

- **Crew Chief Summary:**
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- **Notes from Integration:**
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- **Machine Summaries:**
 - **Linac**

- This Week:
 - Installed and Interlocked new 750 keV Beam Stop
 - Cleaned L.E. LINAC Modulators & Rectifiers (LFR1-LRF5)
 - Finished Water Maintenance
 - Modified Chopper and moved H.E. Quad 74 for future McCool Operations
 - **Restored Beam to LINAC Yesterday !!!!**
 - Plan to Run beam to NTF later today after 4616 tube change out
- Next Week:
 - Start Preventative maintenance on H.E. Klystron Systems
 - Investigate Q3Bulk Supply
 - Continue LLRF Character-ization on LRF4 and LRF5
 - NTF Patient Treatment (Mon, Wed, & Thur)
 - MuCool Alignment Survey planned on Friday, March 17



- **Booster**

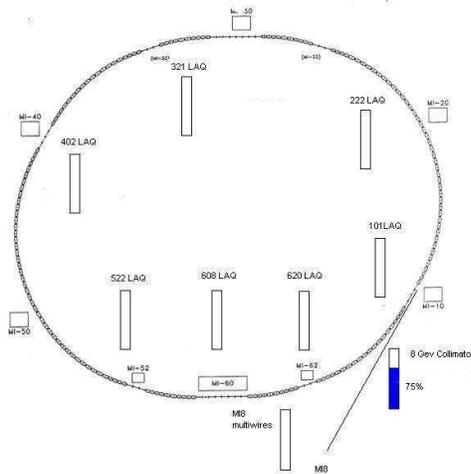
- Summary:
 - Completed shield wall removal
 - Installed MI-8 ceiling hoist/Kicker supports
 - Removed MI-8 Quads
 - New Dump placed in MI-8 line
 - Completed ORBMP Girder/Septa removal
 - Removed 400 MeV elements
 - Installed LCW water taps
 - RF maintenance continues
 - Another RAD survey completed
 - **Still waiting on MI-8 conduit!!!**
 - Dump



- ORBMP



- Requests:
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- **Main Injector**
 - Summary:
 - Repaired vacuum leaks in the MI60 RF area.
 - Continued installation of MI8 collimator
 - Continued installation of MI10 kicker cooling system
 - Replaced LEP correction elements in MI8.
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 - Status:



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○ **Schedule:**

Updated 3/6/06	MONDAY 3/6	TUESDAY 3/7	WEDNESDAY 3/8	THURSDAY 3/9	FRIDAY 3/10	SATURDAY 3/11	Sunday 3/13
Owls 0000 to 0800	Linac M&D Days Monday to Wed			ICW Hydrant flush day shift all week			
DAYS 0800 to 1600	0815-1130 Tex house power off A3, B3	0700-0900 Pbar Ed 24 off affects Apr 03, 20, 29, 40, Pbar tunnels and	Pbar on generators next 3 weeks	NTF FT E27 pwr off 3 weeks House power off		0700-0900 all of Booster off to clean tie switch	
1300-1600	Tex house power off C3, D3 Pbar feeder on generators next 3 weeks	0815-1130 Tex house power off A1, B1 1300-1600 Tex house power off C1, D1 UPS maintenance AD computer room/M&C room	Connect Cable at F0 for 46h off * hrs 0815-1630 Linac start up	Tex Ed closed 1 Ed4g at a time A1, A2, A3, F4, F3 this week watch for guide signs at Tex ring entrance 0815-1130 Tex house power off E1, F1 1300-1600 Tex house power off A2, B2	0815-1130 Tex house power off C2, D2 1300-1600 Tex house power off E2, F2	0700-1130 Booster east gallery tunnel powers power off 1300-1600 Booster west gallery, tunnel, tunnel pwr off	
EVES 1600 to 2400		S&S Linac for safety system tests					

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- Noon Saturday, Pbar power outage.
- Booster feeder maintenance - may happen on Saturday depending on

