University of Arizona
CAMECA SX100

Sample Change
Part 1

Removing a Shuttle.

Step 1
Open the Vacuum Tab on SX Control.

Click on Vacuum Tab
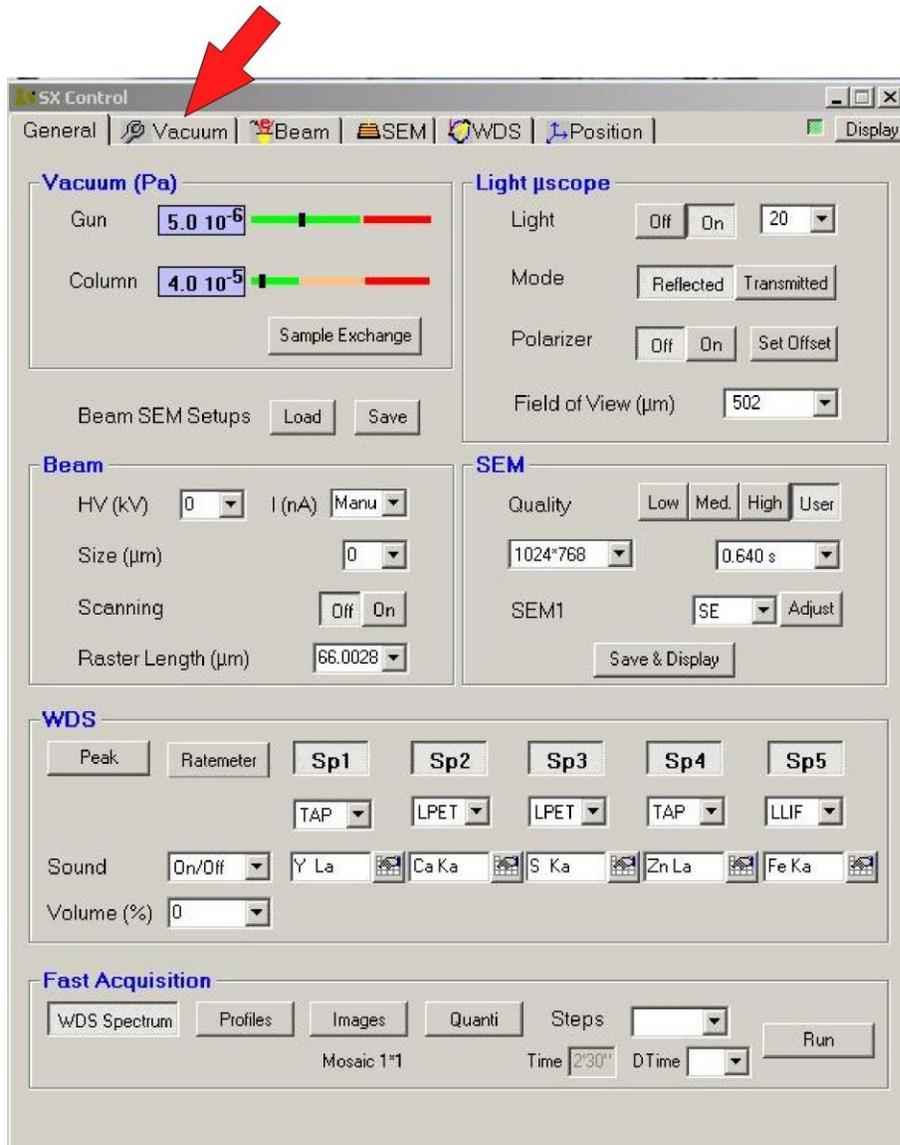
