

Muon Trigger Status Report



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Trigger Commissioning Workshop

8/17/00

TDC Status



System	Today	9/1/00	11/1/00
CMU	24/24	24/24	24/24
CMP	10/14	11/14	14/14
CMX	02/24	07/24	13/24
BMU	02/20	06/20	11/20
CSP	00/04	03/04	04/04
CSX	00/10	04/10	05/10
BSU	00/08	02/08	04/08
TSU	00/04	01/04	02/04
CLC	01/01	01/01	01/01
TOT	39/109	59/109	78/109

Paddle Card Status



- CMU-CMP (38)
 - 30 in hand, 13 awaiting modification
- CMX (24)
 - 02 in hand, 28 awaiting parts and assembly
- BMU-BSU-TSU-CSP[T+B] (34)
 - 16 in hand, 13 awaiting parts and assembly
- CSX-CSP[N+S]-CLC (13)
 - 25 additional boards on order

Mezzanine Card Status



- Delta-T Mezzanine Card
 - CMU,CMX,BMU
 - All 80 boards in hand and tested.
- Scintillator Mezzanine Card
 - CSP,CSX,BSU,TSU,HAD
 - All 40 boards in hand. Still to be tested.
- CMP Mezzanine Card
 - 2 production boards and some prototypes in hand.
 - 14 more production boards due from ADCO.

Trigger Card Status



■ Matchbox Card

- All 15 production boards are in hand.

■ Pre-Match Card

- 2 production boards in hand and under test.
- 4 additional boards still due from ADCO.

■ Muon Trigger Summary Card

- 2 production boards in hand.

■ Matchbox Transition Card

- 2 prototype boards in hand.
- 15 production boards still due from ADCO.

ADCO Delivery Schedule



- 14 CMP Mezzanine Cards
 - 9/15/00
- 04 Pre-Match Cards
 - 9/29/00
- 15 Matchbox Transition Cards
 - 10/13/00
- Recent TDC deliveries indicate potential slippage on the order of a couple weeks.

September 1st



- Expect Matchbox installation and trigger cabling will be complete.
 - CMU - 360 degree coverage both ends.
 - CMP/CSP - Top and bottom coverage.
 - CMX/CSX - 180 degree coverage one end.
 - IMU - 60 degree coverage one end.
 - Track Match - 60 degree coverage.

November 1st



- Additional hardware added as available.
 - CMU - 360 degree coverage both ends.
 - CMP - Top, Bottom, and South wall coverage.
 - CMX/CSX - 360 degree coverage one end.
 - IMU - 360 degree coverage one end.
 - Track Match - Dependent on TDC availability.

Software



- Run control software is in reasonable shape for the muon trigger hardware.
- A first pass has been made at placing muon trigger parameters into the trigger database.
- Simulation code for CMU, CMX, and CMP has been written. A framework exists for developing the hardware monitor code.

Commissioning Run Goals



- Finalize monitoring code for muon trigger hardware.
- Attempt to understand the details of timing in each of the different detector elements into the muon trigger.
- Commission as much of the muon detector and the associated muon trigger hardware as possible.