

LIGO-T040068-00-V

Checklist for Opening Calibration Gas into RGA Volume

- 1.) Obtain approved work permit
- 2.) Notify operator on duty of activity on day of activity and verify GV6 and GV8 "AUTOCLOSE" is enabled if opened
- 3.) Isolate RGA volume from VE
- 4.) Reduce RGA filament current to minimum value
- 5.) Connect auxiliary turbo pump cart to RGA volume pump port
- 6.) Start pump cart and verify turbo at full speed
- 7.) Open RGA Calibration Gas into RGA volume while monitoring ion current. If pressure remains lower than $\sim 10^{-4}$ torr it is not necessary to open the RGA to the pump cart. Proceed to step 9.
- 8.) Open RGA volume to pump cart
- 9.) Setup RGA in MID mode using AMUs 14 and 28 and sampling every 3 seconds
- 10.) Start scanning and monitor values of AMUs 14 and 28
- 11.) Isolate pump cart from RGA volume
- 12.) Monitor rate of rise of AMU 14 and 28
- 13.) Stop pump cart and confirm turbo inlet vented
- 14.) Is rate of rise the same as in step 12?
- 15.) If yes, disconnect pump cart and blank off RGA volume's pump port
- 16.) Open valve connecting RGA volume to VE
- 17.) Restore RGA setup to the "as found" state