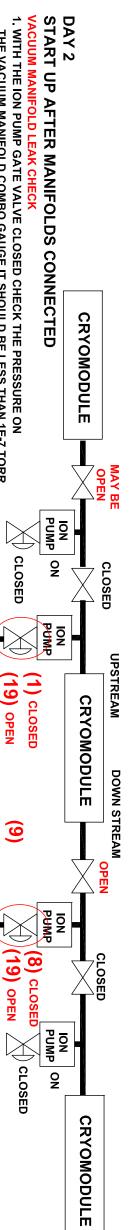


0.02 TORR



MAY BE OPEN

WITH THE ION PUMP GATE VALVE CLOSED CHECK THE PRESSURE ON

THE VACUUM MANIFOLD COMBO GAUGE.IT SHOULD BE LESS THAN 1E-7 TORR.

2. CHECK THE PRESSURE ON THE TWO TURBO PUMP COMBO GAUGES THEY SHOULD BE IN THE LOW 1E-8 RANGE.

CAPACITANCE

D

**P** 

COMBO

CAPACITANCE MANOMETER

PIEZO GAUGE

MANOMETER

CHECK FOR A LEAK IN THE GAS MANIFOLD BY CLOSING VPB1, VPB2 MANIFOLD AND HOSES. VPA1 AND VPA2 AND MONITORING THE MANIFOLD COMBO GAUGE. IF THERE IS A LEAK SEAK VACUUM SUPPORT TO LEAK CHECK THE

4. OPEN VPB1, VPB2, VPA1 AND VPA2.

CHECK THE GAS SUPPLY MANIFOLD AND PIPING FOR LEAKS

8. WITH THE ION PUMP GATE VALVE CLOSED, THE V\_ISOLATION CLOSED, THE CAVITY GAS SUPPLY VALVE OPEN, CLOSE VN2 TO ISOLATE THE SCROLL PUMP.

CHECK FOR A PRESSURE INCREASE ON THE MANIFOLD VACUUM SUPPORT THE GAS SUPPLY CART. IF THE PRESSURE INCREASES CONTACT CAPACITANCE MANOMETER AND THE COMBO GAUGE ON

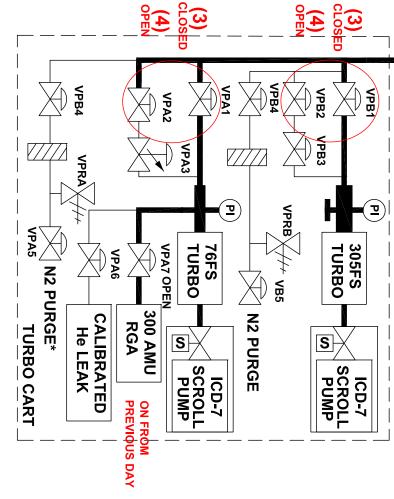
10. ASSUMING NO LEAKS CLOSE THE CAVITY ISOLATION VALVE.
AND OPEN THE VN2 PUMPING VALVE.

11. OPEN THE V\_ISOLATION VALVE ON THE GAS SUPPLY CART. IT WOULD NOT BE UNEXPECTED TO SEE A BUMP IN THE PRESSURE AS INDICATED ON THE COMBO AND PGX GAUGES. WAIT FOR THE PRESSURE TO RECOVER TO LESS THAN 0.001 TORR

12. OPEN THE CAVITY GAS SUPPLY VALVE.

NOTE ON VACUUM PUMP NUMBERING. IF YOU ARE WORKING IN AND THE PUMP ON THE VACUUM MANIFOLD END IS VIP1L25B. ZONE 1L25 THE PUMP ON THE GAS SUPPY MANIFOLD IS VIP1L26A TURN OFF ION PUMPS AND OPEN ION PUMP GATE VALVES

