

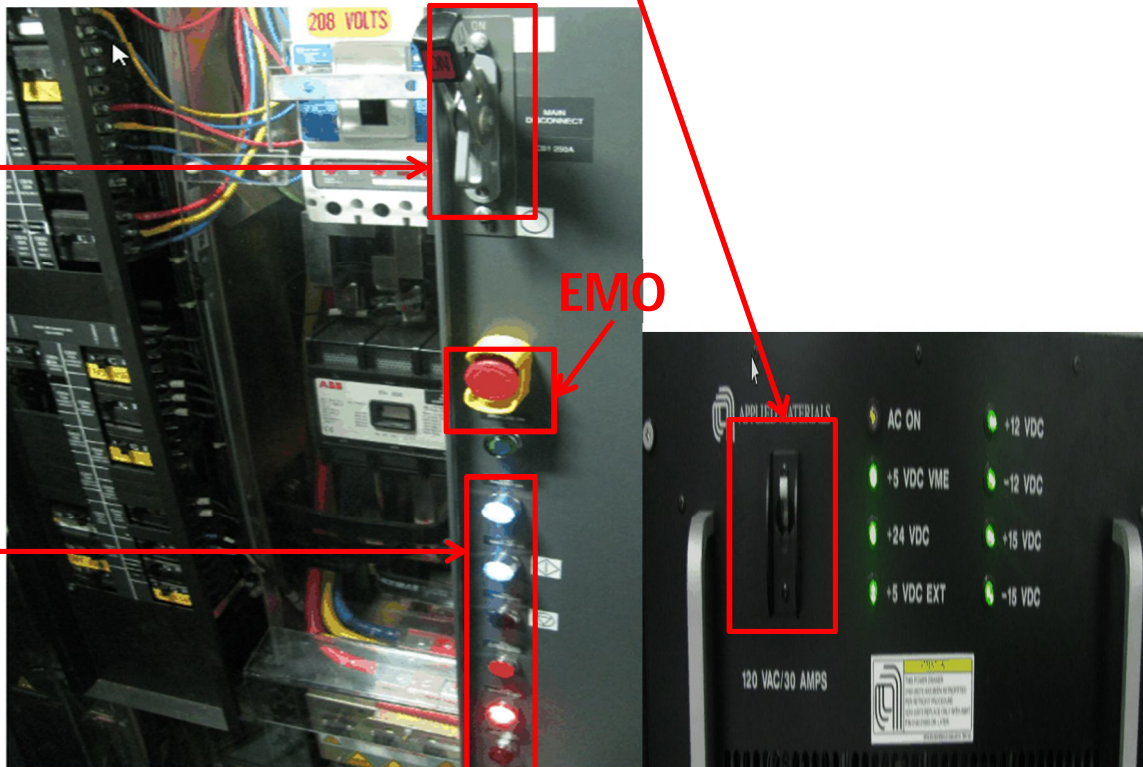
SOP FOR PVD ENDURA TOOL

❖ Check list before starting the tool from facility :

- CDA Pressure
- Chiller temp. for child water
- Heat Exchanger operation (water level, alarm)
- Exhaust Fan Should be ON
- Purge cylinder for system