- the weather.
- Next Week

Updated 3/1/06	MONDAY 3/13	TUESDAY 3/14	WEDNESDAY 3/15	THURSDAY 3/16	FRIDAY 3/17	SATURDAY 3/18	Sunday 3/19
Owls 0800 to 0800							
DAYS	NTF-PT		NTF-PT	NTF-PT			
0800 to 1600	E27 pwr off 3 weeks House power Ok			TeV Rd closed 1 Blig at a time A1, A2, A3, F4, F3 this week watch for guide signs at TeV ring entrance		0900-1100 Pbar Generators off to allow generator maintenance.	
0815-1130	TeV house power off E3, F3 1200-1600 TeV house power off A4, B4 Pbar feeder on generators next 3 weeks	0815-1130 TeV house power off C4, D4 0200-1600 TeV house power off E4, F4	0815-1130 TeV House pwr outages A0, B0 1200-1600 TeV House pwr outages C0,D0	0815-1130 TeV house power off F0 1200-1600 TeV house power off E0		CDF House PWR off (8 hrs)	
EVES			Generator maintenance for Pbar (was on previous Saturday)				
1600 to 2400							

Pasted from <http://www-bdnew.fnal.gov/operations/schedule/March_3_2006.gif>

- Safety**
 - Want everyone to be aware and alert at all times.
 - Three injuries in the past week all preventable
 - Employee hit head on unistrut frame above TeV magnets.
 - Could have been prevented with the use of bump cap or hard hat.
 - ESH Department has bump caps available as an alternative to hard hats for head protection against incidental contact.
 - Employee lost balance and fell while reaching out to plug in an extension cord.
 - This incident occurred when the employee didn't take the time to walk over to the outlet to plug in the extension cord.
 - Instead, the employee tried to stand on a unistrut frame with one foot and reach over to the outlet.

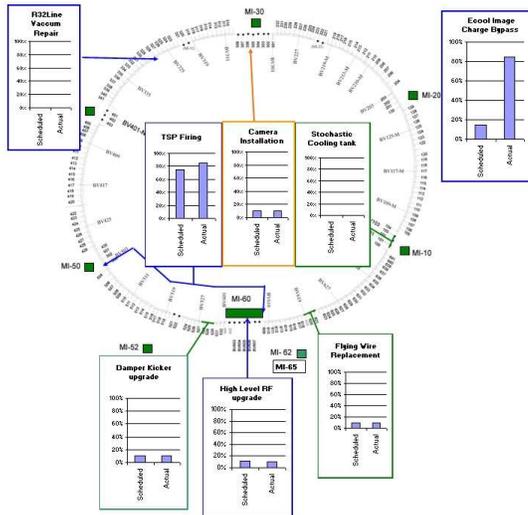


- Preliminary analysis indicates the tool may not have been assembled correctly which allowed the Tube Lathe to rotate against the drill motor.



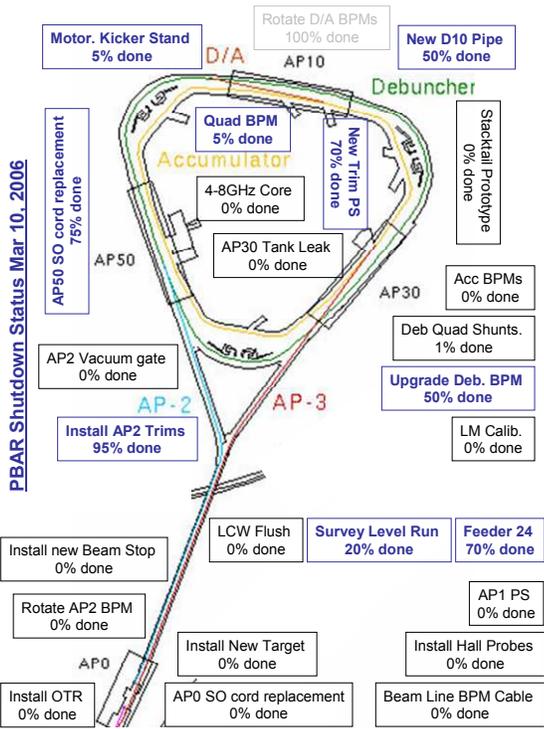
- Manufacturers instructions state to keep hands and arms a minimum of 2' away from moving parts except when starting or stopping.
- Although the Tube Lathe is designed to be portable, the base could have been clamped to the table to prevent movement.
- Many injuries can be avoided by
 - Not taking unnecessary risks
 - Planning your work
 - Knowing how to use equipment
 - Preparing a Hazard Analysis
 - Using PPE to protect from injuries
 - Watching out for yourself and fellow workers
- The important part of this shutdown is to get our work done safely.

