

Pre-injector Upgrade Updates (01 Jun 2011 – 22 Jun 2011)

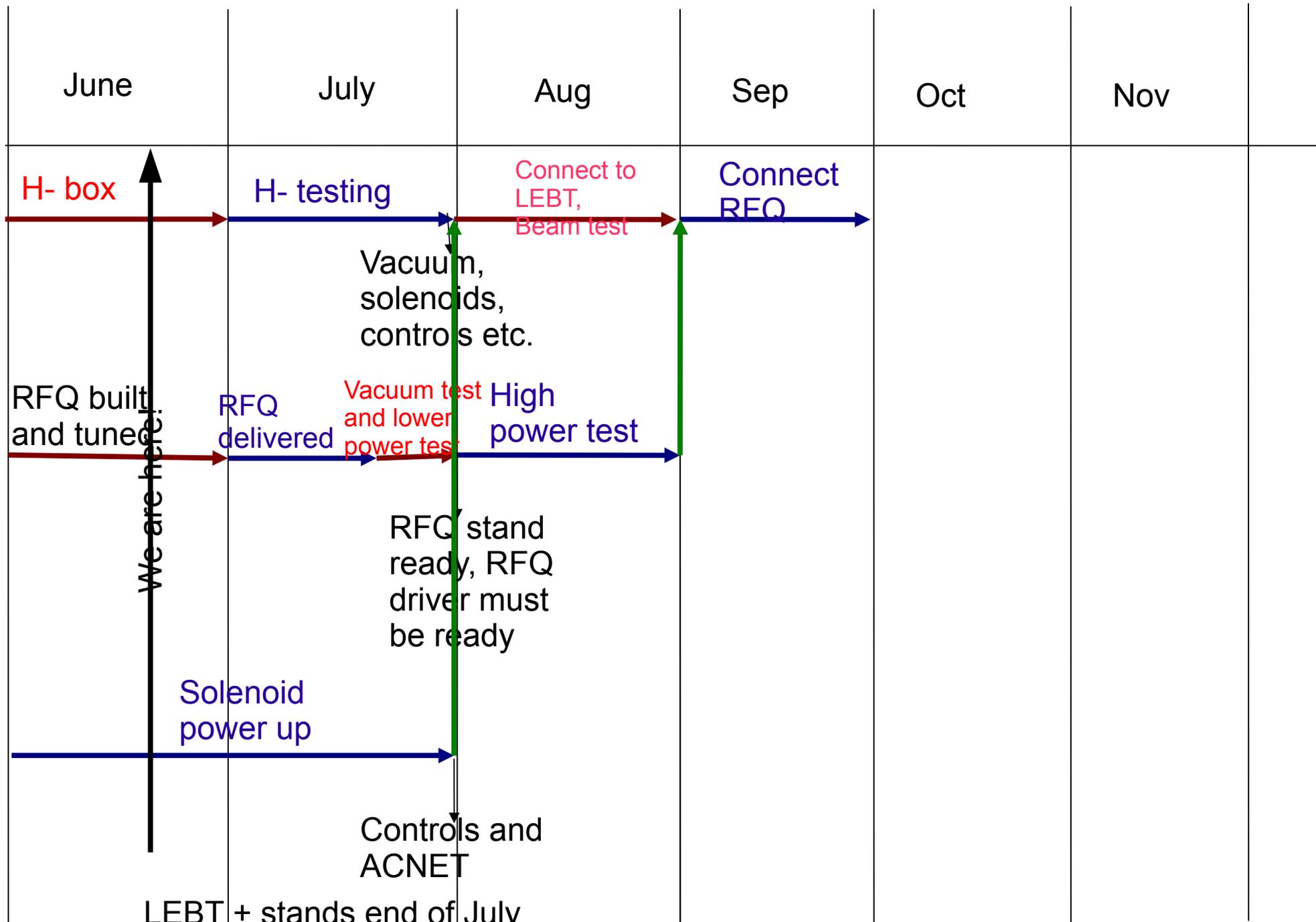
C.Y. Tan
22 Jun 2011

News

- First shutdown meeting held on 15 Jun.

