

Pre-injector Upgrade Updates (06 Jul 2011 – 20 Jul 2011)

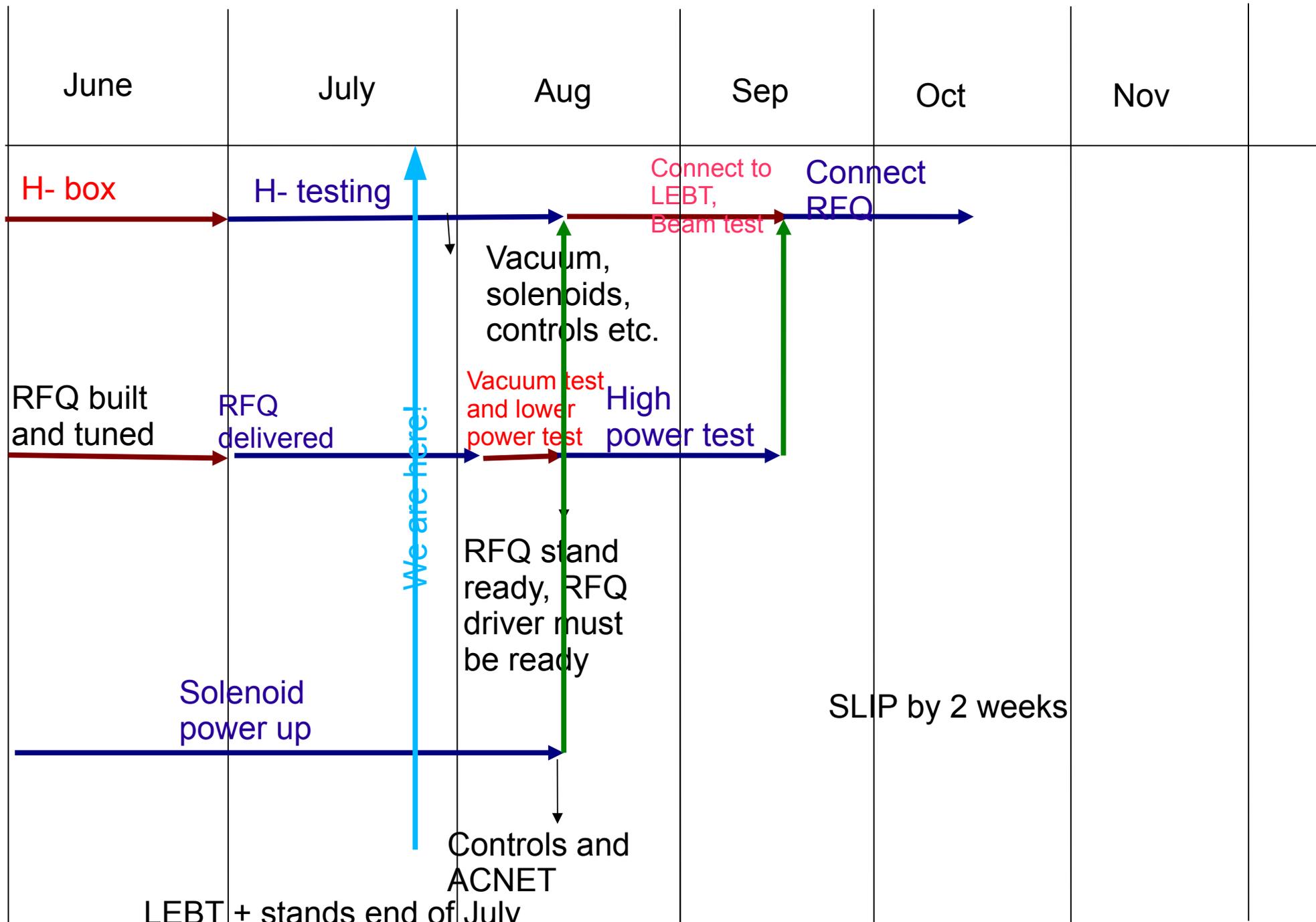
C.Y. Tan
20 Jul 2011

News

- Vacuum controls meeting 13 Jul 2011.
- Shutdown meeting 13 Jul 2011.
- Review: 01 Sep 2011
 - Fill in paper sections for the review.

