



Machine Status after Shutdown

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Machine Status

- Linac – operating since last week
 - No spare PA tubes; vendor to ship one 2/15; Brookhaven has 6, willing to send one
- Booster – operating since last week
 - MKS05 extraction kicker failed / replaced with pinger
 - Enough spare ferrites to build new pinger
- Main Injector – operating since Sunday AM
 - Turn-on progressed smoothly
 - Minor, but annoying, BPM and flying wire problems
 - Providing 120 GeV protons for pbar commissioning
 - Proton coalescing checked out this AM – back to nominal performance $\sim 85\%$ eff \Rightarrow 250-270 E9 / bunch



Machine Status

- Transfer Lines – not bad, need tweaking
 - Different current readbacks after power supply work causing some hassles
- Pbar – stacking at modest level
 - Need to tune P1, P2 transfer lines for small spot size
 - Characterizing new production target
 - Need to phase-in Debuncher, Accumulator cooling
- Recycler – almost ready for beam
 - Replaced valve in R22 transfer line on Saturday; vacuum OK, waiting to test valves on Tuesday
 - All correctors powered up OK



Tevatron Status

- Turn-on progressed very smoothly (at first...)
 - No ground faults to find
 - No quenches during ramp tests up to 1005 GeV
- Shunt for the Main Injector dipoles now at C0 has been commissioned successfully
- Was essentially waiting for beam on Sunday when ground fault developed @ C34

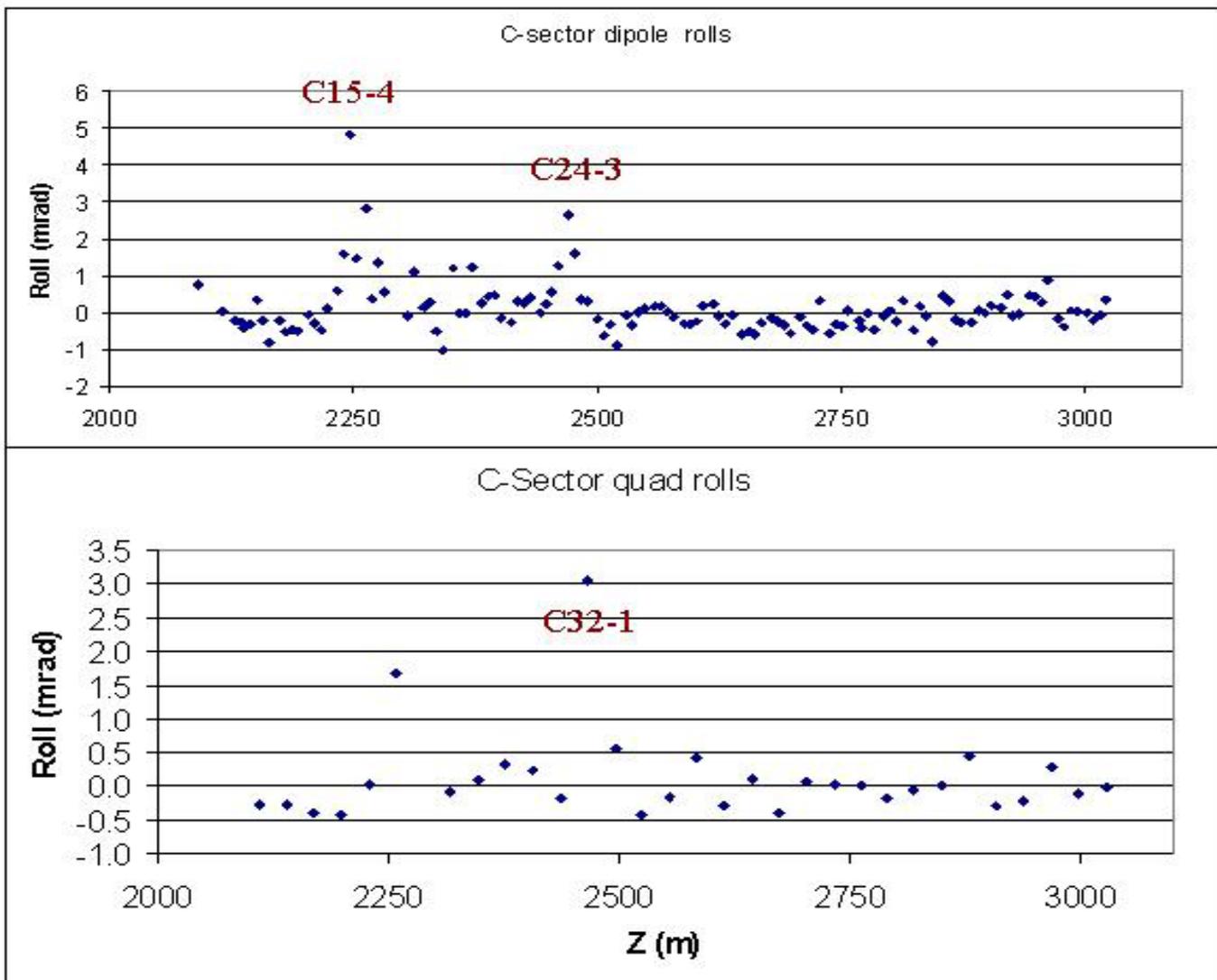


Tevatron Plans

- Warming up C3 to 300K to isolate ground fault and possibly replace a dipole or repair interface
 - Warm up complete Tuesday evening
- While C3 is warm, unroll C32-1 quadrupole
 - Roll is 3 mrad according the tiltmeter measurements done during shutdown
 - Does not impact schedule
- Start turning-on Tev on Sunday 9 Feb?
- Resume post-shutdown commissioning (4-5 days)



Magnet Rolls According to Tiltmeter



C-
sector
rolls



Plan for Rest of Complex

- Continue post-shutdown commissioning activities
 - Make sure everything else OK for Collider operation
 - Complete tune-up of MI-8 line for MiniBoone running
 - Recommission MI flying wires after shutdown work
 - Stack to at least 100 mA by Friday
- Shoot pbars to Main Injector on Friday
 - Exercise to verify readiness for Collider operation
- Take advantage of opportunity for extended study time until Tev is ready for HEP shot next week

Weekly Schedule

Update 2/3/03 11:23 AM (2)	MONDAY 2/3/03	TUESDAY 2/4/03	WEDNESDAY 2/5/03	THURSDAY 2/6/03	FRIDAY 2/7/03	SATURDAY 2/8/03	SUNDAY 2/9/03
Ovds 0000 to 0800	Warm up Tev	Warm up Tev	Open up magnet	Leak check	Leak check draft	Cooldown	Tev cold
DAYS 0800 to 1600	NTF-PT Warm up Tev C34 2-3	NTF - PT 0830-1030 Mi F- sector controlled access Warm up Tev	Leak check Magnet replacement	NTF-Pt Leak check	Leak check Pbar shot to Mi	cooldown	Start up
EVEN 1600 to 2400	Warm up Tev -Pbar stacking	Tev Warm	Pump out C34	Leak check	High pot Sign off's	cooldown	Start up



Summary

- Starting up the complex proceeded smoothly until Tevatron developed hard ground fault at C3
- Rest of complex tuning up as planned
- Tev house C3 warming to 300K to isolate fault, possibly replace C34-2 or C34-3 dipole
 - Also unroll C32-1 quadrupole in that same house
- Tev turn-on begins Sunday (??), then begin the post-shutdown commissioning again (4-5 days)
- Other machines have opportunity for studies during Tev repair and recovery