

Storage Ring RF Cavities Interlock System

- ◆ Under no circumstances should the “override” push-button be depressed. This is provided for initial pump-down of the system and disables all inputs to the chassis. This is for the Vacuum Group use only.
- ◆ Vacuum set points that need to be satisfied are; 1) ion pumps 1 and 3 (5.0×10^{-8} Torr and 2) convectron gauge -- fore-line pressure-- (1.0×10^{-2} Torr).
- ◆ Other inputs that need to be satisfied are; 1) roughing pump up to speed and 2) turbo pump up to speed.

NOTE: In the event of a roughing pump or turbo pump speed fault, Vacuum Group personnel are to be contacted.

Resetting the interlock:

If the vacuum set points are satisfied and there are no other permits LED's flashing, the “reset” pushbutton can be activated. After activating the reset, all permit LED's should be illuminated (not flashing). The valves can now be opened safely. Open the roughing valve first and wait 60 seconds. If no other faults appear, open the turbo valve. The interlock is now reset and the roughing and turbo pumps are valved into the system.

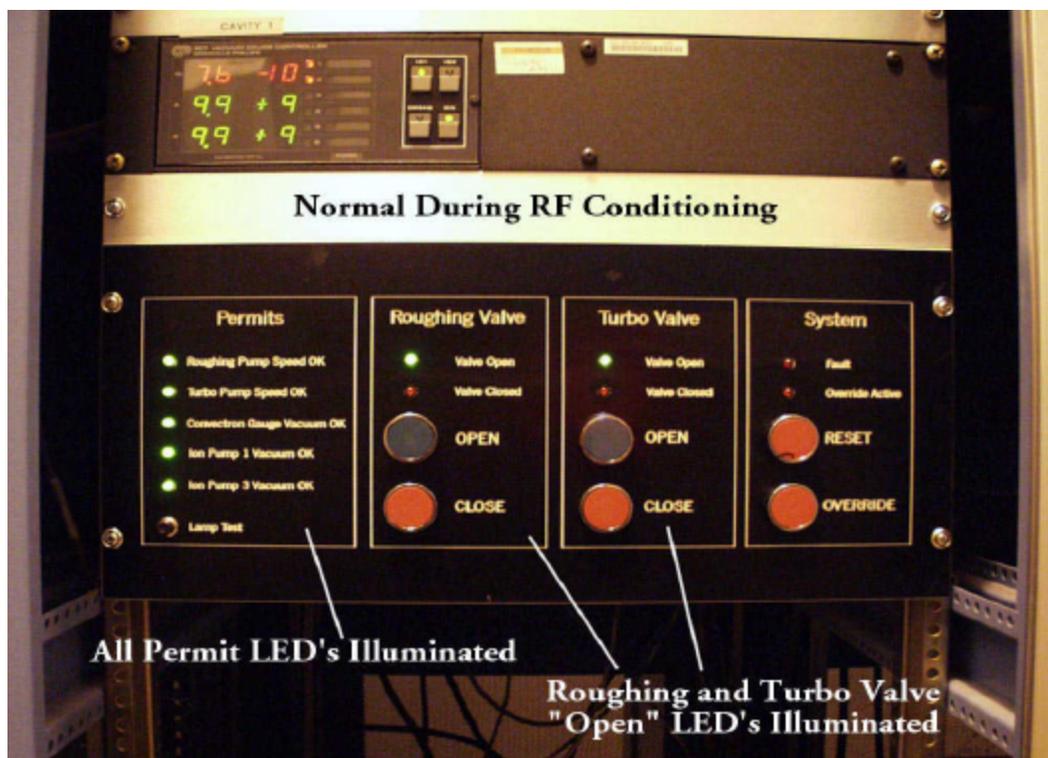


Figure 1. LED's indications during normal RF conditioning