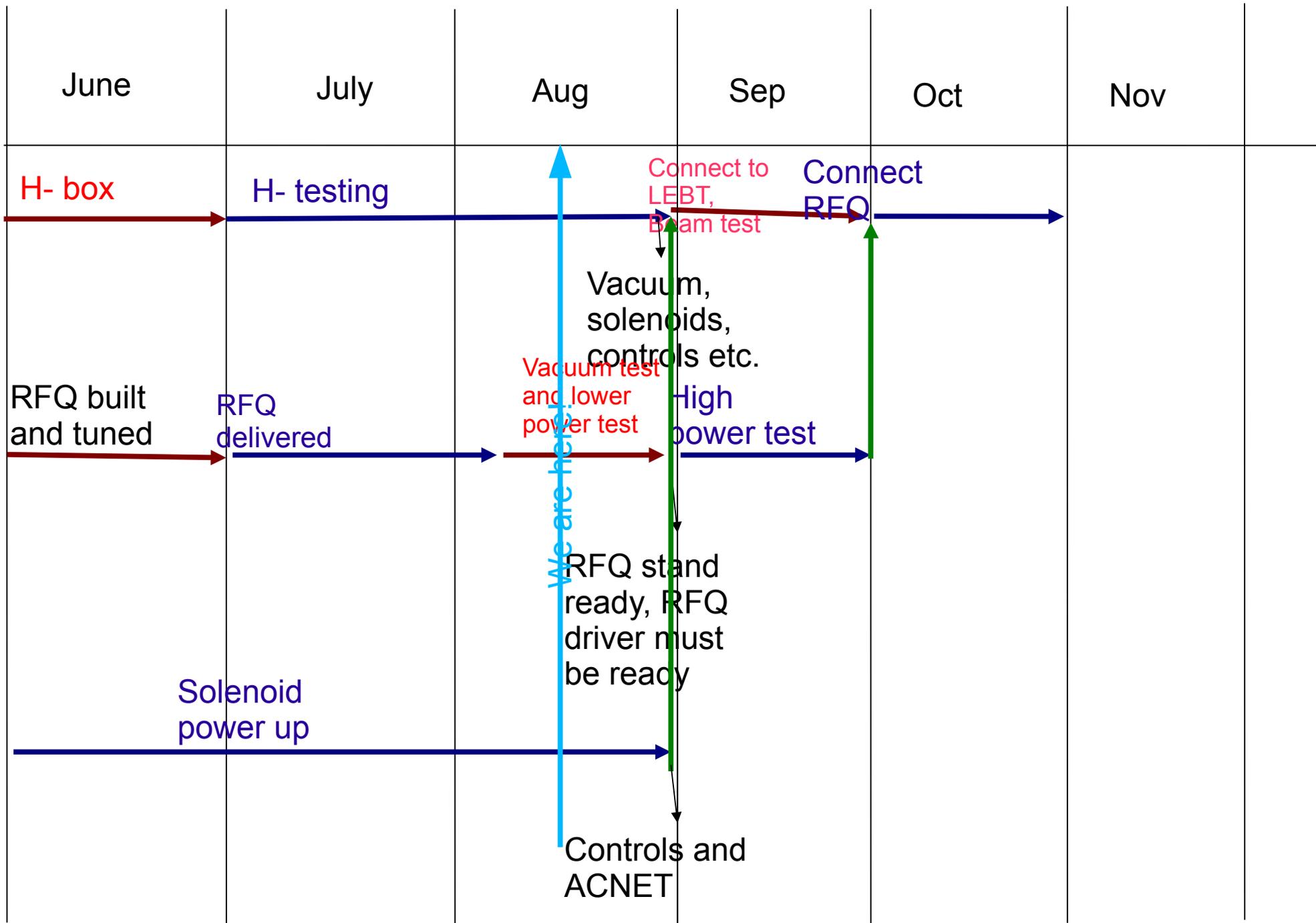


# Pre-injector Upgrade Updates (03 Aug 2011 – 17 Aug 2011)

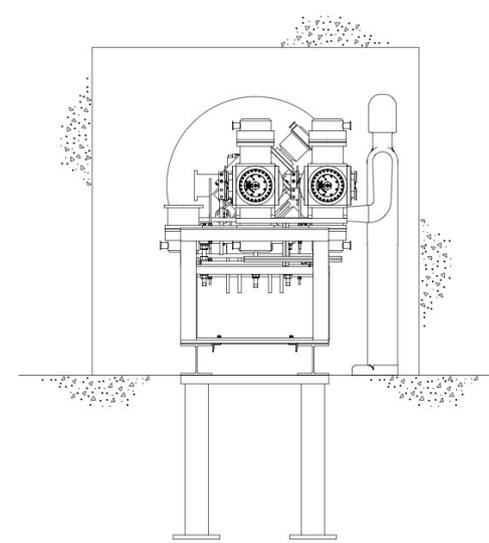
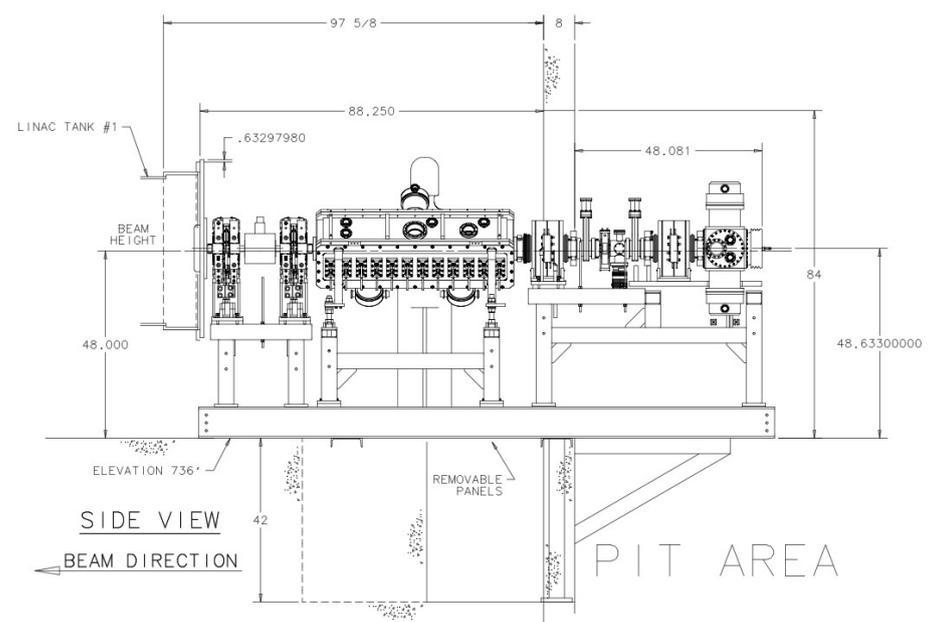
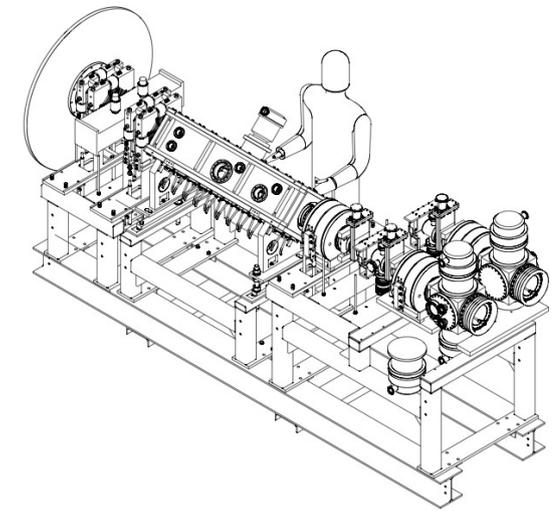