Reminders

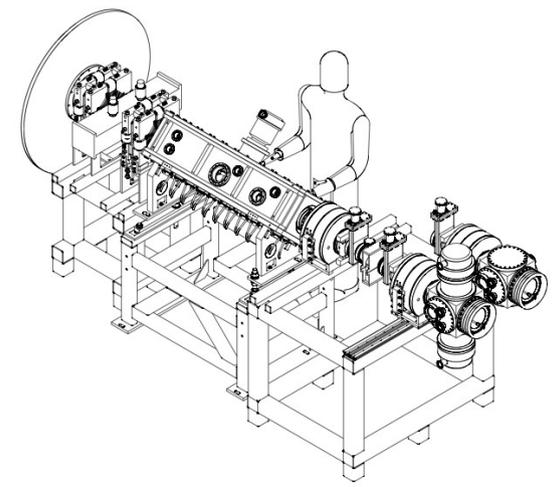
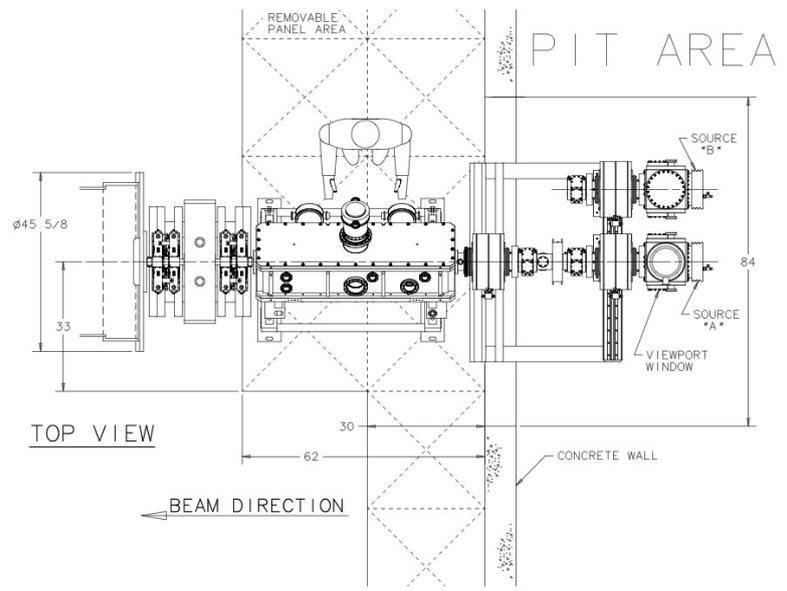
- Fill in the MS Project time lines. **See Elmie.**
 - Steve Hays
 - Jim Lackey
 - Mike Kucera
 - Dan Bollinger
 - Brian Schupbach
- Fill in paper sections for the review.



LEBT + stands end of July
H- box end of June, (extractor PS status?)

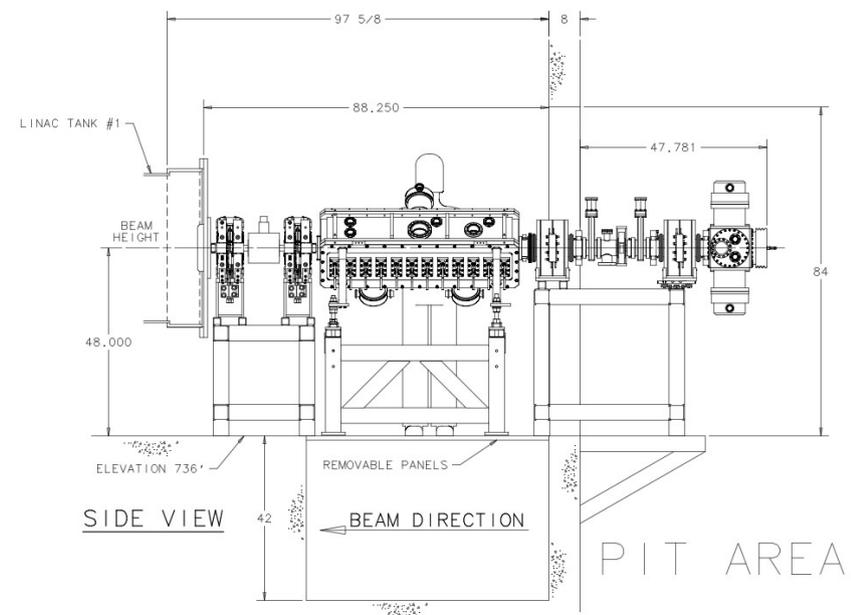
8 7 6 5 4 3 2 1

REV	DESCRIPTION	DRAWN 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.	MATERIAL		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994			
4. MAX. ALL MACH. SURFACES			
5. DRAWING UNITS: U.S. INCH			

