2011-05-11 Thursday Morning Notes

Tuesday, May 10, 2011
8:50 AM

Operational Notes

- I:QF12 ground fault

Numbers (24 hours)

- Stacking
  - Pbars stacked: 469.22 E10
  - Time stacking: 21.32 Hr
  - Average stacking rate: 22.01 E10/Hr

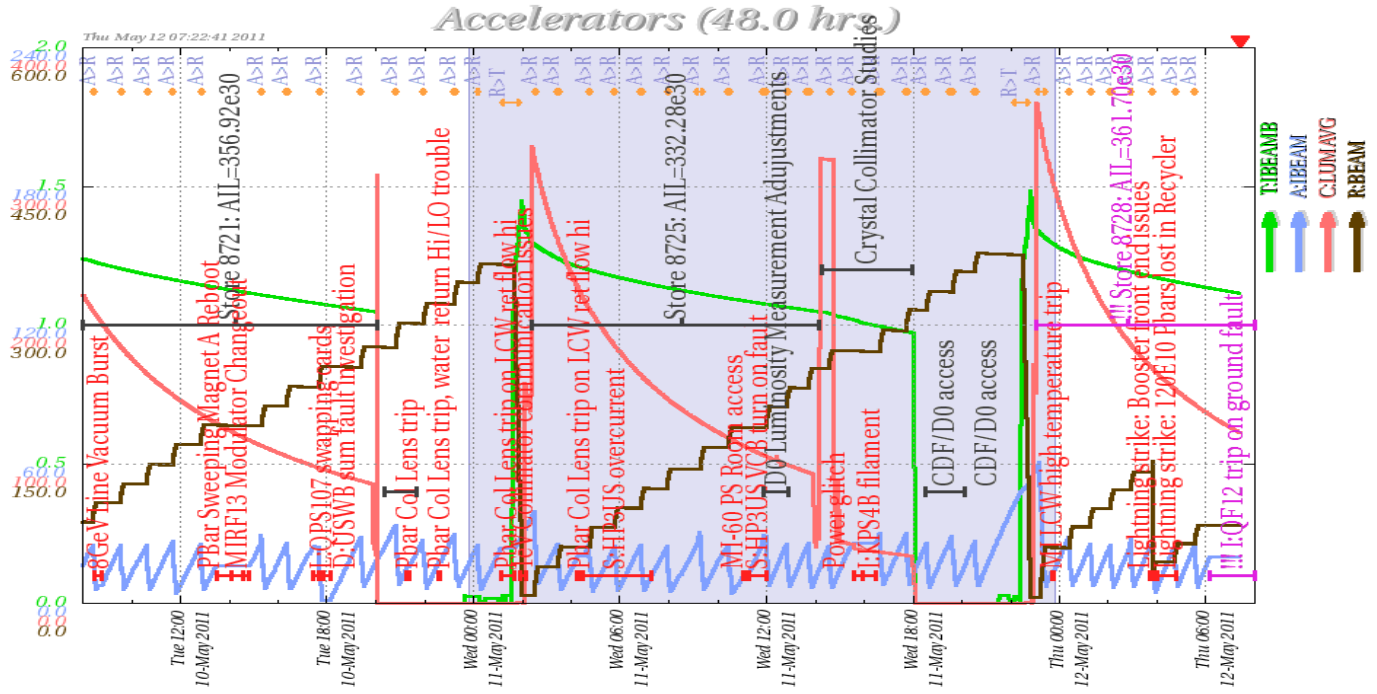
- Uptime
  - Number of pulses while in stacking mode: 33519
  - Number of pulses with beam: 31695
  - Fraction of up pulses was: 94.56%

- The uptime's effect on the stacking numbers
  - Corrected time stacking: 20.16 Hr
  - Possible average stacking rate: 23.27 E10/Hr
  - Could have stacked: 496.23 E10/Hr