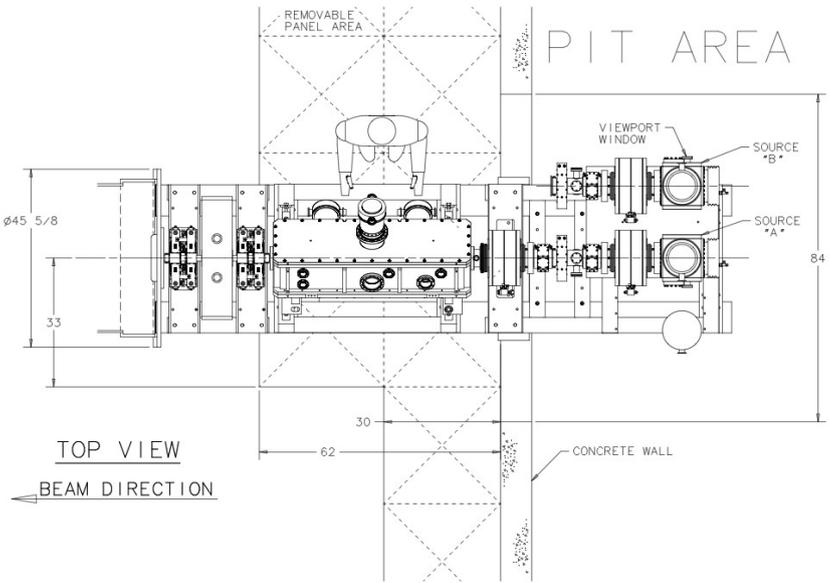
C.Y. Tan  
17 Aug 2011

# News

- Reminder: review 01 Sep!
  - Agenda?



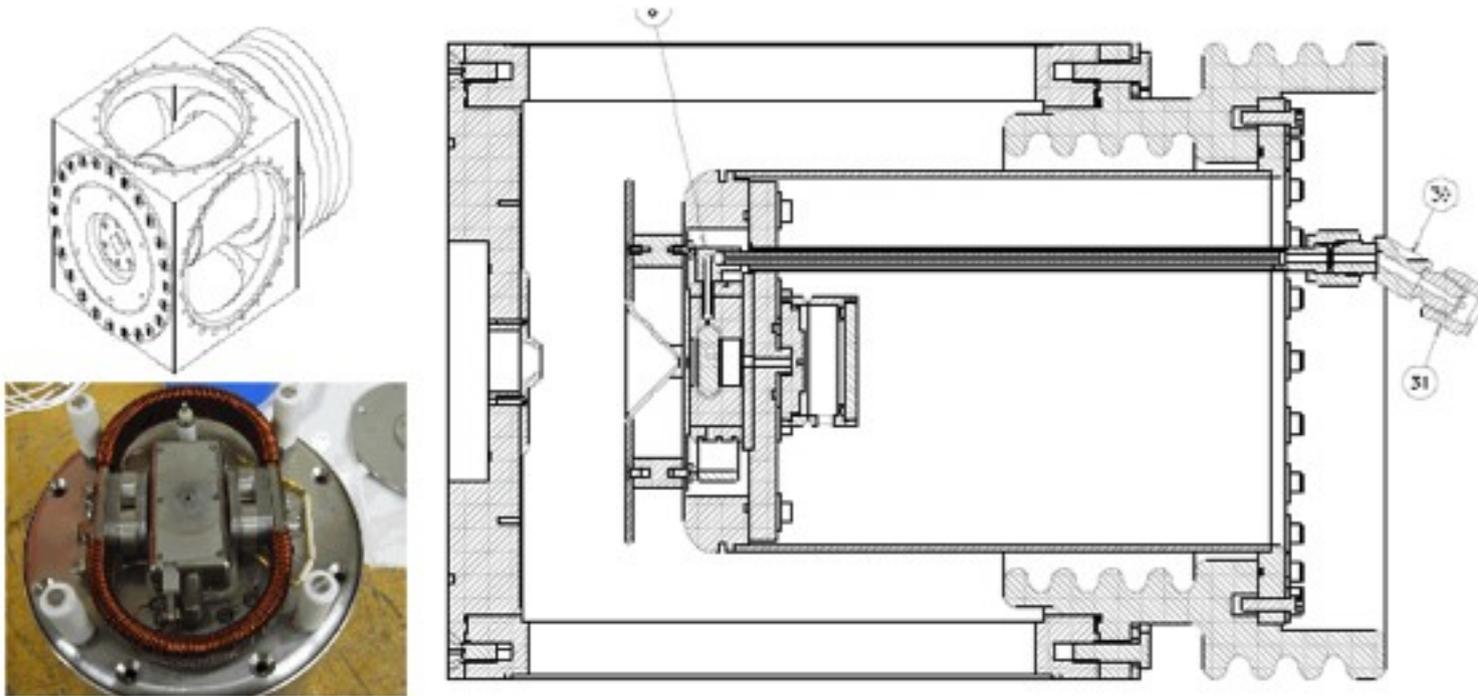
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