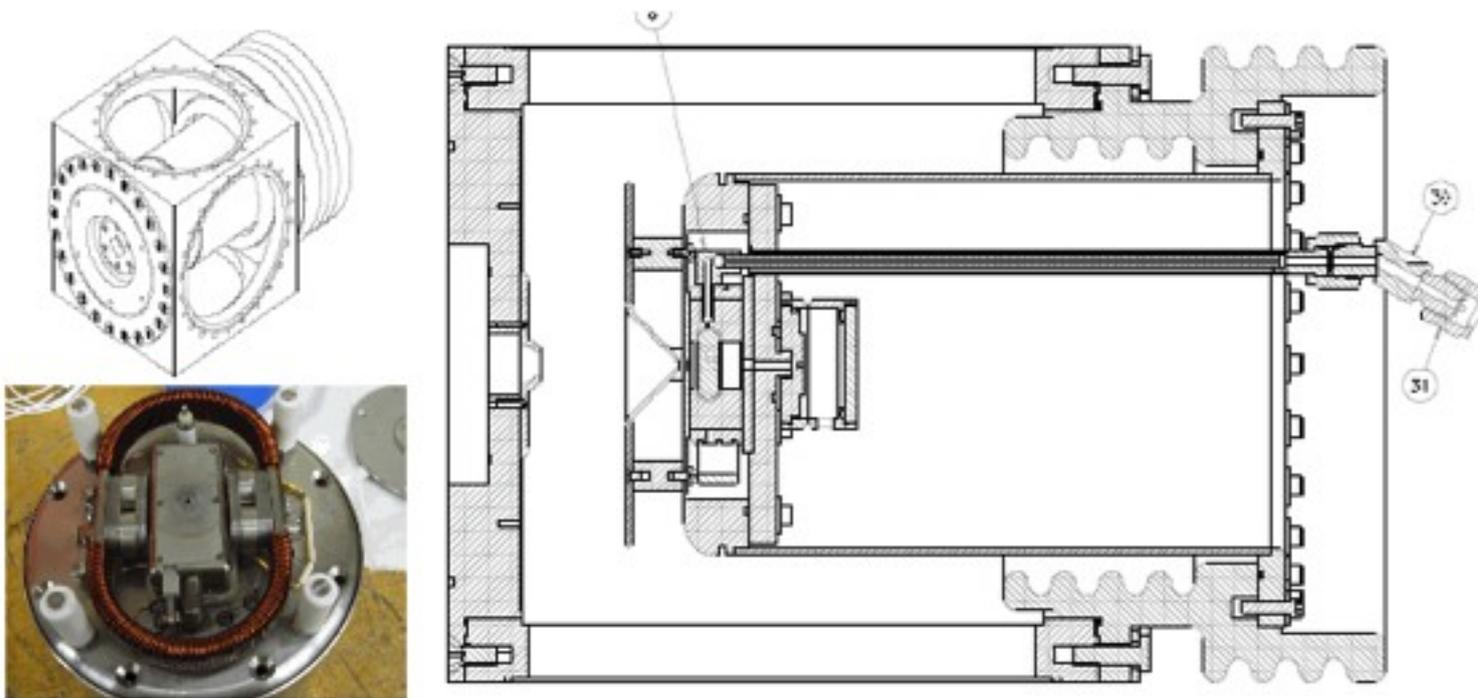
FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

SCALE	DRAWING NUMBER	SHEET	REV
		1 OF 1	

CREATED WITH: _____ GROUP: _____

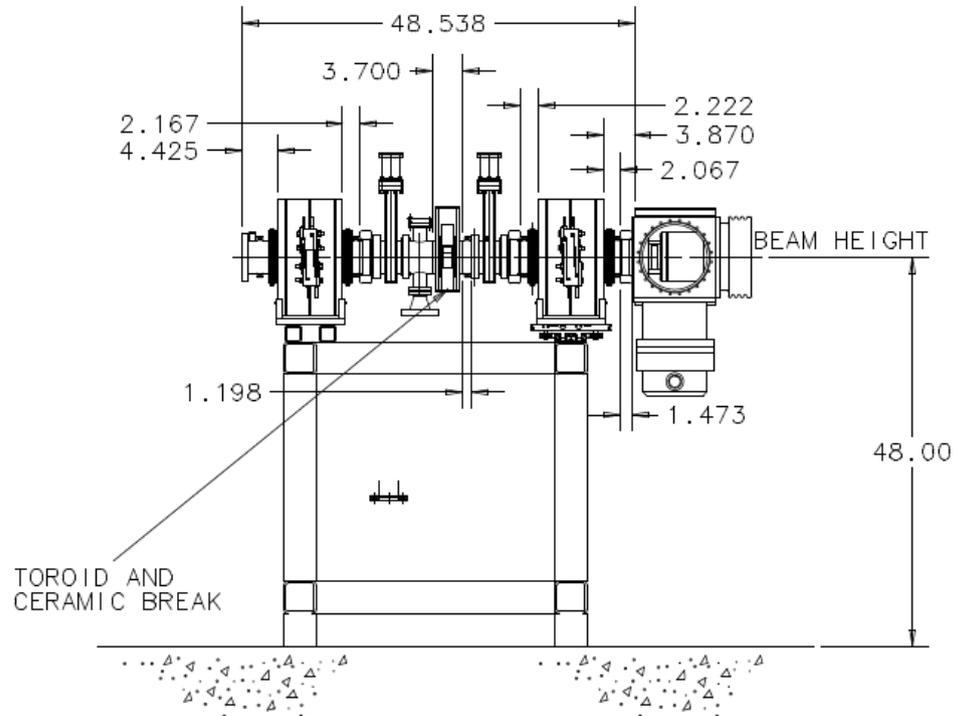
8 7 6 5 4 3 2 1

Source Status



Device	Status	Comments
New source	Waiting for flanges	New cube
Extractor PS	Received transformer (16 Jun)	All parts on hand
	Increased current by removing ground electrode	53 to 63mA. See next talk