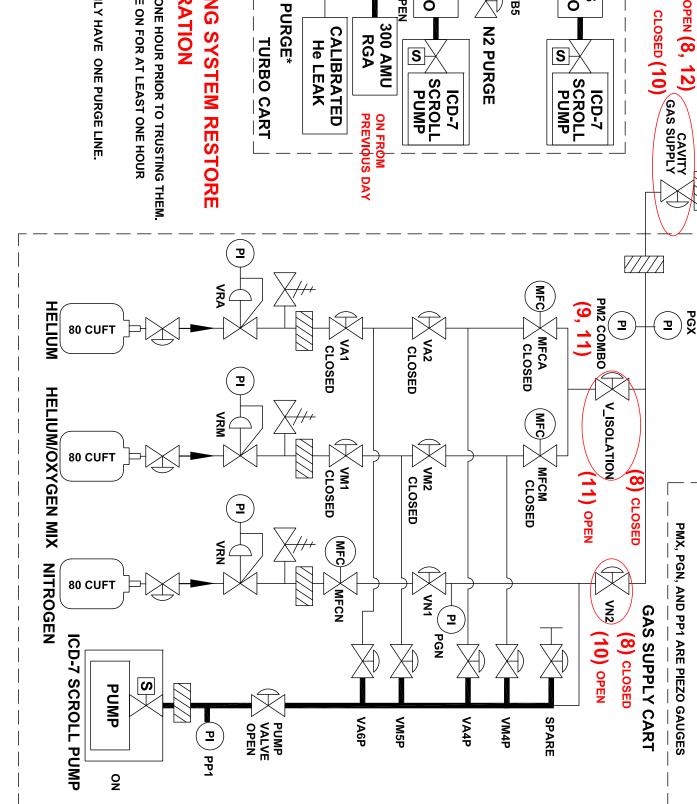
- 13. LOCATE AN EPICS COMPUTER IN THE KLYSTRON GALLERY NEAR THE RACK WITH THE VACUUM PUMP CONTROLLERS.
- 14. OPEN THE APPROPRIATE SRF VACUUM SCREEN SO THAT YOU VALIDATE THAT YOU ARE TURNING OFF THE CORRECT ION PUMP.
- 15. LOCATE THE ION PUMP POWER SUPPLY ON THE VACUUM MANIFOLD END (B PUMP). TURN OFF THE POWER SUPPLY AND GO THE THE BACKSIDE OF THE RACK AND UNPLUG THE RED HIGH VOLTAGE CABLE.
- 16. LOCATE THE ION PUMP POWER SUPPLY ON THE GAS MANIFOLD THE RACK AND UNPLUG THE RED HIGH VOLTAGE CABLE. END. TURN IT OFF THE POWER SUPPLY GO TO THE BACKSIDE OF
- 17. GO TO THE EPICS SCREEN AND CHECK TO MAKE SURE THAT YOU TURNED OFF THE CORRECT TWO PUMPS.
- 18. IN THE TUNNEL LOCATE THE JUNCTION BOXES FOR THE TWO CABLE GOING FROM THE JUNCTION BOX TO THE ION PUMP. PUMPS WHICH ARE ATTACHED TO THE CABLE TRAYS. UNPLUG THE
- 19. OPEN THE ION PUMP VALVES ON THE VACUUM MANIFOLD THEN THE ION PUMP VALVE ON THE GAS MANIFOLD.

