

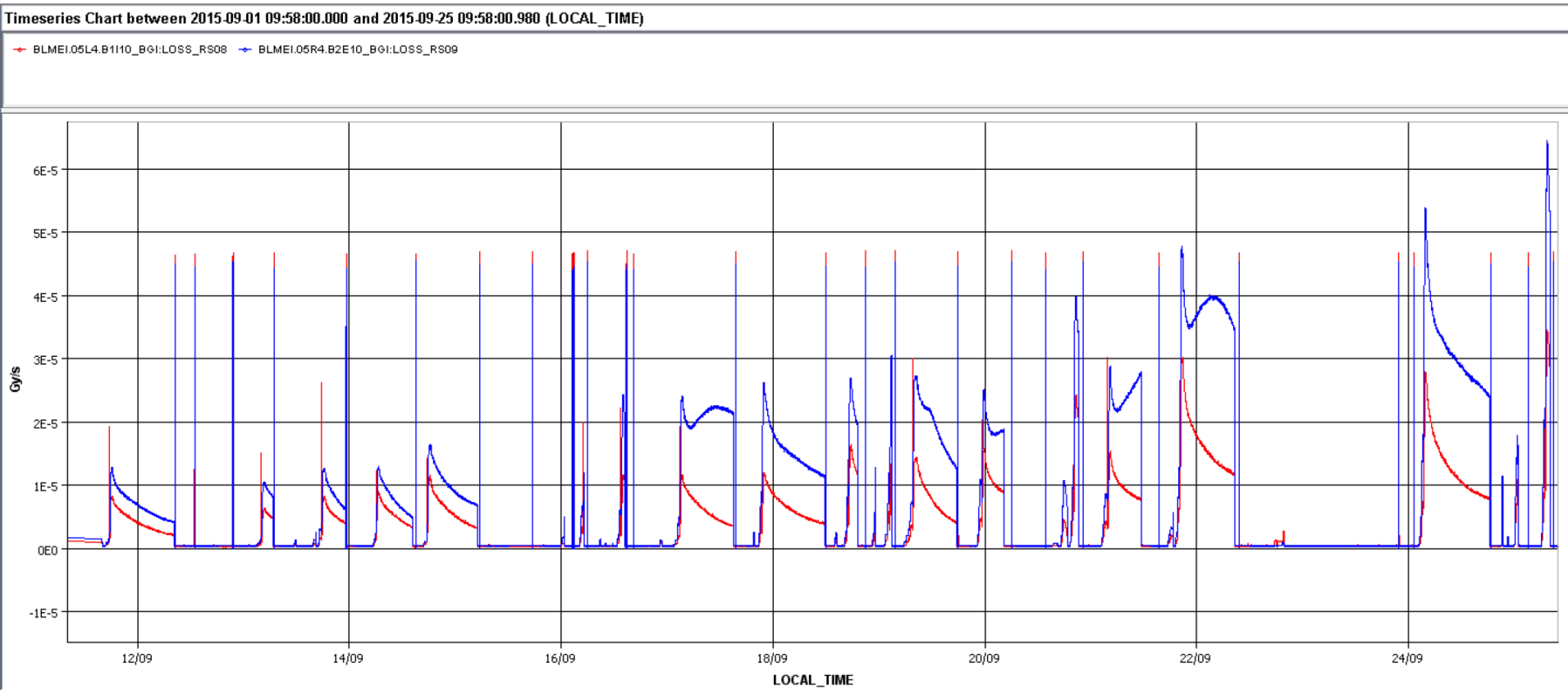


AOB: BLM Thresholds at 50% on BGI Monitors, at 75% on ALFA monitors

B. Auchmann, D. Wollmann, 25 September 2015, 117th MPP Meeting

BGI – BLM Monitors and Vacuum Pressure

- BLM signals rising over past 2 weeks.

