



D0 Status Report

Bill Lee
FNAL

All Experimenters' Meeting
13 September 2010



Significant Events (30 Aug -5 Sep)

- 30 August
 - 20 minutes before store 8042, D0 ramped down the solenoid to repair a water leak in the power supply. The solenoid was back up one hour into the store.
 - During the squeeze of store 8042, D0 lost a silicon sequencer power supply leading to 1/6th of the silicon not to be read out.
 - An access was requested for after the store to replace the power supply. Repairs were made to recover a few channels of the calorimeter and a PDT.
- 2 September
 - Opportunistic access for PDT system.
- 3 September
 - Opportunistic access for Muon system.
- 5 September
 - A false water drip indication trips off the trigger framework(TFW). The TFW was recovered after 2.5 hours.



Data Taking

Delivered Lum (pb⁻¹) Recorded Lum (pb⁻¹) Efficiency (%) Comment

30 Aug	4.11	3.61 (0.91)	88 (22)	Solenoid PS water leak, silicon PS failure, special runs. Access
31 Aug	8.12	7.34	90	
01 Sep	6.82	6.14	90	
02 Sep	2.07	1.91	92	Opportunistic Access for PDT
03 Sep	0.00	0.00		Opportunistic Access for Muon
04 Sep	8.09	7.36	91	
05 Sep	7.92	6.62	84	2.5 hours down for Trigger Framework trip
28 Jun – 4 Jul	37.1	33.0 (30.3)	89 (82)	(Data taken with the full detector.)



Significant Events (6 - 12 Sep)

- 7 September
 - Attempt to bring Trane Chiller online, ground faults, and trips substation
 - Cryo, chillers, and gas flow offline
 - One hour access requested to recover from a water flow problem for a Calorimeter rack.
 - CAL preamp fuse failure
 - Requires long access to open detector.
 - Dropped interlocks
 - Our apologies and thanks to operations for coming to resecure.
- 9 September
 - During store 8073, a calorimeter BLS (base line subtraction) power supply begins to trip every 10 minutes.
- 10 September
 - Access to recover a bad BLS card.



Data Taking

Delivered Recorded Efficiency
Lum (pb⁻¹) Lum (pb⁻¹) (%)

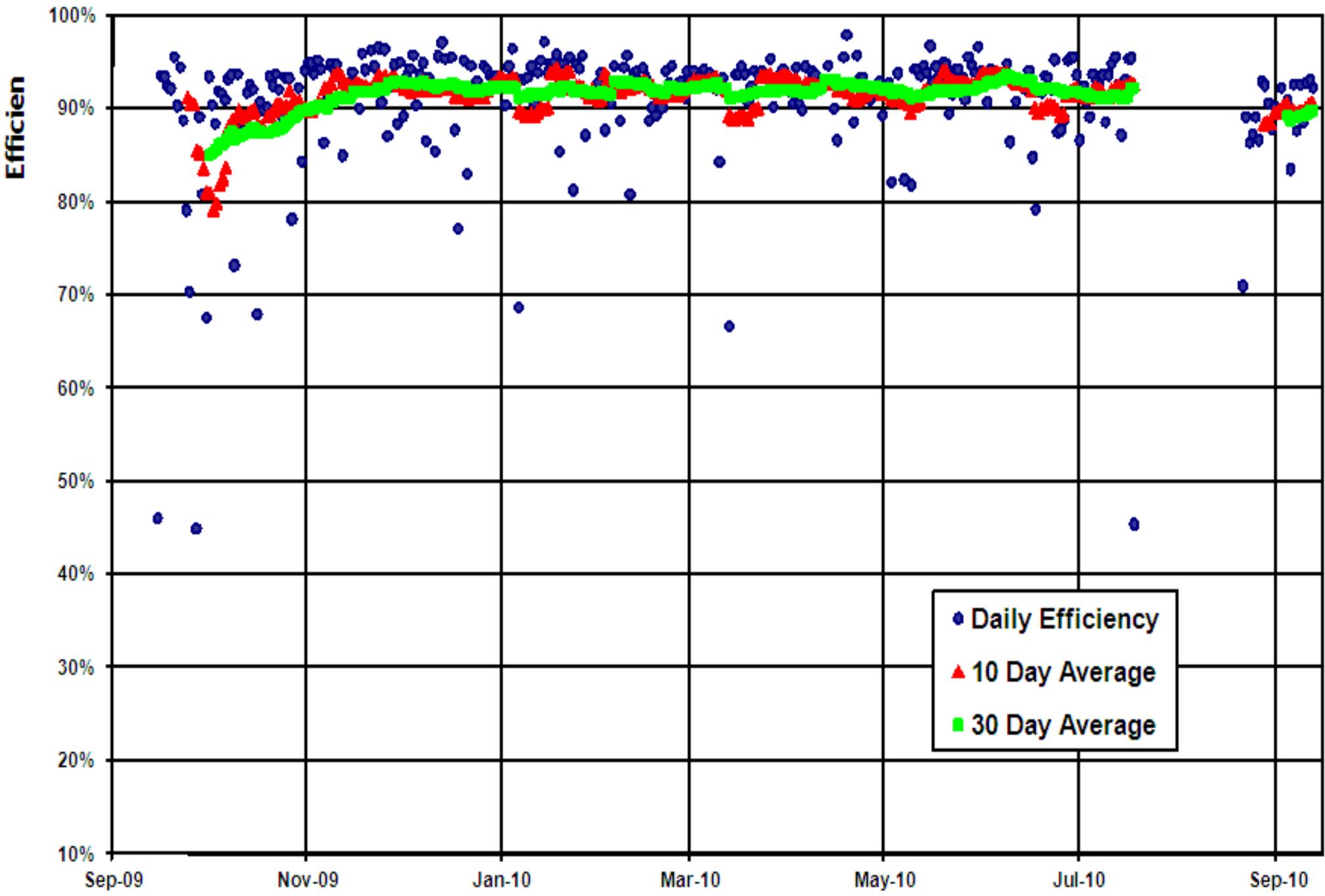
Comment

06 Sep	9.36	8.67	93	
07 Sep	1.75	1.54	88	Chiller and power problems. Access into Cathedral.
08 Sep	5.71	5.29	93	
09 Sep	9.04	8.01	89	BLS Crate trips
10 Sep	7.11	6.60	93	Access to replace a bad BLS Board
11 Sep	8.50	7.92	93	
12 Sep	6.89	6.36	92	
6-12 Sep	48.4	44.4	92	



Daily Data Taking Efficiency

1 September 2009 - 12 September 2010





Run II Integrated Luminosity

19 April 2002 - 12 September 2010

