

TESTING VARIABLES

PASS

FAIL

NOTES

- a. Verify all required mechanical installation work is successfully completed, and all HVAC equipment is working correctly (or will be by the time the PVT is conducted).
- b. Verify HVAC motors operate below full-load amperage ratings.
- c. Verify all required control system components, wiring, and accessories are installed.
- d. Verify the installed control system architecture matches approved
- e. Verify all control circuits operate at the proper voltage and are free from grounds or faults.
- f. Verify all required surge protection is installed.
- g. Verify the A/C Power Table specified in "CONTROLS SYSTEM OPERATORS MANUALS" is accurate.
- h. Verify all DDC network communications function properly, including uploading and downloading programming changes.
- i. Verify each digital controller's programming is backed up.
- j. Verify all wiring, components, and panels are properly labeled.
- k. Verify all required points are programmed into devices.
- l. Verify all TAB work affecting controls is complete.
- m. Verify all valve and actuator zero and span adjustments are set properly.
- n. Verify all sensor readings are accurate and calibrated.
- o. Verify each control valve and actuator goes to normal position upon loss of power.
- p. Verify all control loops are tuned for smooth and stable operation. View trend data where applicable.
- q. Verify each controller works properly in stand-alone mode.
- r. Verify all safety controls and devices function properly,

including freeze protection and interfaces with building fire alarm systems.

s. Verify all electrical interlocks work properly.

t. Verify all workstations, notebooks and maintenance personnel interface tools are delivered, all system and database software is installed, and graphic pages are created for each workstation and notebook.

u. Verify the as-built (shop) control drawings are completed.