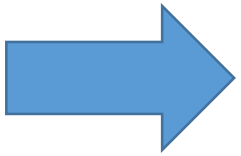
Xboxes Update

15/09/2020

Summary

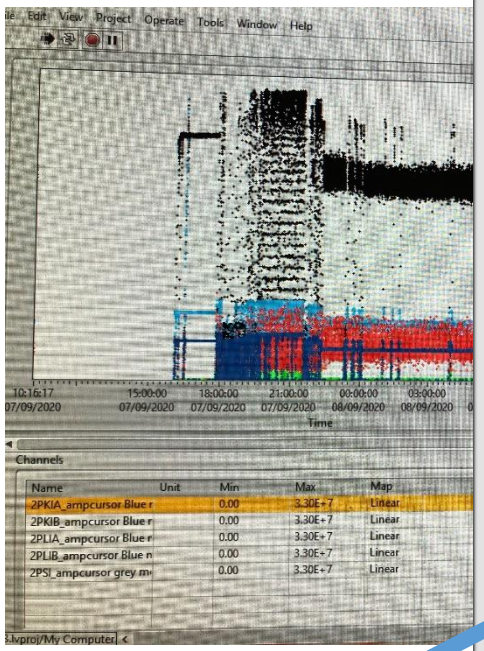
All control room computers currently updating(?). Experiments not running.

- XBOX1: LLRF & Software Testing
- XBOX2:
  - Ran over weekend.
  - Few interruptions (bunker visit, computer restarts).
  - Now at 36/31.5M.
  - Offline due to unresponsive computer.
- XBOX3AB: T42 Structures
  - Computers unresponsive, no history plots today ☹.



Problem with MKXTEST account was stopping all the computers. This was fixed yesterday.

- XBOX1: Waiting for new PC
- XBOX2: Off due to computer problem
- XBOX3AB: T42 Structures
  - Restarted yesterday afternoon
  - Currently OFF due to CRAZY behavior of PKI_B



This is really large!

e.g. for 10MW setpoint the klystron pulses (PKI A&B) are usually ~6000

MAIN | Load Config | Save Config

Interlock?

Vacuum restart Level [mbar] 1E-6

Line 1 | Line 2

Triggers
Interlocks
RF
Acquisition
Breakdown
Display
Modulator
Chiller PCs
Chiller DUTs
Kly Plots
Create Config
RT Quit
Quit

NO RF

Amplitude

Phase

Time

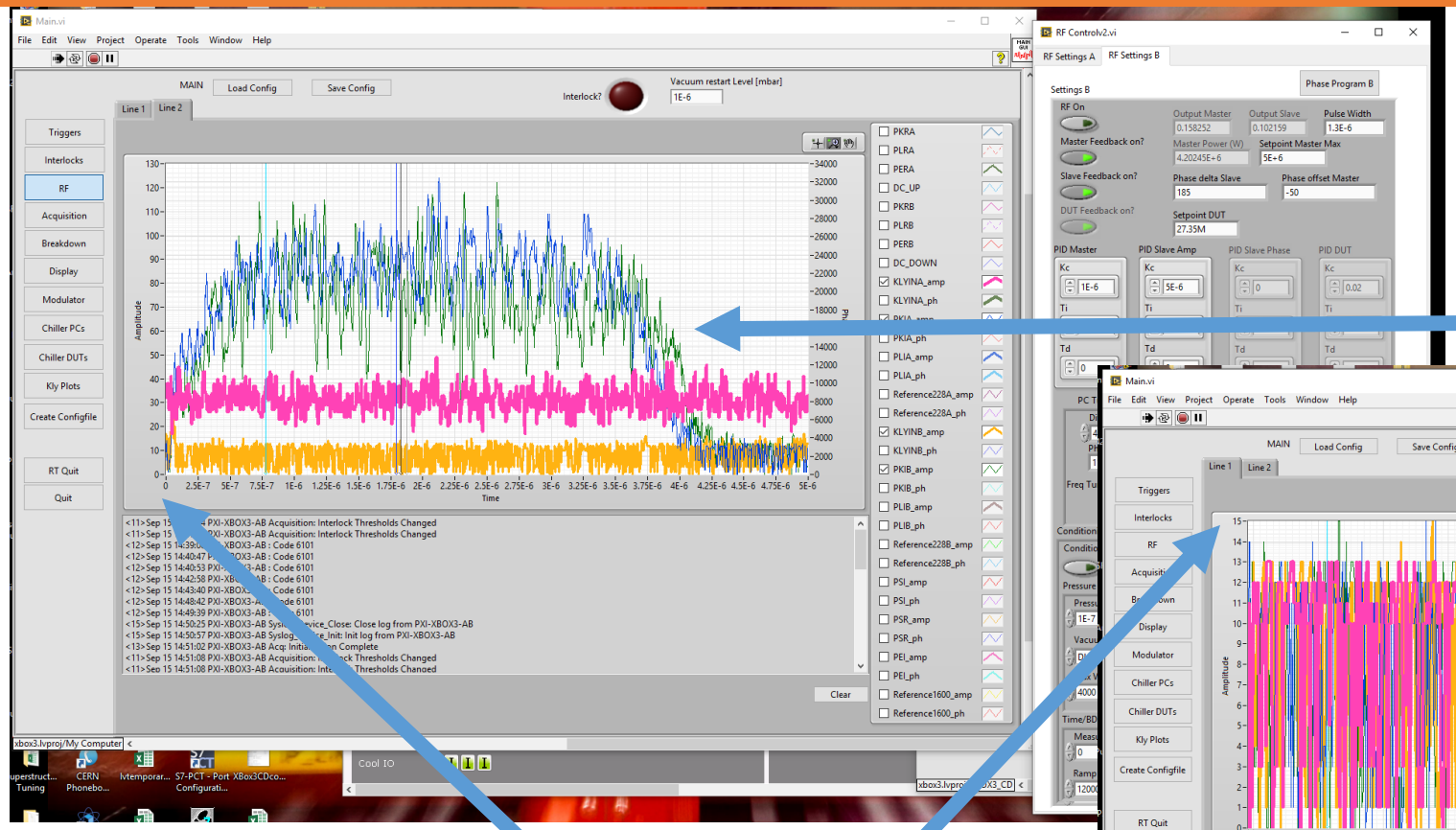
<11> Sep 15 14:37:54 PXI-XBOX3-AB Acquisition: Interlock Thresholds Changed
<11> Sep 15 14:37:54 PXI-XBOX3-AB Acquisition: Interlock Thresholds Changed
<12> Sep 15 14:39:08 PXI-XBOX3-AB : Code 6101