○ **Recycler**



○ **Pbar**

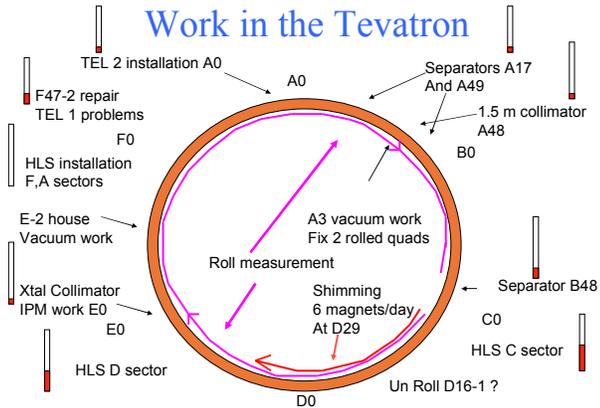
- Summary:



- Requests:

- Tevatron**

- Summary:



- TEL 1 has unexpected problems.

- Boring hole for B48 Separator:

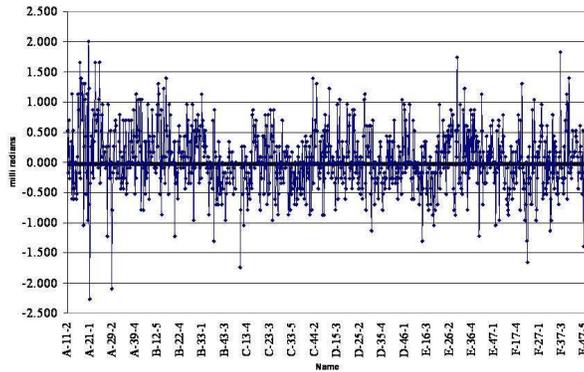


- Roll Measurement



- Data

average roll



- Status
 - There are 38 magnets with rolls > 1 mr these need to be unrolled These have all moved since Nov 2004. There are 64 magnets that have roll change > 0.5 mr 25 in A sector
 - F 4 vacuum certification underway TEL 1 has a serious leak discussions under way on a solution
 - TEL 2 bypass in place
 - Core boring for DRMs at E0
 - Working on low beta alignment at B0
 - Dipole shimming proceeding as planned
 - Getting Tev fix list cleared

○ NuMI

- Week 2 Status:
 - R Blocks Removed to Allow Horn 2 Inspection
 - RAW Suction Problem Found – Cracked at Ceramic
 - Horn 2 Moved from Target Chase to Work Cell
 - Repair Being Investigated by MSD
- Target Hall Crane Failure
 - Blown SCR in VFD for Hook Motor and Brake Failure
 - Repair Scheduled for Saturday
- Shield Wall to Target Hall Opened
- Hatch Covers to Pre-Target Removed
- Drain Cleaning Scope Defined
- Preparatory Work for OTR Installation
- 20 KW Quad Power Supplies Being Modified by EES
- Motor Operated 13.8 KV Switch for TR-MI65B Has Arrived

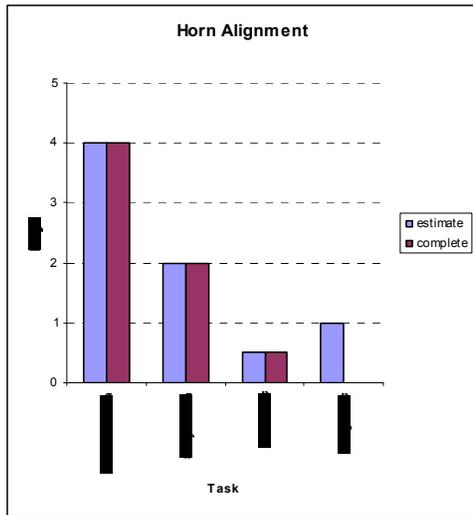
- Requests:

