

230593 Testing, Adjusting, and Balancing For HVAC

1.1 REQUIREMENTS

- A. All projects that modify HVAC equipment shall have a Pre Test done. All parts of the system that could be affected as a result of the project (air flow, hydronics flows, pump/fan speeds, amps, etc) shall have baseline readings taken to see how the system is operating before the design for the modified system is done.
 - a. Projects that are replacing registers/vents only (that do not include balancing systems) do not need to do this.
 - b. Projects that are removing the entire HVAC system for an area shall verify flows of existing cooling and heat water systems only, unless those systems are being replaced as well.
- B. A complete Test, Adjust, and Balance (TAB) report is required for the entire building and or project. The TAB shall include, but is not limited to, air distribution systems, hydronic distribution systems, and all associated equipment & apparatus of mechanical work. Including, but not limited to, setting of speed and volume (flow), adjusting all apparatus provided for systems, recording data, conducting tests, preparing and submitting reports.
- C. A preliminary TAB Report shall be submitted a minimum of TWO weeks prior to Substantial Completion for review by the University (PD&C, PPD, EH&S, and Project Engineer of Record). All deficiencies noted by the TAB firm shall be listed in the preliminary report. The deficiencies deemed "minor" in nature (by PPD, FP&C, and Engineer of Record consensus) shall not prevent the project from being deemed "Substantially Complete."
- D. All deficiencies identified in the preliminary TAB report prior to Substantial Completion shall be corrected prior to Final Completion. A Final Report, with no deficiencies, shall be submitted by the TAB firm prior to Final Completion for review and verification by the University and the project Engineer of Record.

1.2 STANDARD

The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) shall be the governing Standard.

1.3 TAB CERTIFICATION REQUIREMENTS

Firms performing TAB services shall be certified by either the National Environmental Balancing Bureau (NEBB) or the Associated Air Balance Council (AABC) and shall comply with the procedural TAB standards of same.

END OF SECTION