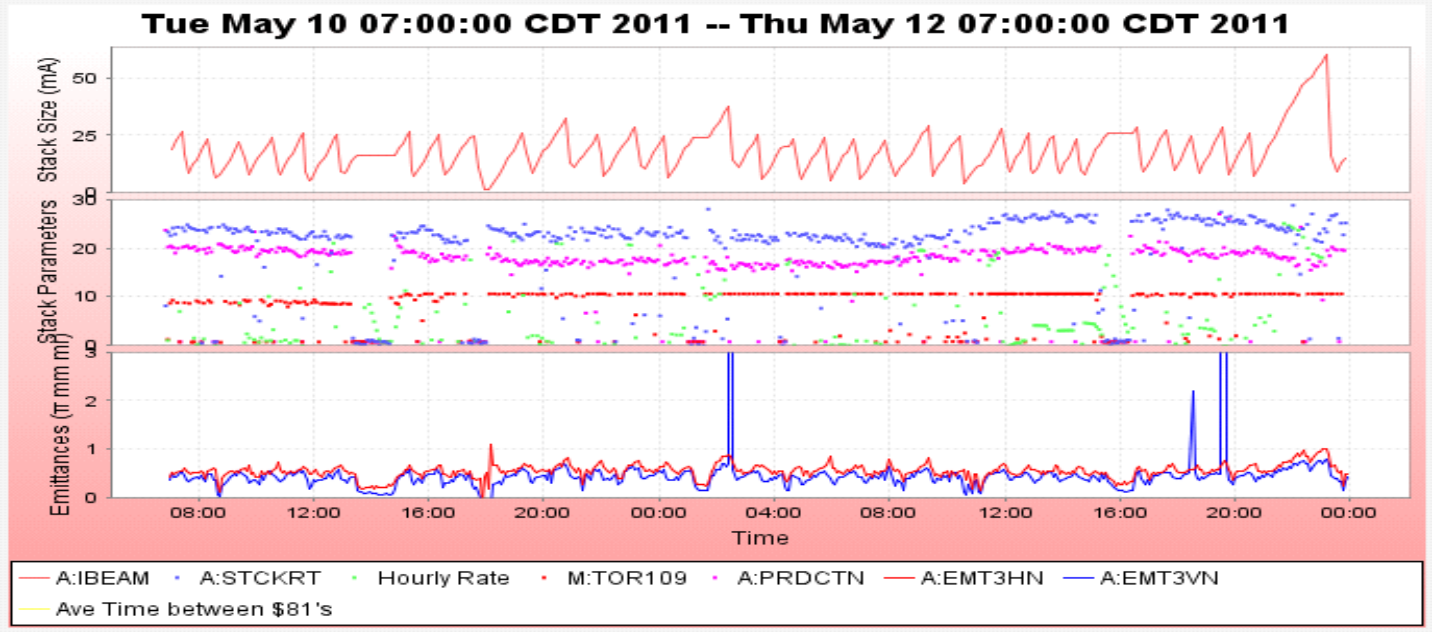
- Recycler Transfers
  - Pbars sent to the Recycler: 456.29 E10
  - Number of transfers : 60
  - Number of transfer sets: 20
  - Average Number of transfer per set: 3.00
  - Time taken to shoot including reverse proton tuneup: 00.21 Hr
  - Transfer efficiency: 115.98%

- Other Info
  - Average POT : 8.25 E12
  - Average production: 17.94 pbars/E6 protons