PREACCELERATOR  
PRELIMINARY  
LAYOUT  
APRIL 27, 2011

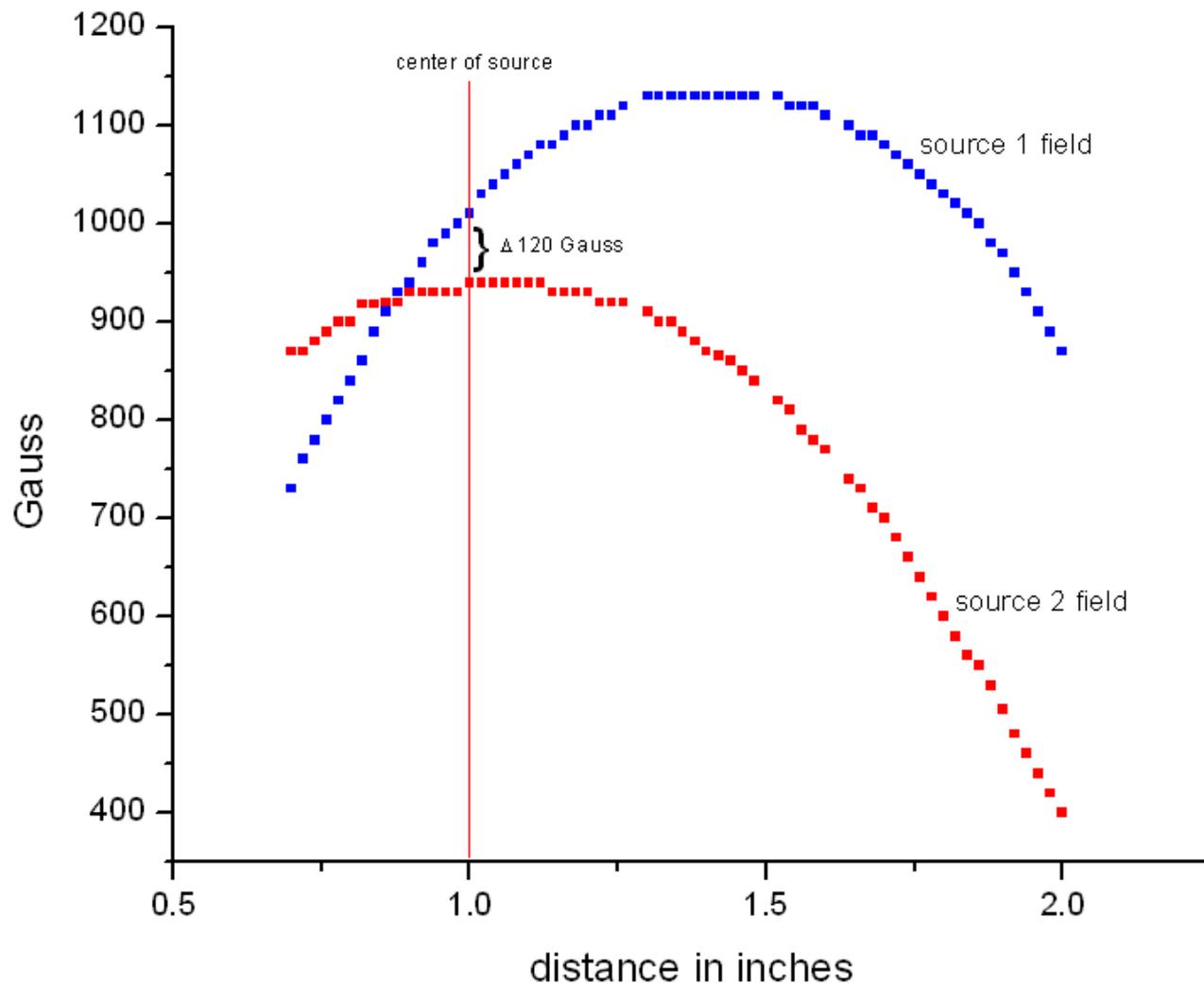
UNLESS OTHERWISE SPECIFIED		ORIGINATOR	
±	±	DRAWN	
		CHECKED	
		APPROVED	
1. BREAK ALL SHARP EDGES MAX.		USED ON	
2. DO NOT SCALE DRAWING.			
3. DIMENSIONS BASED UPON ASME Y14.5M-1994			
4. MKY. ALL UNCL. SURFACES		MATERIAL	
5. DRAWING UNITS: U.S. INCH			
<b>FERMI NATIONAL ACCELERATOR LABORATORY</b> UNITED STATES DEPARTMENT OF ENERGY			
SCALE	DRAWING NUMBER	SHEET	REV
		1 OF 1	
CREATED WITH :	GROUP :		

