



# D0 Status Report

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All Experimenters' Meeting  
7 November 2005



# Data Taking

Day	Delivered Lum ( $\text{pb}^{-1}$ )	Recorded Lum ( $\text{pb}^{-1}$ )	Efficiency (%)	Comment
31 Oct	4.41	3.85	87	ICD HV Trip, SMT HV trip.
1 Nov	1.25	1.17	94	Access to replace CTT power supply.
2 Nov	3.52	3.25	92	Access to repair Cal channels.
3 Nov	4.03	3.31	82	L1Cal trips three times for 2 hour 20 minute downtime due to water leak.
4 Nov	0.63	0.58	92	Access to replace ICD pulser power supply. Water leak in ICD/LUM HV Rack IN MCH.
5 Nov	3.03	2.77	91	
6 Nov	2.92	2.38	81	Cal LV PS trip. Readout problems with CTT and Muon at start of store.
31 Oct – 6 Nov	19.8	17.3	87	

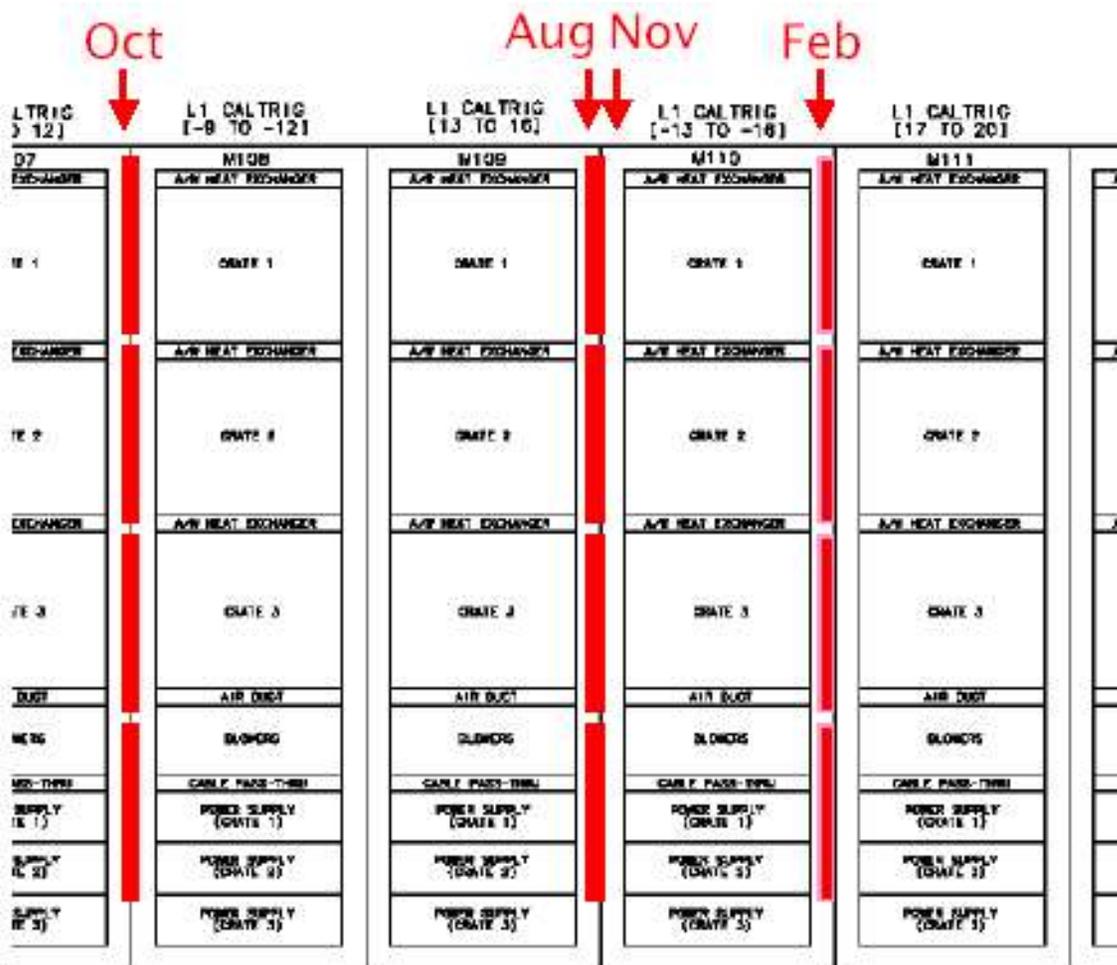


# Significant Events

- 31 October
  - Record D0 Initial luminosity of  $157E30$ .
- 3 November
  - L1 CAL tripped off three times due to water leak.
    - Drip sensor was disabled on the third trip.
- 4 November
  - Water leak in ICD/LUM HV rack.
    - Rack has excess cooling, so radiator was removed for repair.
- 6 November
  - Start of store 4490, D0 lost 75 minutes due to a series of problems with a CAL Low Voltage Power Supply trip followed by CTT and Muon readout issues.



