



## NLCTA-Note #28.1

November 8, 1994

**Subject:** Mechanical Parts Fabrication

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All mechanical parts for the Test Accelerator should be made from formally released drawings. Drawings should use title block conventions and numbers as outlined in NLCTA Note#4 and require signatures as defined in NLCTA Note#6. Drawings produced by engineers, as opposed to designers using Intergraph, should be submitted either to the NLCTA Design Supervisor, or the Design Supervisor in the requesters Department. The Design Supervisors will have the drawings checked, print them on vellum, request signatures and send the drawings to SLAC Document Control for release. When submitting drawings to the NLCTA Design Group, the attached Design Request Form\* should be filled out and submitted with sketches. R&D components are exempt from the above procedure.

With the exception of klystron components, all mechanical parts on the development path leading to the Test Accelerator should be built by filling out the attached Fabrication Request Form\* and submitting it to the NLCTA Manufacturing Engineer and Quality Assurance Officer, L. Godshall. Mechanical parts include:

- vacuum components
- magnets
- mechanical supports
- beamline devices
- RF hardware such as mode converters, magic Tee's, etc.
- accelerator structures
- materials.

When fabricating Test Accelerator components, Godshall's responsibility is to assemble a print package, compile a traveler, coordinate the part's fabrication with the appropriate SLAC shop or an outside vendor if required and publish a status sheet documenting a part's progress. He will handle all problems that arise during manufacturing and deliver the finished part to the Test Accelerator installation group. In this regard, Godshall is acting as coordinator for the responsible engineer. Oversight and ultimate responsibility for the part remains with the responsible engineer and the system physicist. R&D parts may be handled less formally.

\*Can be found in NLCTA Public Folder on Mary's Mac in zone AE1.

# NLCTA DOCUMENTATION REQUEST\*

Engineer: \_\_\_\_\_

Ext: \_\_\_\_\_

Date: \_\_\_\_\_

Date Required: \_\_\_\_\_

1. Work order number: \_\_\_\_\_

2. Sub-system name:

- |                                   |                          |
|-----------------------------------|--------------------------|
| SLED II Pulse Compression         | <input type="checkbox"/> |
| RF Waveguide & Power Transmission | <input type="checkbox"/> |
| Accelerator Sections              | <input type="checkbox"/> |
| Microwave Feeds                   | <input type="checkbox"/> |
| RF Loads                          | <input type="checkbox"/> |
| Pre-Buncher Cavities              | <input type="checkbox"/> |
| RF Beam Instrumentation           | <input type="checkbox"/> |
| Other _____                       | <input type="checkbox"/> |

3. Part name: \_\_\_\_\_

4. Are sketches attached?

Yes

No

4. Description of part:

\*Return to L.Godshall, MS12

# NLCTA FABRICATION REQUEST\*

Engineer: \_\_\_\_\_ Ext: \_\_\_\_\_  
Date: \_\_\_\_\_ Date Required: \_\_\_\_\_

1. Work order number: \_\_\_\_\_

2. Is this an:

(a) Test Accelerator part?

(b) Prototype Test Accelerator part?

(c) R&D part?

3. Sub-system name:

SLED II Pulse Compression	<input type="checkbox"/>
RF Waveguide & Power Transmission	<input type="checkbox"/>
Accelerator Sections	<input type="checkbox"/>
Microwave Feeds	<input type="checkbox"/>
RF Loads	<input type="checkbox"/>
Pre-Buncher Cavities	<input type="checkbox"/>
RF Beam Instrumentation	<input type="checkbox"/>
Other _____	<input type="checkbox"/>

4. Part name: \_\_\_\_\_

5. Number of parts required: \_\_\_\_\_

6. List specifications or tests requiring check-off on traveler.

\*Return to L.Godshall, MS12