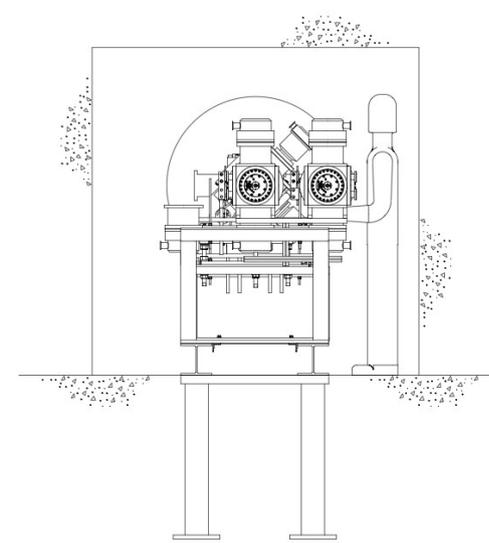
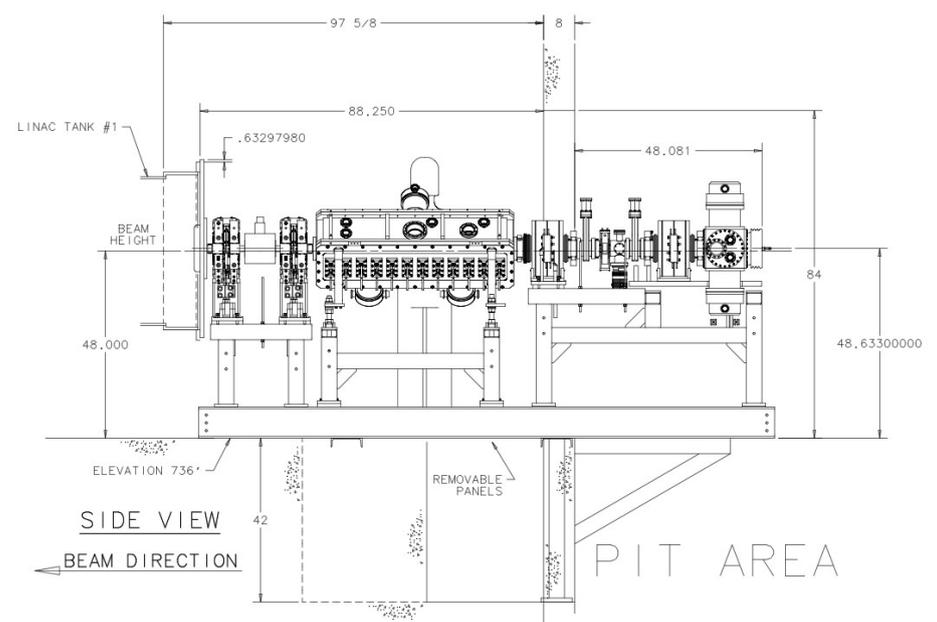
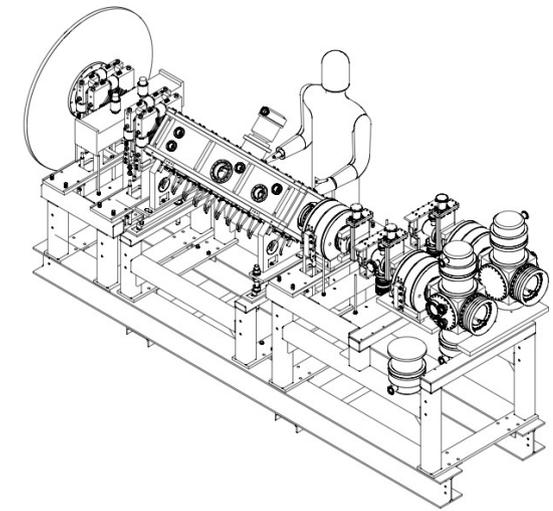
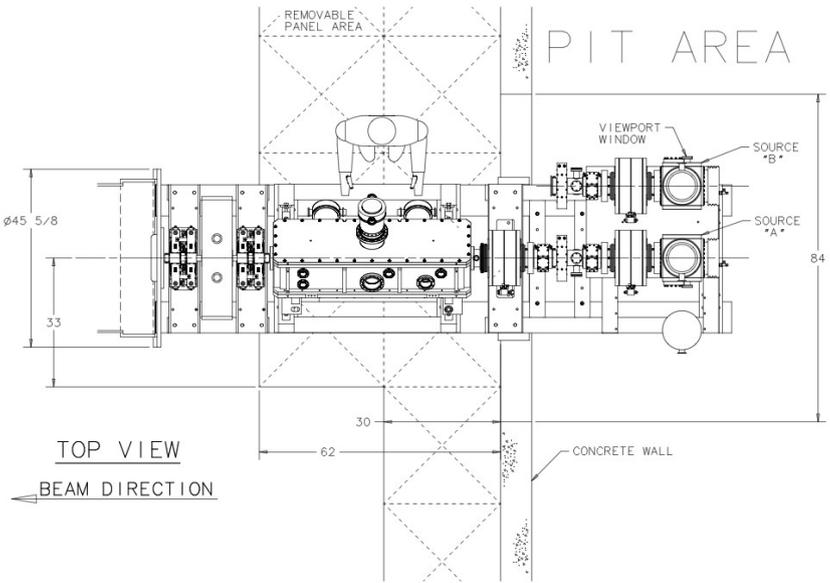
Reminders