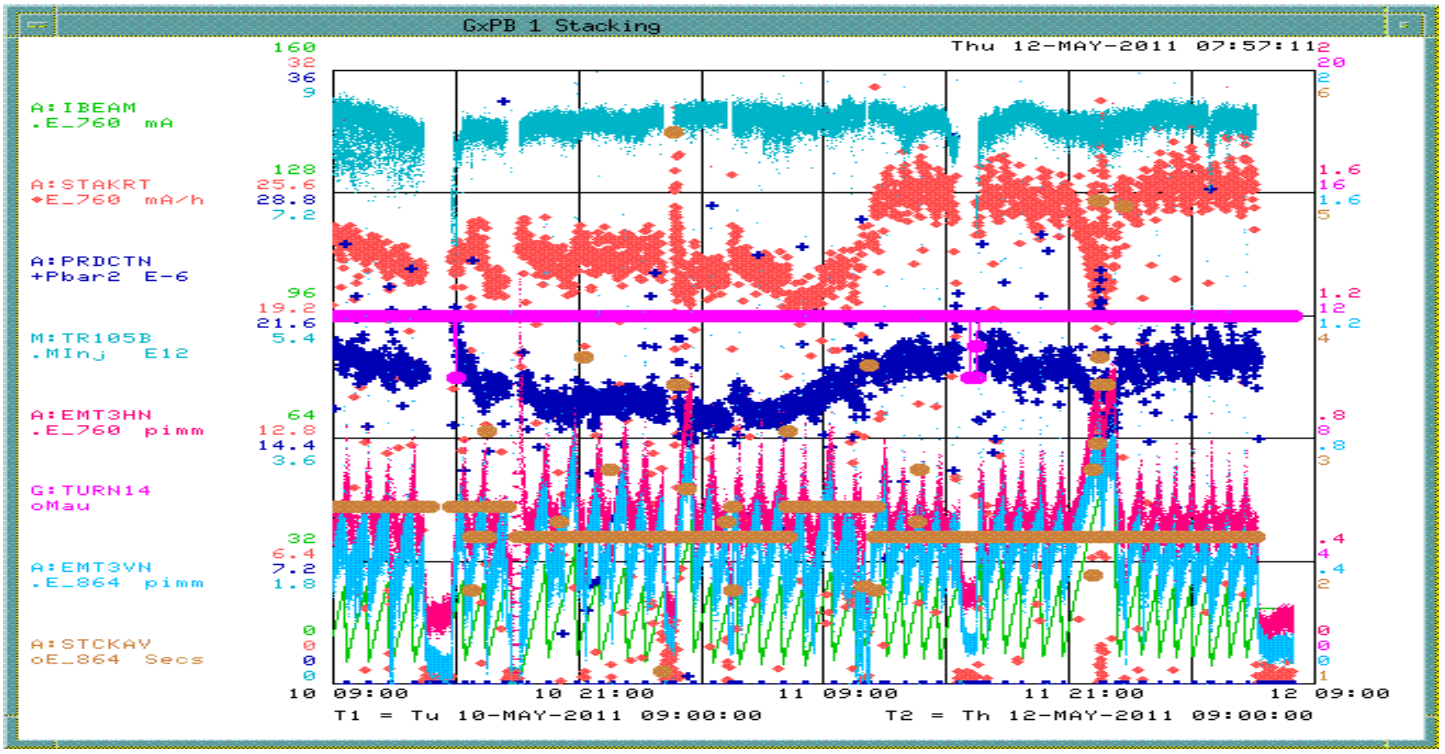
Plots

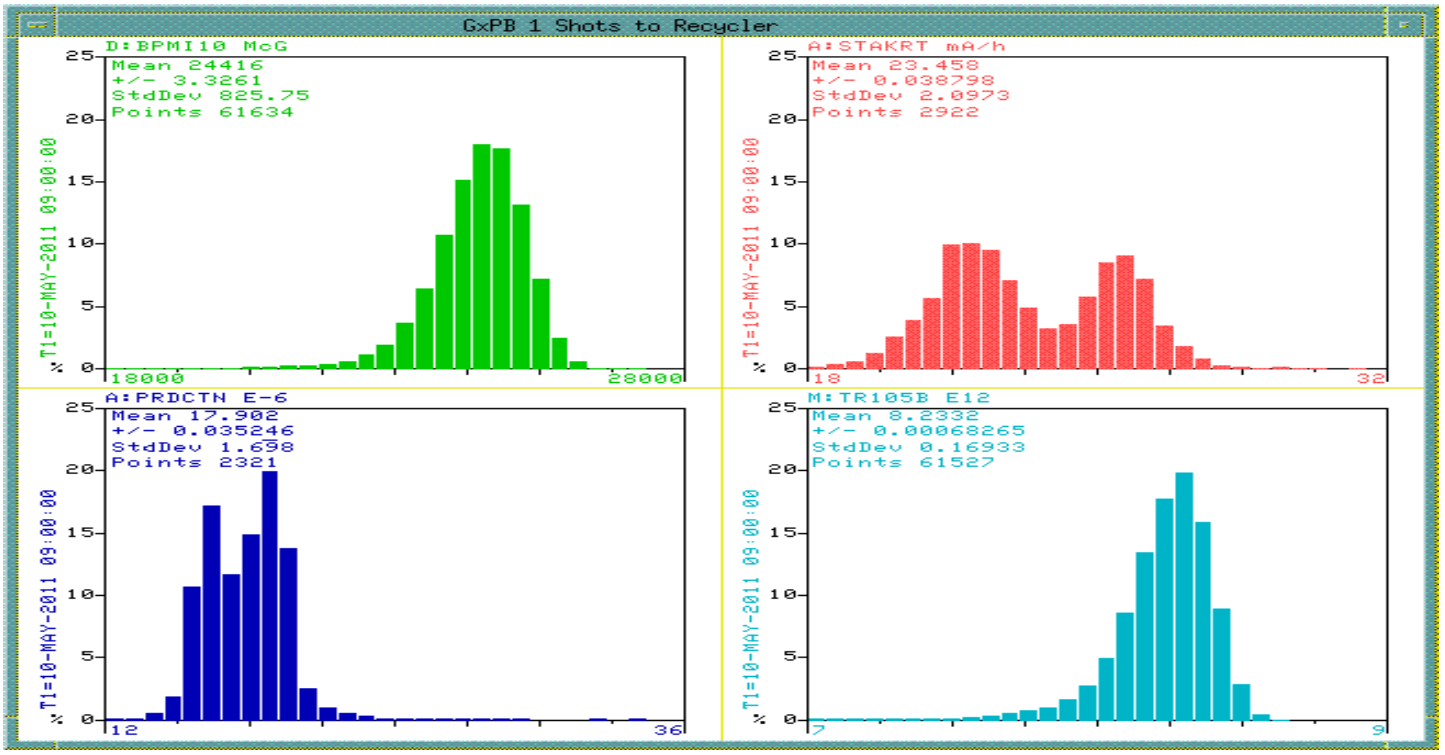


2 Days

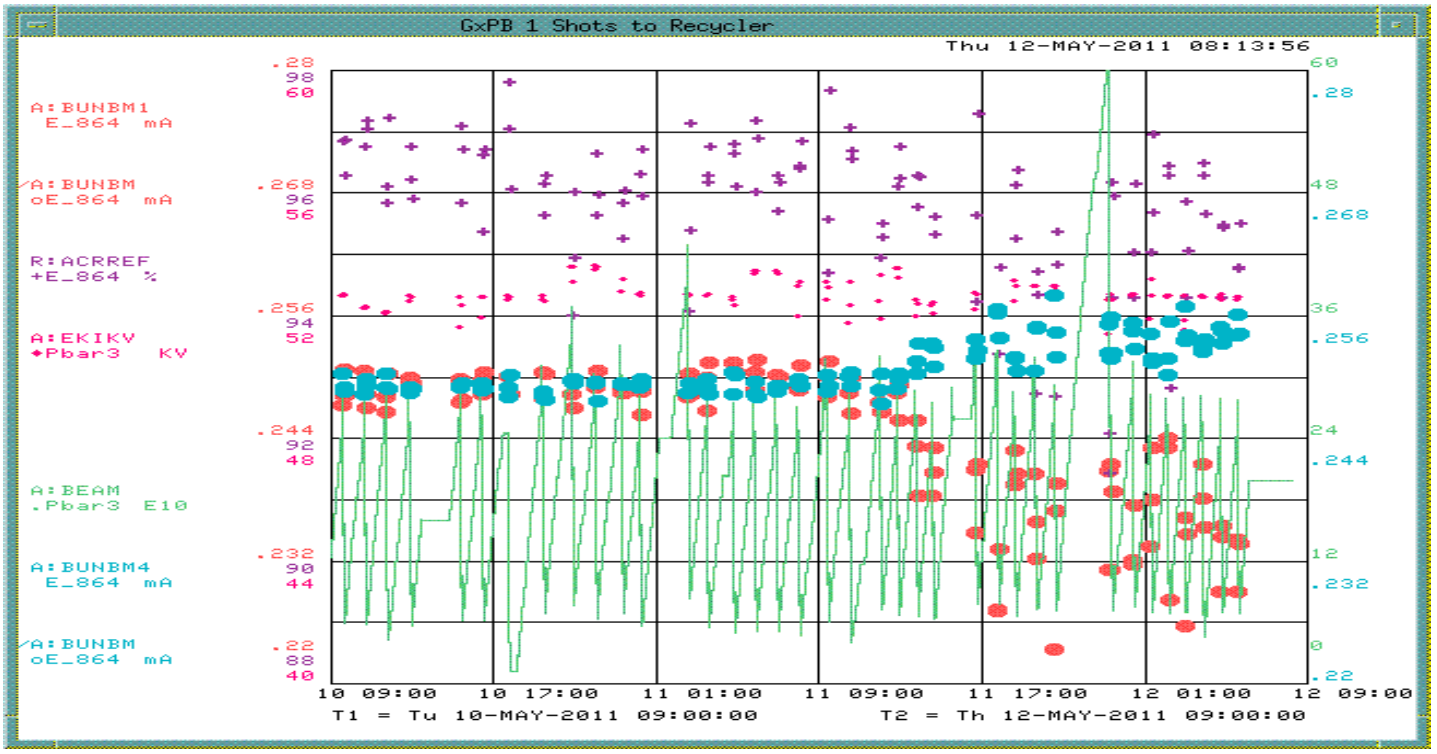


