# Shutdown

Verify Laser AC still on during shutdown and conditioning bucket is not full. If temp in laser room is <80, air conditioning is on.

# Operation

25MW klystron ion gauge: No remote access, camera points at controller on modulator

Verify output of LLRF on LLRF\_DAQ tab and 192.168.1.230 picoscope (remote desktop)

Channel delays on BUN1\_PULS1:

* Outputs are duplicated on front and back

# Data Logging

Vacuum Pump Controller Logger

* Open SPCe Logger from taskbar.
* Enter IP address (find on controller by navigating to ethernet menu).
* Give unique name, same as in SQL query of logger.

K900 Logger???

Control System Studio Archiver??

* Restart archiver if CSS restarted
* Can query data from archiver and save to disk

# Restarting IOC

Open GRIT IOC Restart Instructions.txt from Desktop

# CSS GUI

LLRF tab: multiple xaxis by 2 for microseconds

# Miscellaneous

Keep an eye on RF rack temperature and power supply reading

Increase RF length by decreasing CH E on CSS-> BUN1\_PULS

# Troubleshooting

Modulators have been finicky. If get overcurrent trips on supply units, try dropping to lower voltage, and ramping up from there.

If no storage on IOC when restarting, and previous images seem to be deleted, make sure they aren’t still taking up memory.

Cycling power to laser air conditioning in breaker panel. 50 switch for labels 20-22. (double switch is 3 phase)

Moxa Box: Type IP address into URL: 192.168.1.167 (should be saved as bookmark)

Picoscope: Remote desktop into 192.168.1.230 (password is b3tatr0n)

Username and password are “admin” and “moxa”. Don’t reset the password if prompted.

Sometimes, Controller state freezes when trying to set target state (MPS tab in CSS). The solution is to restart epics.

Loose wire on HPI\_FLW\_3 going to terminal block near PLC.

Solenoid values should always be ramped ideally to avoid arcing in gun.

Steering magnet calibration: 169 Gauss\*cm/A

# Modulator

Turned off unexpectedly. Diego said something like this had happened before due to corruption on the epics backend. Things to do are restart the IOC and restart the modulators (flip breaker in 50MW, unplug converted for 25 MW)

Can also take off front panel to look at flow rates.