## **Apollo Anesthesia Workstation Daily Pre-Use Check-out Protocol**

(Using On-Screen Self-Test)

- 1. Prepare machine for pre-use check
  - a. If the machine is on, turn it off
  - b. If gas was flowing overnight, change the CO<sub>2</sub> absorbent
- 2. Turn machine on
- 3. Perform manual check-out steps listed on screen
- 4. Open vaporizer of preferred agent to lowest marked concentration value and start automated check for:
  - a. Leak/compliance tests
  - b. Electronics tests
  - c. Agent analyzer tests
  - d. Flow sensor and piston checks
- 5. Test vaporizers
  - a. Test exclusion system ensure that only one vaporizer can be turned on at a time
  - b. If desired, run leak test from 'STANDBY' screen with other vaporizer(s) set to lowest concentration
- 6. Verify operation of unidirectional valves, APL, and O<sub>2</sub> Flush
  - a. \* Occlude y-piece
  - b. \* Close APL and turn off all gas flows
  - c. \* Use O<sub>2</sub> flush to fill breathing bag and generate positive circuit pressure
  - d. Turn on  $O_2$  + other gas flows, check for smooth operation of flowmeter and verify increasing circuit pressure

- e. Slowly open APL valve and verify that pressure decreases smoothly
- f. Test interlink between  $O_2$  &  $N_2O$  controls that protect against hypoxic  $O_2/N_2O$  mixtures
- 7. \* Prepare machine for use
  - a. Set all vaporizers to zero
  - b. Turn off all flows and verify APL valve is open
  - c. Set up breathing circuit for use
- 8. \* Check for necessary monitoring
  - a. Ensure all monitors are in place and functional

Abbreviated Pre-Use Check for Performance Between Anesthesia Cases (assumes machine has not been disturbed, for example by moving to another operating room)

- 1. Perform steps with a \*
- 2. Replace patient suction, if necessary
- 3. Perform leak and compliance test from Standby screen, if necessary

Note: Developed for Apollo software version 3.21 Massachusetts General Hospital, Boston, MA October 9, 2007