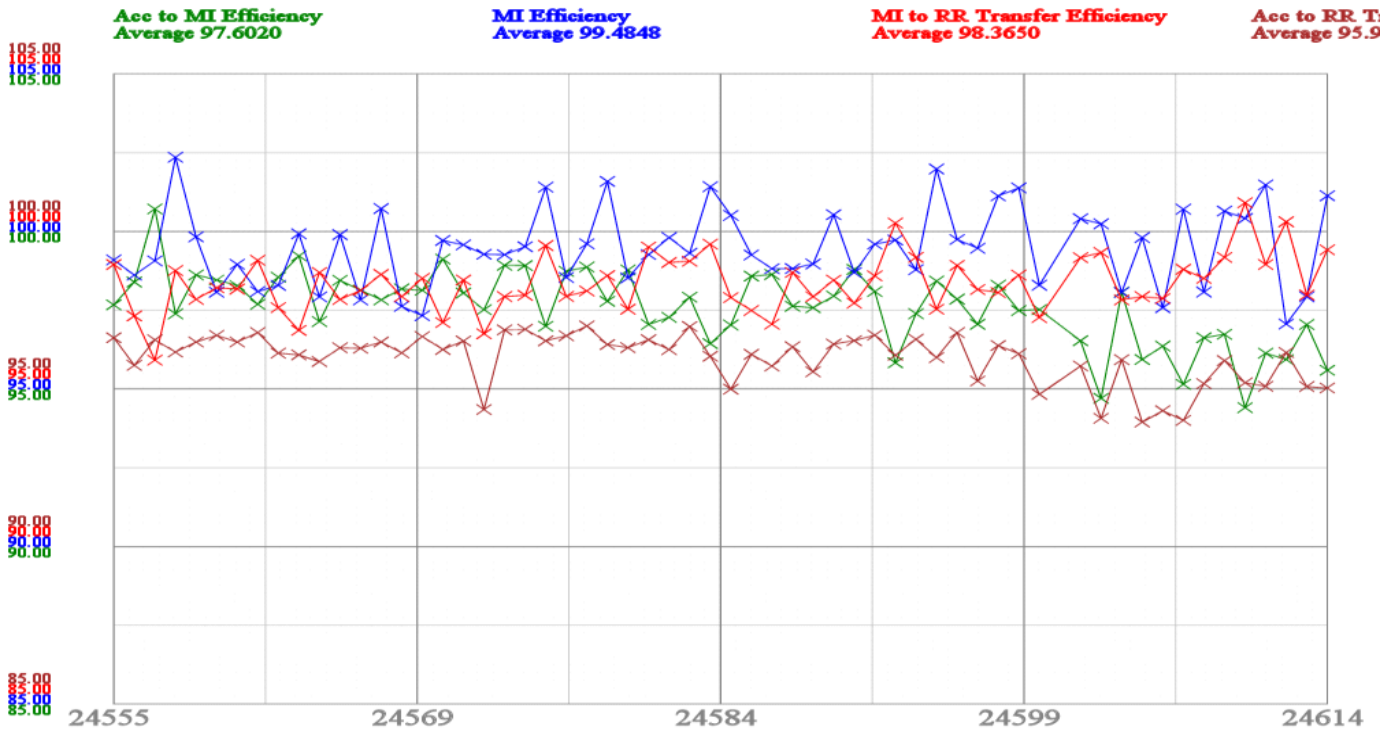
Stacking


GxPB 1 Stacking
Thu 12-MAY-2011 07:57:11
A:IBEAM
.E_760 mA
A:STAKRT
+E_760 mA/h
A:PRDCTN
+Pbar2 E-6
M:TR105B
.MInj E12
A:EMT3HN
.E_760 pimm
G:TURN14
oMau
A:EMT3VN
.E_864 pimm
A:STCKAV
oE_864 Secs
10 09:00
10 21:00
11 09:00
11 21:00
12 09:00
T1 = Tu 10-MAY-2011 09:00:00
T2 = Th 12-MAY-2011 09:00:00

