

YFE Turn-On Procedure

YFE Turn on Procedure:

- Set hutch to "Class 1", "Class 4 Glass Laser" or "Class 4 Dual Laser" or "Class 4 Split Mode"
- Don the appropriate eyewear
- At the LSS display, badge in and open Shutter S4

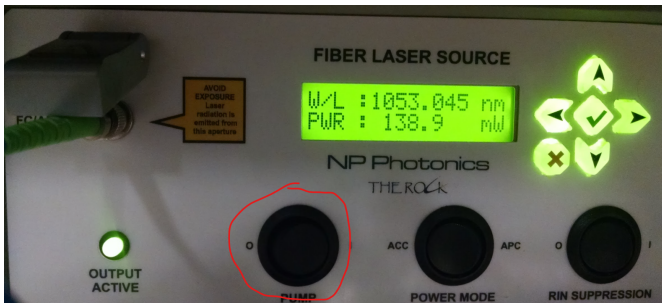
Turn on each of the 4 chillers:

- Requires a ~ 30 minute run time to reach stable set temp
- YFE output energy will be low until set temperature is reached
- Set Temperature for each chiller is:
- 2mm ABCD = 30.3 degrees C with 49psi and a .95GPM flow rate
- 2mm EFGH = 30.3 degrees C with 49psi and a .95GPM flow rate
- 6mm AB = 26 degrees C with 43psi and a 2.0GPM flow rate
- 10mm CD = 24 degrees C with 47psi and a 2.0GPM flow rate



At the NP Photonics Seed Laser:

- Verify NP Photonics Seed Laser is Operational
- If power output reads 0 then:
- Go to LSS display, badge in and press the "Press to reset interlocks" button at the top right of screen
- At the NP Photonics seeder, toggle the "pump" switch from position 1 to 0 and then back to 1
- The output power indicated on the screen should now begin ramp up to the max value of ~ 140mw
- Power mode = ACC and Run Suppression = 0



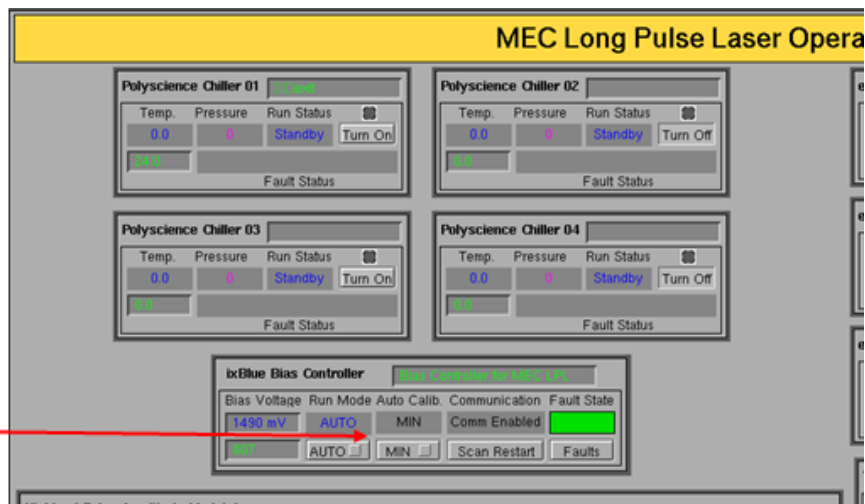
Note: there are TWO NP Photonics "The Rock" seed lasers in rack R64B along the south wall of the hutch:

- the **free-standing unit** sitting at the **top** of the rack (as indicated in the picture below) is the **operating unit**
- the **rack-mounted unit** in the **middle** of the rack is a **spare** – don't get fooled by this unit without any lights on 😊



At Epics:

- Verify in Epics that seed laser is “locked” to min and not max



Verify Pulse is Locked:

Blue ring should be illuminated along with the green “lock” LED



eDrive Turn On:

- Rotate key switch clockwise at each eDrive
- Press “Power” button at each eDrive



Turn on TDK Lambda power supplies:

1. Toggle power rocker switch to "on" position at each of the 4 supplies



1. Press the tiny "out" button at each of the 4 supplies. The green LED above the button should then be illuminated