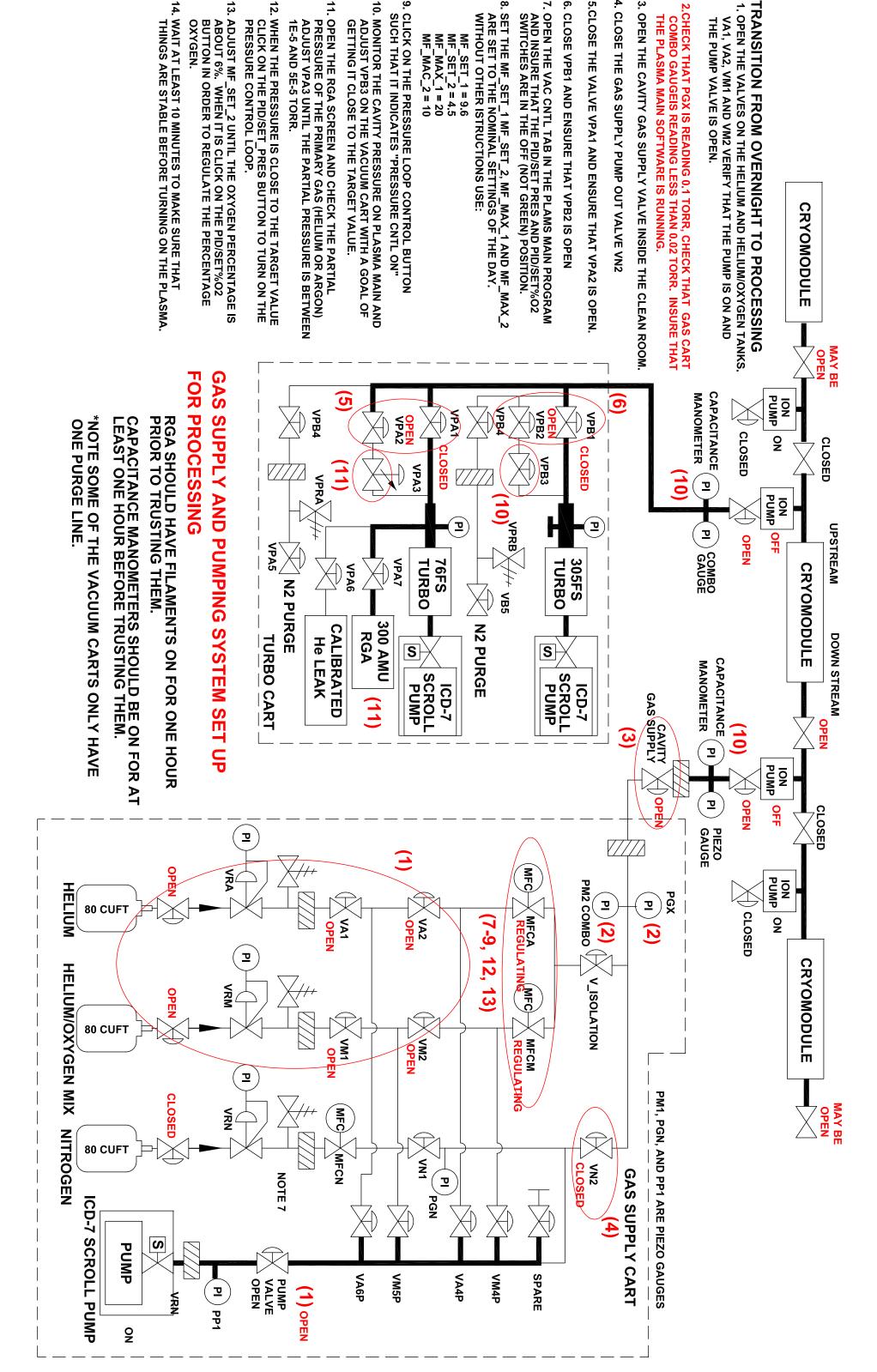


## GAS SUPPLY AND PUMPING SYSTEM RESTORE CRYOMODULE CONFIGURATION

CAPACITANCE MANOMETERS SHOULD BE ON FOR AT LEAST ONE HOUR RGA SHOULD HAVE FILAMENTS ON FOR ONE HOUR PRIOR TO TRUSTING THEM.

\*NOTE SOME OF THE VACUUM CARTS ONLY HAVE ONE PURGE LINE.