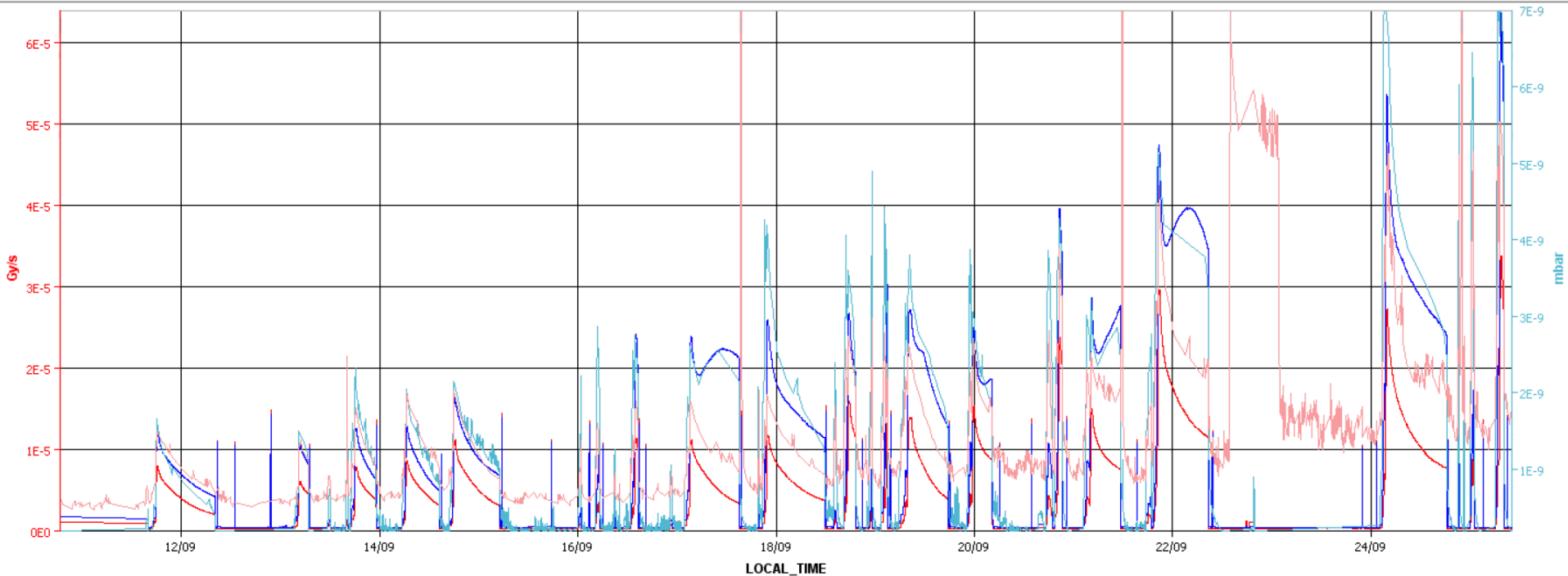


BGI – BLM Monitors and Vacuum Pressure

- Correlation with vacuum pressure

Timeseries Chart between 2015-09-01 09:58:00.000 and 2015-09-25 09:58:00.980 (LOCAL_TIME)

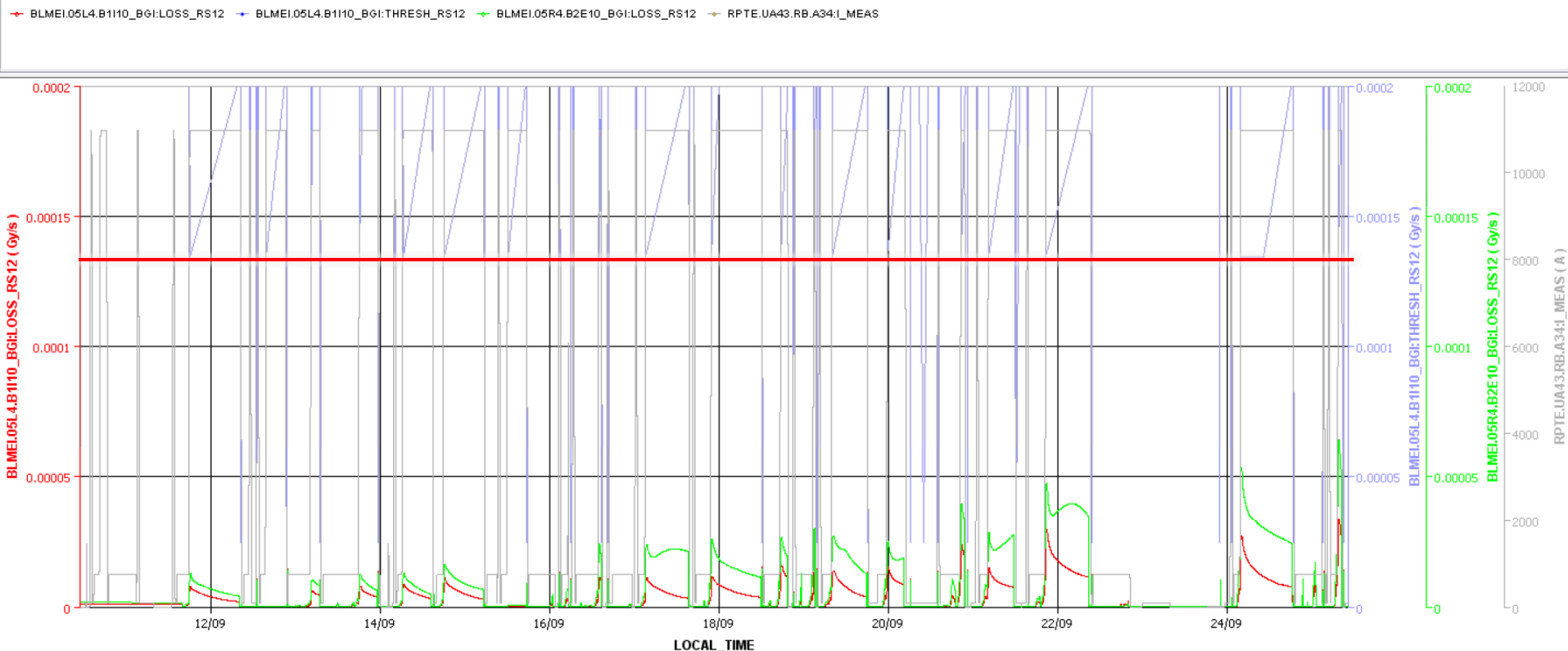
→ BLMEI05L4.B11H0_B6I:LOSS_RS12 → BLMEI05R4.B2E10_B6I:LOSS_RS12 → VPIC.601.5R4.R.PR → VPIC.659.5L4.B.PR