Step 2

Press This Button
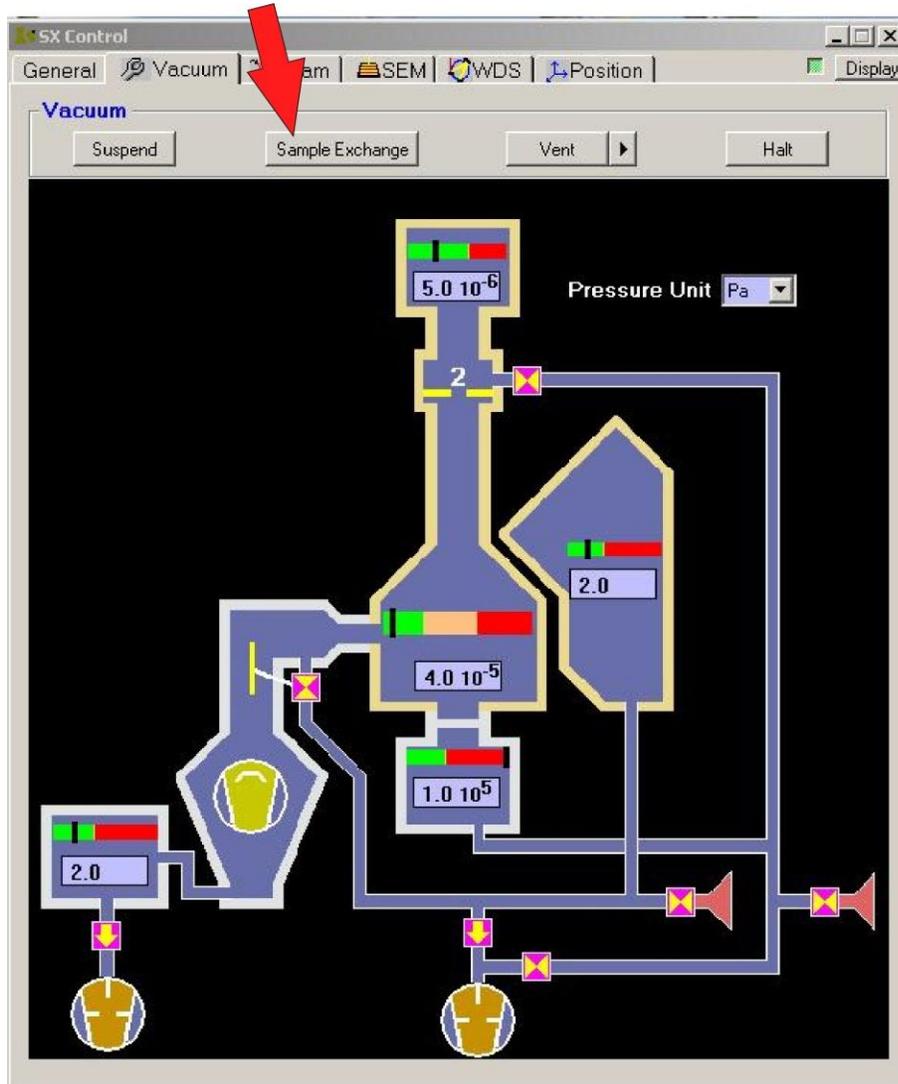
Step 3
Confirm that you want to do a Sample Exchange.
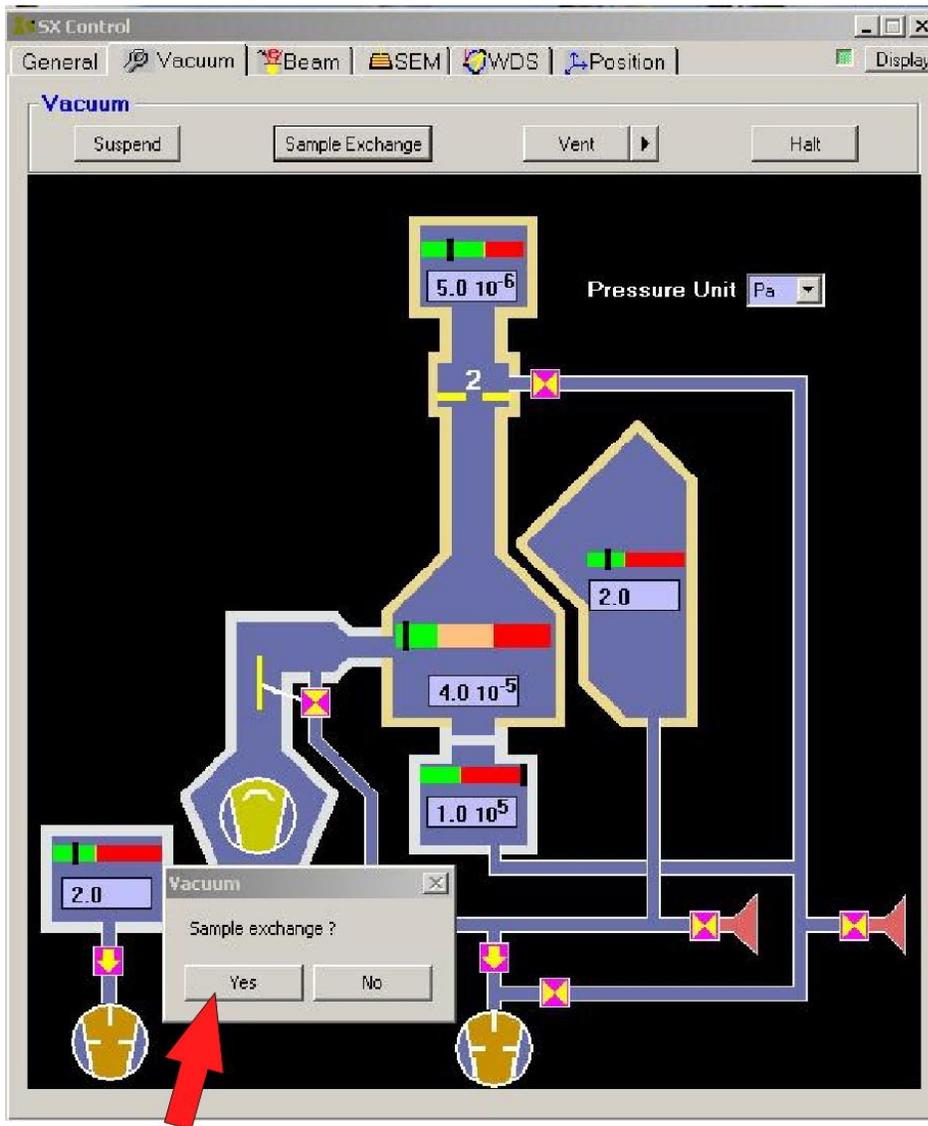