# L1CAL Leak



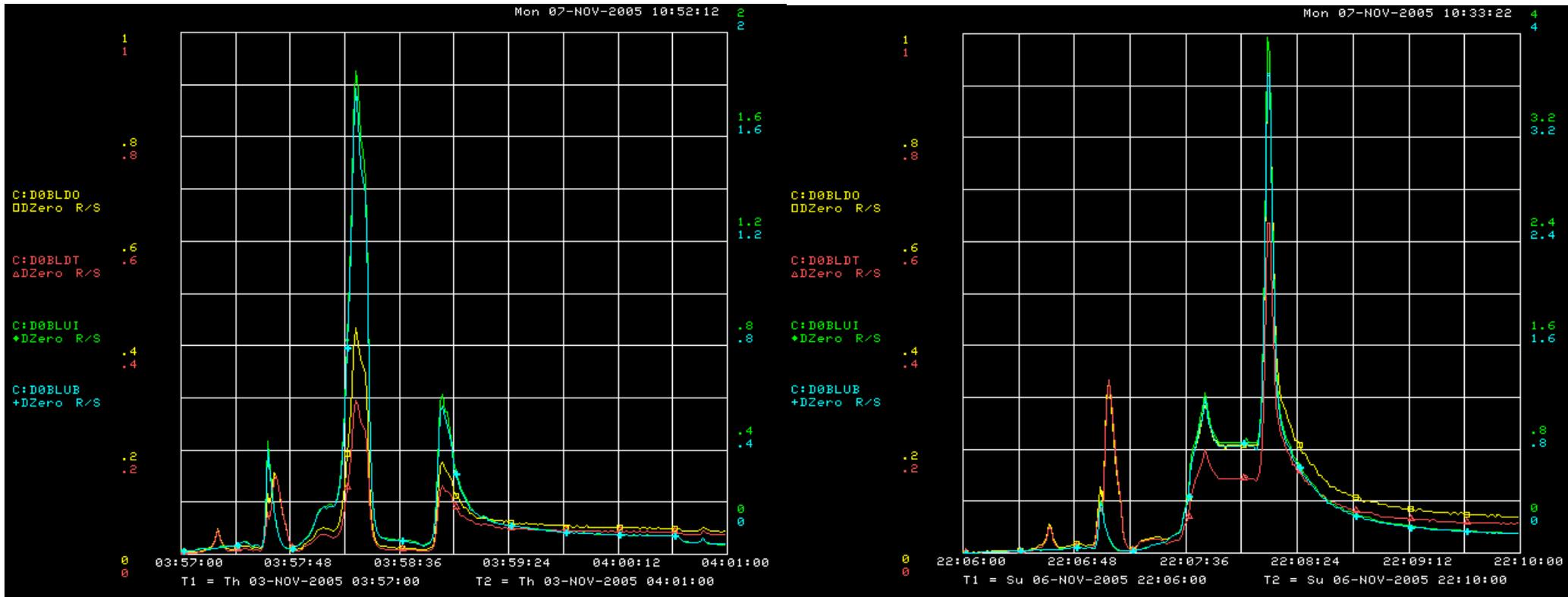
- We had our fourth leak in our L1CAL system this year.

- We lost 2 hours and 20 minutes of data to find the rack which had the leak.

- That leak detector was disabled.
- We are now checking to see which radiator the leak is in.



# D0 Losses



Store 4481

Store 4490

- Initial Luminosities were the same, but the doses were much different.
- The losses during step 24 of the squeeze were reduced, but that greatly increased losses when collisions were initiated.
- The losses for store 4490 reached 4 R/s. D0 will abort the beam at 12.6 R/s.
  - Rolling per minute dose was 25 for 4481 and 62 for 4490.