

Table of Contents

Tracker Shifter CheckList.....	1
1) Temperature check (high priority).....	1
2) Check the Tracker Monitoring Tools Status.....	2
3) Check Calibration.....	2
4) Fast Data Quality Check.....	3
5) Data Quality Check.....	3

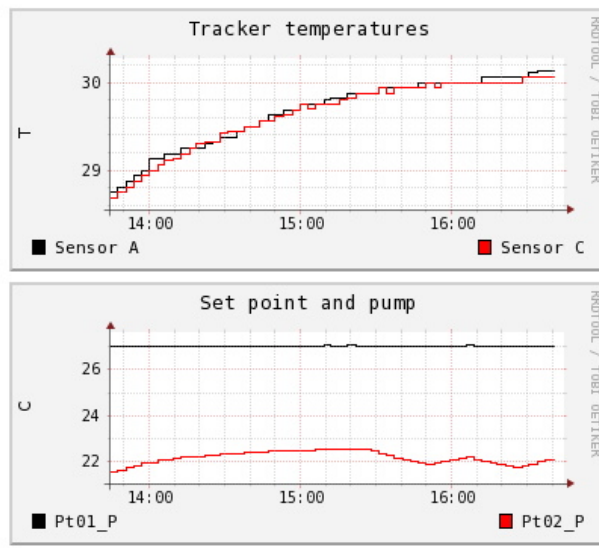
Tracker Shifter CheckList

1) Temperature check (high priority)

1. Check the temperature on this page (local POCC) or on this one (CERN Server)
2. Select the working TTCE side (A or B) and the M-crate working side (A or B), according to JMDC.
3. Check the following conditions:
 - The temperature of the Tracker (Sensor A and Sensor C) must be lower than 32°C.
 - The temperature difference between the pump (Pt02_P) and the Accumulator-Set Point (Pt01_P) is always more than 3°C

Example of TTCE B-side and M-Crate B-side on, tracker temperatures <32°C, DeltaT >3°C between Set-point and Accumulator

TTCE-A/USCM-M-A
TTCE-A/USCM-M-B
TTCE-B/USCM-M-A
TTCE-B/USCM-M-B



1. WARNING: if the web-interface displays no temperatures and monitoring data check the AMI scanner daemons:

```
ssh ami@pcposk0
cd AMI
CheckAmiDaemon.sh
```

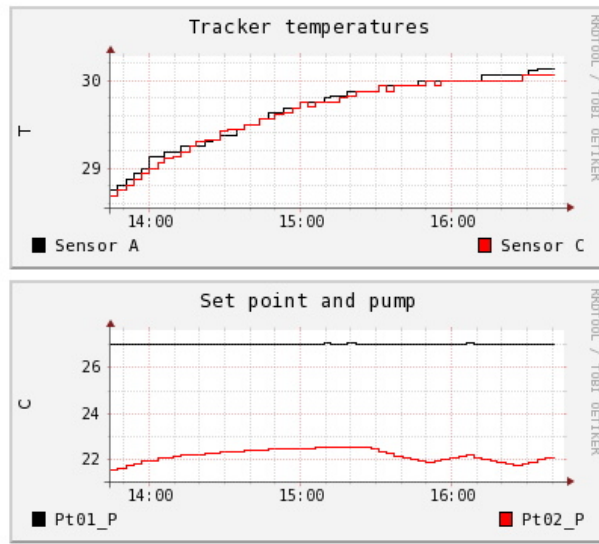
2. If the scanning programs are setted on the wrong HK directory you must:

```
StartScan.sh ssh <Blocks_dir> <starting_block>
```

(the script kills the old scanners and starts new ones)

Example of TTCE B-side and M-Crate B-side on, tracker temperatures <32°C, DeltaT >3°C between Set-point and Accumulator

TTCE-A/USCM-M-A
 TTCE-A/USCM-M-B
 TTCE-B/USCM-M-A
 TTCE-B/USCM-M-B



2) Check the Tracker Monitoring Tools Status

1. Usual Tracker WorkStation is PCPOC08
2. Login as user: tracker
3. Go to directory

```
cd TrackerUser/Monitor
```

4. Check if the data processing daemons are running using the command

```
./CheckMonitoringDaemons.sh
```

5. Check that the directory used by the decoding daemon is the right one (ask DAQ shift for the active interface)
6. If the directory is the right one you can kill the running daemons with the command:


```
./KillMonitoringDaemons.sh
```

7. If the daemons are not running, you can launch them with the command:

```
./LaunchMonitoringDaemons.sh <Blocks_dir> <starting_block>  

(example: ./LaunchMonitoringDaemons.sh /Data/BLOCKS/HRDL-A/ 0160/001)
```