Press This Button

Step 4

Wait for the message: "Turn Gun Valve to Position 1".

Then:

Turn the bigblack knob all the way clockwise.

(i.e. the number 1 is facing towards the computer).
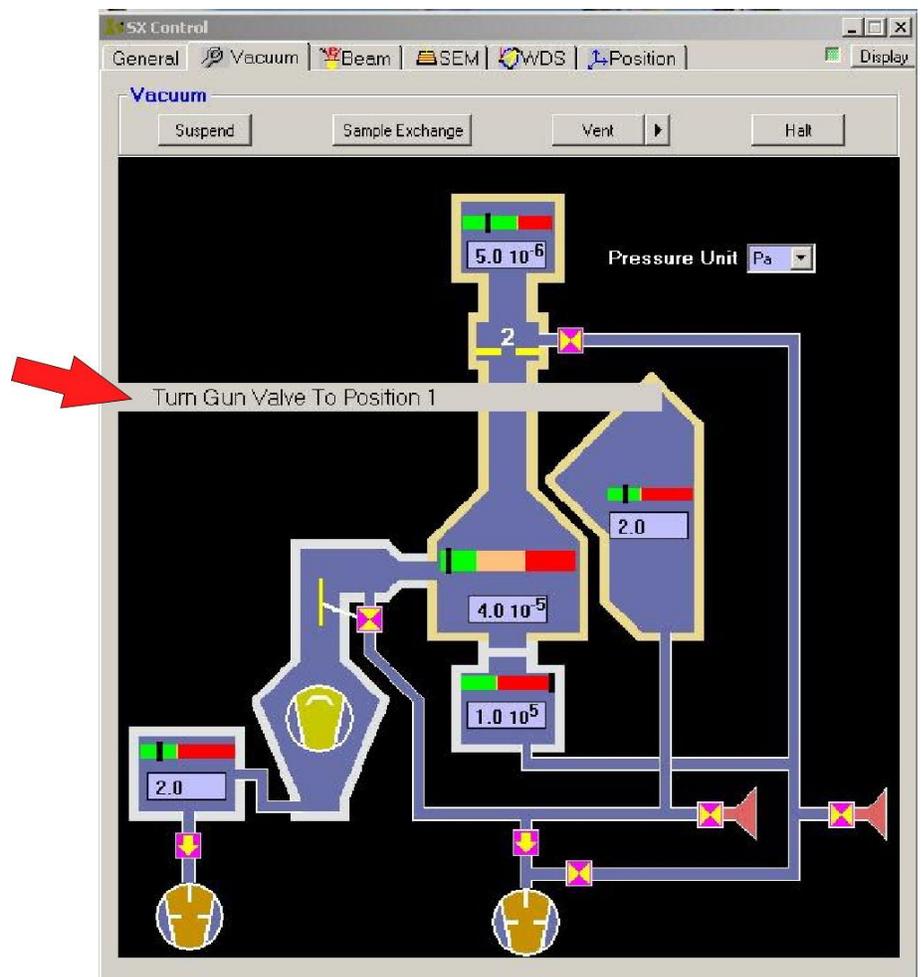
Step 5 VERY IMPORTANT

WAIT!