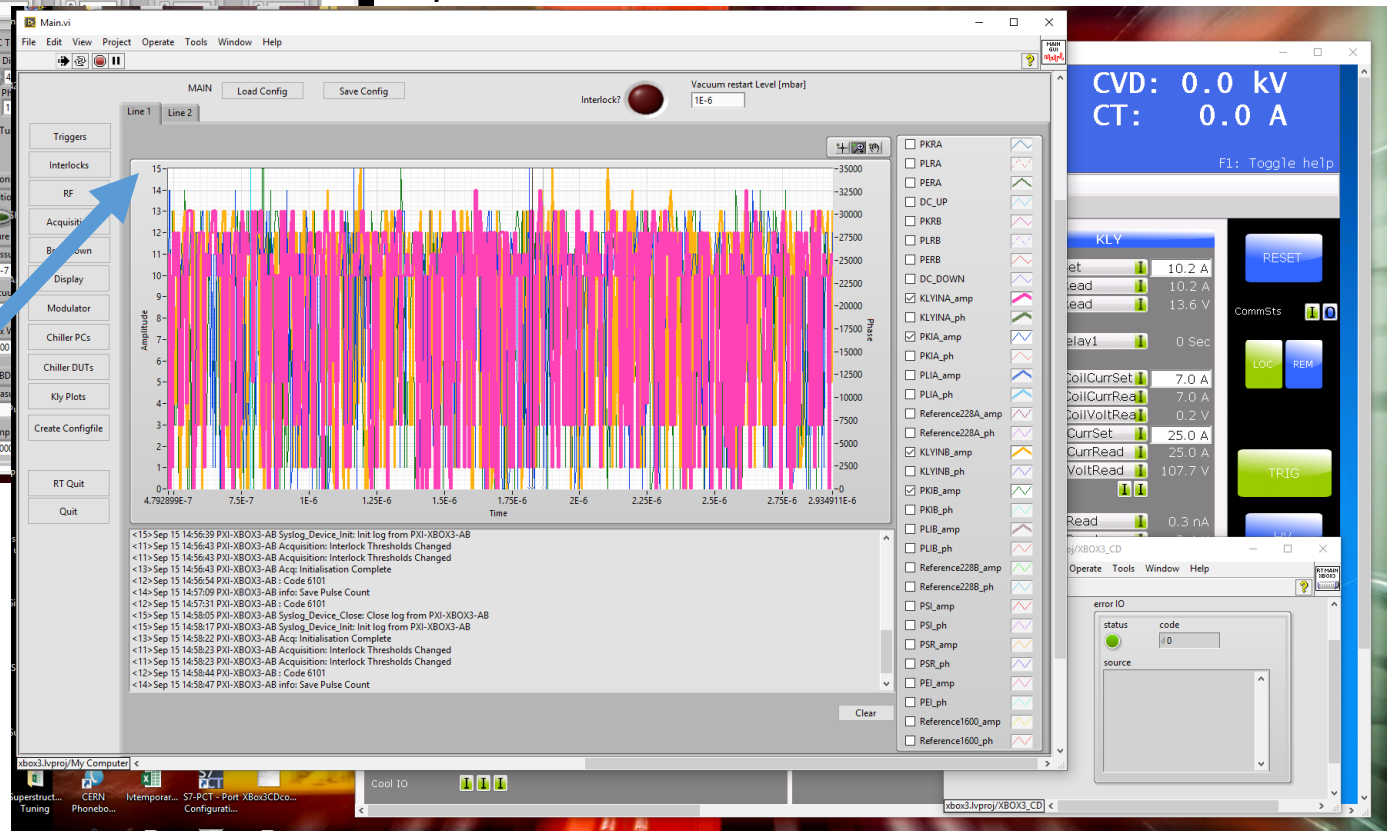
This disappeared after restarting main (not rt)

Clear

PKRA
PLRA
PERA
DC_UP
PKRB
PLRB
PERB
DC_DOWN
KLYINA_amp
KLYINA_ph
PKIA_amp
PKIA_ph
PLIA_amp
PLIA_ph
Reference228A_amp
Reference228A_ph
KLYINB_amp
KLYINB_ph
PKIB_amp
PKIB_ph
PLIB_amp
PLIB_ph
Reference228B_amp
Reference228B_ph
PSI_amp
PSI_ph
PSR_amp
PSR_ph
PEI_amp
PEI_ph
Reference1600_amp
Reference1600_ph

XBOX3 AB – Crazy Times





After restart the channels (PKI_B, PKI_A, KLY_INA, KLYIN_B) can look like either of these two.

Modulator is ON which can explain this pulse

Amplitude is very small though, it's essentially noise.