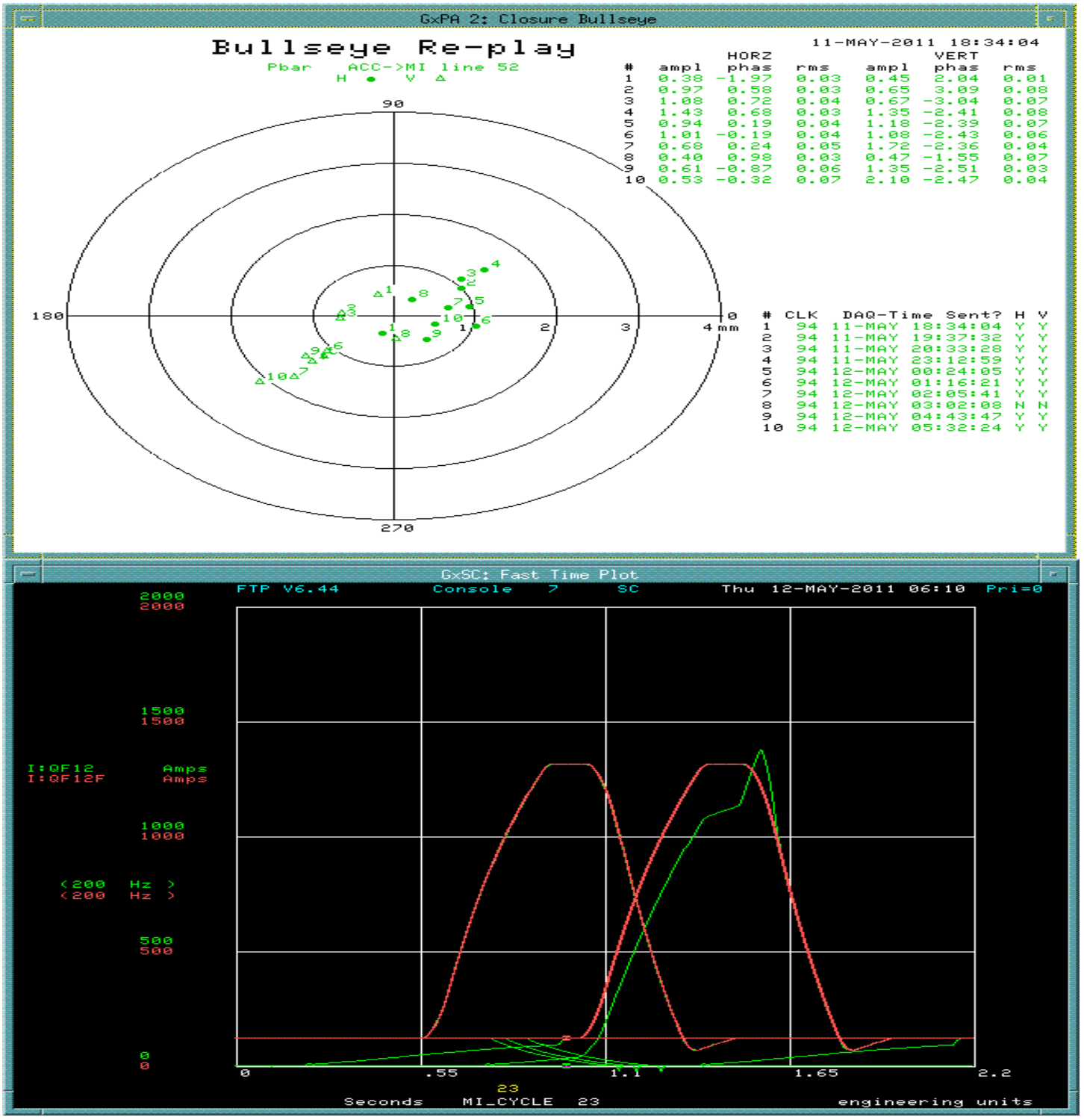

GxPB 1 Shots to Recycler
D:BPMI10 McG
Mean 24416
+/- 3.3261
StdDev 825.75
Points 61634
18000
28000
A:STAKRT mA/h
Mean 23.458
+/- 0.038798
StdDev 2.0973
Points 2922
18
32
A:PRDCTN E-6
Mean 17.902
+/- 0.035246
StdDev 1.698
Points 2321
12
36
M:TR105B E12
Mean 8.2332
+/- 0.00068265
StdDev 0.16933
Points 61527
7
9
T1=10-MAY-2011 09:00:00

2 Days


GxPB 1 Shots to Recycler
Thu 12-MAY-2011 08:13:56
A:BUNBM1
E_864 mA
A:BUNBM
oE_864 mA
R:ACRREF
+E_864 %
A:EKIKV
+Pbar3 KV
A:BEAM
.Pbar3 E10
A:BUNBM4
E_864 mA
A:BUNBM
oE_864 mA
10 09:00
10 17:00
11 01:00
11 09:00
11 17:00
12 01:00
12 09:00
T1 = Tu 10-MAY-2011 09:00:00
T2 = Th 12-MAY-2011 09:00:00


Acc to MI Efficiency
Average 97.6020
MI Efficiency
Average 99.4848
MI to RR Transfer Efficiency
Average 98.3650
105.00
100.00
95.00
90.00
85.00
24555
24569
24584
24599
24614

72 hours



I:QF12 tripping on ground fault