Drift Tube QC Meeting
CMS meeting – CERN –24th Sept. 2001

- Status of QC at various production sites
- Compoments   Bologna/Protvino
-       Torino
- Chamber   Aachen
-       Madrid   Begona
-       Padova   Ezio
-
- - Data Base status report   Simone
- - News on QC Document
- - AoB

- **Current Version of the QC document**
  ### Version 6.2
- **In the next version**

  - **Bar Code specific number for CERN production center will change from 10 to 12.   Number 10 is assigned to Hexcel.**

  - **Comments and changes suggested by Hans.**

  - **Three new objects which may be identified with a Bar Code Label:**
    1- Testpulse boards
    2- Feedthrough boards
    3- Slow control interface boards
    Matteo has been asked and his opinion is NOT to identify these boards with ID numbers or "Batch" numbers, mainly because they are produced on one shot.

QC for AL Plates production

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1) Plate Cutting:

    precision cutting <   300 mu

    diagonals < 1 mm

2) Strip Deposition

    position +- 500 mu

    parallelism +- 200 mu

3) HV test

    Fast test   4.2 KV for 30 secs

    Standard Test 4. KV for 30 min   I < 10 nA

Operator Panel to Cut Plates and Deposit Strips

    Interaction with: Torino/Dubna localAlPlateDB (write and read)

                    CLC programs via DDE server and digital I/O

                    Network (ftp servers in Torino and Dubna)

                    Image analysis program

                    PAW for analysis
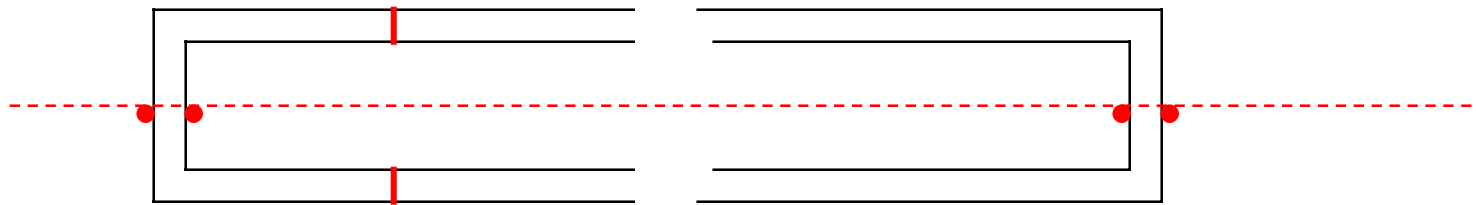
QC for AL Plates production

Informations checked for QC

- Geometry of Plates

- Strip position

  Image Acquisition and Analysis

    circa 100 images recorded each strip

    resolution of 50 mu

  Automatic procedure to identify bad strips

- LEFTMY = left min distance Al-My   - RIGHTMY = right min distance Al-My

- POSXMY = max residual of the My strip position wrt nominal position

- POSXAL = max residual of the Al strip position wrt nominal position

- YHVMY = My strip position HV side   - YHVAL   = Al strip position HV side

- YFEMY   = My strip position FE side   - YFEAL   = Al strip position FE side

QC for AL Plates production

QC Production Data Base will contain all

relevant geometrical quantities of the plate (4 x,y position of the corners) and of the strips (all strips are recorded)

Thanks to Simone effort

During Production:

Flow of the informations Torino / Dubna via ftp

Automatic transfer to Dubna of Local DB

Acquisition and analysis of data in Dubna

Automatic creation of Data Base ascii file

(automatic fill into Production DB?)

From Dubna to Torino via ftp (Traveler,raw data of images and DB file)