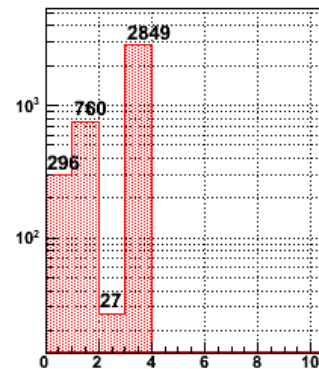
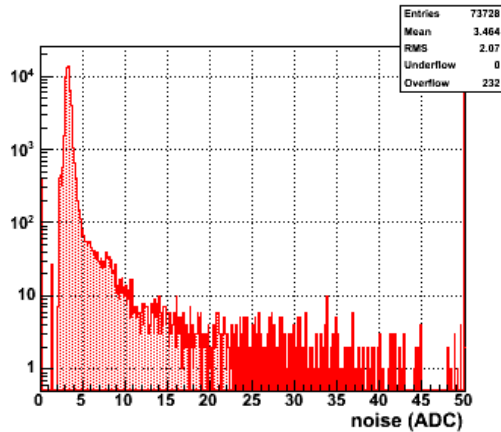
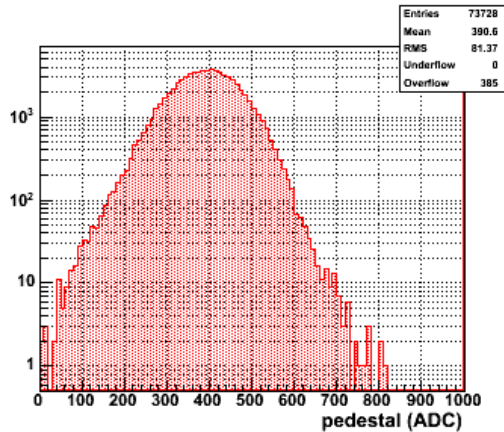
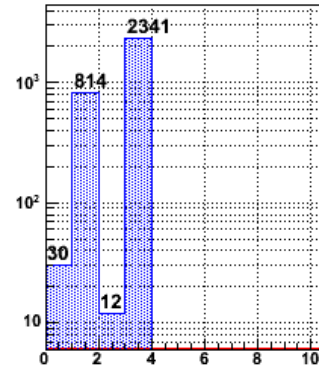
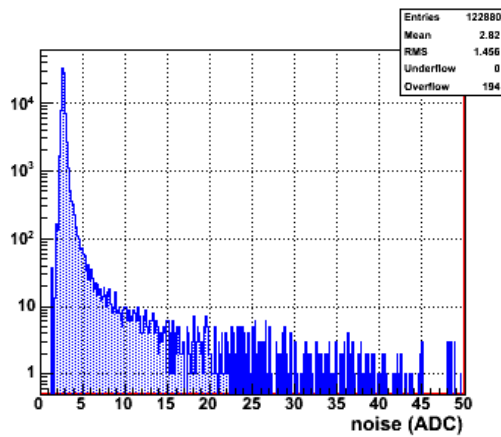
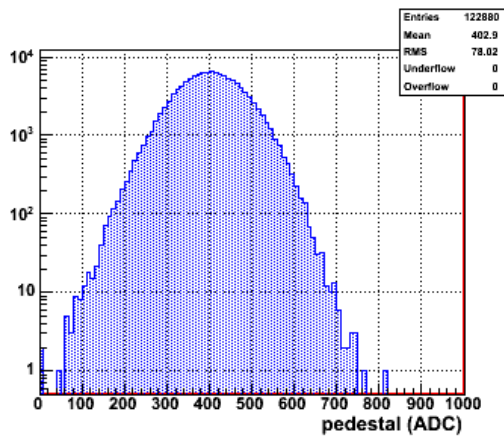
3) Check Calibration

1. Launch the Last Calibration Monitor with the command:

```
MonitorUI Output/LastCalDB.root
```

2. Compare the calibration with the reference one (see below)
3. When a new calibration is available press the "Update" button to get the new data

- Reference Calibration Summary:



4) Fast Data Quality Check

1. Launch the block summary check:

```
WatchLastErrReport.sh
```

2. If the block is a not-empty data block (Blocks!=0) please check:

- Low number of bad clusters
- Approximate Track Reconstruction Efficiency ~ 50%
- Average Tracker Event Size > 300 words, < 5000 words (approx 1000 words in normal conditions, approx 2500 words for TAS runs)
- Average Number of Hits per Track: ~ 6
- Presence of TDR Boards Errors (the large amount of T018 errors is known)

5) Data Quality Check

1. Launch the Last Run Monitor with the command:

```
MonitorUI Output/LastRunHmon.root
```

This topic: Main > TrackerShifterHowTo
Topic revision: r9 - 2010-10-01 - AlbertoOliva



Copyright &© 2008-2019 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
Ideas, requests, problems regarding TWiki? Send feedback