

# Operations start / end

## Beam startup prep

	Turn on the three crates: mot1, mot2 and gen1
	Turn on HHL chiller
	mmE and HHL vacuum ok?
	Open helium gas cylinders
	Turn on mirror HV software and electronics
	Turn on mm1/2pcl and pol drivers. Restart soft ioc if needed.
	Turn on roughing pumps on roof of b station
	HHL Queensgate on
	Turn on ion chamber HV
	Purge displax Helium

## Beam shutdown prep

	Close gas cylinders
	Turn off ion chamber HV
	Turn off mirror HV software and electronics
	Turn off the three crates: mot1, mot2 and gen1
	mmE turbo off
	Turn off mm1/2pcl and pol drivers. Leave moxa box on.
	Turn off HHL chiller
	Turn off roughing pumps on roof of b station
	HHL Queensgate off