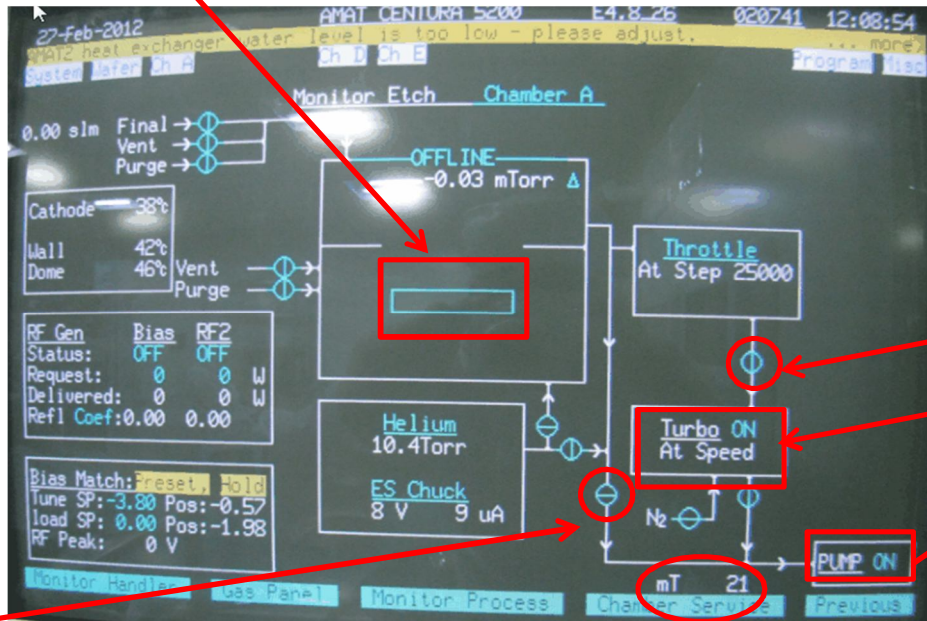
❖ PVD ENDURA Tool start-up procedure :

1. Main ON/OFF Breaker
2. EMO CKTS ON
3. MACH CKTS ON /OFF(On main controller)
4. Turn ON DC power.(From VME controller)
5. Log in system
User Name : -----
Password :-----



❖ CHAMBER A (DPS)

1. Turn ON roughing pump. (wait till fore line pressure go up to below 100 m Torr.)
2. Pull heater lift at release position.(If required)
3. Pump down chamber thru roughing valve.(chamber should be in m TORR range)
4. Turn ON turbo pump. (Wait till turbo pump come AT SPEED mode)
5. Shut off Roughing valve.
6. Open Isolation Valve.