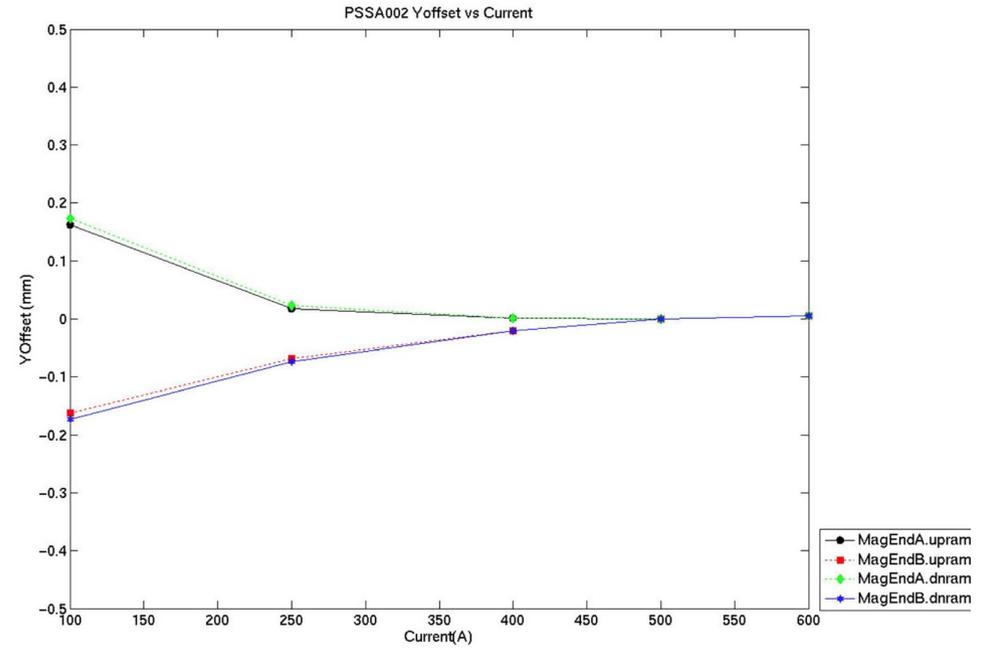
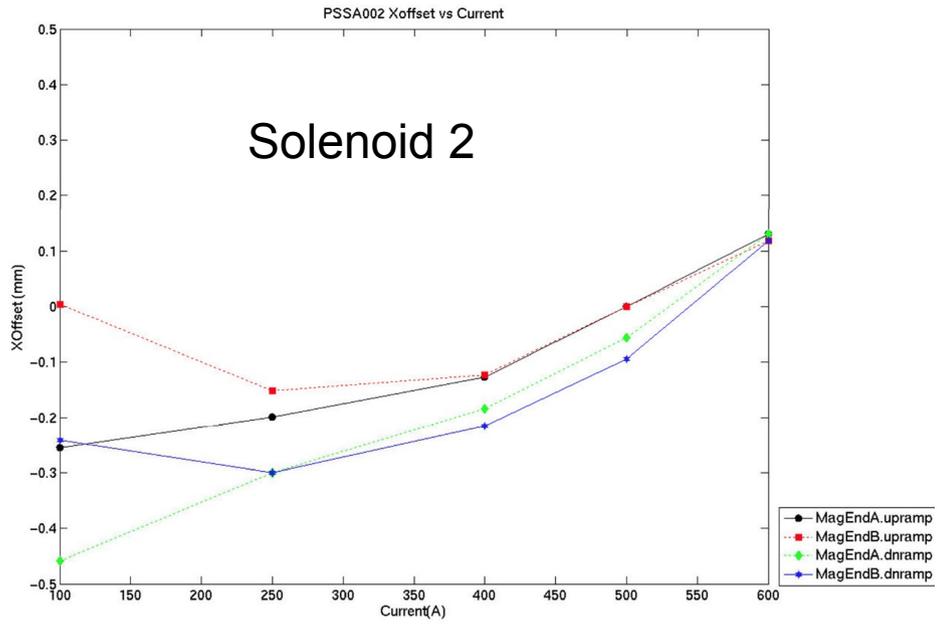
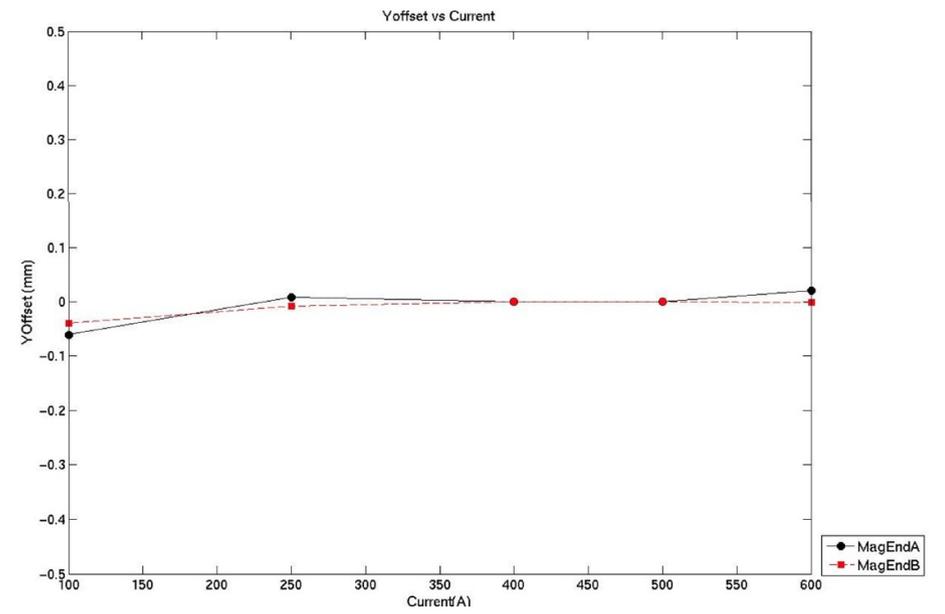
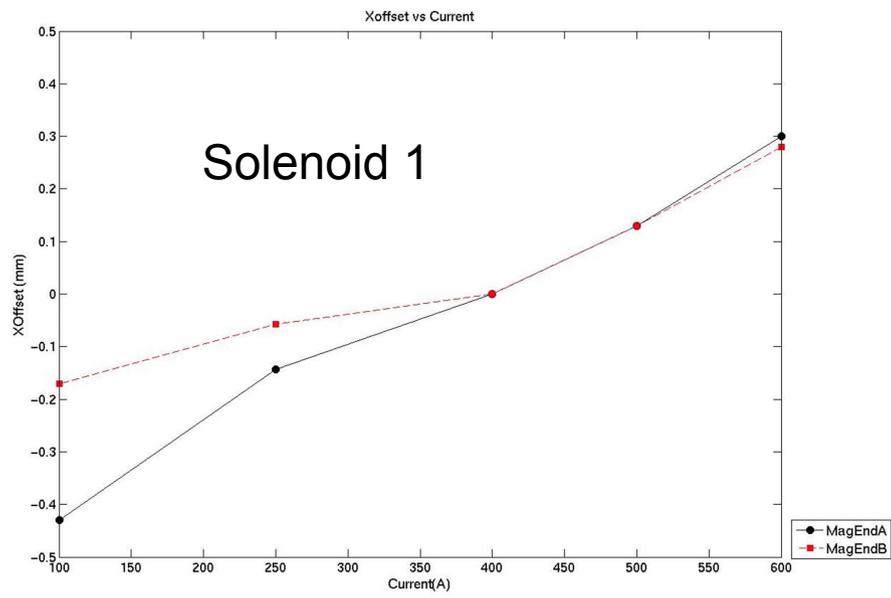
LEBT Status

