

# Tevatron D3?-? Magnet Failure?

Monday, August 14, 2006  
12:46 PM

10-10-06 Owl Shift:

## 10-10-06 Scheduling Meeting:

- Looks like failed dipole.
  - Meter on voltage taps.
  - Bus to bus short D32-4 magnet (dead short), and 5 ohm to ground.
  - D32-5 voltage taps are open.
  - D32-5 is frosty
  - Fault happened 4 seconds into the dump
- Cryo
  - Think it is a single phase to vacuum break.
  - Have enough He to recover.
- Schedule - Bob Mau puts up a guess for a schedule.
  - Today
    - Eve - Finish hipot
    - Owls - Break vacuum, sep check out.
  - Wed - warmup (60 hours)
  - Thur - warmup
  - Fri
    - Owls - warm-up
    - Day + Eve - Replace magnet
  - Sat - Leak check
  - Sun - Leak check
  - Mon - Leak check
  - Tue - Cooldown (24 to 36 hours)
  - Wed - Start-up
- Experts isolating rest of the rings.
- D17 seps - recovering. Need to evaluate if we have to run separators.
- More jobs?
  - A4 and B1 - unstack shielding and work on HLS system.
    - 2 days,
  - Warmup D1 to room temp, and fix quad. -
  - D0 vacuum - sneg tube -
    - 2 day job
  - D3 also has old style conning towers?
    - 5 days, 8 hours per day.
    - Maybe do an inspection instead.
  - Bakeout separators? {D17 (2), D11 (3)} We are at 10-6 now without IPs.
    - Two techs and 2 pumps
    - Full day to get a bake setup.
  - Install Crystal assembly?
- Pbar water leak
  - As-found- orbit, etcl.
  - Warmup cryo - less than 24 hours.
  - Cut pipe
  - Blocks off.
  - New magnet in tunnel on Friday morning
  - Installed by fri night
  - Done late on Tuesday.
- NuMI water leak
  - Shielding off
  - Maybe fix in place

- Maybe fix in place
- If not, then a bigger job.
- Pelletron access
  - 2 day access
- Tie in CHL.
  - Invite FESS -
- Main Injector
  - Pull out flying wires -
  - Mi-8 line
- By 0700am - Tevatron in Supervised access.
  - No other jobs until approval