

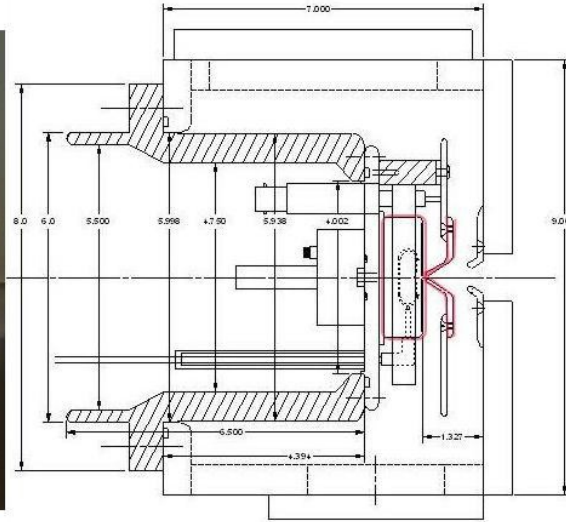
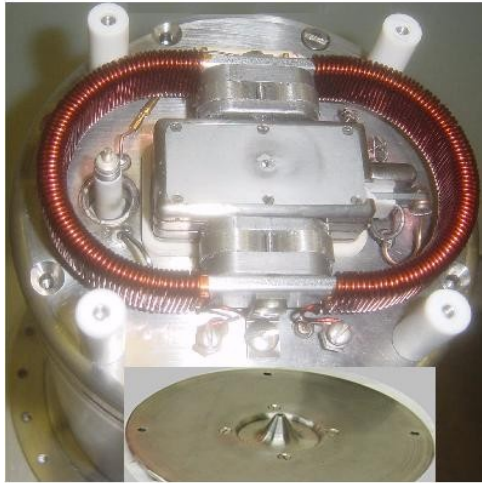
# Pre-injector Upgrade Updates (14 Apr – 28 Apr 2010)

C.Y. Tan  
28 April 2010

# News

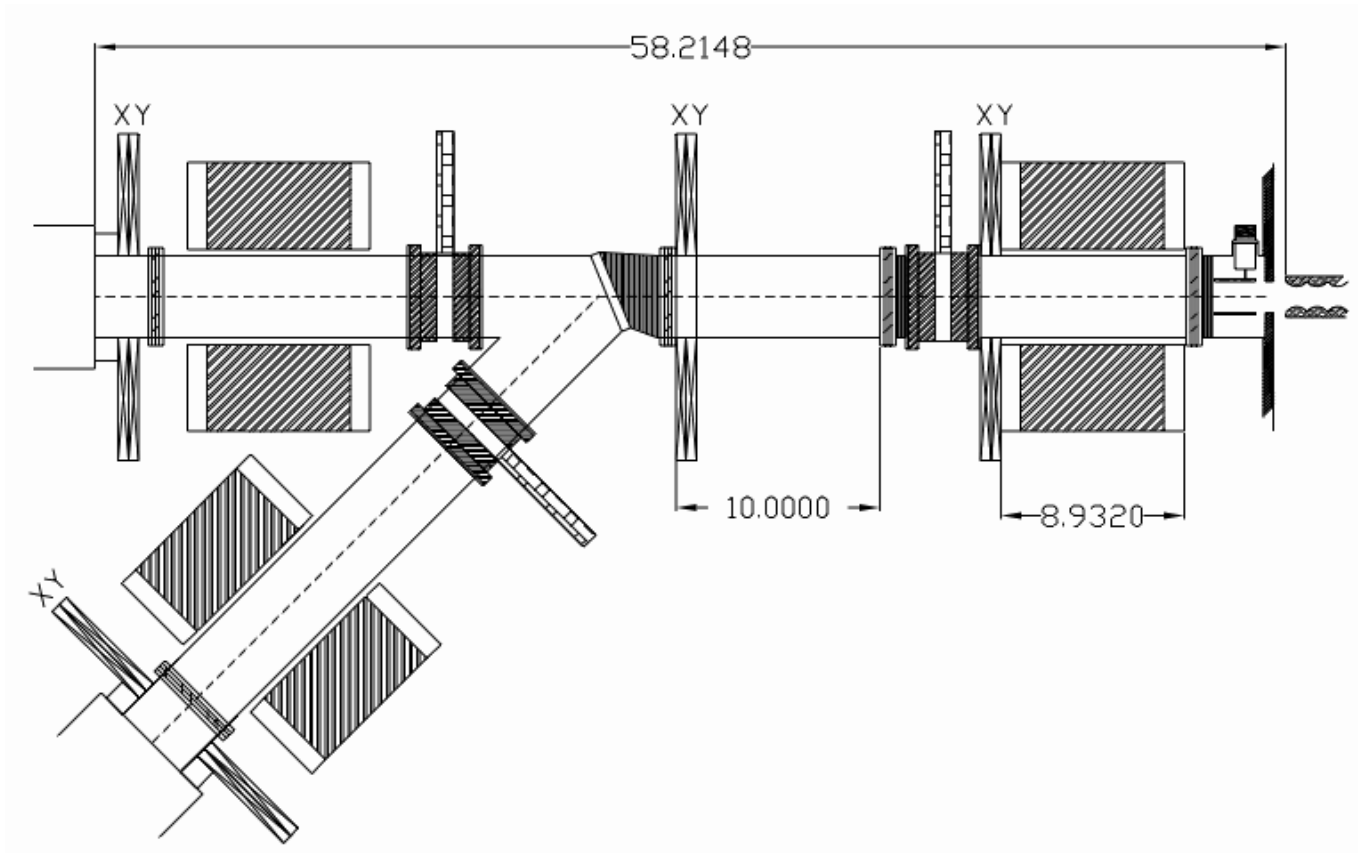
- Bill wants to have a review
  - Steimel, Webber and one external reviewer.