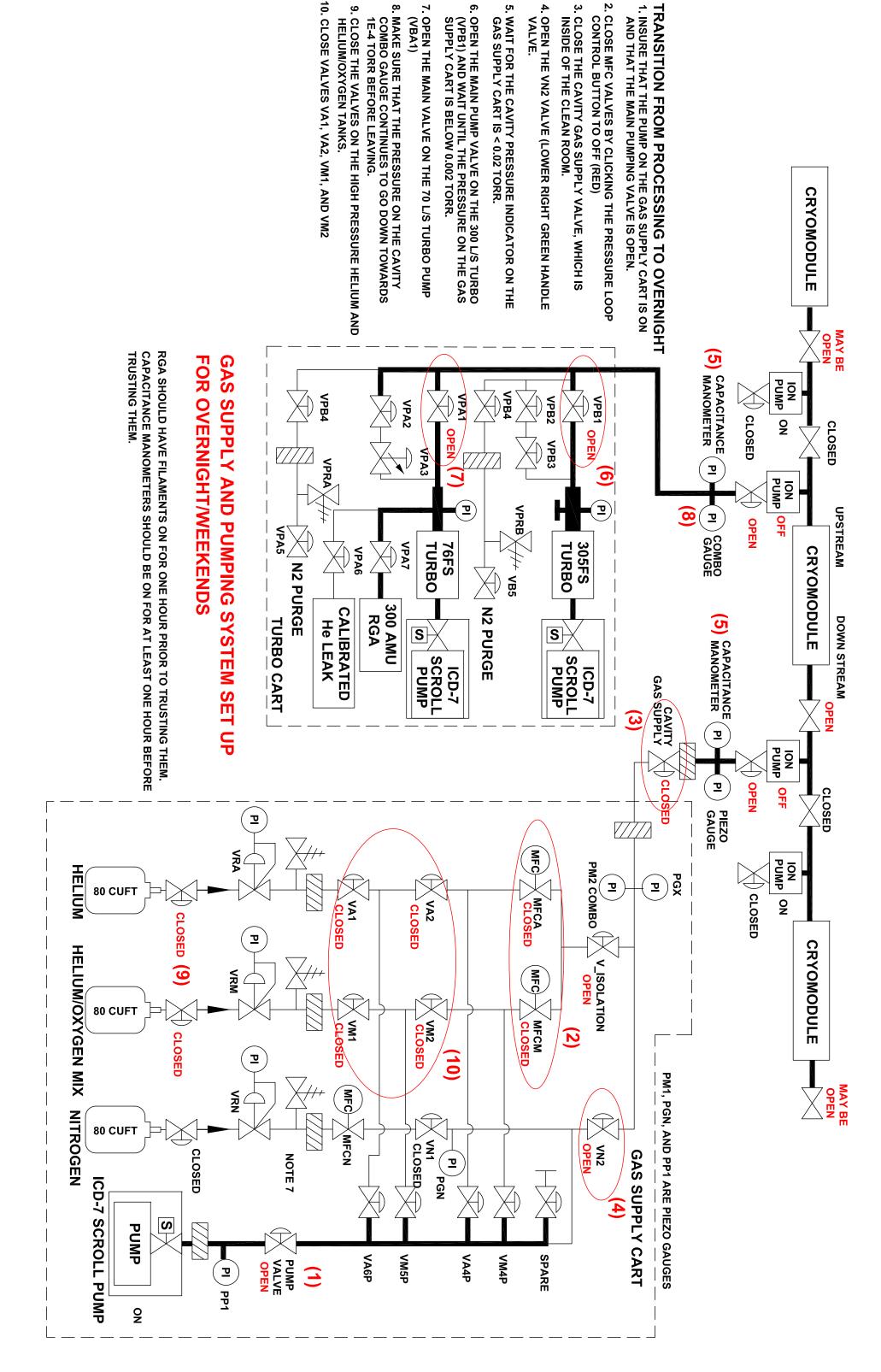


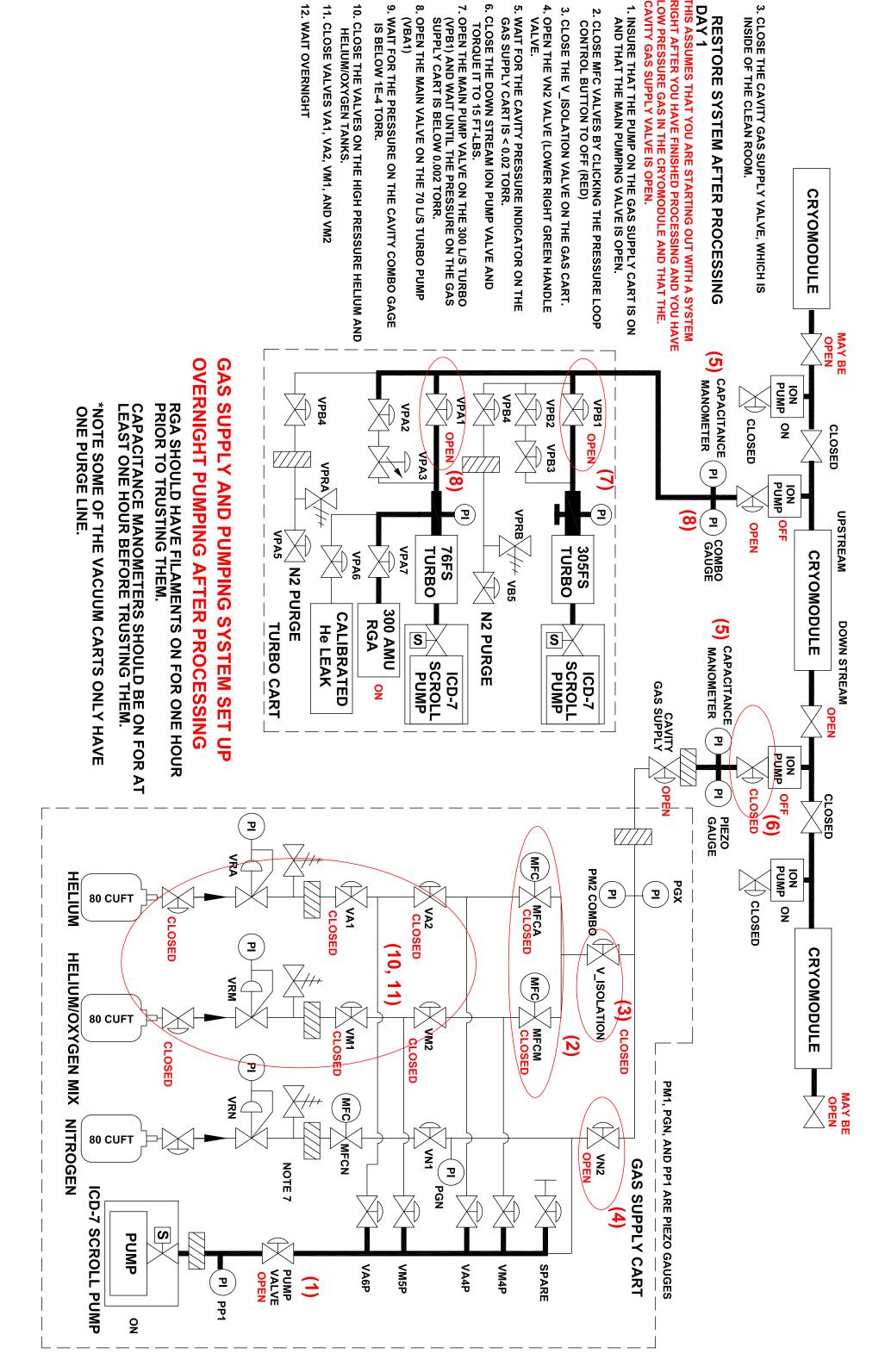


