subcontracts Manager

ejj:rt

cc: Document Control Center  
Chronological file

# TECHNICAL INFORMATION MEMORANDUM

California Institute of Technology

TIM - 010

To <u>Lance Buboltz</u>	Contract No. <u>PC181520</u>
Contractor <u>CBI Services, Inc.</u>	Doc. No. <u>LIGO-C960556-00-B</u>

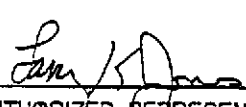
PURPOSE <input checked="" type="checkbox"/> Response to RFI/Needs List	<input checked="" type="checkbox"/> Clarification	<input type="checkbox"/> Recommendation
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**RFI #6: Gate valve soft support**

**Response:** Drawing LIGO-D960051 has been completed (attached); direction to detail, subcontract/fabricate, and install this soft support will be included with contract change order no. 3, currently being processed. This drawing includes installation guidelines.

**Point of information:** it is permissible to drill through reinforcing bars when installing beam tube supports or termination anchors.

The Contractor acknowledges receipt by signing and dating below, and returning to Caltech.

<p>SIGNED</p> <div style="text-align: center;">   <hr style="width: 80%; margin: 0 auto;"/> </div> <p style="text-align: center;">AUTHORIZED REPRESENTATIVE</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;"> <p><u>Larry Jones</u></p> <hr style="width: 80%; margin: 0 auto;"/> <p>PRINT NAME</p> </div> <div style="text-align: center;"> <p><u>3-15-96</u></p> <hr style="width: 80%; margin: 0 auto;"/> <p>DATE</p> </div> </div> <p style="text-align: center;">Tech. Mgr., Beam Tube Contract</p> <hr style="width: 80%; margin: 0 auto;"/> <p style="text-align: center;">TITLE</p> <p style="text-align: center;">CALIFORNIA INSTITUTE OF TECHNOLOGY</p>	<p>THE CONTRACTOR HAS RECEIVED THIS TECHNICAL INFORMATION MEMORANDUM</p> <p>SIGNED</p> <div style="text-align: center;"> <hr style="width: 80%; margin: 0 auto;"/>  <hr style="width: 80%; margin: 0 auto;"/> </div> <p style="text-align: center;">AUTHORIZED REPRESENTATIVE</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;"> <hr style="width: 80%; margin: 0 auto;"/> <p>PRINT NAME</p> </div> <div style="text-align: center;"> <hr style="width: 80%; margin: 0 auto;"/> <p>DATE</p> </div> </div> <hr style="width: 80%; margin: 0 auto;"/> <p style="text-align: center;">TITLE</p> <p style="text-align: center;">CONTRACTOR</p>
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