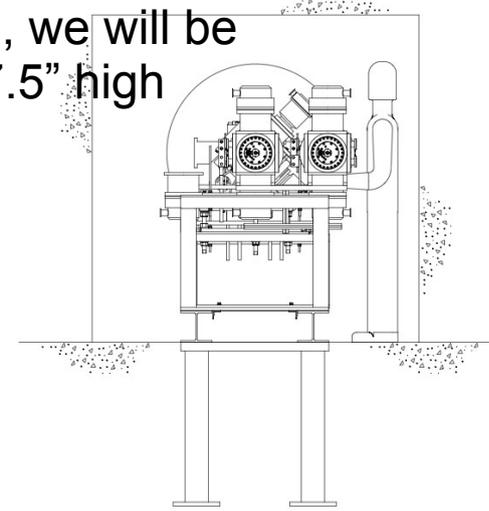
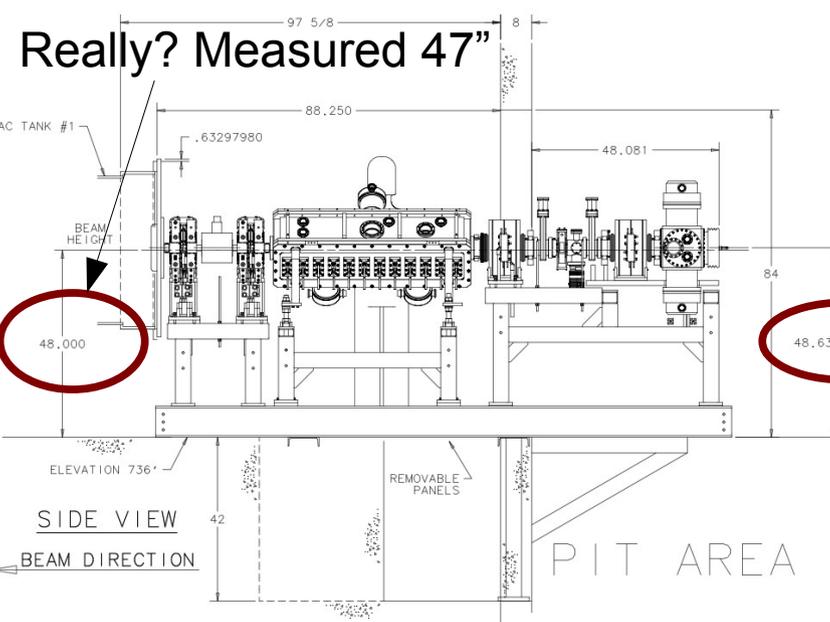
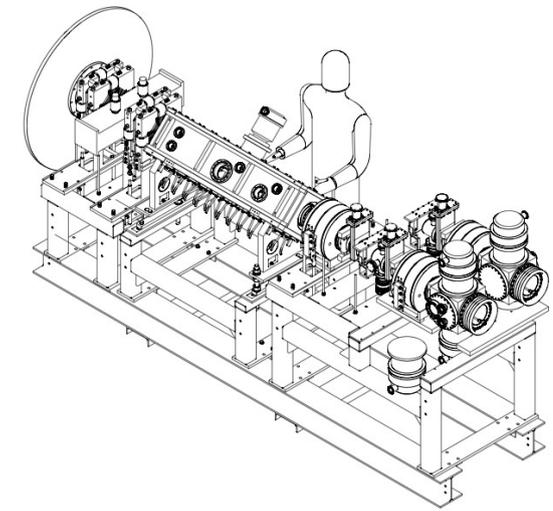
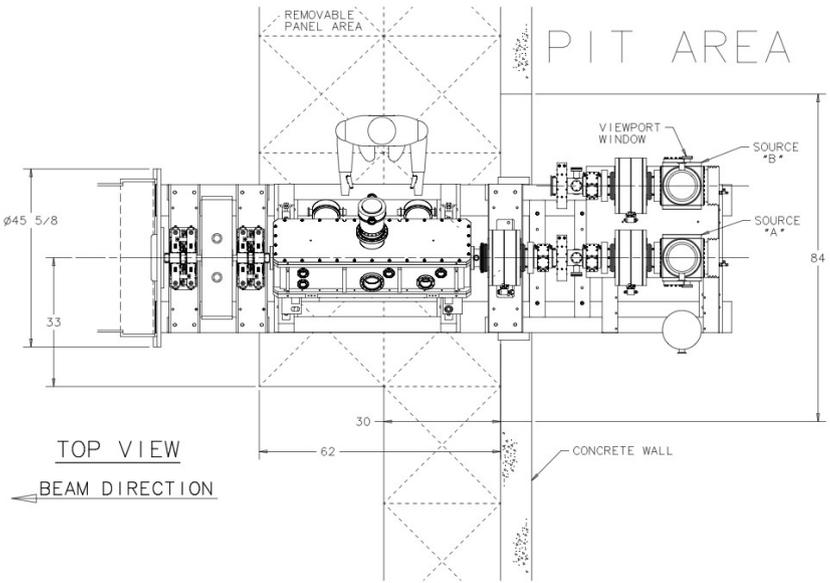