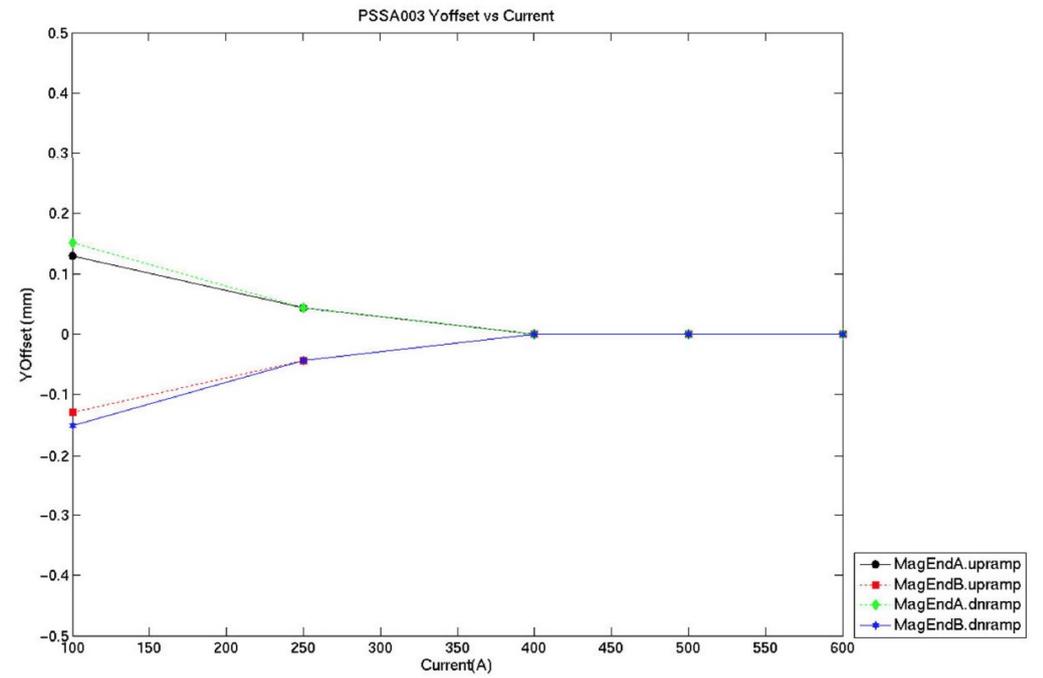
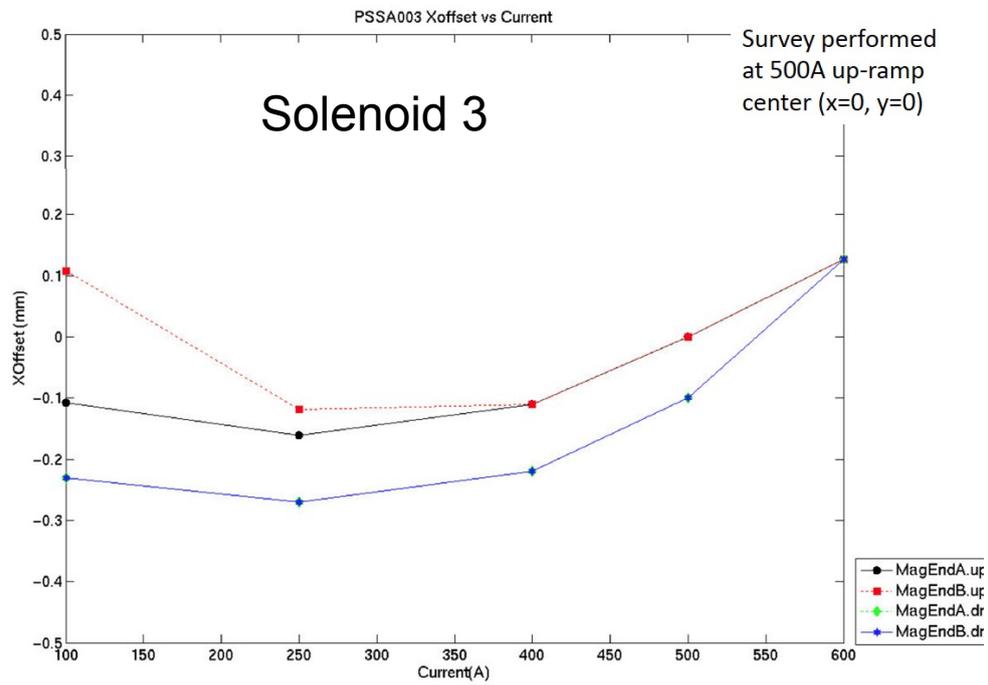


