

Statement of Work aLIGO Laser Area Enclosure

The following documents are incorporated into and made a part this Statement of Work (SOW). 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#.

L.0 '	Terms:						
<u>1</u>	DCC #			<u>Description</u>			
<u>C080</u>	0185-v1		act Ge	Gravitational Wave Observa eneral Provisions California I	•	The state of the s	
F081	10001-v4	Technical Dire	ction l	Memorandum.			
2.0	Quality C	Control:					
QA/QC plan for each of the DCC#			g sections/paragraphs in their existing QA/QC system or proposed ne boxes checked in the table below. **Description** O Supplier Quality Requirements, dated 2/10/10, describes following.				
<u> </u>	00001 71	contractor/supp	lier Q	A/QC actions for this procure	ment:		
	3.1 Pre-Aw	ard Inspection		3.9 Discrepant Material Storage		4.4 Calibration Program	
\boxtimes	3.2 Supplies Quality	r In Process ty Control	\boxtimes	3.10 Quality Records		4.5 Critical Interface	
	3.3 In Proc	ess Inspection	\boxtimes	3.11 Drawing and Specification Change Control	\boxtimes	4.6 Cleanliness	
	3.4 Pre-Ship Inspection			3.12 Welding Certification		4.7 Packaging	
	3.5 Receiving Inspection		\boxtimes	3.13 End Item Data Package (including Certifications of Compliance)		4.8 Storage	
	3.6 Discrep	ant Material	\boxtimes	4.1 Design Verification	\boxtimes	4.9 Transport	

3.0 End Item Data Package:

3.7 Material Review Action

3.8 Material Review Actions

at Contractor

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

- o Clean room performance assessment including air flow rates and particulate levels in both "Service Mode" and "Science mode."
- Results of measurements of acoustic attenuation in the Laser Room when operating in "Science Mode"

4.2 Raw Material Procurement

4.3 Traceability of Materials

o As-built design and fabrication drawings including electrical

4.10 Customs

4.0 Included Documents:

<u>DCC #</u>	<u>Description</u>
C1000392-v3	PSL Laser Area Enclosure Specifications, Requirements, and Design Considerations
D1000735-v2	Sketch of Laser Area Enclosure room layouts

5.0 Scope:

This SOW is for the design, fabrication, and performance testing of three Laser Area Enclosures consisting of Class 1000 clean room facilities for the aLIGO lasers.

6.0 Quantity Required:

2 ea.	LIGO Hanford Observatory, Richland, WA
1 ea.	LIGO Livingston Observatory, Livingston, LA