# Pre-injector Upgrade Updates (09 May 2012 – 05 Jul 2012)

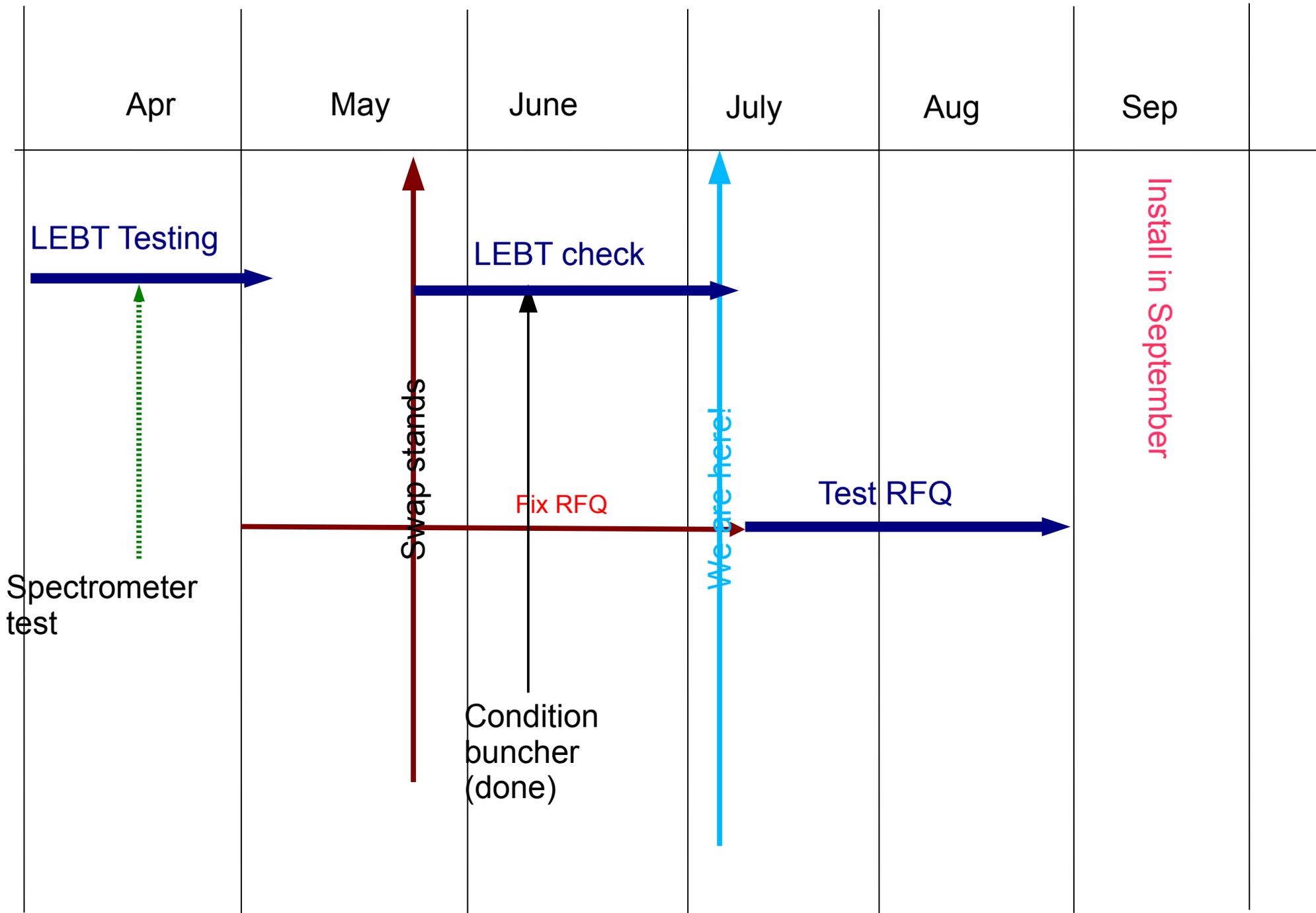
C.Y. Tan  
05 Jul 2012

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



PREACCELERATOR  
PRELIMINARY  
LAYOUT  
APRIL 27, 2011

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	
+	+	+	DRAWN	
			CHECKED	
			APPROVED	
1. BREAK ALL SHARP EDGES			USED ON	
2. DO NOT SCALE DRAWING			MATERIAL	
3. DIMENSIONS BASED UPON				
4. MKV, ALL MKV SURFACES				
5. DRAWING UNITS: U.S. INCH				
<b>FERMI NATIONAL ACCELERATOR LABORATORY</b> UNITED STATES DEPARTMENT OF ENERGY				
SCALE	DRAWING NUMBER		SHEET	REV
			1 OF 1	
CREATED WITH :			GROUP :	



Apr

May

June

July

Aug

Sep

LEBT Testing

LEBT check

Test RFQ

Install in September

Spectrometer test

Swap stands

Condition buncher (done)

Fix RFQ

We are here!