Device	Status	Comments
Solenoid PS	In test area (06 Jun)	Needs 480V, and 120V outlet
Solenoids	Only #4 is incomplete.	See next slide.
LEBT drawings	Being drawn	Bellows ordered End of June to early July delivery. Milhouse still working on drawings. Power specs in 2 weeks
Correctors	final design (07 Mar 2011)	Order pending
Vacuum pumps		
Einzel lens	Complete!	

Solenoid status

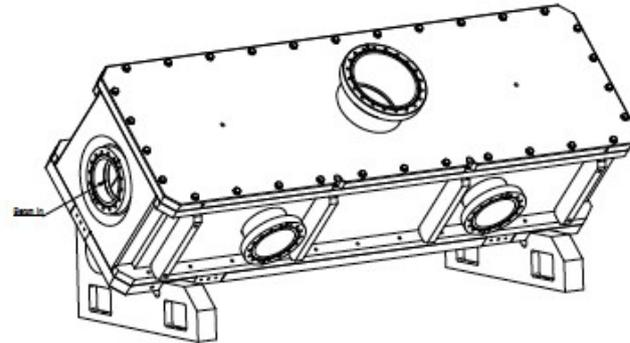
- #1, #2, #3 measurements are complete.
- Beam tubes to be welded on.
- #4 waiting for parts.



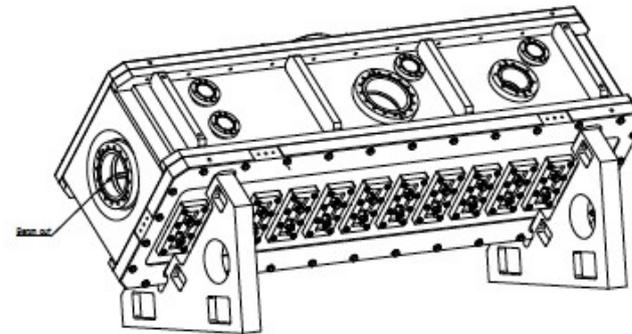


RFQ Status

- As of 17 June
- mechanic alignment has been remeasured – OK
- now we are working on the final tuning the field is now $\pm 8\%$ the frequency 202 MHz (not final)
- now we are doing the tuner ball and prepare the coupler
- the end plates are in our workshop, and silver coating of the screws

