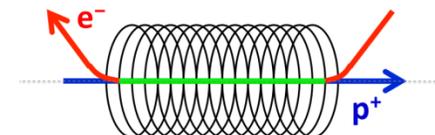


Electron Lens

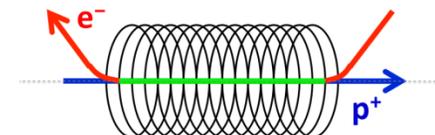


Electron Lens Superconducting Solenoid Status

Michael Anerella

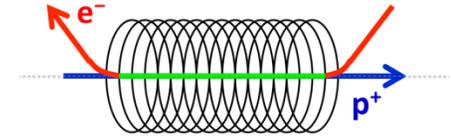
May 10, 2011

Outline



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

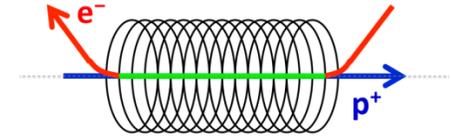
Corrector coils



- 12th Coil winding complete
- Pushers - complete, tube cut for forming in oven (AM/RC)
- OVEN - need "retort" for final cure (AM/RC)



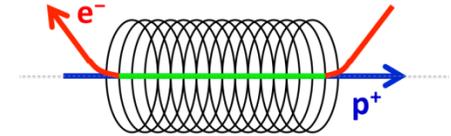
Main Solenoid Coils



- Parts insulating, reworking thickness (insert segments) continues (TVW)
- Electrical repair to layer 4 complete
- Traveler updated, needs release
- 3rd double layer complete -
 - Gantry issues resolved, turn counts correct
 - Some small irregularities in conductor pitch remain (due to wire itself?)
 - Thicker fiberglass now being use between layers to better match insert segments



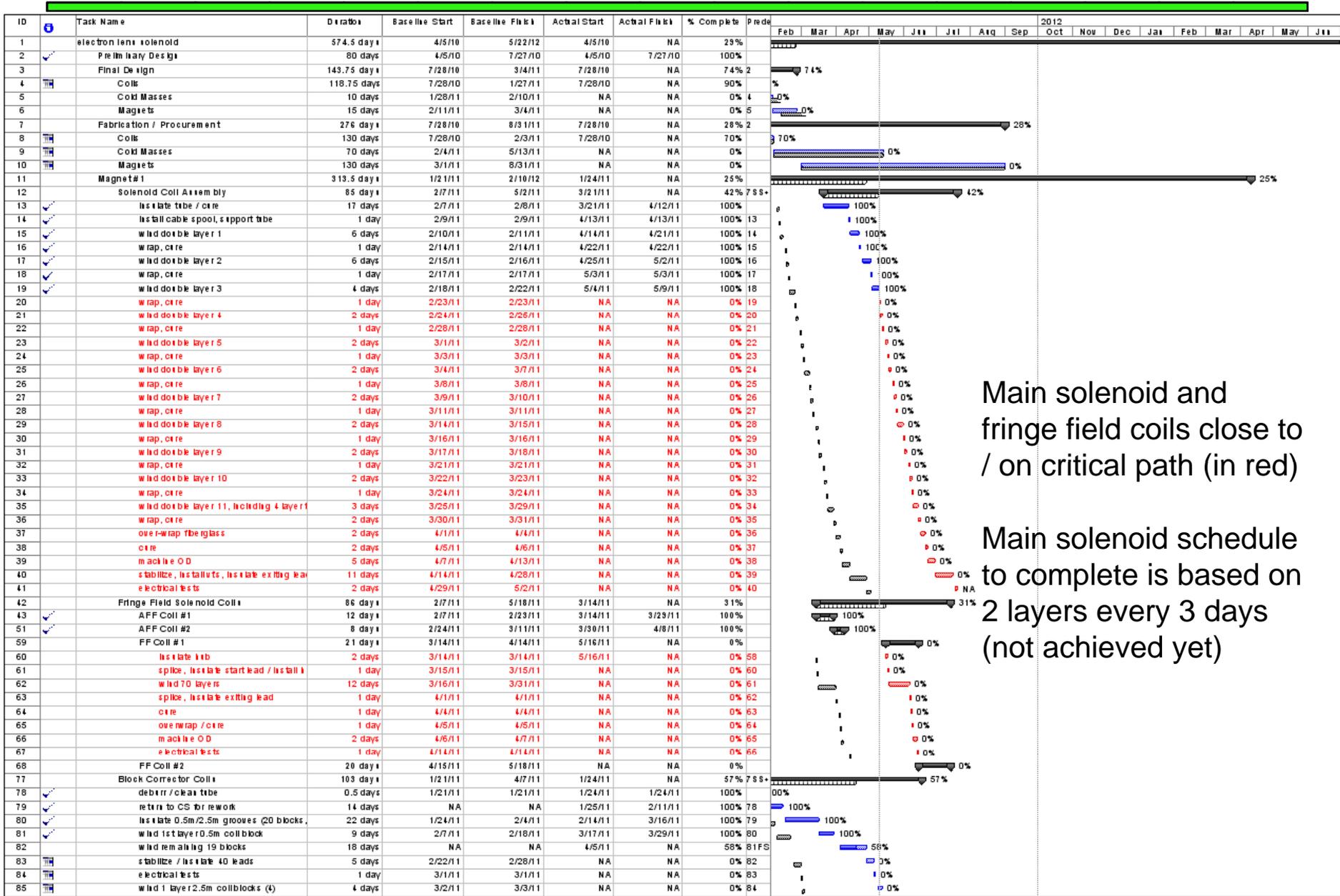
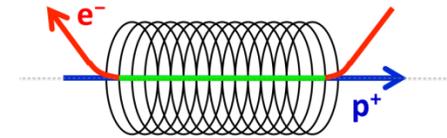
AFF, FF Solenoid coils



- FF coil #1
 - Rework to flanges underway for exiting lead, O.D. reduction per AM (TVW)
 - Kapton insulating of hub underway afterwards
 - Winding to start after insulation is complete
 - **Traveler approval needed**



schedule p.1



Main solenoid and fringe field coils close to / on critical path (in red)

Main solenoid schedule to complete is based on 2 layers every 3 days (not achieved yet)

schedule p.3