# Source Status



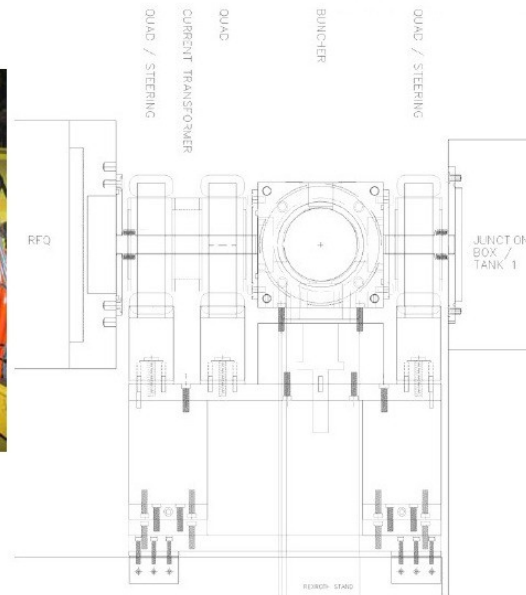
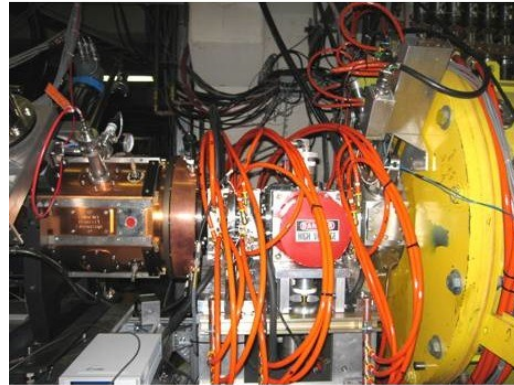
Device	Status	Comments
Source Pulsar	20 April-- Arc current voltage same as BNL	Installed. Problems with H- extraction. Works.

# LEBT Status



Device	Status	Comments
Solenoids	With drafter	Complete 1 <sup>st</sup> draft in 2 weeks
Power for solenoids		Off the shelf supplies (500A)
Correctors		Calculations for 4" beampipe correctors needed
Einzel Lens		Waiting for experiments to complete
Pulser for Einzel	Waiting for spec sheet.	Behlke switch \$11.5k.

# MEBT Status



Device	Status	Comments
Quads	Have laminations vendor. Simulations being checked at TD	\$30 to 40\$k per magnet
Buncher	Buying from Japan with BNL	Maybe
Power for quads	Must have specs ok from (TD)	Use linac quad supplies?
Power for buncher		Use present buncher supply in the line.

# RFQ Status

- PS for RFQ is at ANL.
  - Bill has looked at it. Looks good. Paperwork done to bring it here.
- Source test area will be cleared to become RFQ test area.
- Still waiting for contract!
  - Sole source paperwork sent out again (16 Apr 2010).

# RFQ reminders

- If Schempp is vendor
  - Make sure that the vanes are cleaned! See ISIS email.
    - Some cleaning details supplied by ISIS.
  - Review and verify on site mechanical design and construction (already in contract).
- Add current transformers at beginning and end of RFQ. (Save space in MEBT).
  - Once vendor is finalized, we have to design “ends” of the vacuum structure.

# Test Stand

- Room preparation
  - After beam line layout (Kevin)
    - Water – Jim Slazak
    - Electrical – Jim Ranson
- Beam dump
  - Jim Walton
    - Data has been communicated to Jim. Will get back to us.
- Instrumentation (Vic)
  - Wires
  - Dipole for energy
  - Faraday cup (longitudinal bunch length and charge)



# Controls

- Mike Kucera will need to be involved.

# Safety

- After beam line layout in test area.