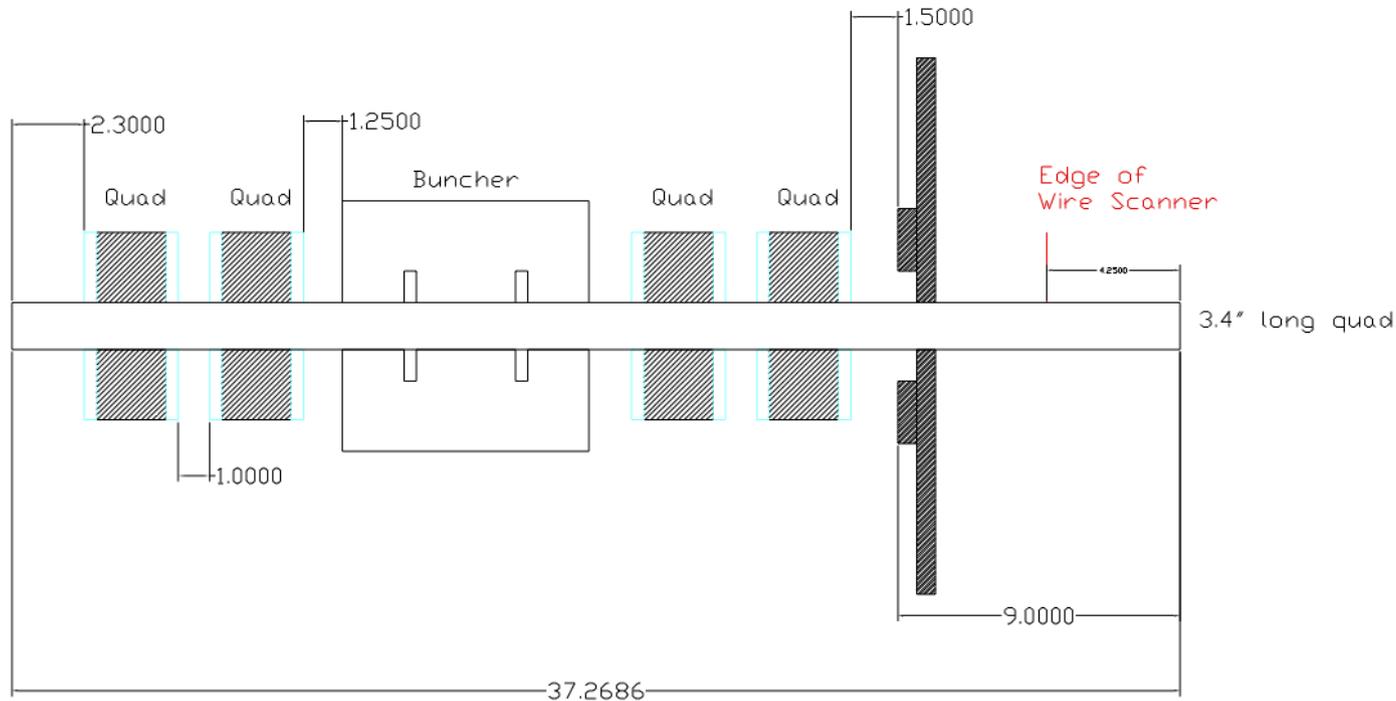


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Device	Status	Comments
4816 PA	Water manifold done (06 Jun) Adding hoses (21 Jun)	Tube installation, testing/Troubleshooting to start soon