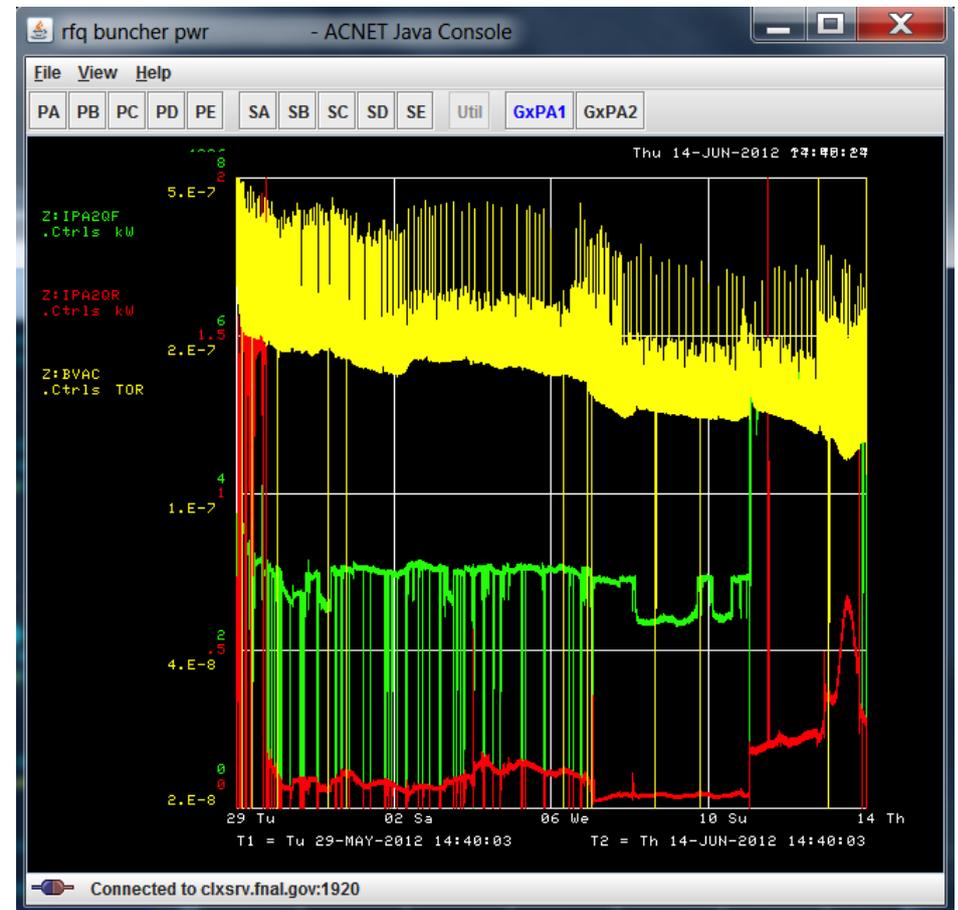
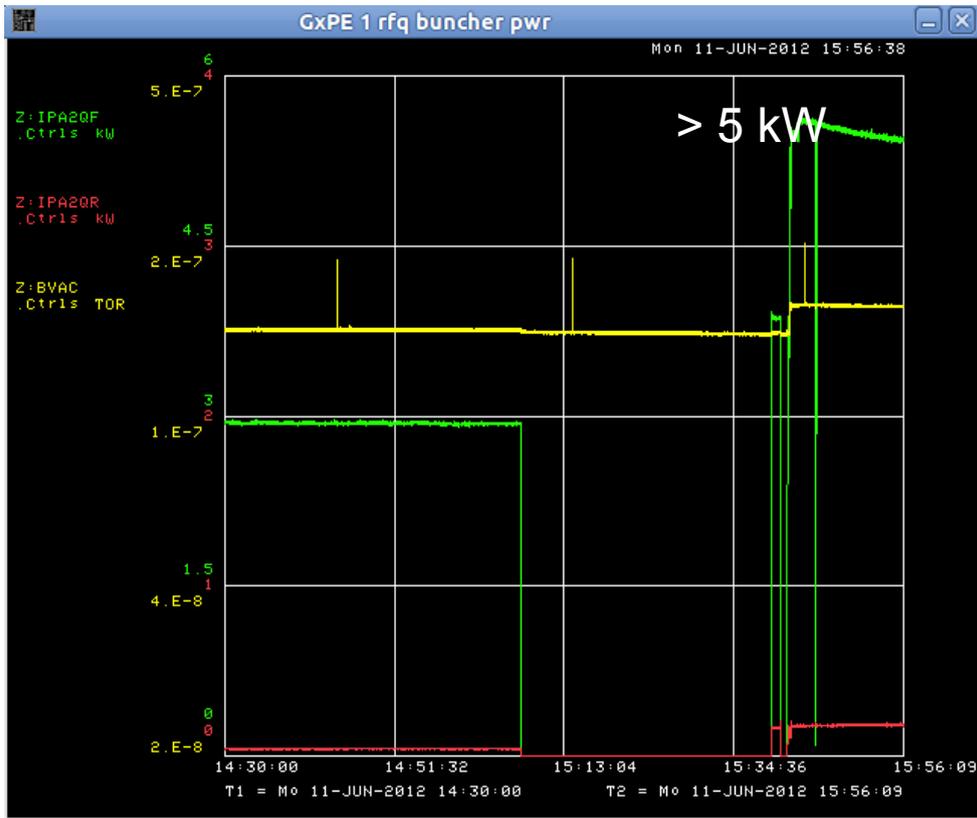
# Latest

- Buncher is conditioned to 5 kW.
- New LEBT has been installed.
- RFQ without end plate installed.
  - Energy of RFQ measured without end plate
- New thin rods manufactured.
  - Completed on 29 June
  - Shipped. Flight 06 July.
- Platform pieces are at the lab.

