MWPC

2.1 MWPC
2.2 may 2000 beginning of installation

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Crate control

3.1.1 3 VME crates 9U for FE electronics (not taking into account HV)
3.1.2 CANbus (for VME) CAENET for HV
3.1.3 2 VME 9U **IN ZONE**
3.1.4 no

3.2.1 all & status
3.2.2 60 s (?) 1% (?)
3.2.3 switch on/off (if possible)
3.2.4 automatic action - yes

HV control

4.1.1 about 33 Working range ---- 5kV
4.1.2 CAEN sy527 + H.S. caenet
4.1.3 no nostandart
4.1.4 direct replacement in case of failure
4.1.5 read: V, I status
set V,I, rampup/rampdown Vmax Imax trip
4.1.6 before each extraction **, Current measurement inside/outside beam ?**
4.1.7 no automatic voltage setting

LV

5.1 30 pc --- (V,I, T, status) 5% (?)
Which Power supply for LV -- ? Wiener ?
5.2 **before and inside each spill**
5.3 no automatic V settig
5.4 replace
5.5 need automatic swith off if Over Load

6 Analog monitoring
Temperature - 15 sensor
Pressure------15 sensors
Gas flow------15 (maybe PLC for gas system)

7. Boolen values control
7.1 (?) maybe 30 for LV (?)

8
Start - up
8.1 by hand
8.2 load latest
8.3 download the latest configuration on user request

(. Special proceduree s
9.1 calibration done by hand

10. ALARMS
10.1 ? ok for the three levels

11.1 HV & currents before each spill
gas parameters (T,flux,p % ...) befor eeach spill? see dubna colleagues
keep for few days (?)
11.2 User selectable for trending -- may be some HV parameters

12.1 all HV parametrs in **SD database** every ? 15 min?
12.2 no except if HV goes off

16.1 linux PC
16.4 DAQ (to check if all parametrs are ok)
16.5 no, at this moment of knowledge
16.6 stop DAQ if there are some changes
16.9 spring 2000?
16.11 no, as a proto-DCS

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