MEBT Status

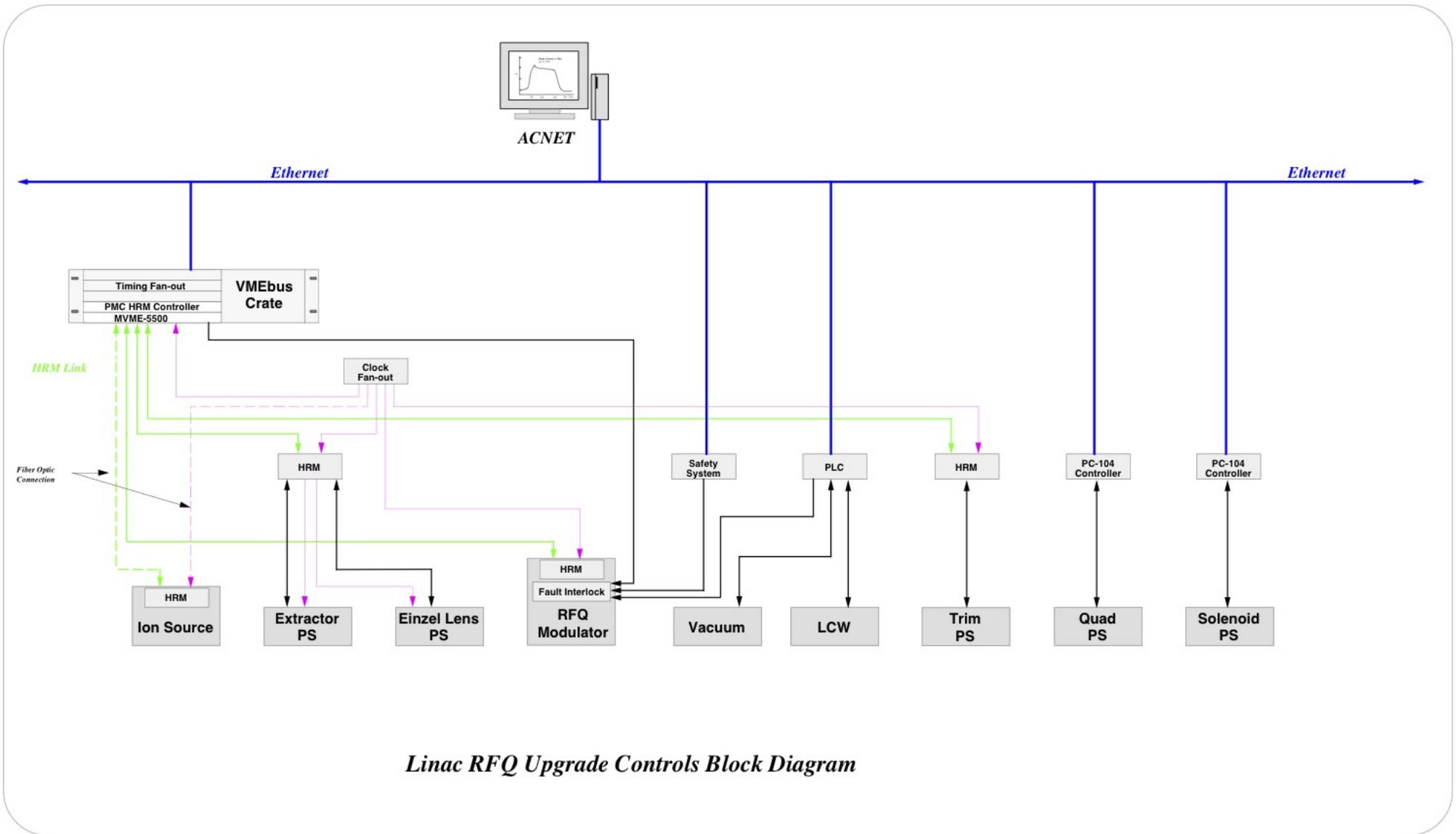


Device	Status	Comments
Quads	Coil winding has started (17 May)	2 coils have been wound. Dipole coils started (31 May). Cores will be made by High Tech \$21k each.
Buncher	Bead pull station drawing complete. At machine shop	
Power for quads	Specs to follow	Quads being redone.
Power for buncher		Use present buncher supply in the line.

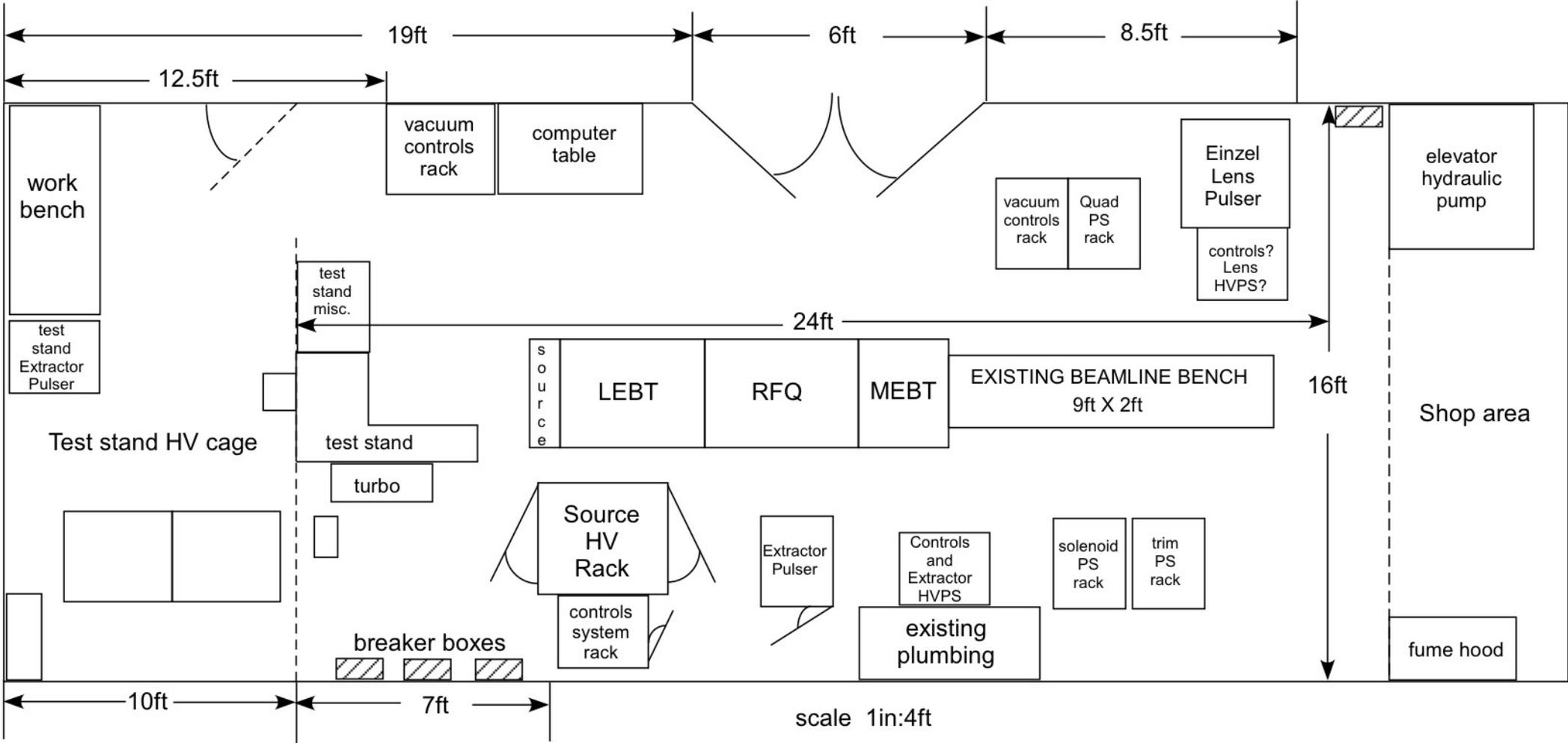
Instrumentation and Test Stand

Device	Status	Comments
Floor	Copper flooring started. (06 Jun)	Survey of rebar and conduit has been done.
Emittance probes	Removed from I- source (06 Jun)	
Water spigots	Added RFQ and bend magnet spigots (09 Jun)	
Instruments	Status see next talk	

Controls



Test Area



Safety

- Beam parameters submitted to safety (Gary Lauten) 10 Jun.