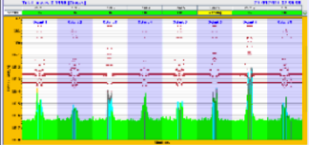
BGI – BLM Monitors and Vacuum Pressure

- Approaching thresholds (currently 48%)

Timeseries Chart between 2015-09-01 09:58:00.000 and 2015-09-25 09:58:00.980 (LOCAL_TIME)



This morning logbook

2	<p>07:19:38 - Warning on: BLMEI.05R4.B2E10_BGI, integration time: 83.8 s, losses = 6.354405E-05, threshold = 1.340407E-04, ratio = 47%</p> <p>...</p> <p>07:20:45 - Warning on: BLMEI.05R4.B2E10_BGI, integration time: 83.8 s, losses = 6.385562E-05, threshold = 1.340407E-04, ratio = 48%</p> <p>Again losses at the BGI BLM, increasing from 46 to 48%, longest running sum.</p>  <p>20150925072106.png 20150925072836.png</p> <p>created by lheap on CWO-CCC-D2L0</p>
3	<p>07:18 BI BEAM MODE > FLAT TOP LHC RUN CTRL: BEAM MODE changed to FLAT_TOP</p> <p>created by copera on CS-CCR-S301</p>
4	<p>07:24 BI BEAM MODE > SQUEEZE LHC RUN CTRL: BEAM MODE changed to SQUEEZE</p> <p>created by copera on CS-CCR-S301</p>
5	<p>UFO at ALFA XRP - 75% dump threshold</p> <p>07:36:39 - Warning on: BLMEI.07L1.B2E10_XRP, integration time: 655 ms, losses = 3.338845E-04, threshold = 4.473685E-04, ratio = 75%</p>  <p>20150925073914.png</p> <p>created by lheap on CWO-CCC-D2L0</p>

Monitor Factors

- Monitor factors on BGI monitors are currently at 0.1.

Chart	Table
BLM	Threshold Factors
BLMEI.05L4.B1I10_BGI	0.100000
BLMEI.05R4.B2E10_BGI	0.100000

- ALFA XRP monitor's monitor factors are 0.3.

BLMEI.07R1.B1E10_XRP	0.300000
BLMEI.07R1.B1E20_XRP-RUN1	0.300000
BLMEI.07L1.B2E20_XRP-RUN1	0.300000
BLMEI.07L1.B2E10_XRP	0.300000

Proposal

- Temporarily increase BGI monitor factors to 0.5 until further investigation on vacuum deterioration.
- ALFA monitor factors could be increased to 1.0 until thresholds changes are in place.