

GlueX-doc-1xxx
 01-November-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 by several weeks.

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/ clean (arrived 11/2)	5% on 11/5
Plastic Feedthrus	October	Check/clean (arrived 11/2)	5% on 11/5
Pin holders	October	Check/clean (arrived 11/2)	?
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, 100% checked	10/20/10
Straws	29-July-2010	250 Sample Checked & Accepted	(250) now
Inner Shell (good)	15-July-2010	Cleaned, finished end	7/15/10
Inner Shell (test)	20-July-2010	Glue tests completed	8/15/10
Installed	20-Sept-2010	Installed	9/20/10
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

As of 01 November the CDC frame has been fully assembled on the mandrill and the endplates are aligned to within 2 mils. The chamber is in its vertical stringing position and ready to install straws. The final installation and gluing procedures need their final optimization before full-scale installation can start.

As of November 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 (3800 pieces) – arrived 11/2
3. Plastic feedthrus (3800 pieces) – arrived 11/2
4. Plastic Pin-holders 7800 pieces) – arrived 11/2

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. Students have been hired to start full-scale checking of the new parts starting 11/5/10.

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)