# Source Status

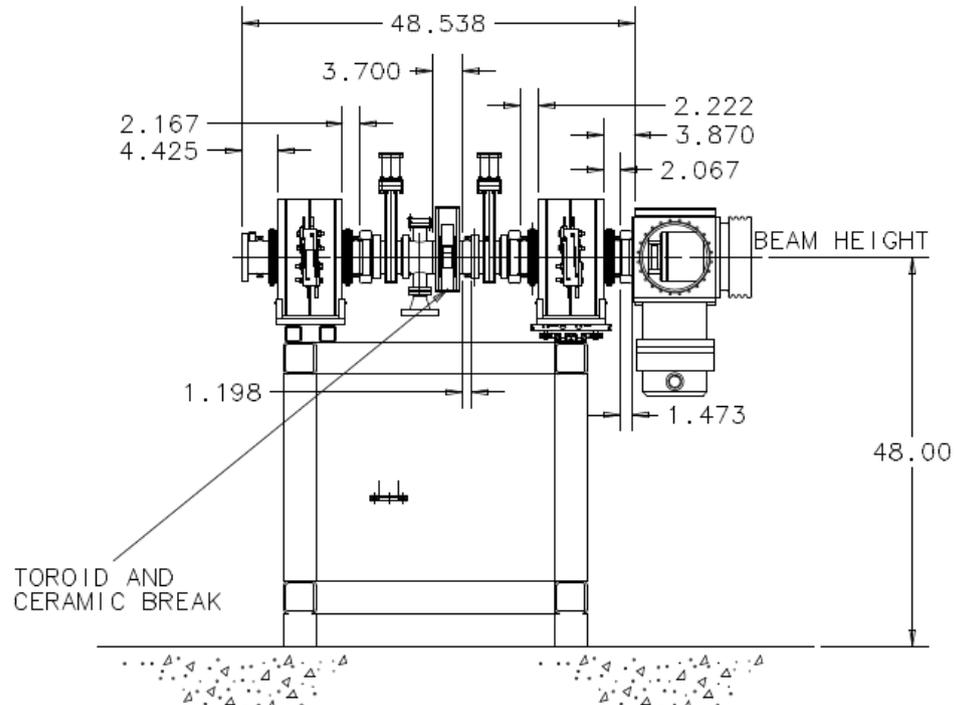


Device	Status	Comments
Source #2	Extracting at 71mA	Permanent magnet peak field a few hundred gauss too small. Thermocouple short again.
Modulator PS	To be installed	Need info on how to control
Valve pulser	being tested	
Arc modulator pulser	starting on it now	
extractor pulser	should be complete by end of Aug	

### Difference in magnetic fields



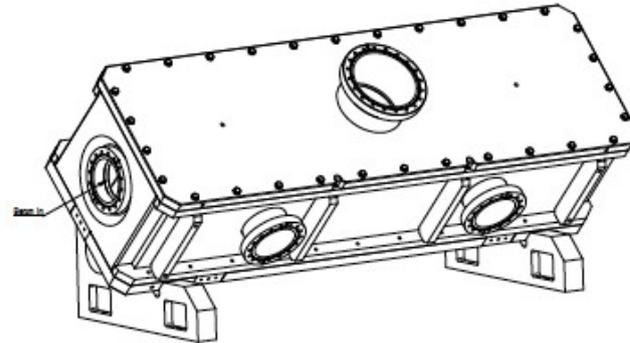
# LEBT Status



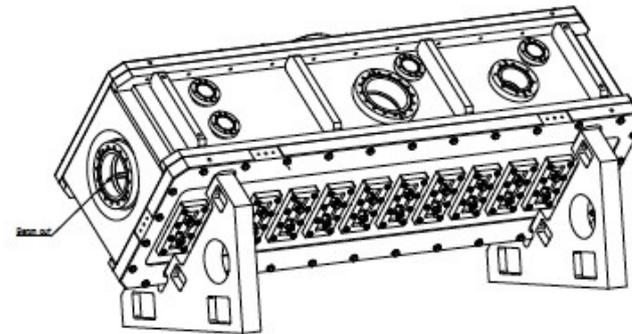
Device	Status	Comments
Solenoid PS	Ready to test solenoids	Safety review is done (29 Jun)
Solenoids	#4 wound	To be potted 08 Aug.
LEBT drawings	Being drawn	Bellows ordered End of June to early July delivery.
Correctors	drawings OK'ed manufacturing should proceed	Parts should be ordered soon. Aug?
Solid state switches	Have PO	
LEBT stand	Out for bid	Bids close on 01Aug

