GlueX-doc-1xxx

01-October-2010

C. A. Meyer

**CDC Construction Status:**

Phase one of the CDC construction results in the chamber frame and inner shell assembled and mounted on the construction mandrill. This task about 65% done, with all parts accepted and ready to be assembled as soon as final glue checks are completed.

The following table lists the parts that are needed during the first two phases of construction of the CDC. Original estimates for delivery of parts (inner shell, straws and plastic donuts/feedthrus) were early be several weeks.

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| --- | --- | --- | --- |
| Part | Date at CMU | Status | Ready to Use |
| Al. Donuts | 1-Apr-2010 | Checked and cleaned | 6/20/10 |
| Al. Feedthrus | 1-Apr-2010 | Checked and cleaned | 6/20/10 |
| Plastic Donuts | October | Check and clean | ? |
| Plastic Feedthrus | October | Check and clean | ? |
| Pin holders | October | Check and clean | ? |
| Crimp pins | 7-June-2010 | Checked and in clean storage. | 6/15/10 |
| Al. Endplate | 1-May-2010 | Reamed, cleaned and ready. | 7/10/10 |
| Cfib. Endplate | 1-May-2010 | Reamed, cleaned and ready. | 6/22/10 |
| Support Rods | 1-May-2010 | Installed | 6/22/10 |
| Straws | 23-Sept-2010 | 1900 arrived, 25% checked | 10/10/10 |
| Straws | 29-July-2010 | 250 Sample Checked & Accepted | (250) now |
| Inner Shell (good)  Inner Shell (test) | 15-July-2010  20-July-2010 | Cleaned, finished end  Glue tests completed | 7/15/10  8/15/10 |
| Stringing Mandrill | Made at CMU | Finished, cleaned | 7/10/10 |
| Frame Bolts | 10-Sept.-2010 | Installed | 10/15/10 |
| Spacer Rods | Made at CMU | Installed | 10/15/10 |
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As of 01 October, the CDC frame has been fully assembled on the mandrill and we believe that the endplates are aligned. We are awaiting a final survey check after moving the frame before gluing the inner shell into the frame. The gluing procedure for the inner shell has been established and glue ports drilled through the shell. It needs to be carried out over several days and the glue needs to cure for several days after that.

As of October 1, 2010 we are still waiting for the delivery of the following parts:

1. 2000 additional straw tubes (2200 are at CMU)
2. Plastic donuts (4000 pieces)
3. Plastic feedthrus (4000 pieces)
4. Plastic Pin-holders (8000 pieces)

The plastic parts will need to be checked and cleaned before assembly can start. Our plan is to take about 1 week to get a jump on the cleaning and then do the remainder in parallel with the start of assembly.

CMU supplied manpower on the project:

Project Scientist: Naomi Jarvis

Curtis Meyer

Construction Manager: Gary Wilkin

Manpower billed to the project:

Technician: Amy Woodwell (since June 1)

Kaitlin Mueller (since August 15 ).

Undergraduate Students: Tom Charley (100%) (May 15 to on July 30).

Devin McGuire (60%) (June 1 to June 30)