Until:
Both these numbers are less than 9.0.

Then:

Go To Step 6

Note:

Do NOT
**Press "Continue"
At this time**
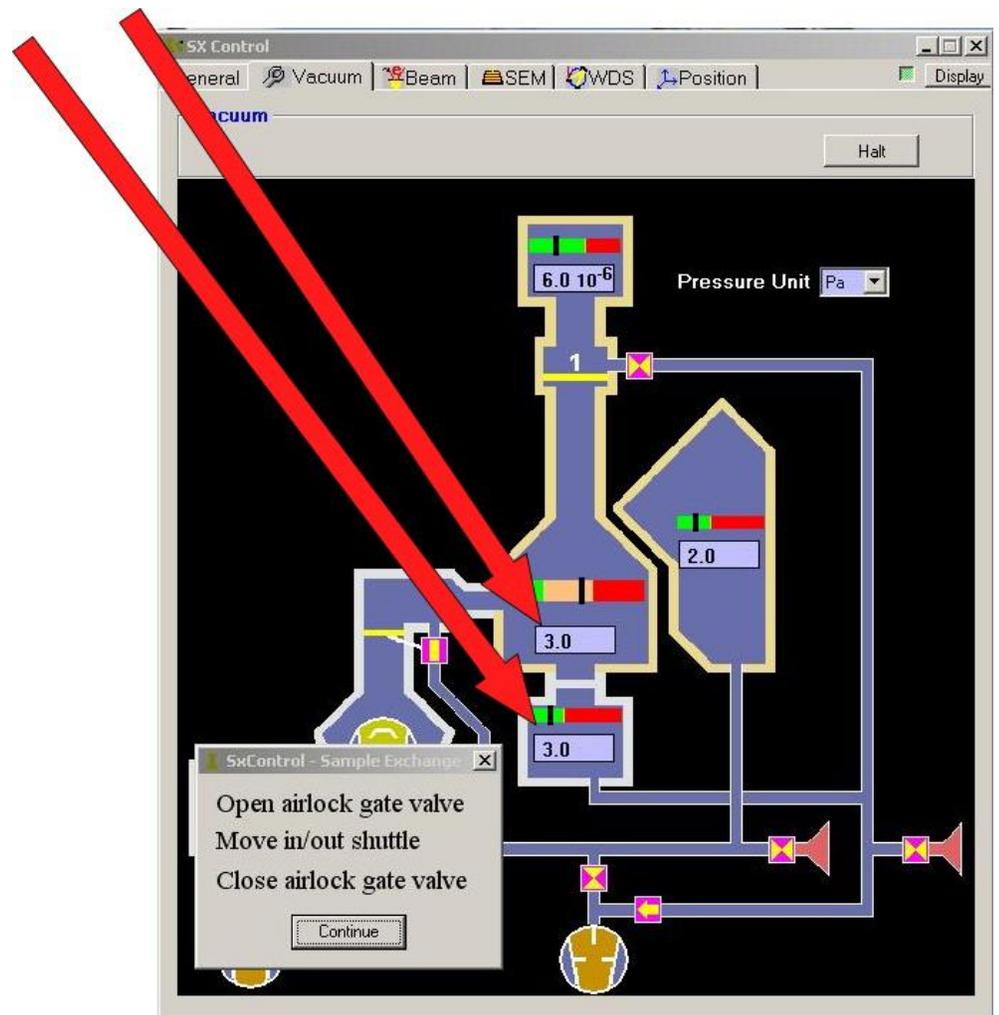
Step 6

Extract the Shuttle from the Sample Chamber.

A: Open Airlock

**Open the airlock gate valve.
Push lever in and move it to the up position.**

B: Insert Rod

Make sure this arrow is pointing outwards.

then

Push this handle all the way in.