# RFQ Status

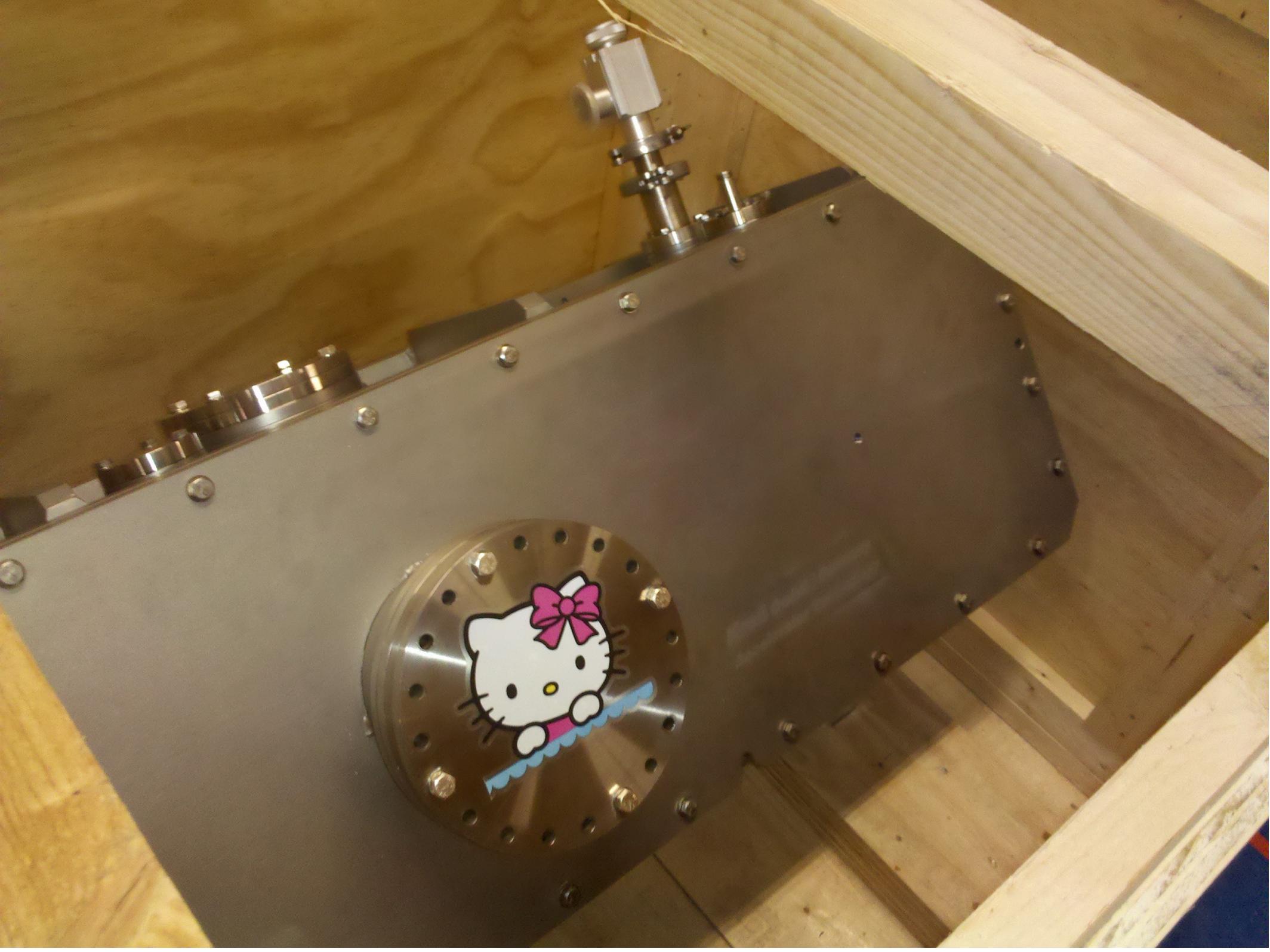
- It's HERE! (04 Aug 2011)
  - PO was sent out on 19 May 2010.
  - Total time to receiving RFQ:  
**1 year 2 months 2 weeks 2 days.**