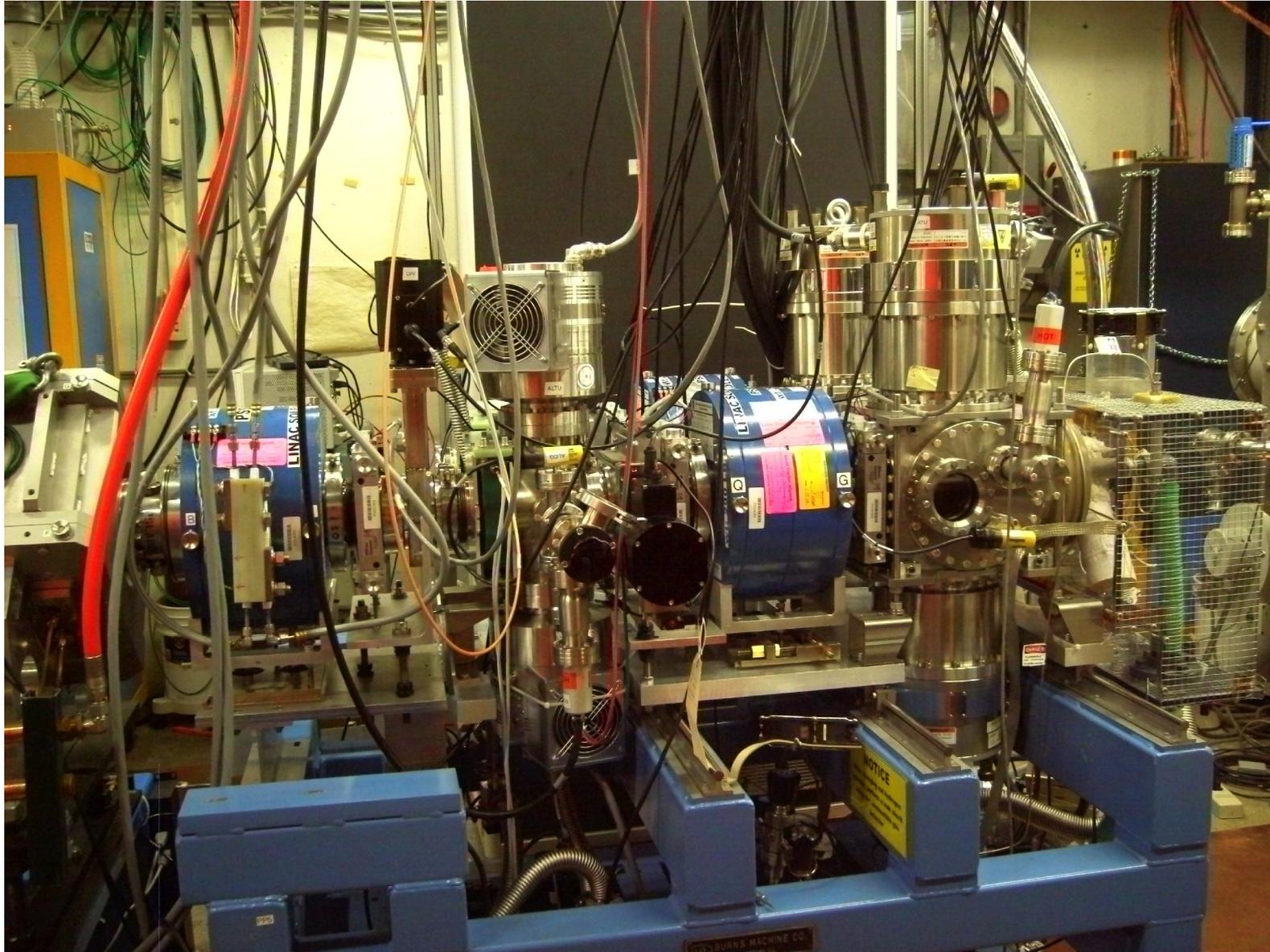
# Plans

- Install new thin rods

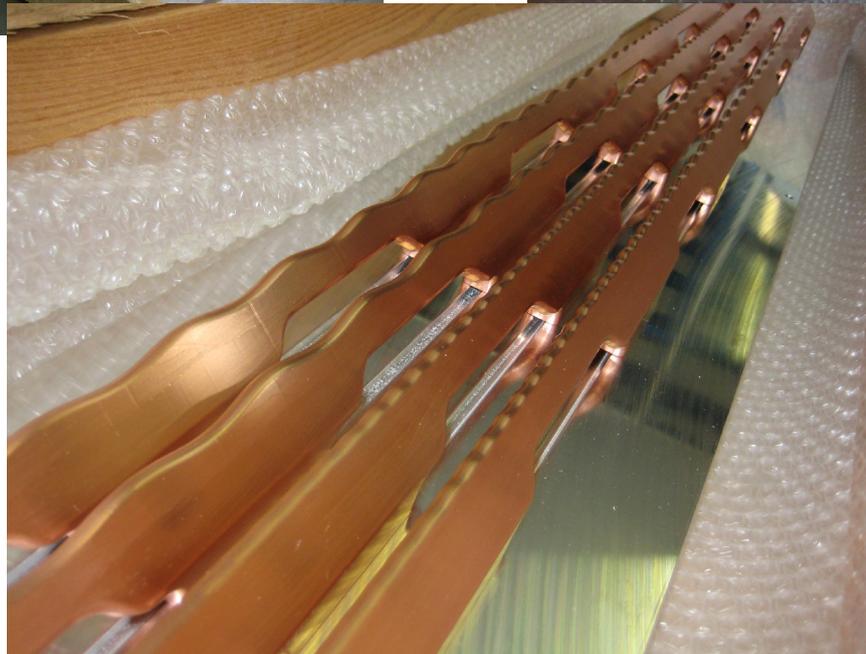
# Buncher conditioning



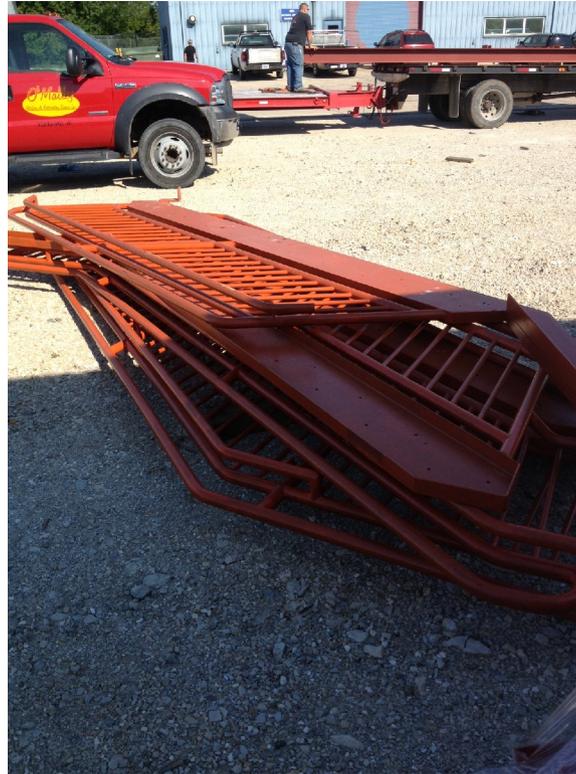
