

MIPP Project Status

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Items



- **Fermilab “Current” Schedule**
- **Progress Summary Since May**
- **Funding**
- **Summer in California**
- **People Moves**
- **Short Term Schedule**

Fermilab "Current" Schedule Revised



- 2005 Period Now Shown As "Open" On 7/28/03 Schedules

– "Current"

Year		2003				2004			
Tevatron Collider	B	CDF & Dzero				CDF & Dzero			
	MI	MiniBooNE				MiniBooNE			
Meson 120	MT	Test Beam				Test Beam			
	MC	E907/MIPP				E907/MIPP			

– "Long Range"

Year		2005	
Tevatron Collider	B	OPEN	
	MI	MINOS	
Meson 120	MT	OPEN	
	MC	OPEN	
	ME/P	OPEN	

– Mar 19 version:

Year		2003		2004		2005	
Tevatron Collider	B	CDF & Dzero		CDF & Dzero		CDF & Dzero	
	MI	MiniBoone		MiniBooNE		MINOS	
Meson 120	MT	Test Beam		Test Beam		Test Beam	
	MC	E907/MIPP		E907/MIPP		E907/MIPP	

- RUN or DATA
- STARTUP/COMMISSIONING
- INSTALLATION
- M&D (SHUTDOWN)

Progress Since May



- **“Install soon” (May) → “Nearly Installed” (Aug)**
- **Tasks (Nearly) Completed Since May**
 - **Beam** Components installed, connections and alignment remain.
 - **BCKOV** Installation nearly complete.
 - **Targets** Target changer installation nearly complete, have targets
Liquid Hydrogen design not yet started!
 - **TPC** Installation nearly complete.
 - **Magnets** Operational.
 - **Chambers** DC1, DC2, DC4 installed,
Testing DC4 readout with DAQ 0,
PWC5, PWC6 installed.
 - **CKOV** Shields installed.
 - **RICH** Support equipment nearly installed, waiting for gas.
 - **ECAL** Installation nearly complete.
 - **HCAL** Mounted on stand, some assembly required.
 - **DAQ** Zero'th order (nearly?) running.
 - **Trigger** Rapidly converging on design.

Funding



- **Livermore Funds At Fermilab Completely Spent**
- **Fermilab (PPD) Supplying Technical Labor for MIPP**
- **Fermilab (PPD) Supplying Technical Labor for BEAM!**

- **Livermore Funds At Livermore Nearly Spent**

- **Started Planning FY04 Work at Fermilab**
 - **Don't anticipate funding delays.**

Summer in California



- **Year-end Planning Forced Hard Choices**
 - June Suspend CKOV work
 - July Looked even worse - more cuts necessary to September plan?
 - Aug Additional year end \$ became available (this week!)
- **June/July Crises Led To Livermore Pre-Shutdown Priorities:**
 1. BC Readout - most benefit to MIPP with first beam
 - Zero'th Order DAQ (probably enables DC readout)
 - Trigger
 2. TPC Installation
 3. TPC DAQ
 4. CKOV
- **Current Plan**
 - No more cuts
 - Restart CKOV work
 - ~\$10K for crucial procurements:
 - keep people working,
 - start operations (rack protection, gas fills?)

Need a list by end of next week - talk to PDB or Leon.

Personnel Changes



- **David Northacker has withdrawn from MIPP**
 - He decided he needed to focus on CMS
 - Still available for expert consultations
- **David Asner (Livermore) → Pittsburgh (CLEO C)**
 - Andre Lebedev and Mike Heffner now working on DAQ
(Pulls Mike from TPC DAQ somewhat, to get BC readout)
- **Other Introductions From the Floor?**

Short Term Schedule



- **Fermilab Shutdown Delayed, Longer**
 - Moved to 9/8/03 – 11/17/03 (was 8/25/03 – 10/13/03)
- **MIPP Beam (Next Talk)**
 - Primary Beam Possible Before Shutdown
 - *Muons!* Through MIPP
 - Secondary Beam?
- **MIPP Experiment**
 - First challenge is BC read out during initial beam line tuning
 - Muons during primary startup
 - Secondaries
 - Then complete experiment before end of shutdown
- **Lot of activity in MC7 -**
 - Potential for conflicts over access, resources
 - Remarkably smooth over the summer - Let's keep it that way
- **Don't get fast, loose, and dangerous in the last minute rush!**