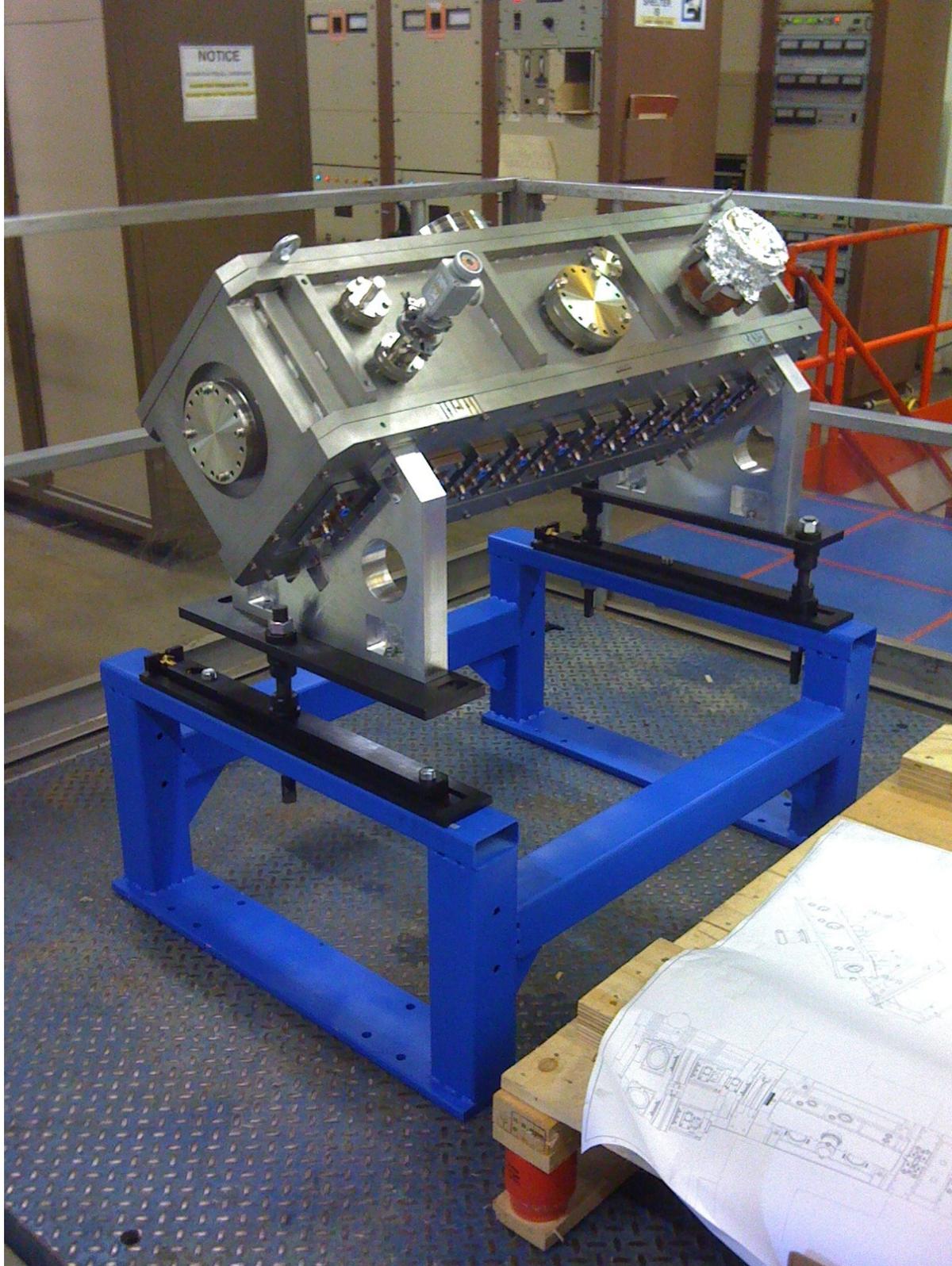


15

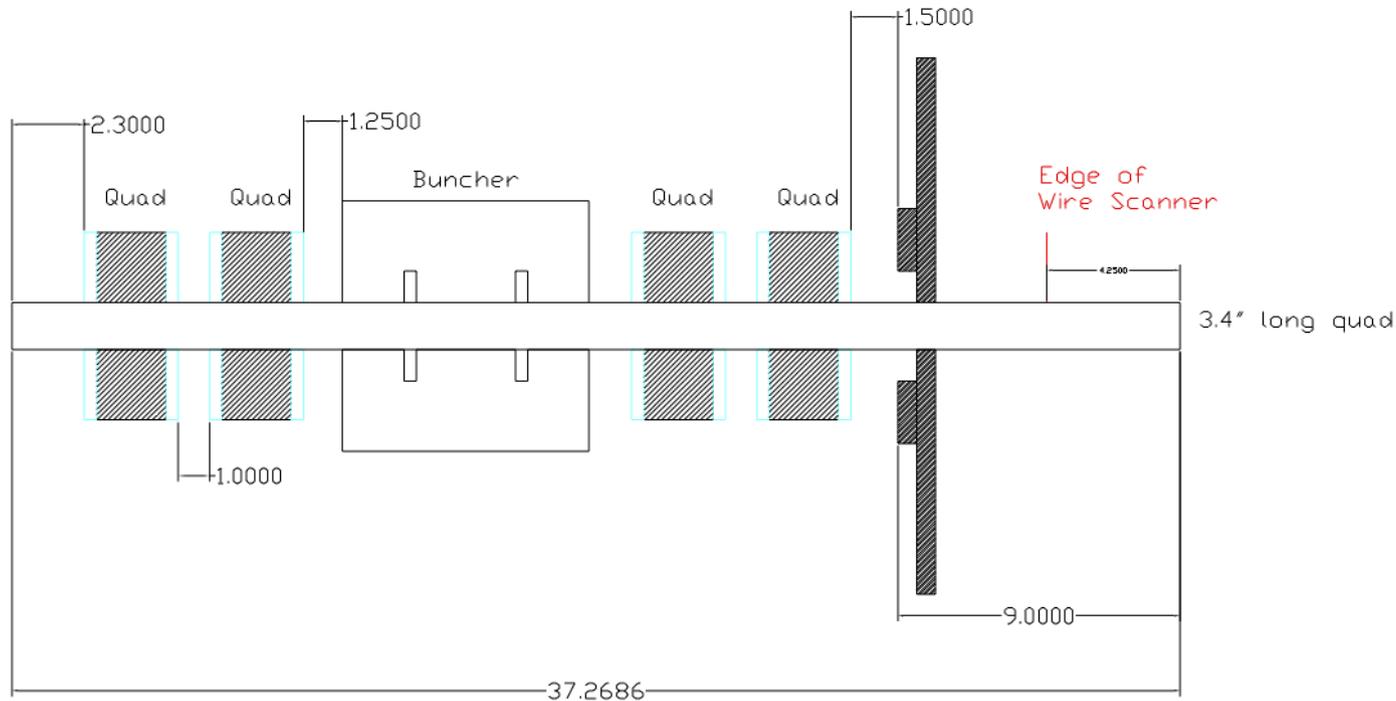


Device	Status	Comments
4816 PA	PA is done! (15 Aug)	See Brian's talk





# MEBT Status

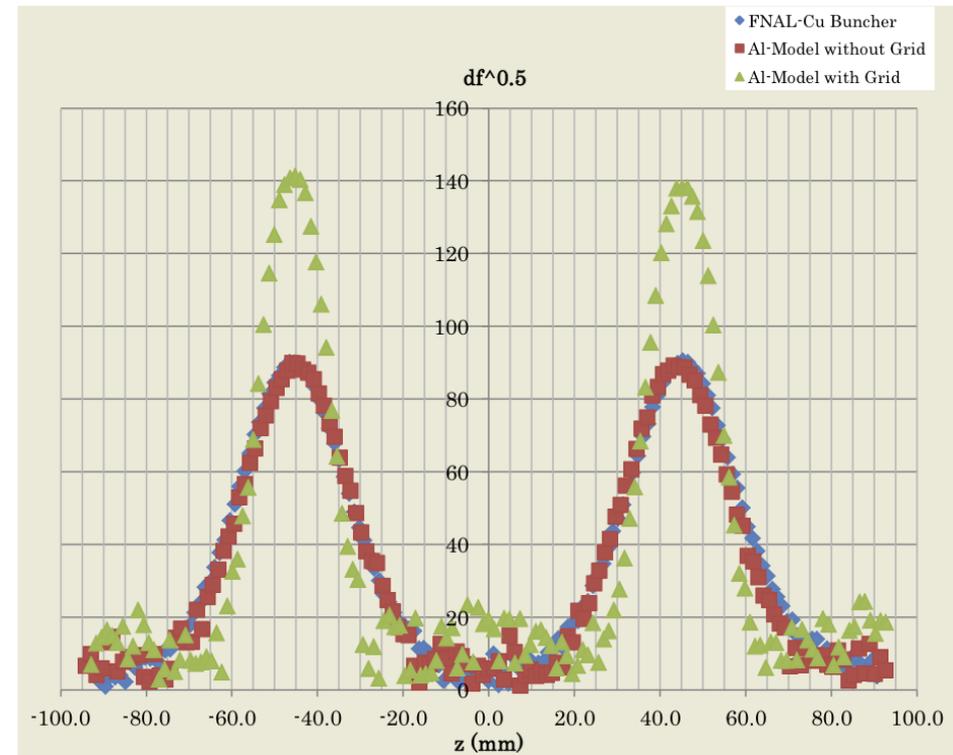
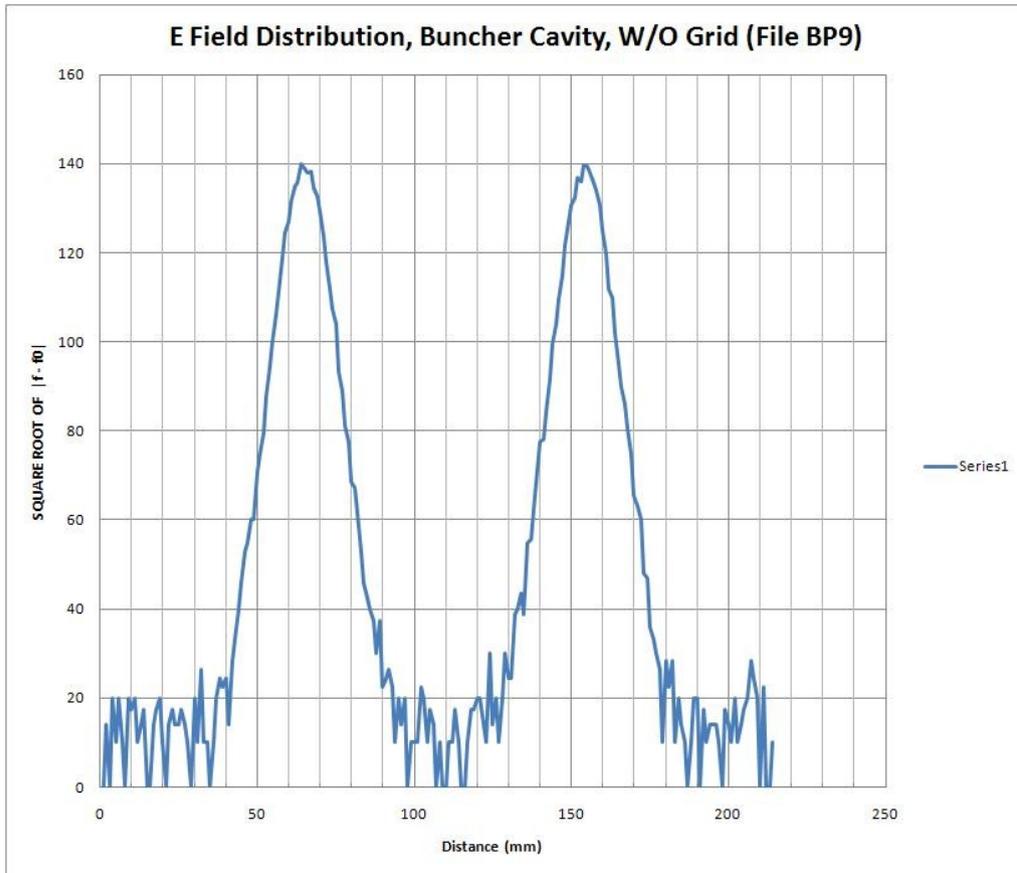


Device	Status	Comments
Quads	1/2 of dipoles complete.	Cores will be delivered week of 07 Aug. 1 <sup>st</sup> magnet in Oct. (No change?)
Buncher	Measurements started 07 Aug	
Power for quads	Specs to follow	Quads being redone.
Power for buncher		Use present buncher supply in the line.