- Fill in the MS Project time lines. See Elmie.
 - Mike Kucera
 - Vic Scarpine



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

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE

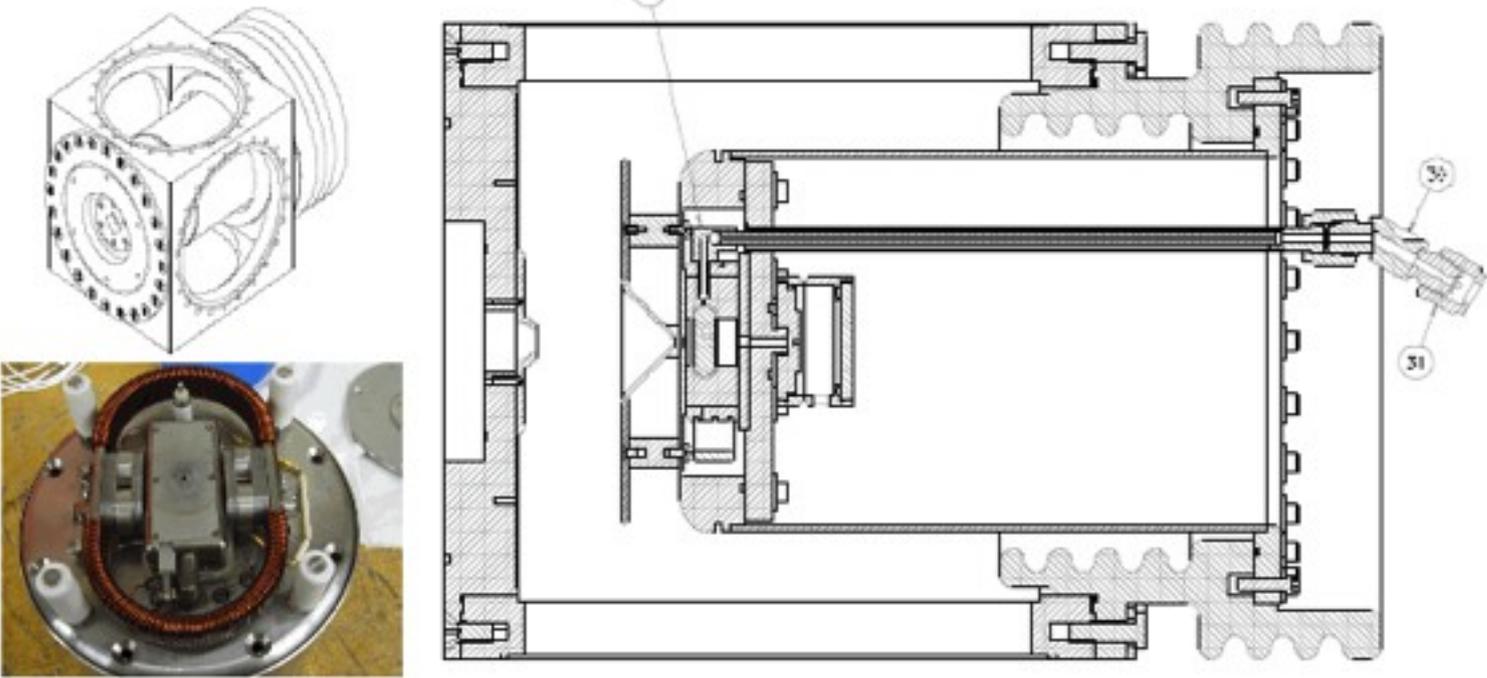


PREACCELERATOR PRELIMINARY LAYOUT

APRIL 27, 2011

UNLESS OTHERWISE SPECIFIED		ORIGINATOR	
±	±	DRAWN	
±	±	CHECKED	
1. BREAK ALL SHARP EDGES MAX.		APPROVED	
2. DO NOT SCALE DRAWING.		USED ON	
3. DIMENSIONS BASED UPON ASME Y14.5M-1994		MATERIAL	
4. MKY. ALL UNCL. 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 :		

Source Status



Device

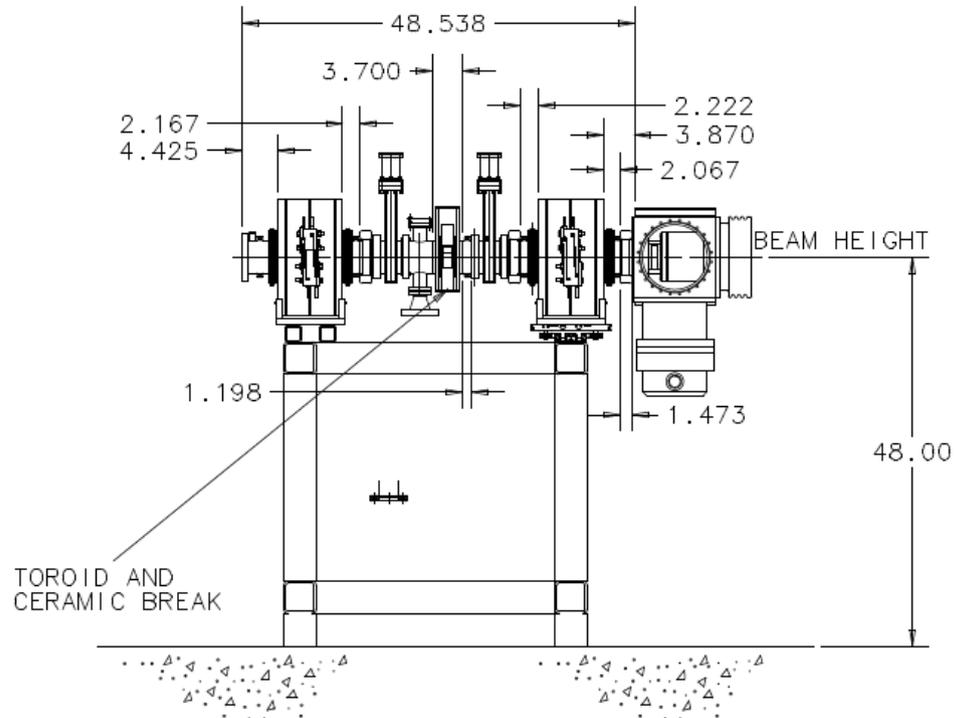
Status