C: Extract Shuttle

Pull the handle all the way back out.
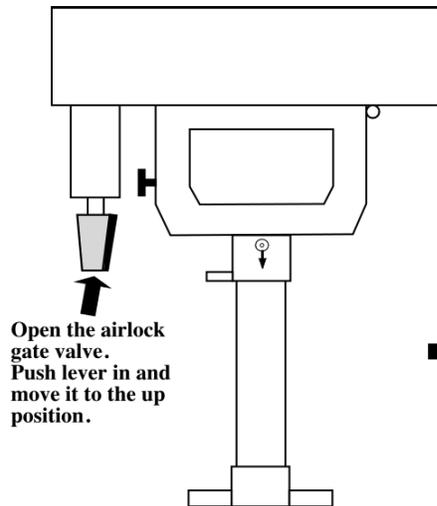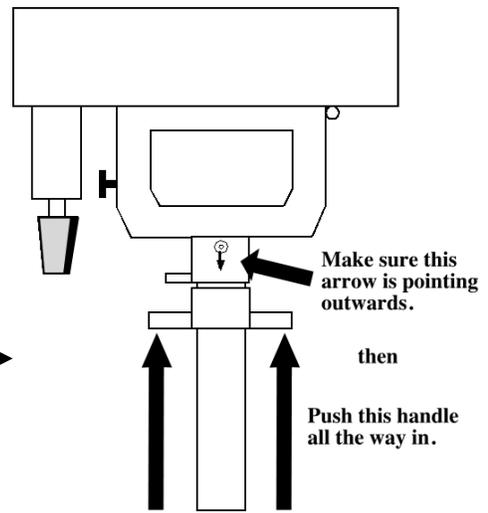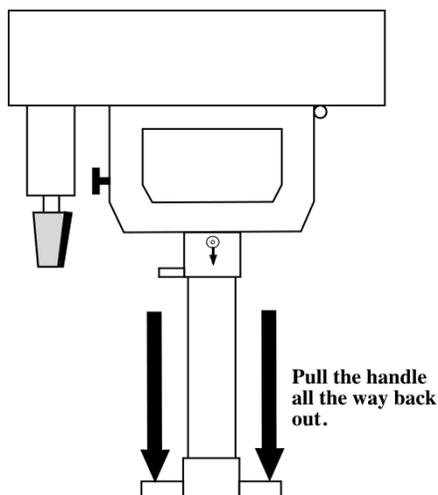
D:

GO TO STEP 7

Step 7   VERY IMPORTANT

Close the Airlock Gate Valve.

E: Close Airlock!!!
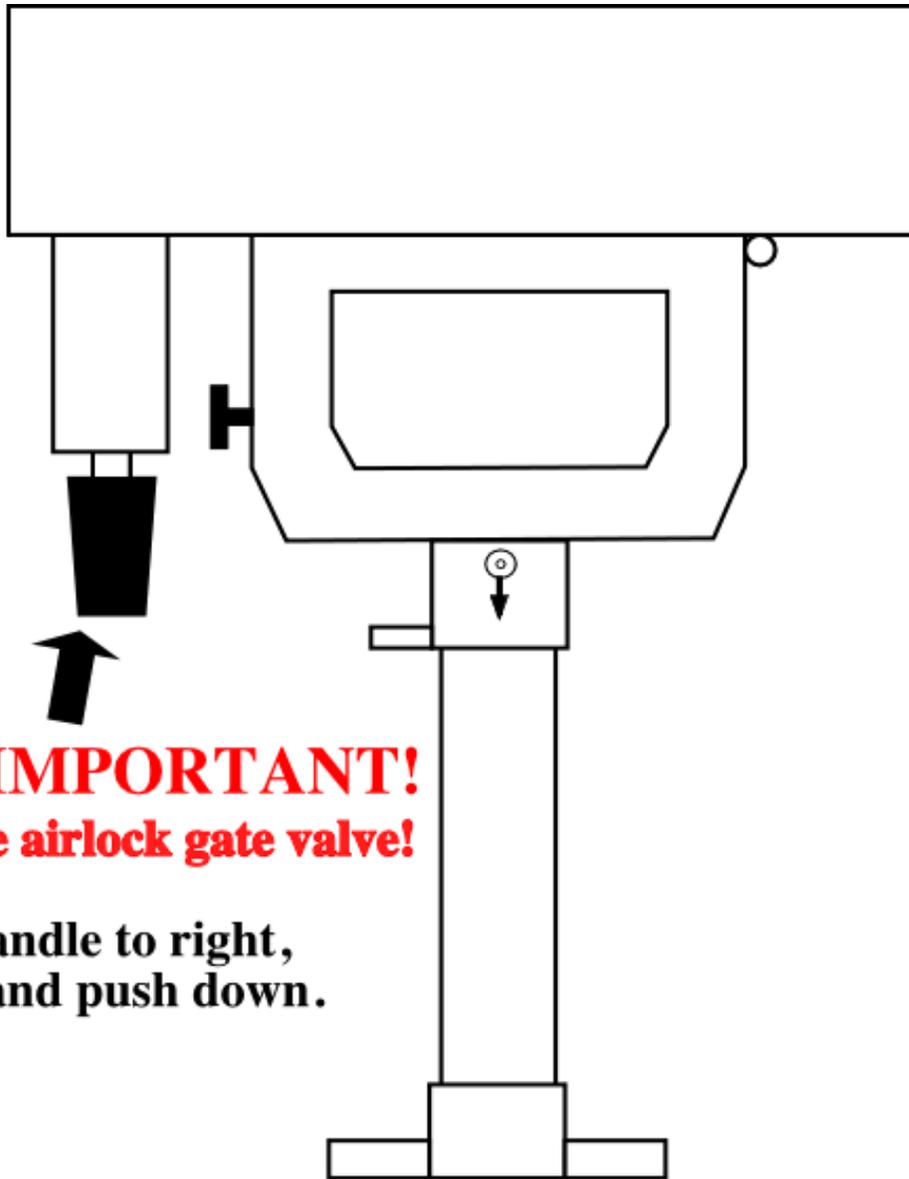
VERY IMPORTANT!
Close the airlock gate valve!

