



Statement of Work Fabrication of H2 Electronics Building for Advanced LIGO

The following documents are incorporated into and made a part this purchase order. Click on the following LIGO Document Control Center (DCC) links to access these documents or go on line to the LIGO Public DCC at <https://dcc.ligo.org/> to access the DCC#.

1.0 Terms:

<u>DCC #</u>	<u>Description</u>
C080185-v1	Laser Interferometer Gravitational Wave Observatory (LIGO) Commercial Items or Services Contract General Provisions California Institute of Technology "Institute", LIGO Rev 11/12/08
F0810001-v4	Technical Direction Memorandum.

2.0 Quality Control:

<u>DCC #</u>	<u>Description</u>
Q0900001-v4	Advanced LIGO Supplier Quality Requirements, dated 2/10/10, describes following contractor/supplier QA/QC actions for this procurement:
<input type="checkbox"/> 3.1 Pre-Award Inspection	<input type="checkbox"/> 3.9 Discrepant Material Storage
<input checked="" type="checkbox"/> 3.2 Supplier In Process Quality Control	<input type="checkbox"/> 3.10 Quality Records
<input checked="" type="checkbox"/> 3.3 In Process Inspection	<input type="checkbox"/> 3.11 Drawing and Specification Change Control
<input checked="" type="checkbox"/> 3.4 Pre-Ship Inspection	<input type="checkbox"/> 3.12 Welding Certification
<input type="checkbox"/> 3.5 Receiving Inspection	<input type="checkbox"/> 3.13 End Item Data Package (including Certifications of Compliance)
<input type="checkbox"/> 3.6 Discrepant Material	<input type="checkbox"/> 4.1 Design Verification
<input type="checkbox"/> 3.7 Material Review Action	<input type="checkbox"/> 4.2 Raw Material Procurement
<input type="checkbox"/> 3.8 Material Review Actions at Contractor	<input type="checkbox"/> 4.3 Traceability of Materials
	<input type="checkbox"/> 4.4 Calibration Program
	<input type="checkbox"/> 4.5 Critical Interface
	<input type="checkbox"/> 4.6 Cleanliness
	<input type="checkbox"/> 4.7 Packaging
	<input type="checkbox"/> 4.8 Storage
	<input type="checkbox"/> 4.9 Transport
	<input type="checkbox"/> 4.10 Customs

For the above list the Supplier shall: 1) Identify the corresponding sections/paragraphs in their existing QA/QC system 2) meet or exceed the design requirements contained in the attached engineering documents for each area called out.

LIGO prefers to utilize the vendors existing QA/QC programs to the fullest extent possible consistent with the LIGO QA and QC requirements. All bidders are requested to submit a written description/plan of their existing QA/QC system with their quotes. The bidder must also submit QA/QC plans for managing subcontractor work and materials.

In the event that a prospective contractor lacks an existing quality system, the contractor/vendor shall develop and implement a quality assurance program in compliance with requirements negotiated at contract/PO award.

3.0 End Item Data Package:

At the time of delivery of the parts, the Supplier shall also provide the following data, as a minimum:

- Any as-built modifications (with approval of the LIGO Contracting Officer) as mark-ups to the drawings

4.0 Included Documents:

<u>DCC #</u>	<u>Description</u>
D1003017-v1	H2 Building Electrical Plan
D1003016-v1	H2 Building Floor Plan

5.0 Scope:

This SOW is for the design, fabrication, deliver, and install of the H2 Electronics building at the LIGO Hanford facility. Included is an option to install vinyl flooring. This needs to be priced as an option.

6.0 Delivery / Install Requirements:

The delivery / install will be at the LIGO Hanford Observatory address listed below. The contractor has responsibility for all items until install and acceptance is complete.

Install will be complete sixty (60) days after receipt of order. If this date cannot be met, submit an alternate schedule for consideration.

Shipping Location:

LIGO Hanford Observatory (LHO)
Attn: John Worden
127124 North Route 10
Richland, WA 99354

7.0 Manufacturing:

All framing shall be of steel construction. The building shall meet all requirements as specified on the attached drawings.

Optional vinyl flooring shall be commercial grade Forbo Forza or equivalent.