# Bead pull test station

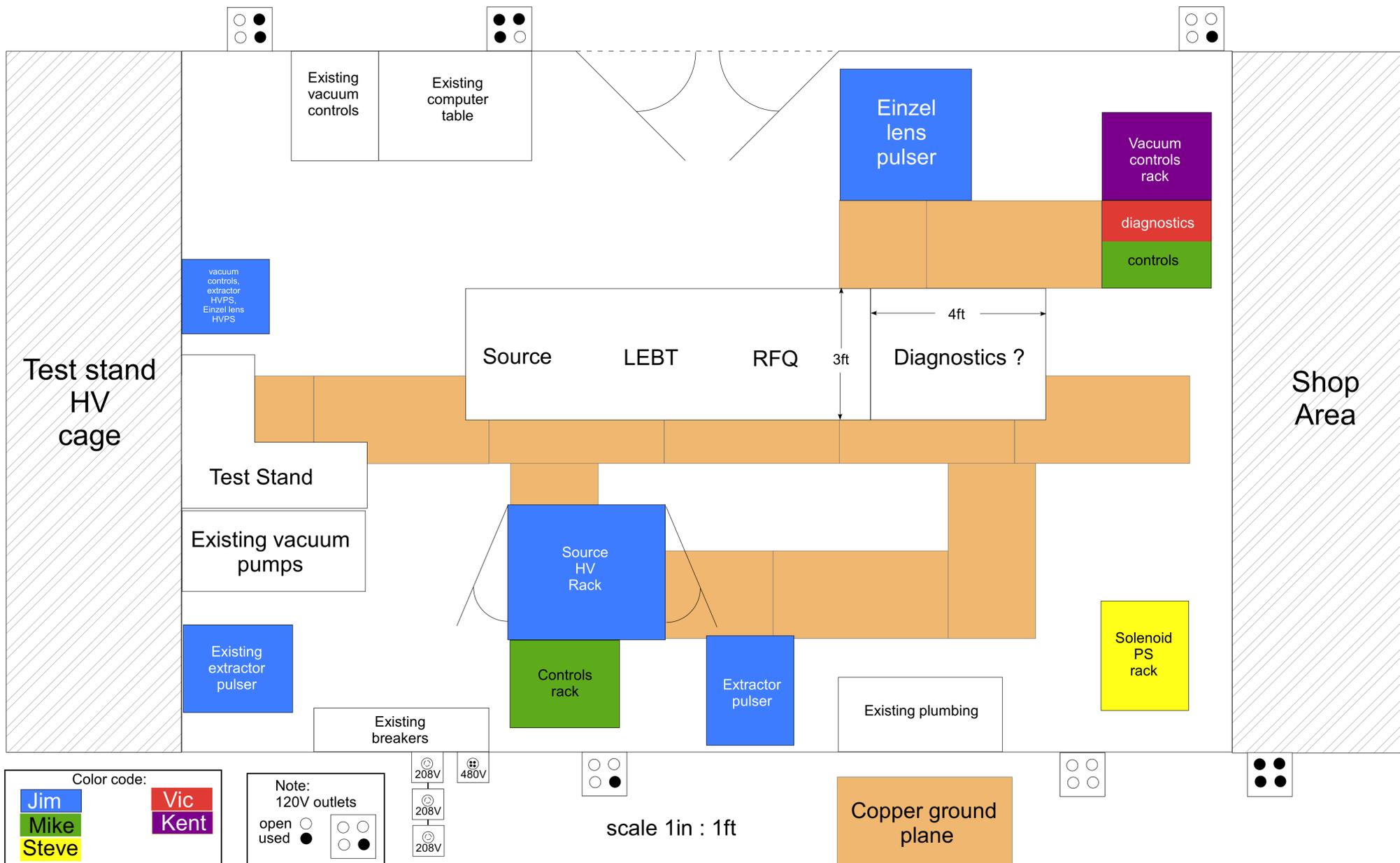


# Consistent with Japanese Measurement





# Proposed test area layout



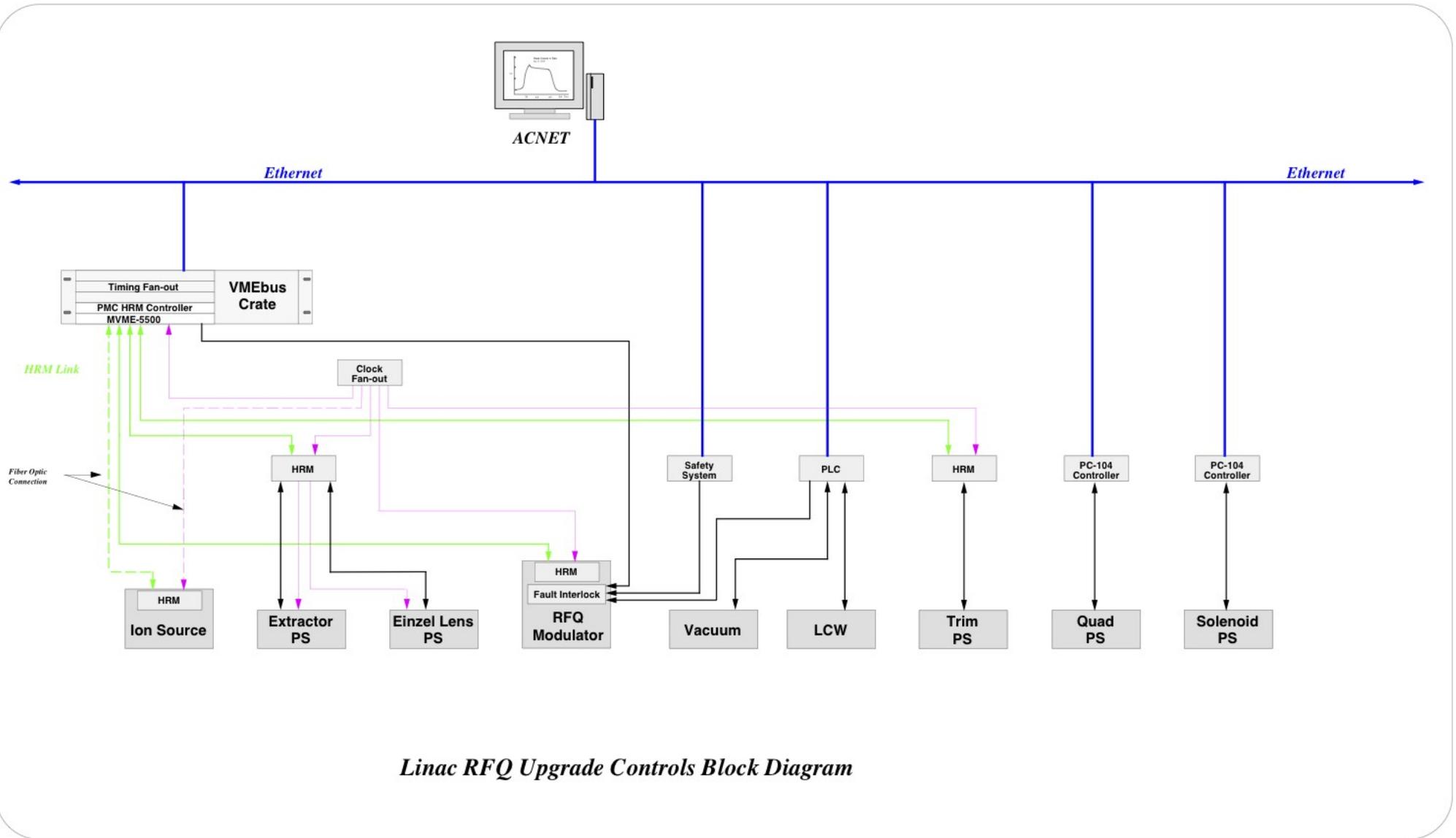
# Test area, test stand and instrumentation

Device	Status	Comments
MW can	Complete! (10 Aug)	
MW electronics	Complete! (10 Aug)	
Instrumentation stand	Delayed by NUMI	
emittance probes can	In drafting	
New source PS	started installation (06 July)	
#2 source	Started assembly (20 July)	

See previous talk

Needs update?

# Controls



Safety