# New LEBT



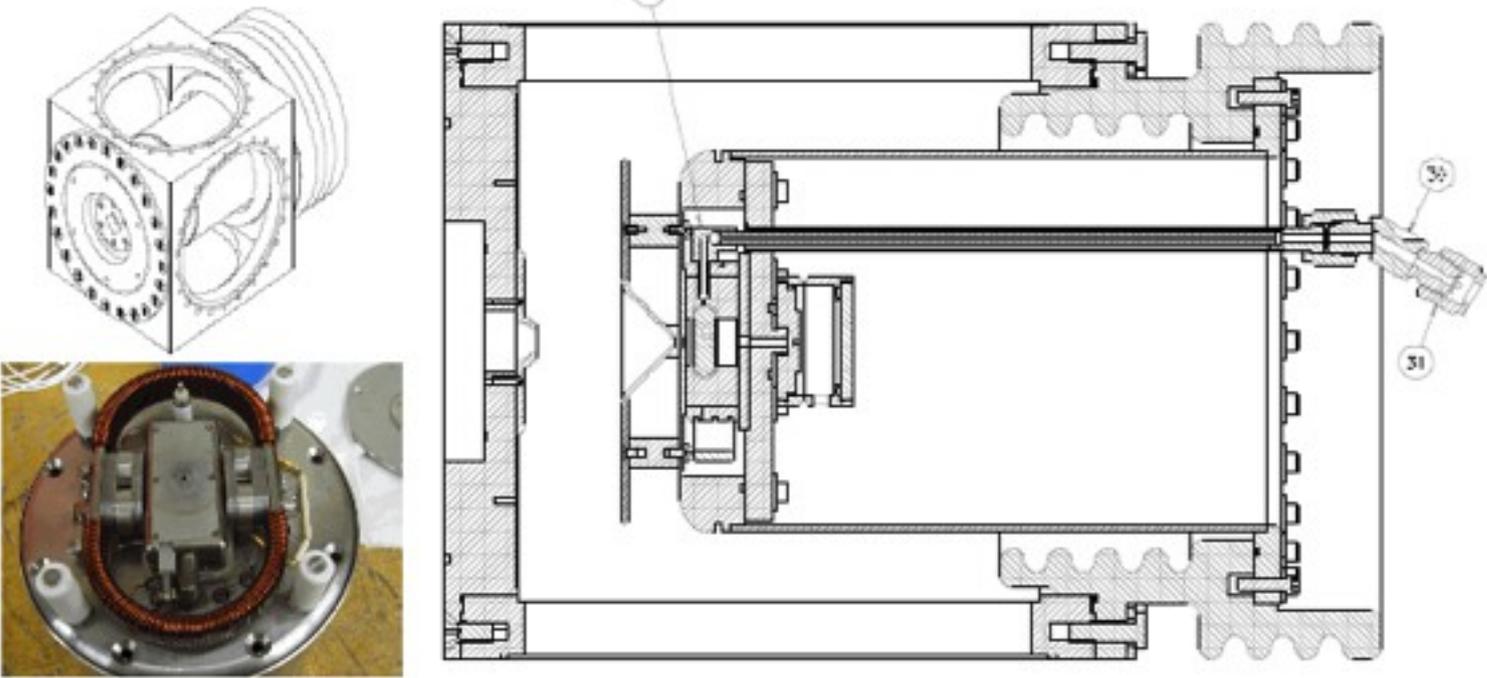
# New thin rods



# New Platform Pieces

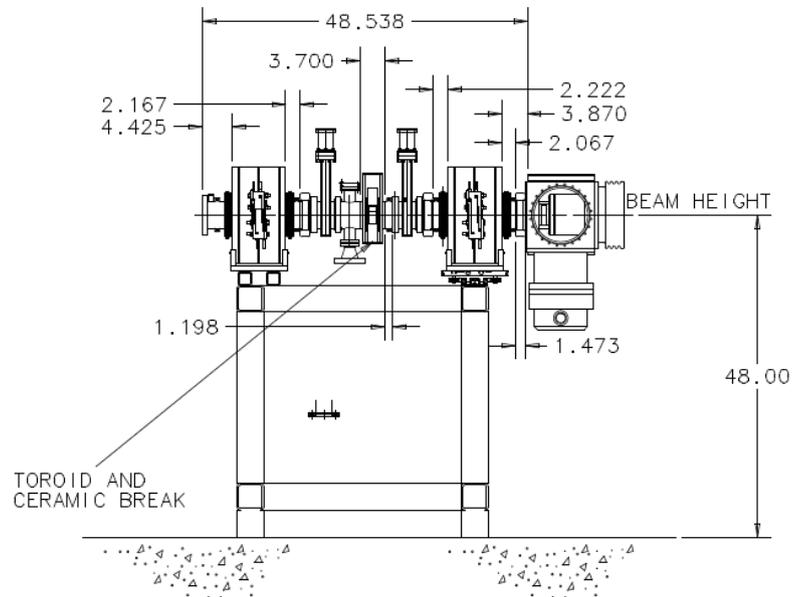


