## **Archiving of DCS data (introduction)**

## What we have now:

3 archive files (internal PVSS format). The files are changed when they are 95% full.

Archive #	# of entries	Content	# of files with 2002 data	Max # of values in a file	Average filling	# of values with ~0 entries to the file	Leader
0	119	Analog measurements: temperatures, LV, Magnetic field, etc	28	3000	147/3000	~40	pt4w-RICH-8 (2850)
6	84	PLC analog measurements: temperatures, gas flow, etc	45	5000	292/5000	~30	PLC2_Al_plc _csi_ch4_flow (4750)
7	1076	all HV Vmon	17	2000	1346/3000	0	many

## What can be done:

- 1. Time based file rotation (better controlled and more suitable for regular backup).
- 2. Regular (and automatic) back-up of archive files.
- 3. Tools to extract data in convenient format (ASCII and Excel should be not very difficult).
- 4. Dead-bands tuning.
- 5. Separation of fast and slow changing values.

## **Questions:**

- 1. How many files should be kept on pccompass04? One-year history? All available data? The same questions for pccompass07?
- 2. Should we convert existing data to the convenient format or just provide a tool? Retrieving of 2001 or even some 2002 can be very time-consuming task. How urgent it is? Where the converted data should be stored?
- 3. What is reasonable time for files rotation? One day? One week?
- 4. What are reasonable dead-bands? 0.1% looks OK for HV Vmon and LV. 0.1 degrees for temperatures.