○ SY120

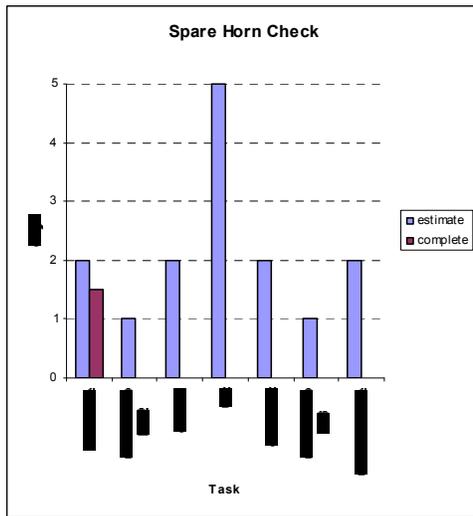
- Summary:
 - Small maintenance items.
 - Request for new quad at A0
 - Bigger job, reconfigure Mtest for low momentum mode.
- Requests:

○ MiniBooNE

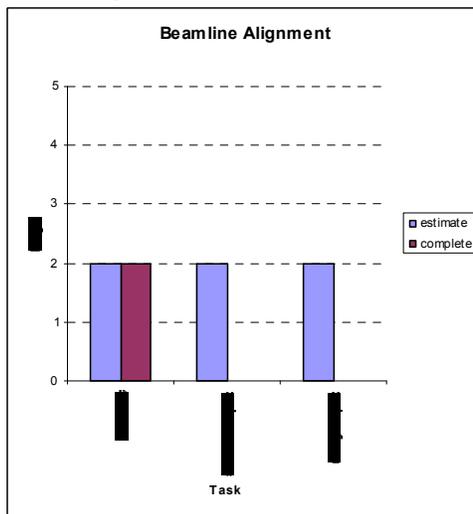
- Horn Alignment:



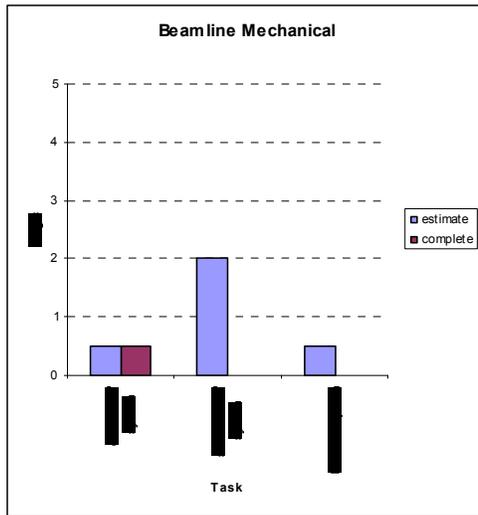
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- Test Spare horn



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- Beamline Alignment



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- Service RAW



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 Mechanical Support

- Summary:
 - Going Well.

□
 Alignment

- Summary:

□
 CDF

- Summary:
 - Kautzky valves replaced
 - Minor muon chamber problems fixed.
 - Reprogrammed TDC cards for STT.
 - Next week would like a survey crew in.
- Requests:
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 DO

- Summary:
 - Disconnect beryllium beam pipe
 - Cut flanges off EC beam pipes
 - Dismount Luminosity Monitors
 - Re-route silicon coolant flow
 - Uncable and extract outer H disks
 - Uncable inner H disks
 - Prepare for installation of new adapter cards
 - Remove Run IIA Level 1 Calorimeter trigger and associated infrastructure
 - Begin uncabling DFE crates for Level 1 Central Track Trigger
 - Recovery from Feeder 46B downtime
 - Keep solenoid cold while helium compressors are offline

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 Requests:

ID	TASK NAME	Actual	Current Forecast	Pre-Shutdown Forecast	Milestones
2	Beginning of RunIIb Tevatron Shutdown	2/23/06		2/27/06	2/27/06
28	Detector Open, Ready for Access	3/01/06		3/02/06	3/07/06
34	RunIIa Be Beam Pipe Disconnected	3/3/06		3/7/06	3/9/06
47	H Disks Removed		3/16/06	3/17/06	3/23/06
56	RunIIa Be Beam Pipe Removed		3/24/06	3/27/06	3/31/06
75	Layer 0 Tooling and Mounts Ready		4/7/06	4/10/06	4/17/06
79	Layer 0 Installed		4/11/06	4/12/06	4/19/06
91	RunIIb Be Pipe Connected, Layer 0 Cabled		4/25/06	4/26/06	5/03/06
94	Inner H Disks Re-Installed		5/1/06	5/2/06	5/9/06
99	Silicon Cold and Ready for Technical Commissioning		5/4/06	5/5/06	5/12/06
103	Complete Technical Commissioning of Silicon		5/10/06	5/11/06	5/18/06
118	Detector Closed for Tevatron Resumption		6/01/06	6/02/06	6/4/06

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 Cryo

Cryo Operations:

- Tevatron at LN2 temperature and stable with magnet cryostat vacuum problems addressed well by MSD/Vacuum Group. No cryo problems with scheduled power outages of individual houses and feeders. Helium losses look stable at 10 kscf/day (1/3-1/2 of normal during Tev operations).
- F4, A3 and A1 are at room temperature and isolated with LOTO; E2 is slowly warming up to room temperature though magnet cryostat vacuum

is still intact. Looks like neither F4 nor A1 will have HTS spools installed due to mechanical interferences/geometry issues.

- Pbar Debuncher D60 helium tanks have been isolated for warmup to room temperature.
- CHL Nitrogen Reliquefier (NRL) has been shut down for maintenance, actually tripped on night before scheduled shutdown.
- ACNET application programs relating to FRIG operations are being tested on Linux consoles.
- CHL operator interfaces (HMI) for all nodes (9) have been upgraded to Intellution iFix from Fix32 with no problems noted.
- CHL shiftwork (24/7) operations will cease today. MCR will monitor the cryogenic system.

CHL Maintenance:

- General facility maintenance was started.
- CHL Helium Compr "A" cooling tower installation is continuing with anticipated completion by month end.
- NRL maintenance has been started, which includes overhauling the IR Booster Compressor and cleaning the Niagara Intercooler for the TSI Compressor.
- Helium Coldbox-2 controls upgrade has been started. This involves replacing existing 1980-vintage PLC and HMI hardware/software to Siemens' 505 system and Intellution iFix, thus final upgrade matching four other existing operational systems.

FRIG Maintenance:

- Ringwide overhauls of wet expanders in progress with 7/24 completed.
- Leak checking for vacuum leaks on Cryogenic Transfer Line was started as follows:
 - E4-F1 leak at F1-end bellows was verified and to be fixed tentatively next week.
 - D1-D2 leak checking was completed and no leaks were found; vacuum pumpout valves will be overhauled.
 - D3-D4 leak checking was completed and no leaks were found; vacuum pumpout valves will be overhauled.
- Five IHI cold compressors were removed for inspection and are being overhauled.
- Various FRIG bldg vacuum maintenance is in progress, as well as support work on houses at room temperature.
- Various instrumentation repairs in progress (e.g. lost charge on VPTs).
- Controls Dept is replacing FRIG Front End UPS units with new ones; all except FRIG-A are done.
- B0 Low Beta Kautzky relief valves (4) inside CDF were replaced as preventive maintenance.
- Various Mycom compressor maintenance is in progress.

- - **RF**
 - Bad news:
 - Large pressure surge for 15 minutes. Over 150-160 psi. Normally run around 114PSI.
 - This will add weeks to work needed to do by RF.
 - Will have to re hose a lot of the equipment.
 - Work:
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 - **FESS**
 - Summary:
 - Finished cleaning out dead clam. 420 pounds total.
 - Still need to test the valves before the Zebra Muscle treatment.
 - Requests:
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 - **Other**
 - Summary:
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 - Requests:
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