# Source Status



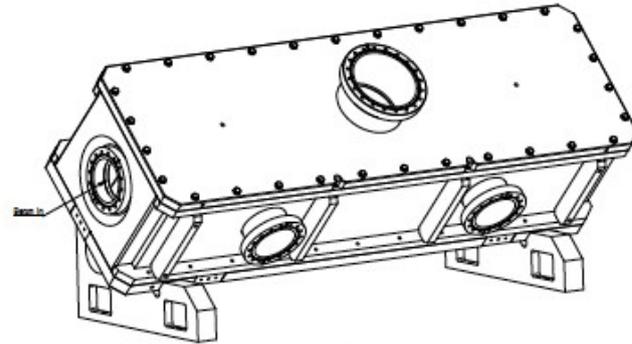
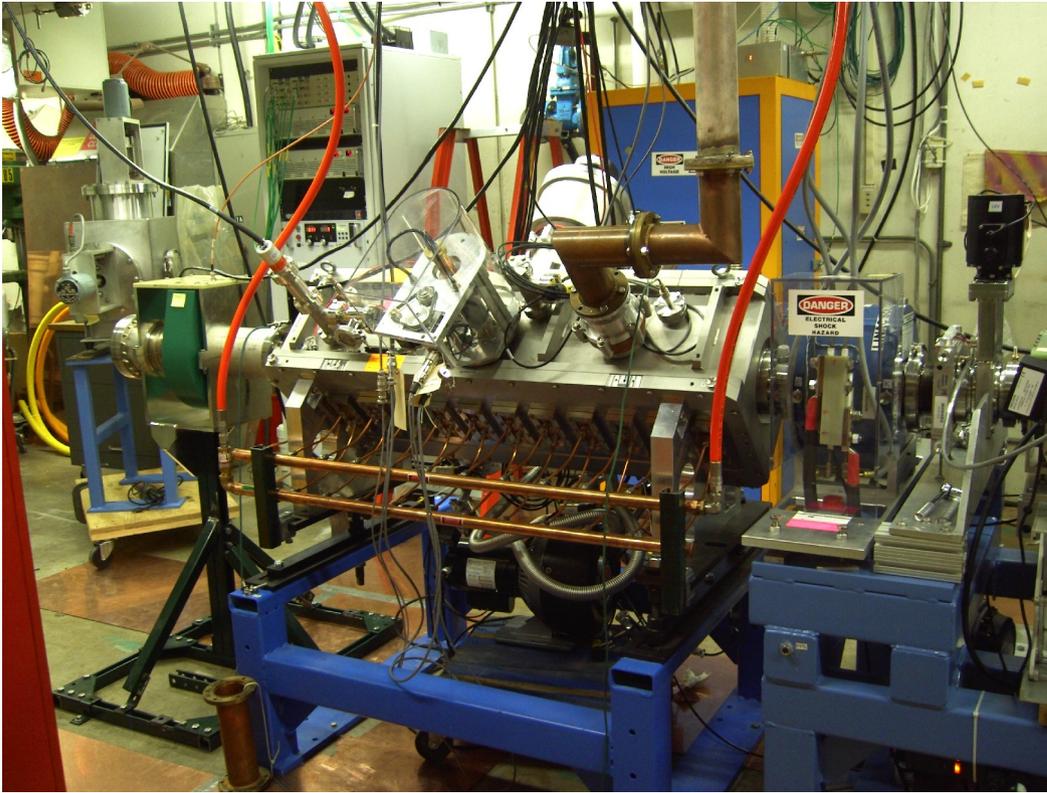
Device	Status	Comments
Source	new source from test stand installed	Larger gap

