



LIGO LABORATORY
California Institute of Technology
1200 E. California Blvd.
Pasadena, CA 91125

Statement of Work

Signal Recycling Mirror Coating 33%

C1600914-v1

1 Scope

Provide all materials to coat four (4) Signal Recycling Mirrors (SRM.) Caltech will provide four substrates, shipping containers and shipping services.

2 Document Access

Many supplemental documents and specifications are incorporated into and made a part this Statement of Work. Click on the document links to access these documents from the LIGO Document Control Center (DCC) or go on line to the LIGO Public DCC at <https://dcc.ligo.org/> to access the DCC#. There is no login required for public access.

3 Commercial Terms and Applicable LIGO Specifications:

Note: The documents listed below are invoked for this Statement of Work and comprise additional requirements, which are integral to this Statement of Work.

- [LIGO-C080185-v1](#) LIGO Commercial Items or Services Contract General Provisions
- [LIGO-Q0900001-v5](#) Advanced LIGO Supplier Quality Requirements
- [LIGO-Q1100003-v1](#) Acceptable Quality Level (AQL) for Inspection of LIGO Components

4 Quality System:

Referring to the above referenced LIGO Specification Q0900001, Suppliers should include a copy of their current ISO 9001, AS9100, or TS16949 certification in their bid package. Suppliers lacking current certification should send a copy of their Quality Manual with their bid package.

5 Parts/Assemblies to be manufactured, Quantity Required, and Inspection requirements:

Note: refer to Section 8.0 for delivery schedule and location

Coat four (4) per "Coated Substrate, aLIGO Signal Recycling Mirror, 33% T" linked at [LIGO-E1600202-v2](#)

A description of the Caltech supplied substrates is found at [LIGO-D0901174](#).

Inspection is 100% per the specification, AQL 1.

Note: refer to [LIGO-Q1100003-v1](#) for the AQL table.

6 Manufacturing:

6.1 Requirements:

Suppliers must refer to the LIGO Specifications referenced in Section 3 for additional, and in some cases, non-industry standard requirements.

6.2 Sub-Contracted Work:

LIGO expects that at least 2/3 (by dollar value) of the contracted work be performed by the Supplier named on the Purchase Order. The Supplier shall be responsible for all sub-contracted work.

6.3 Precedence:

The drawings typically represent the finished part as needed for use in service. There may be requirements on the drawing that are specifically defined as not the responsibility of the supplier in this SOW. Suppliers should always contact a LIGO representative to resolve any discrepancies or uncertainties in the documentation or instructions.

6.4 Exclusions:

None

7 End Item Data Package:

Before delivery of the parts, the Supplier shall provide the following data, as a minimum:

- Any as-built modifications (with approval of the LIGO Contracting Officer) as mark-ups to the specification.
- Heat Treat and/or Stress Relief certifications, if applicable.
- Inspection for the number of parts specified per the AQL number and referenced in the AQL table LIGO-Q1100003-v1 and any other inspection requirements detailed in Section 5 of this SOW.
- Certificate of compliance for each part number stating conformance to contract and specification requirements.
- Data explicitly required as deliverable by the specification.

8 Delivery Requirements:

8.1 Shipping Containers and Packaging:

Caltech will supply shipping containers and transportation, which protect these parts from damage from the transportation environment (weather, handling, accidents, etc.).

8.2 Shipping Destination(s):

The deliveries are FOB at the contractor facility. Caltech will be responsible for shipping the CFM from the Contractor's facility and delivering to Caltech DDP Los Angeles, USA, Incoterms 2000

8.3 Delivery Schedule:

- Staged delivery is acceptable, early delivery is advantageous.
- First part delivery by the end October 2016.
- Following parts delivered at a minimum rate of one per month.