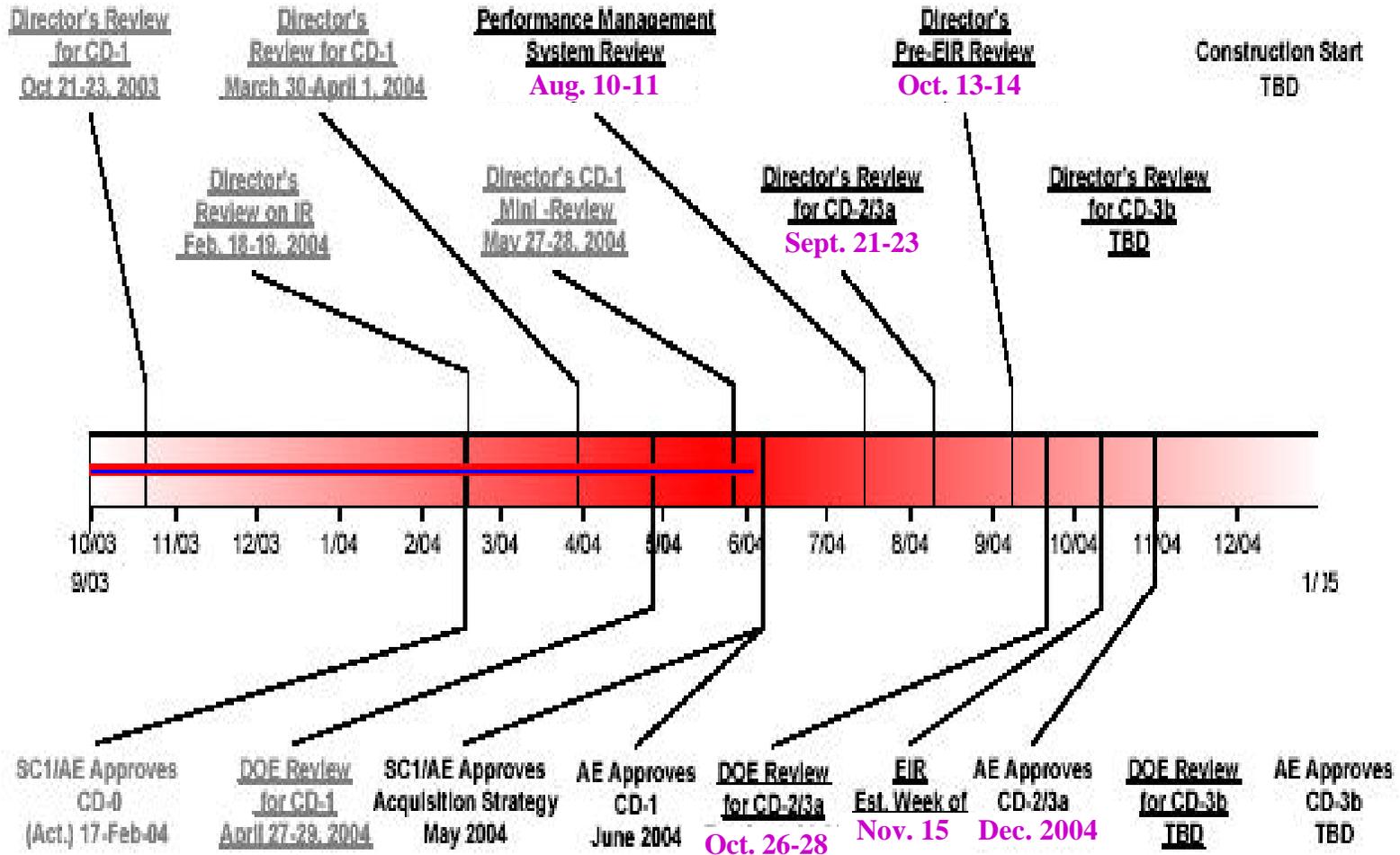


# Changes for JJ V2 Lattice, and etc.

Mike Church

# Review Schedule



## “Change Control”

---

### JJ V2

✍ John Johnstone and Tanaji Sen will write a short paper describing the recent lattice changes, this will be reviewed by Mike Syphers, Don Edwards, and Vladimir Shiltsev (physics issues only). Comments will be forwarded to BTeV management for their review. I will also forward to BTeV management a description of cost and schedule changes related to the lattice change. I hope to complete this by end of June. In the meantime, we will proceed with the changes.

✍ X2R/X2L ✍ X2

✍ Fewer cryogenic elements to build

✍ No H-pool required

**Other changes do not require external “change control”**

## Other Changes

---

- ✍ Adopt BNL corrector estimates as our baseline
  - ✍ ✍ 100A corrector power supplies
- ✍ Adopt single HTS lead pair/spool as our baseline
  - ✍ ✍ Also reduces cost of power lead tubing installation
- ✍ X1H/X1V ✍ X1
- ✍ Use Special Process Spare HTS leads for TABs
- ✍ Q2 shunts ✍ Q1/Q3 shunts
- ✍ Magnet and spools fabrication order will be “spares last”

Deepak is reworking magnet cost and schedule. I have asked for cost/schedule updates from Jay, Sharon, and George. New beamline Excel spreadsheet with JJ V2 is now available.

## Design Report Updates

---

### Peter Garbincius is now official keeper of the Design Report

- ✍ Chapter 2 (AP) requires significant updates
  - ✍ add new section on resonance strength calculations
- ✍ Chapter 3 (quads) -- mostly updates on tables and figures
- ✍ Chapter 4 (spools) – mostly updates on tables and figures
  - ✍ specifically include elements of BNL corrector design???
- ✍ Chapter 5 (power supplies) – mostly updates on tables and figures
  - ✍ magnetic lengths have changed – update inductances
- ✍ Chapter 6 (cryogenics) – mostly updates on tables and figures
- ✍ Chapters 7-11 – probably ok, but I will review
- ✍ Chapter 12 (installation) – minor updates
- ✍ Appendices
  - ✍ 13.1 – new beamline spreadsheet
  - ✍ 13.2 – HTS lead tests – eliminate?