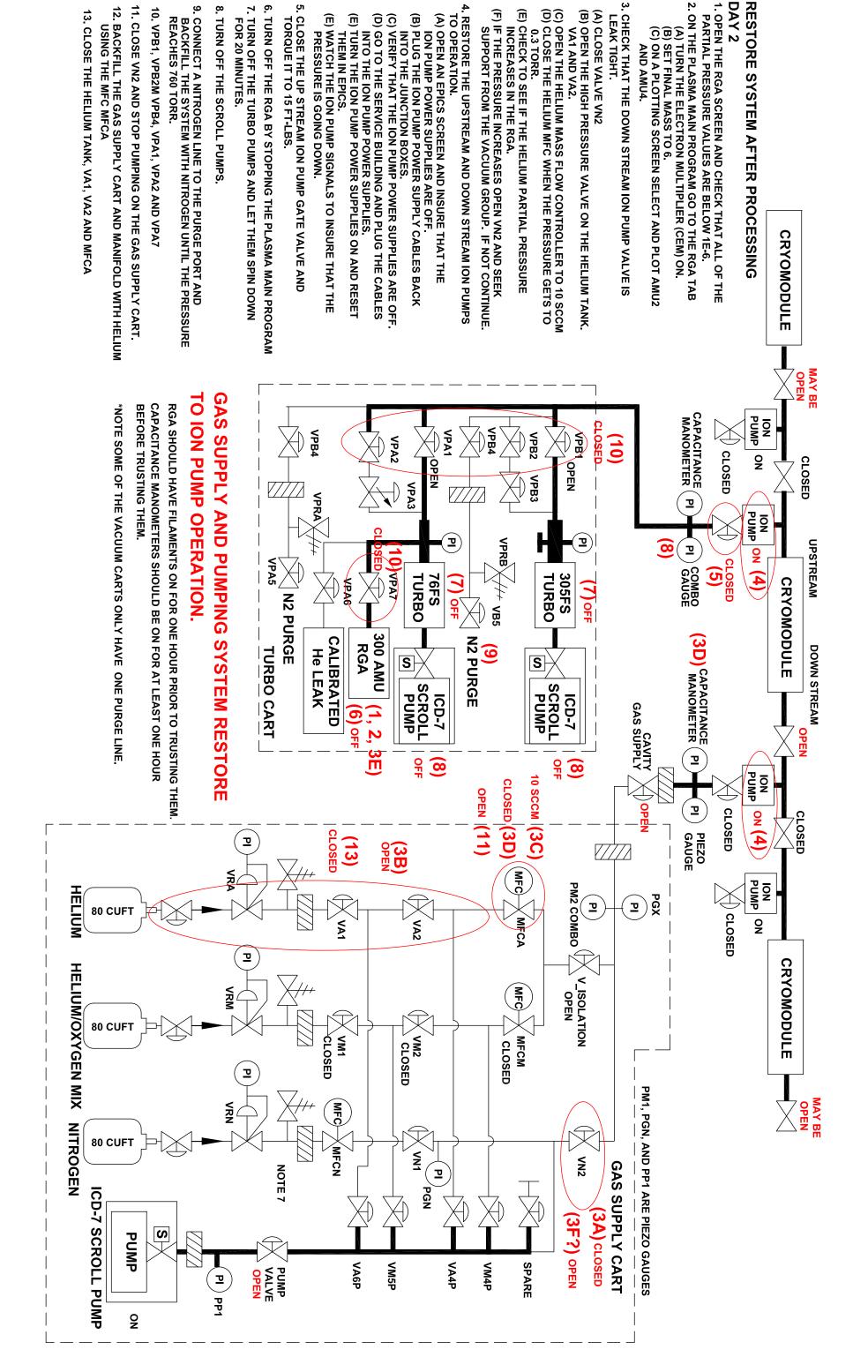
 $MF\_SET\_2 = 4.5$  $MF\_MAX\_1 = 20$  $MF_SET_1 = 9.6$ 

 $MAC_2 = 10$ 

1E-5 AND 5E-5 TORR







DAY 2