Twist handle to right,
push in and push down.

Step 8   VERY IMPORTANT

## Double check that the Airlock Gate Valve is closed.

Then:
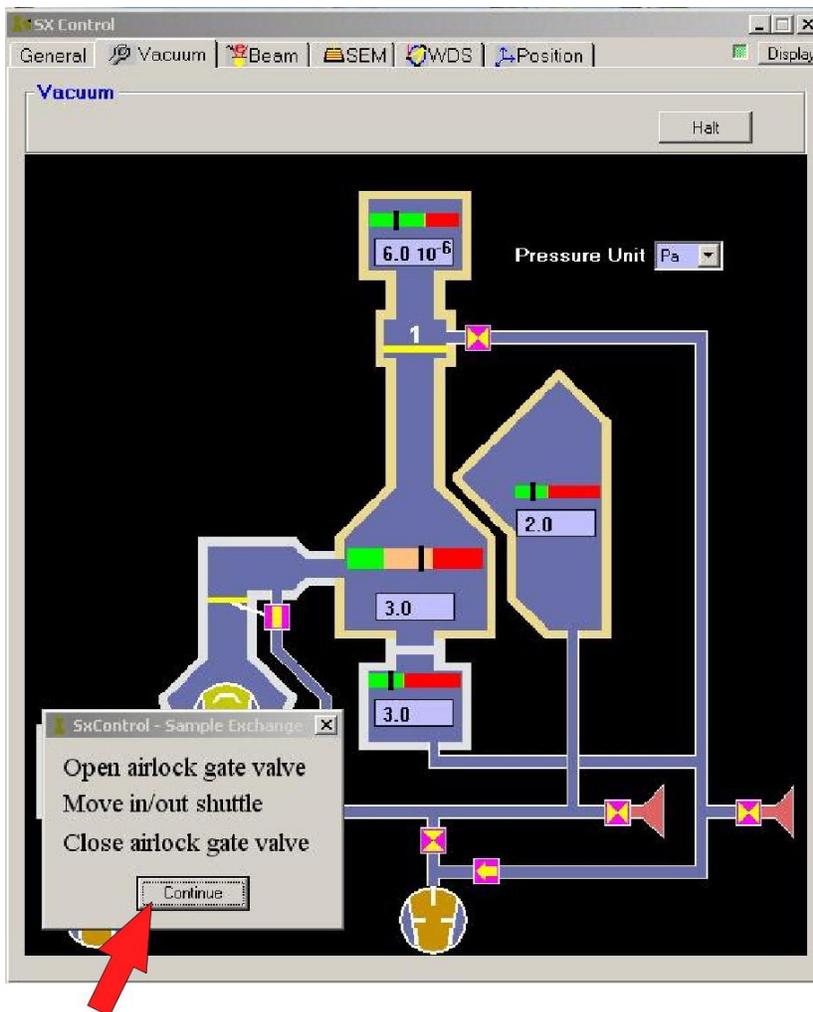
Press This Button

Step 9

Open the Outer Airlock and remove shuttle.

Wait for Airlock to Vent (airlock reads approximately 1.10^{+5} pascals). Then:

A: Open Outer Chamber

After airlock vents:
Press this button to
unlatch airlock.

B: Remove Shuttle

Push shuttle inwards
to remove from extraction
rod.

Swing airlock open.

C: Close Outer Chamber

After removing shuttle
Swing airlock closed again.

D: Chamber Closed

Final position of airlock