Roughing Valve

Isolation Valve

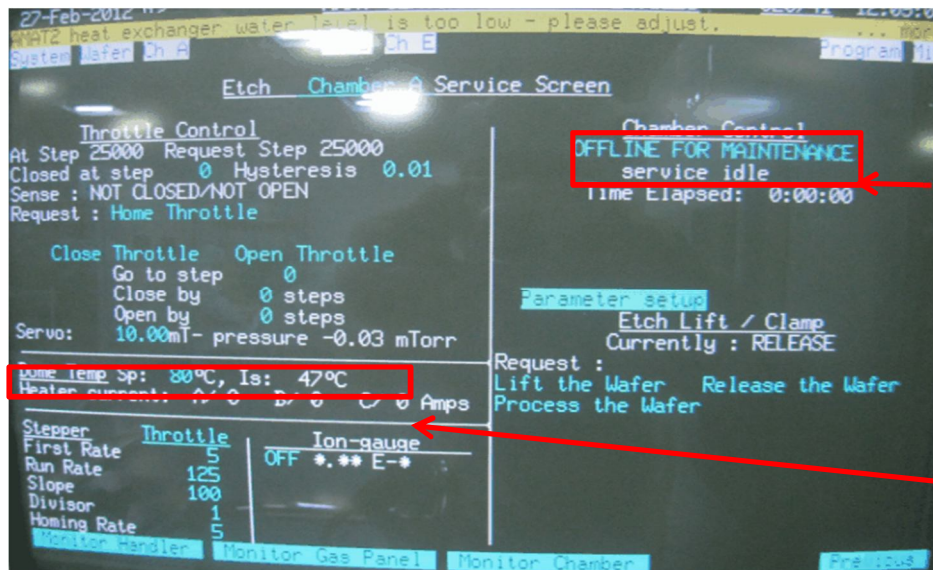
TURBO PUMP

Roughing PUMP

Fore line Pressure

Put chamber ONLINE from here

Set DOME temp. here

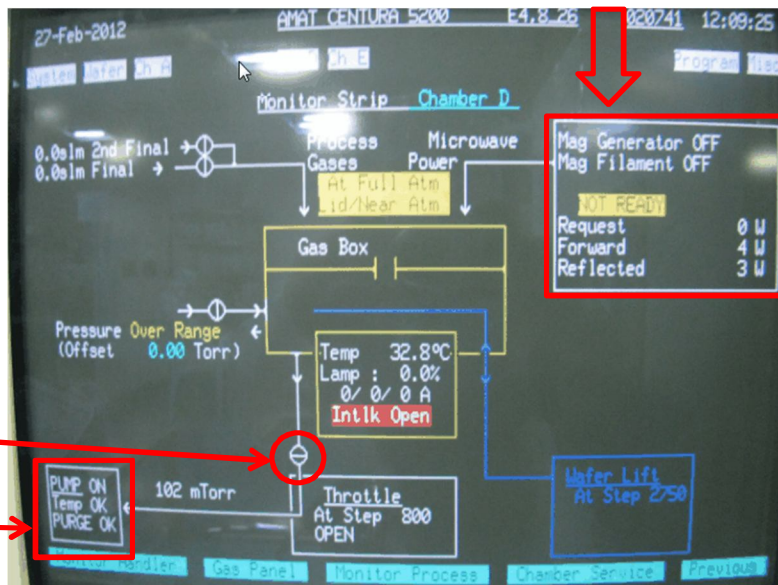


7. Set dome temp from chamber service screen

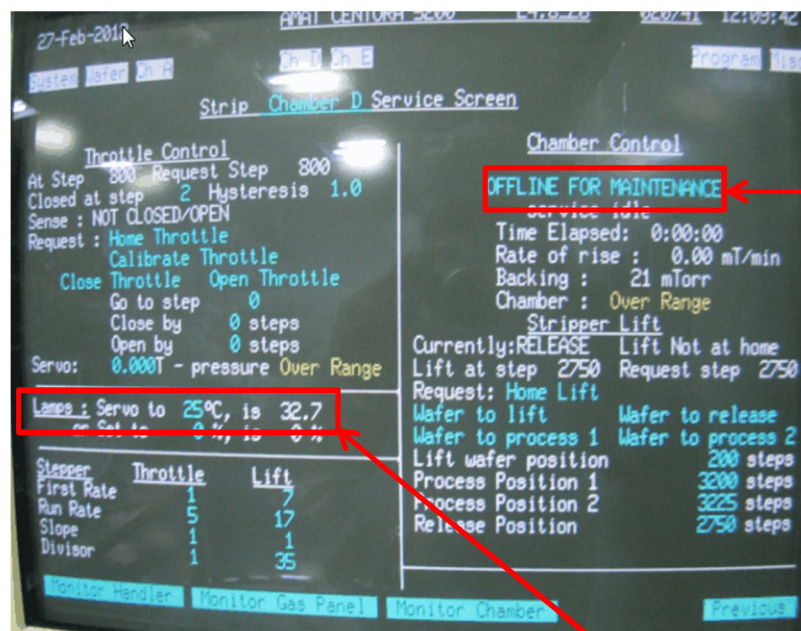
8. Put chamber ONLINE.

❖ CHAMBER D (ASHING)

1. Turn ON Roughing pump.
2. Pump down chamber by opening Isolation Valve.
3. Turn ON Maglev Filament.(Wait till gen.ready)
4. Set lamp temp.
5. Put chamber ONLINE for prossece.



Isolation Valve



Put Chamber ONLINE from here

Set lamp temp here

❖ ETCH CENTURA Tool SHUT-DOWN Procedure :

➤ Chamber A (DPS)

1. Turn OFF Roughing pump .
2. Put chamber OFFLINE.
3. Shut OFF Isolation Valve.
4. Turn OFF Turbo pump.(wait till break light illuminate on controller)
5. Turn OFF roughing pump.

➤ Chamber D (ASHING)

1. Turn OFF roughing pump.
2. Put chamber OFFLINE.
3. Turn OFF Maglev Filament.
4. Turn OFF roughing pump.

➤ ETCH CENTURA MAINFRAME SHUT DOWN

PROCEDURE :-

1. Put both load lock chamber OFFLINE.
2. Put Buffer chamber OFFLINE.
3. Turn OFF both load lock and buffer pump.
4. Turn OFF DC power from VME controller.
5. Turn OFF power breaker (from main controller)
6. Turn OFF main breaker (from main controller)