Comments

2nd source cube

Assembly to start in mid week ~13 Jul.

LEBT Status



Device	Status	Comments
Solenoid PS	Ready to test solenoids	Safety review is done (29 Jun)
LEBT drawings	Being drawn	Bellows ordered End of June to early July delivery. Drawings on (12 July) waiting for parts to start manufacture process.
Correctors	final design (07 Mar 2011)	
Solid state switches	Have quote	Requisition is in the system.

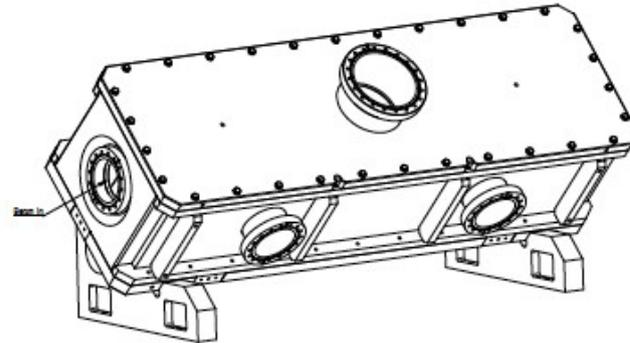
RFQ Status

•problems with the coupler (leak) and now wait on the brazing of the final loop our workshop is tight and its half manned because of holydays (sic) (08 Jul 2011)

