

TeV BLM abort set rate study

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Looked at Abort counts for stores 3226 to 3277 (2-10-2004 to 3-08-2004) once HEP declared...total of 470 store hours...

Recorded the latched status bits (T: WABLLS) in SDA each 10 minutes - once set, meant to stay set.

Jim Patrick (Controls Dept.) wrote the SDA decoder (gave us an excel file); S. Pordes did crude analysis; Marvin Olson (BLM keeper) did the detailed analysis.

Typically A1, A4, B1, B3, D1, D4, E1, E4 and A0 were already in abort status when HEP was declared. It has been tested (~2/9) that one could reset the BLMs safely when HEP is declared.

CPU Resets	Alarm Set	Abort Set (6 times - 5 stores)
A1	F1	F4
F3	F1	D1
A0	F1	E1
A0	F1	D1 & D4
A1	F1	E1 & (D4)
Ring	F1	D1
F1	F1	
Ring	(D4)	
A0	D1	
B3	F1	
F3	F1	
	F1	



2/10/04 Store 3226 Abort at F4 @1823

No Info in Tev or MCR Logs

2/16/04 Store 3237 Abort at D1 @1305

MCR Log has re-scraping going on

2/18/04 Store 3240 Abort at E1 @0836

Tev Log has Helix studies going on

Same store Abort at D1 and D4 @1106

Tev Log has Scraping studies going on

2/20/04 Store 3247 Abort at E1 @1628

Tev log has Helix studies going on

Alarm at D4

2/23/04 Store 3252 Abort at D1 @1129

Tev log has Helix studies going on

This doesn't measure the total number of times that the abort would have been pulled. There could also be failures (fake firings) in the BLM chassis; the abort concentrator could have problem inputs that are currently not affecting us in stores because they are masked off.