# LEBT Status

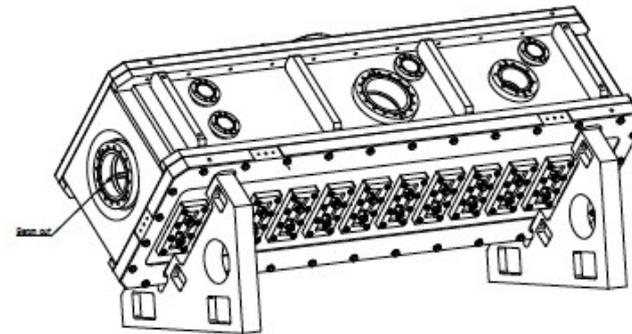


Device	Status	Comments
New slide	Everything installed	

# RFQ Status



15



**Device**

New rods

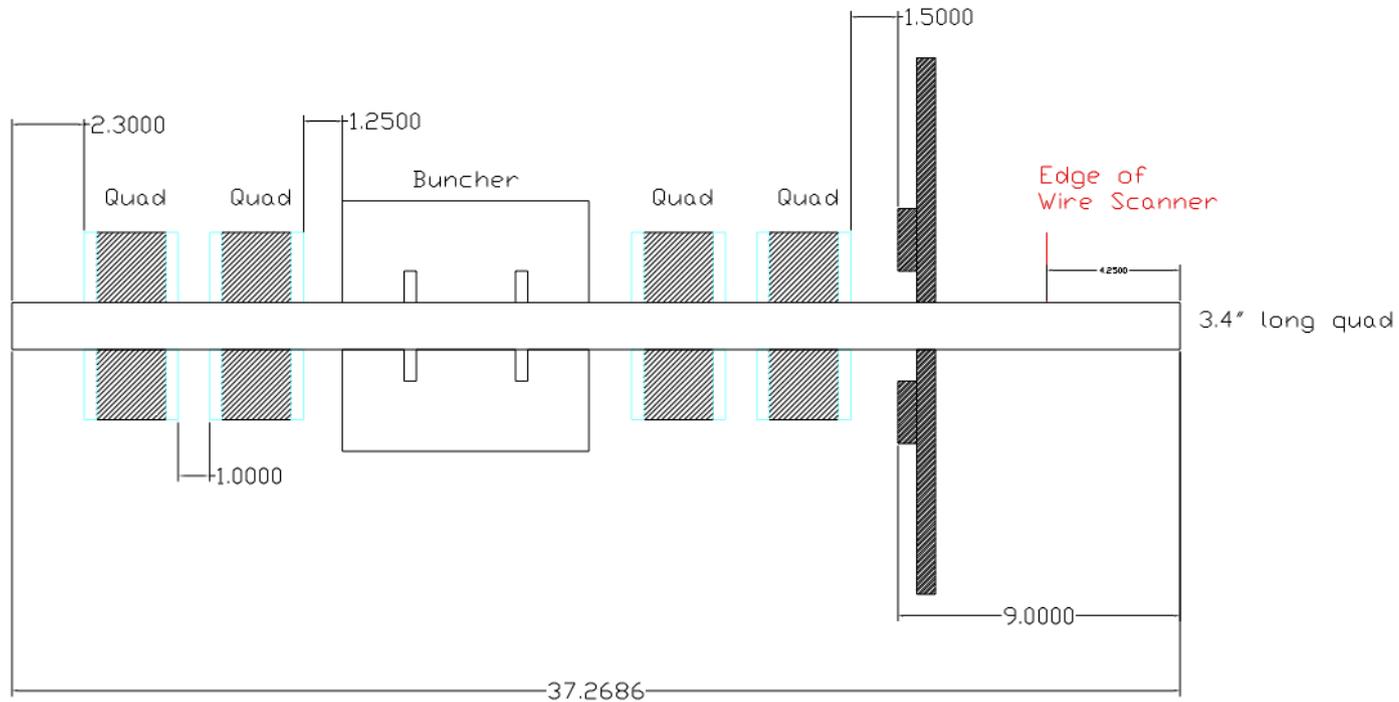
**Status**

New rods being manufactured

**Comments**

As of 20 June

# MEBT Status

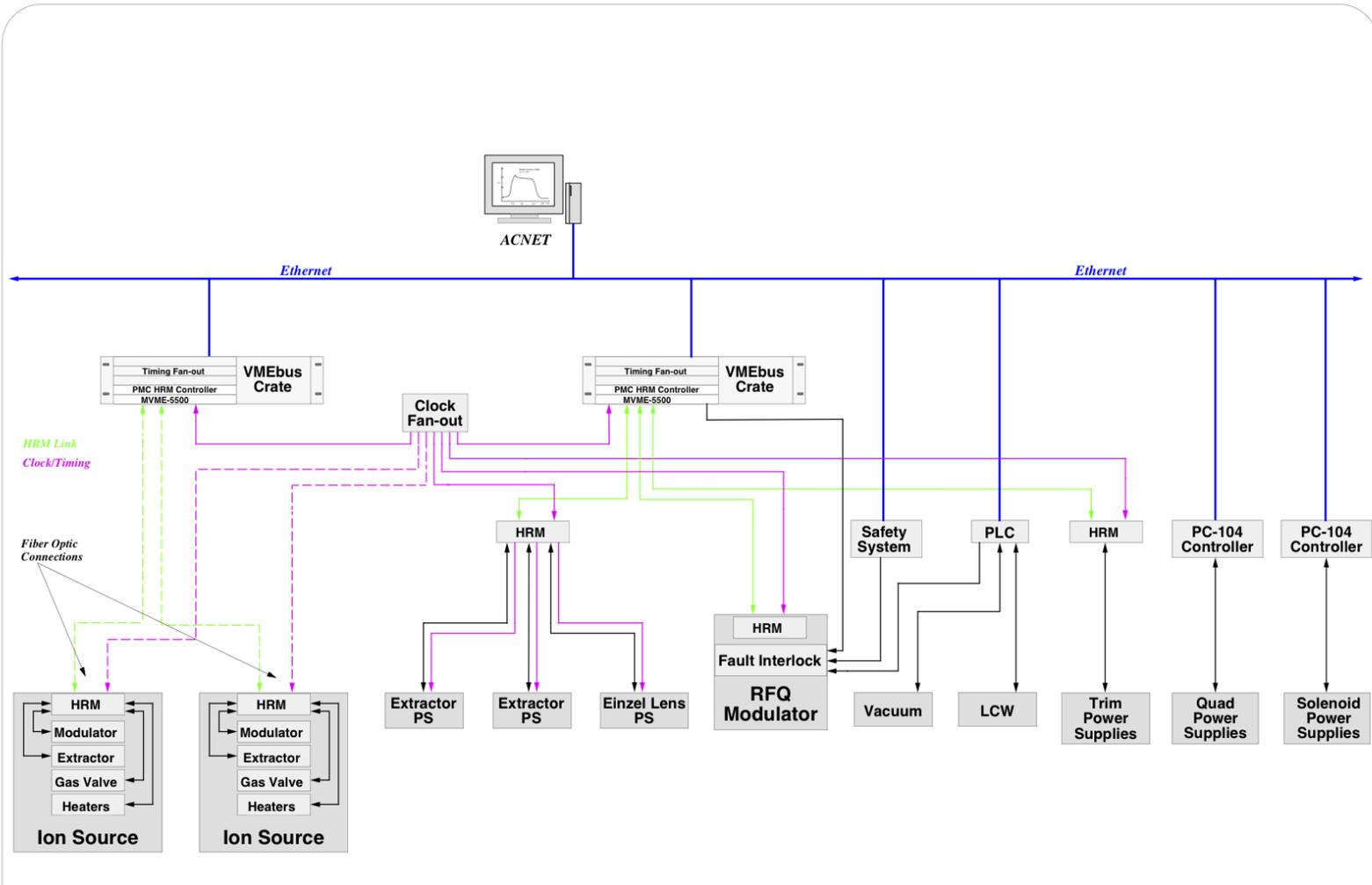


Device	Status	Comments
MEBT Stand	Being designed	Still waiting for final design! (25 Jun)
Quad doublets	Done	Done by 04 May
Buncher	conditioned to > 5 kW	

# Test area, test stand and instrumentation

Device	Status	Comments
spectrometer	Spectrometer reassembled and realigned because new system 1" higher	Confirms TOF measurements.

# Controls



Linac RFQ Upgrade Controls Block Diagram

# Controls

- New PLC code for vacuum system.

Safety