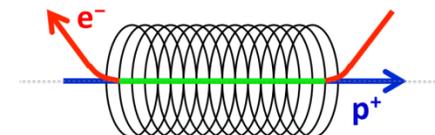


Electron Lens

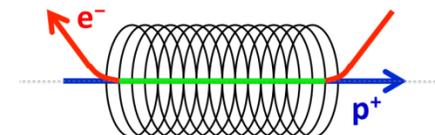


Electron Lens Superconducting Solenoid Status

Michael Anerella

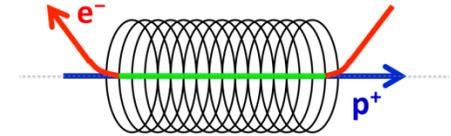
January 18, 2011

Outline



- Corrector coils
- Main solenoid coils
- Anti-Fringe field, Fringe Field coils
- Schedule

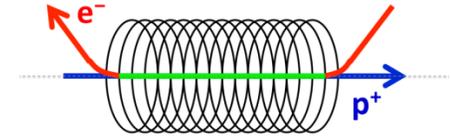
Corrector coils



- aluminum tube machining:
 - 2 tubes Received in Bldg. 902
 - Deburring started on 1st
 - Winding table being prepared; hub adaptors being machined
- Coil winding travelers drafted, being reviewed
- Assembly Drawings, parts, in progress
- Other materials (Nomex, substrate, transfer tape, etc.) in house or on order

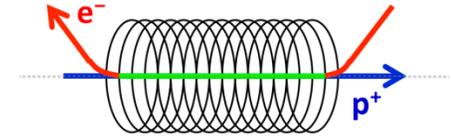


Main Solenoid Coils



- Gantry tested, ready to use
- Main support tube on order, due ~~1/6/11~~ ~~1/14/11~~ **1/21/11**
(vendor working to achieve straightness)
- Machining drawing signed off, released, **work order released to CS and estimated.**
- Superconductor shipped to NEWT
- Kapton insulating of sc - order placed, delivery promised 2/2/11 (partial quantities sooner)
- Assembly drawing, parts drawings - underway (LR)

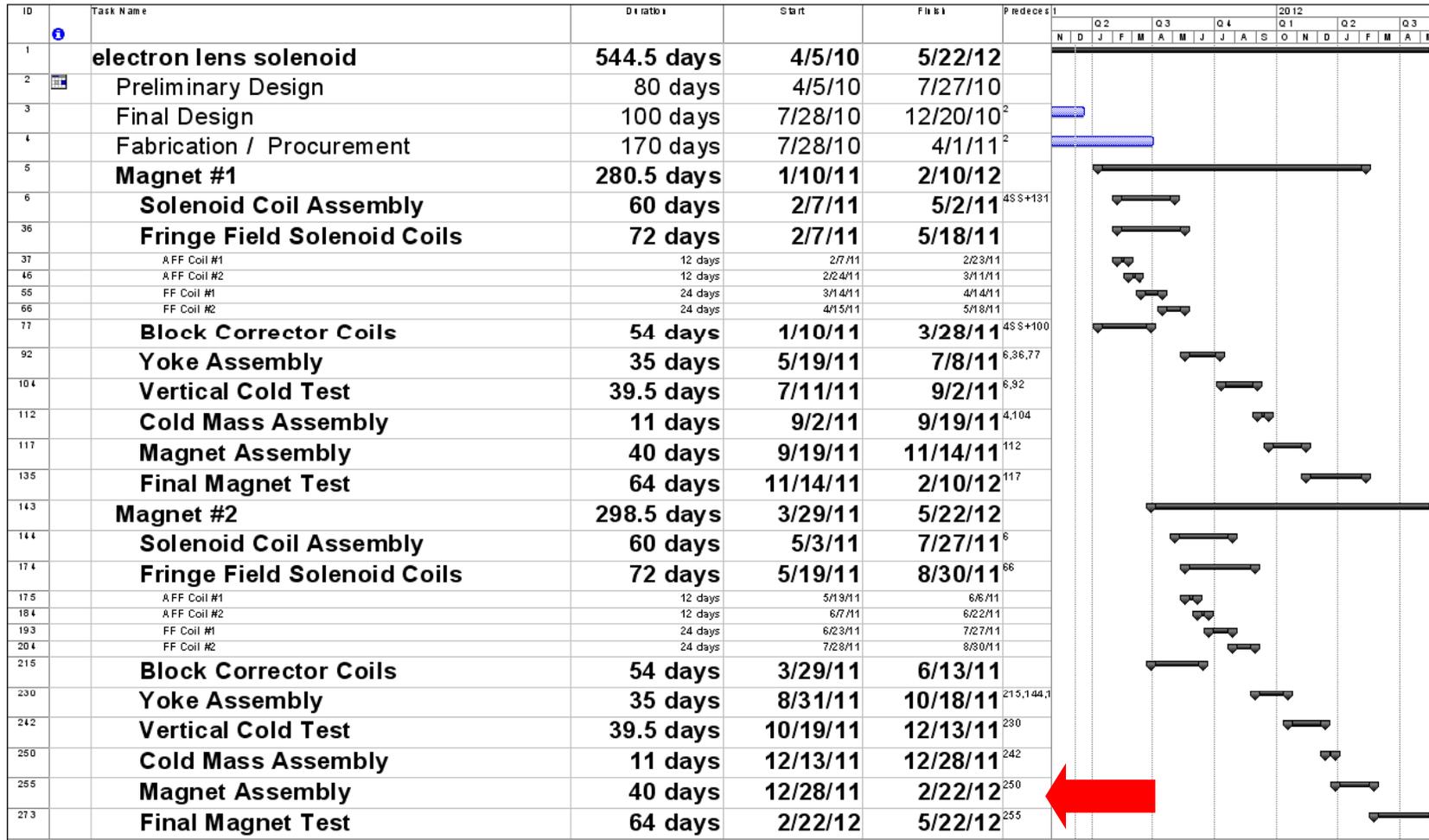
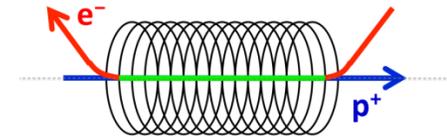
AFF, FF Solenoid coils



- AFF conductor is “drop-offs” from main solenoid so delivery is the same
- AFF support hub
 - Model / drawings finished
 - Material received
 - Machining of 1st hub finished, 2nd underway
- Assembly drawing completed, being reviewed
- Winding machine upgrade - hardware received, installation to start ~ now
- FF work to follow AFF



Latest schedule



Meets 4/12 need date (2 months earlier than last schedule)