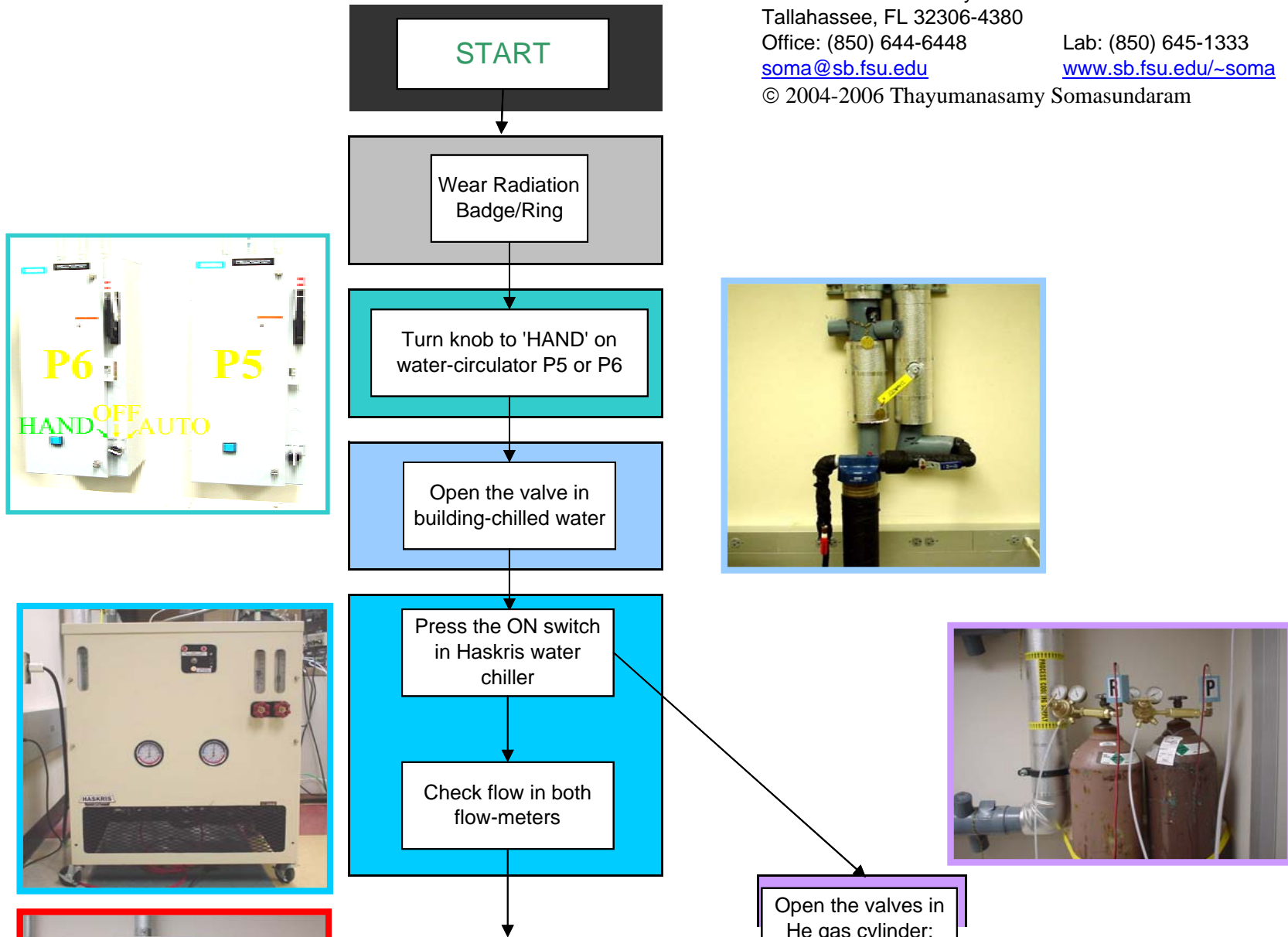


X-Ray Generator Start-up & Shut-down Flowchart (MarCCD)

X-Ray Crystallography Facility Last update: June, 2006
410-413 Kasha Laboratory
Institute of Molecular Biophysics
Florida State University
Tallahassee, FL 32306-4380
Office: (850) 644-6448 Lab: (850) 645-1333
soma@sb.fsu.edu www.sb.fsu.edu/~soma
© 2004-2006 Thayumanasamy Somasundaram





Flip the handle to ON in circuit breaker box

He gas cylinder; Ensure flow



Enter sample information in log book

Check the He flow in flow-meter at detector

Wait 15 minutes



Press START button on VACUUM panel

Check vacuum-meter reading ≤ 0.240

Check Haskris water temperature

Press ON button below POWER on X-RAY panel

Check vacuum-meter reading ≤ 0.170

Check the He flow in flow-meter at detector

Press ON button below TARGET

Check vacuum-meter reading ≤ 0.120

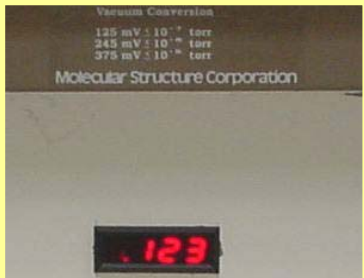
Press ON button below X-RAY lamp

Check Haskris water temperature

Wait 10 minutes

Increase kV by 2; Increase mA by 4; **Never Exceed max limit**

Check vacuum-meter reading ≤ 0.100





Enter instrument information in log book

Proceed with data collection
Finish data collection

For R-Axis IIc only
Ensure Right shutter switch is in EXT. position in SHUTTER panel

Decrease kV by 4;
Decrease mA by 6;
Stop at 20 kV and 10 mA
Press OFF button below POWER on X-RAY panel



Press STOP button on VACUUM panel

Close the valves in He gas cylinder; Ensure stoppage

Flip the handle to OFF in circuit breaker box





Press the OFF switch
in Haskris water
chiller

Close the valve in
chilled water

Turn knob back to 'OFF' on
water-circulator P5 or P6

END

