



Statement of Work H2 Building Air Conditioning

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:
3.1 Pre-Award Inspection	3.9 Discrepant Material Storage
3.2 Supplier In Process Quality Control	3.10 Quality Records
<input checked="" type="checkbox"/> 3.3 In Process Inspection	3.11 Drawing and Specification Change Control
3.4 Pre-Ship Inspection	3.12 Welding Certification
3.5 Receiving Inspection	<input checked="" type="checkbox"/> 3.13 End Item Data Package (including Certifications of Compliance)
3.6 Discrepant Material	4.1 Design Verification
3.7 Material Review Action	4.2 Raw Material Procurement
3.8 Material Review Actions at Contractor	4.3 Traceability of Materials
	4.4 Calibration Program
	4.5 Critical Interface
	<input checked="" type="checkbox"/> 4.6 Cleanliness
	<input checked="" type="checkbox"/> 4.7 Packaging
	4.8 Storage
	4.9 Transport
	4.10 Customs

For the above checked items the Supplier shall: 1) Identify the corresponding sections/paragraphs in their existing QA/QC system 2) or describe in the bid response how these items will be performed or supplied. LIGO shall be notified if the vendor intends to use any subcontractor on this job.

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
 - Owners manuals, operating manuals and installation manuals for all equipment.

4.0 Included Documents:

LIGO DCC #	Description
D1100814-v1	LHO H2 Electronics BLDG HVAC PLAN

5.0 Scope:

This SOW is for the supply and installation of Ductless Air Conditioning at the H2 Electronics building located at LIGO Hanford (LHO). Equipment and piping is specified in the drawing listed above.

All equipment shall be mounted on spring isolators or neoprene rubber hangers. Outdoor units shall be on mounts designed for 1" of deflection or 3 Hz of isolation. If possible indoor mounts shall also be designed for 3Hz isolation. If this is not feasible LIGO will consider alternates.

Copper line sets shall be continuous using flare or compression fittings only. No braze joints are to be used unless recommended by the manufacturer and approved by LIGO. Note that the refrigerant lines are buried between the equipment pad and the building.

The existing concrete equipment pad shall be enlarged to accommodate the outdoor units as part of this contract.

6.0 Delivery Schedule:

LIGO desires this equipment be installed as soon as possible.

Installation Location:

These items will be installed at:

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

7.0 Bid evaluation:

The vendor selection will be based on price and delivery.