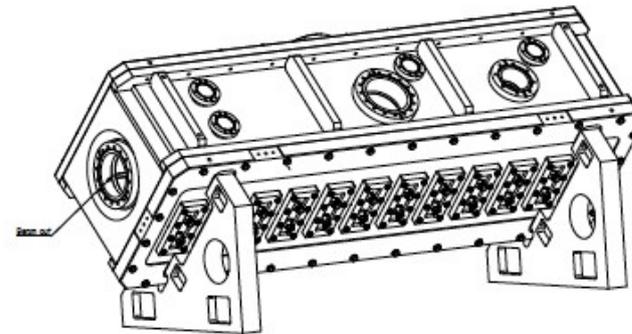
we finally got our loop and it worked well but-

we had **a leak in the coupling loop back to the workshop**

Janet and Benni working well, the UniTerms have finished, so that helps too (20 Jul)

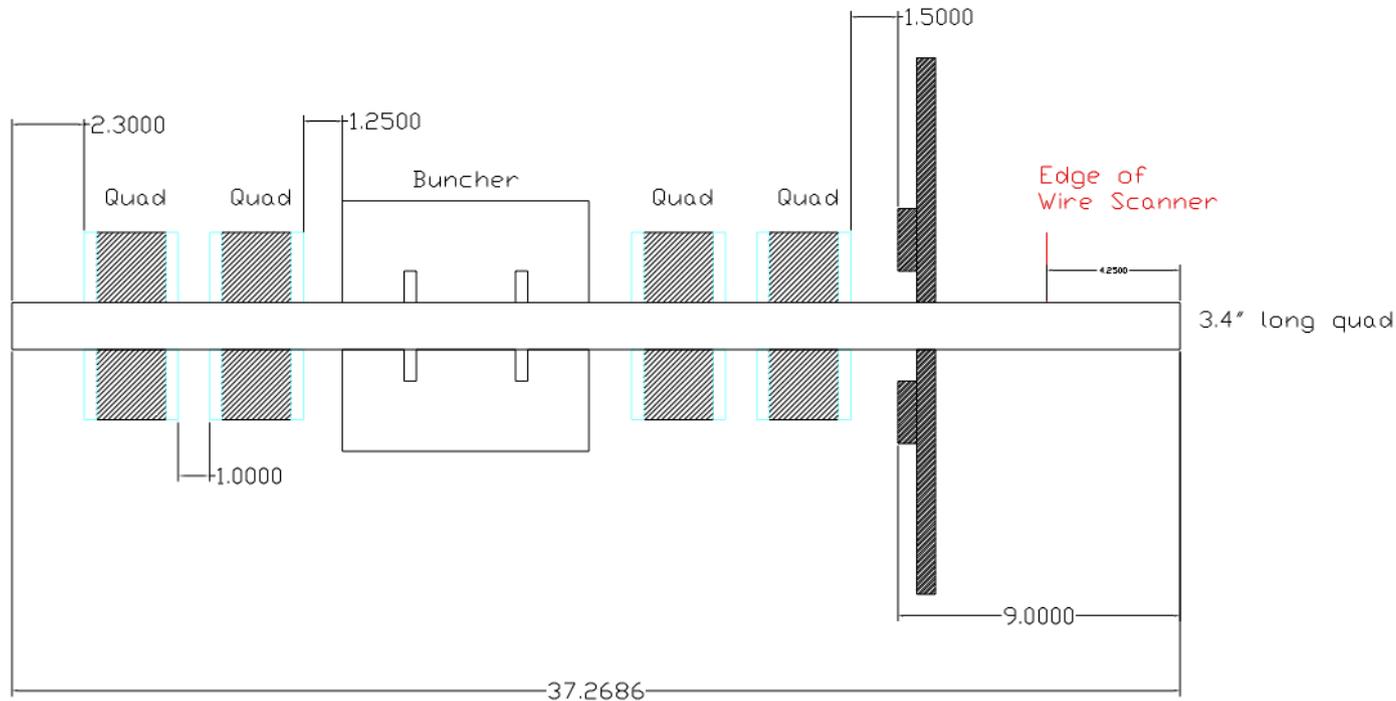


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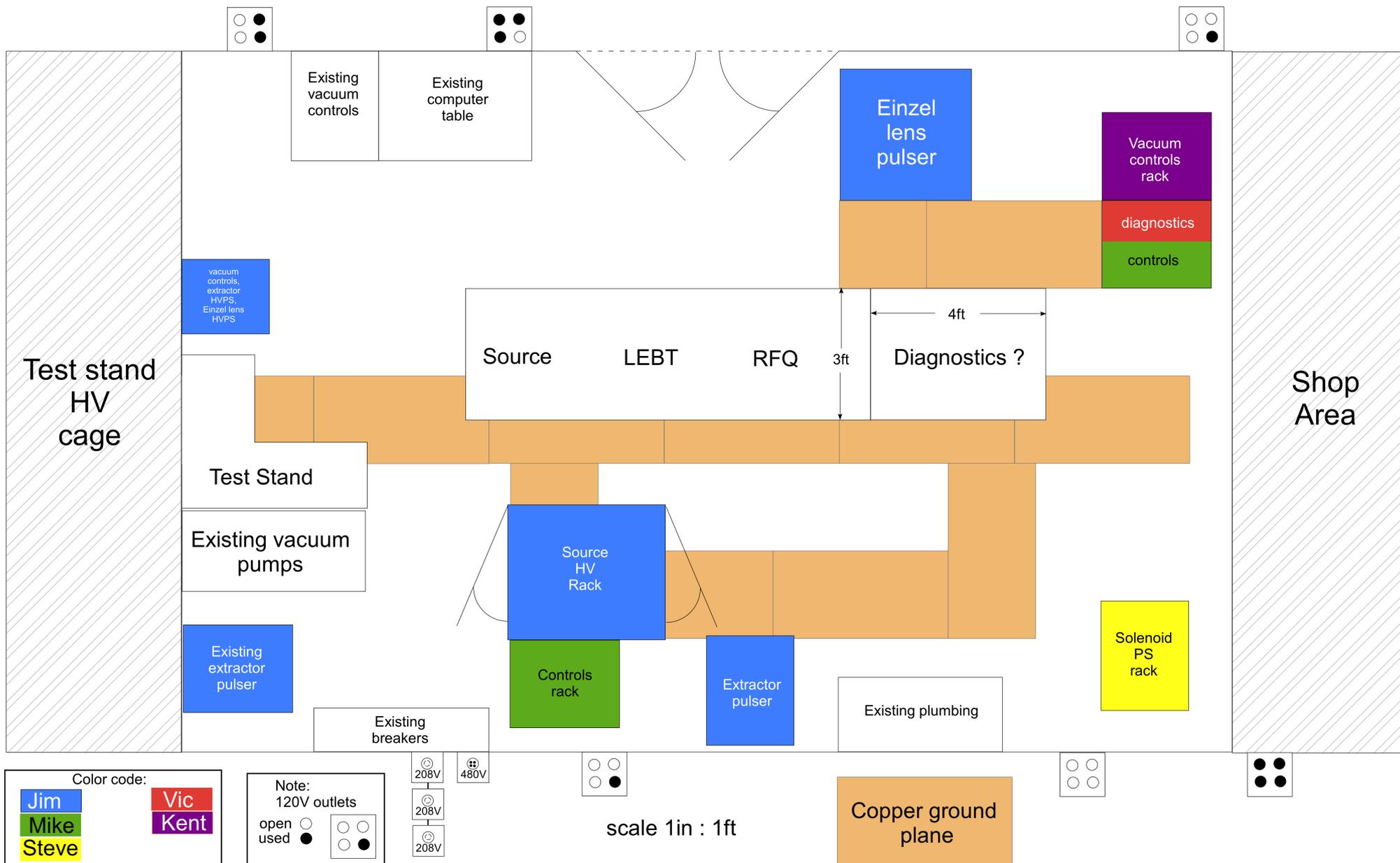
Device	Status	Comments
4816 PA	Water is hooked up. No leaks.	Expect power out of tube by 3 rd week of July.

MEBT Status



Device	Status	Comments
Quads	Coil winding has started (17 May)	All quad coils are complete (28 Jun). Dipole coils for 2 magnets complete. Potting has started. Cores will be delivered in mid Aug. 1 st magnet in Sept.
Buncher	Bead pull parts are done. (29 Jun)	
Power for quads	Specs to follow	Quads being redone.
Power for buncher		Use present buncher supply in the line.

