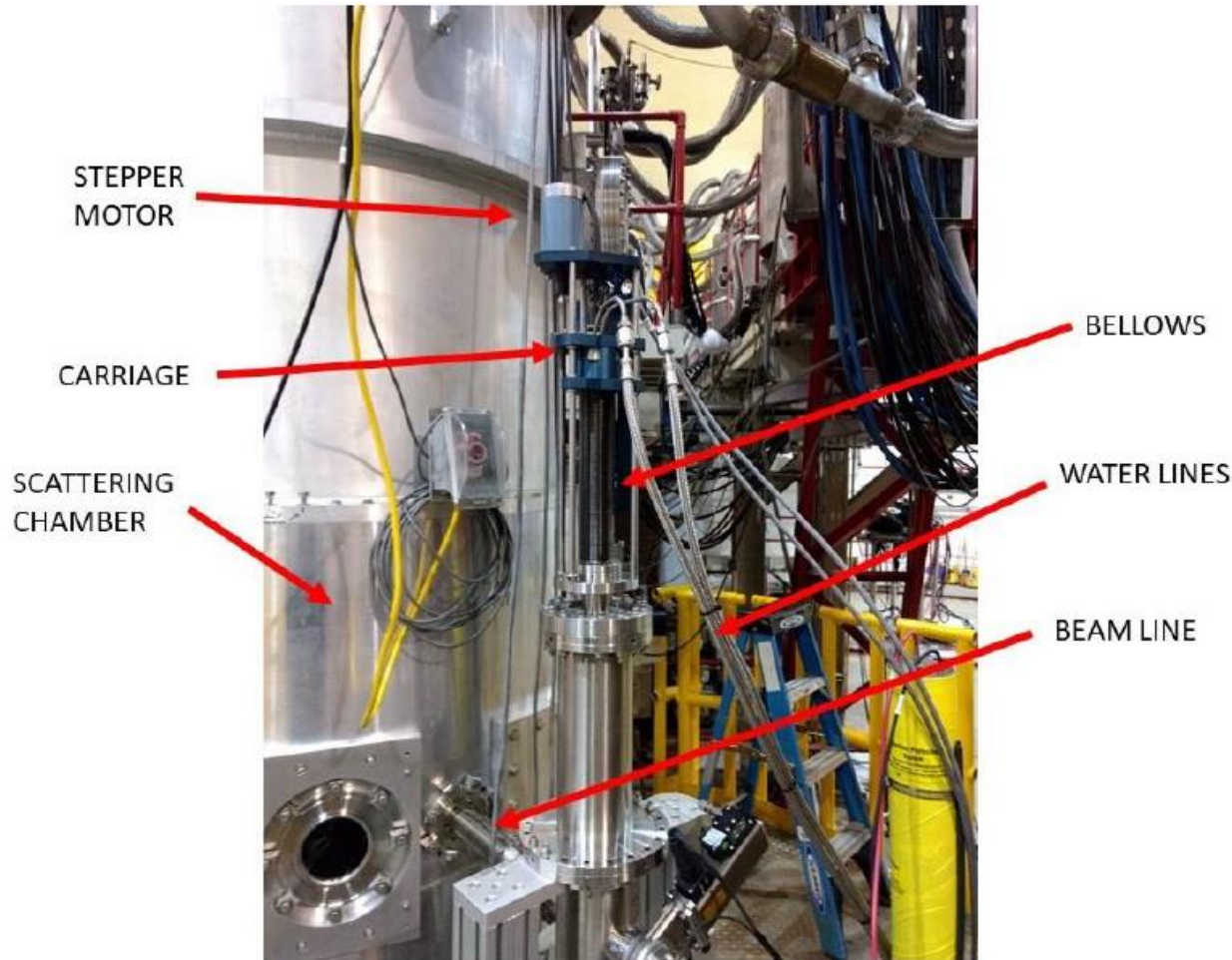


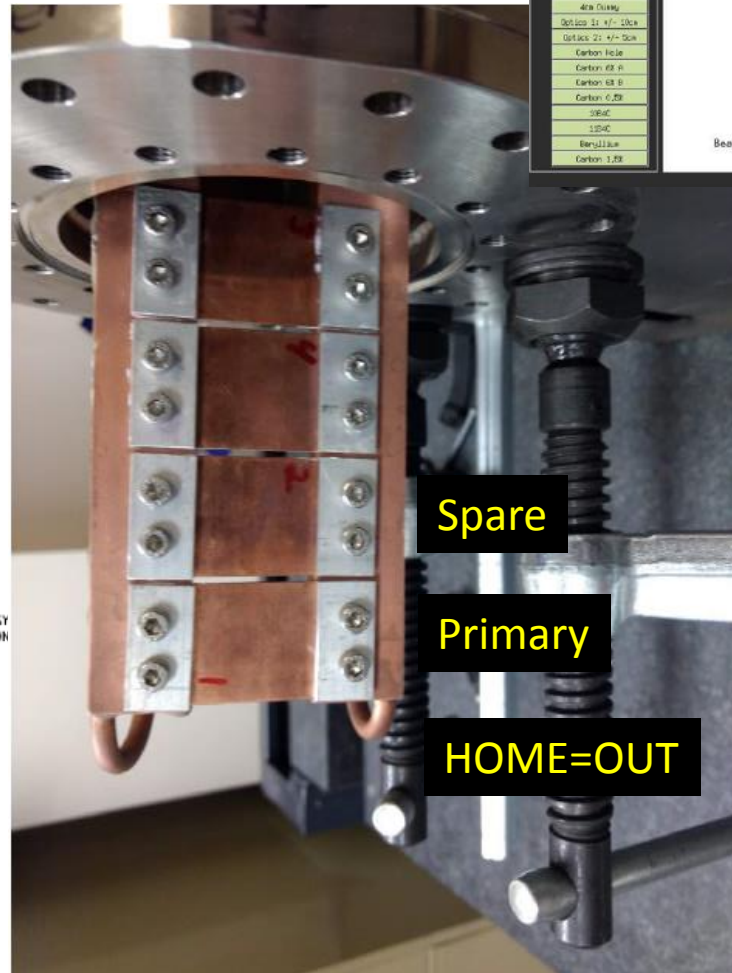
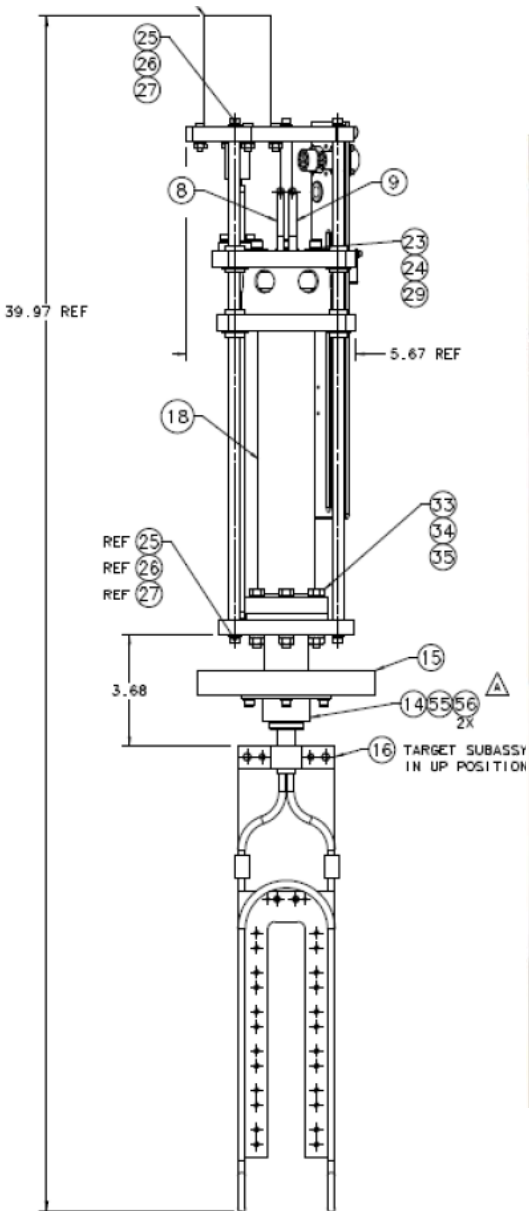
Hall C Bremsstrahlung Radiator (Jan. 2019)

- Link to water-cooled radiator operating procedure TGT-PROC-19-001:
 - <https://misportal.jlab.org/jlabDocs/version.seam?docVersionId=121970>
 - Copy of



- Just upstream of target scattering chamber
- Water-cooled
- Upper (=home) & Lower limit switches
- Stepper motor controlled
- No motion FSD for radiator
 - Can move in/out of beam while beam is on after calling MCC
- But there is an FSD on water flow

Setup & GUI



HALL C CRYOTARGET

Hall C Status: Restricted
Beam Current: 0.000 uAmps
Vacuum Pressure: 1.07e-11 atm

RADIATOR OUT 0.000

STOP MOTION

RADIATOR MOTION

RADIATOR OUT

Encoder Position: 0.000

	Nominal Positions
Home: Out of Beam	0.00
Foil #1	4.04
Foil #2, SPARE	3.01

STOP MOTION

STATUS

Busy:

Home:

Limit:

Expert Controls

Bremstrahlung Radiator

Procedure to insert radiator:

- Call MCC, wait for their agreement
- Press “Foil #1” on GUI
 - Do not use “Spare” unless instructed by tgt expert
 - Press “Stop Motion” if encoder exceeds 3.0 or if you suspect there is a problem
 - Motion should stop when encoder reads 1.115
 - Foil is now in beam
- Let MCC know it’s IN. They should have raised the Ion Chamber trip threshold accordingly.
- To move radiator OUT, follow same procedure using HOME button
 - encoder reads 0.0 when OUT



Problems

- **Communication Failure:**
 - Reboot IOC. Call system expert if that fails.
- **Power Failure/FSD Failure/Control Failure:**
 - Call system expert
- **System Experts:**
 - Dave Meekins – x5434 Cell: (757) 968-9076
 - Chris Keith – x5878