Proposed test area layout

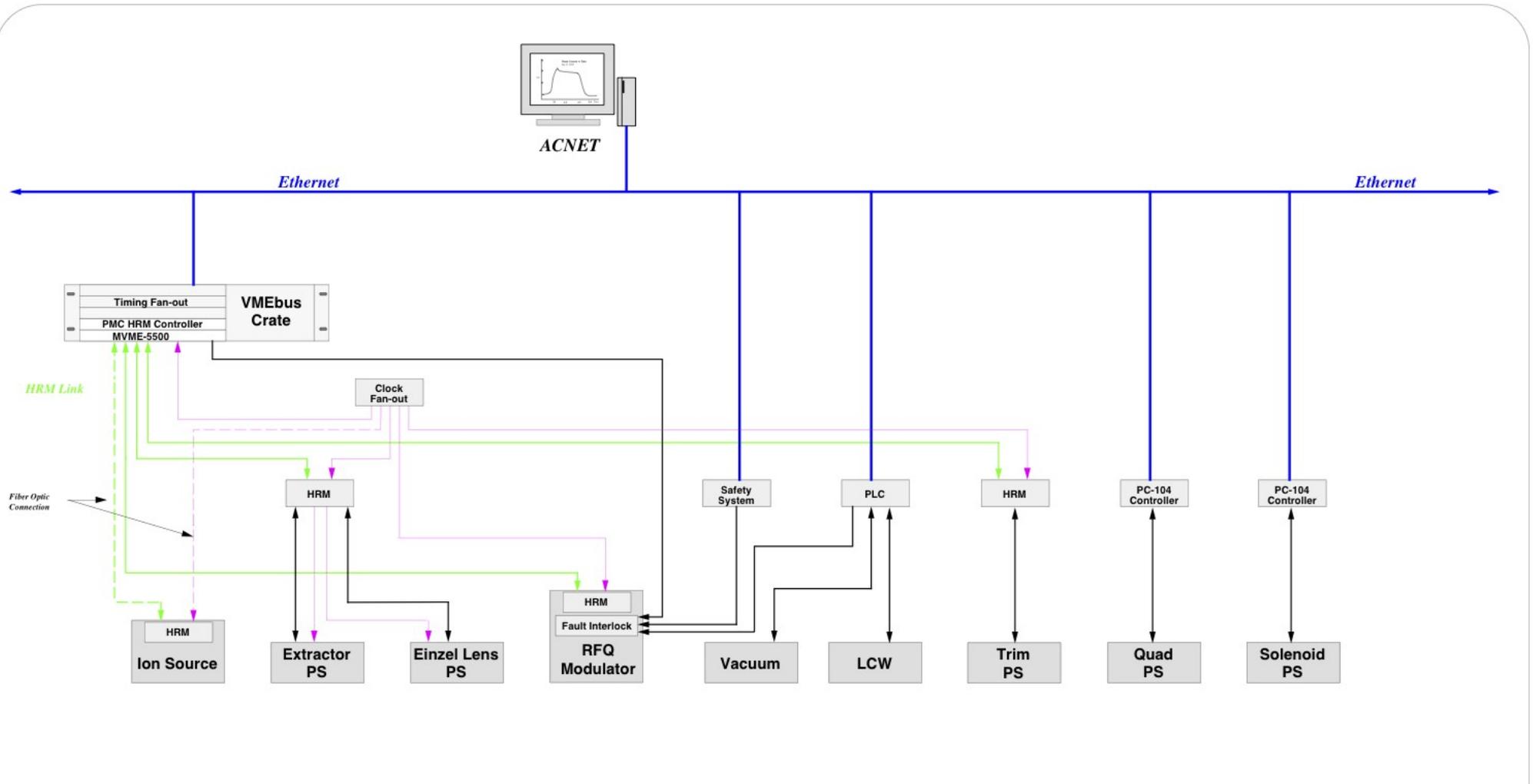


Test area, test stand and instrumentation

Device	Status	Comments
Emittance probe can	4" bellows. 5" toroid.	Done by Aug 15. (20 Jul)
Instrumentation stand		Done by 1 st week of Aug. (20 Jul)
MW electronics		Done by 30 July. (20 Jul)
New source PS	started installation (06 July)	
#2 source	Started assembly (20 July)	

Needs update?

Controls



Linac RFQ Upgrade Controls Block Diagram

Safety