

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included: After completion of the work of installation, owner is responsible for procuring an air balancing and testing agency to test and regulate all components of the new heating, air conditioning and ventilating systems to verify air volumes and heating-cooling flow rates indicated on the Drawings. Provide TAB report to T.I. mechanical engineer for review. This specification section is provided for reference only.
- B. Related Work: The requirements of Section 23 05 00, Common HVAC Materials and Methods, also apply to this section.
- C. Balancing Organization:
 - 1. Balancing of the Heating and Air Conditioning Systems: Performed by a firm providing this service established in the State of Washington.
 - 2. Provide all necessary personnel, equipment, and services.

1.02 QUALITY ASSURANCE

- A. Balancing of the Heating and Air Conditioning Systems: Agency shall be a current member of NEBB or AABC specializing in the adjusting and balancing of systems specified with a minimum of 10 years documented experience.
- B. Testing, adjusting, and balancing shall be performed under direct field supervision of a Certified NEBB Supervisor or a Certified AABC Supervisor.

1.03 SUBMITTALS

- A. Balancing Data: Include the following minimum information in the Operation and Maintenance Data, as specified in Section 23 05 00.
 - 1. Names or initials of personnel performing the balancing.
 - 2. Dates balancing was performed.
 - 3. List of balancing instruments utilized.
 - 4. Weather conditions at the time of the test.
 - 5. Mechanical system descriptions.
 - 6. All motor rated voltages, amps, starter and overload protective device sizes.
 - 7. All motor operating data.
 - 8. Fan cfm, rpm, operating static pressures, driven and motor sheave data, and all drive changes necessitated to obtain design capacities. List actual minimum outside air volumes measured for each system.
 - 9. All supply, return and exhaust air outlet cfm readings.
 - 10. Coil steam pressure and entering and leaving air temperatures.
 - 12. Coil chilled water supply and return temperatures and entering and leaving air temperatures.
 - 13. Coil heating water entering and leaving temperatures and entering and leaving air temperatures.
 - 14. Condensing water supply and return temperatures.
 - 15. Pump gpm, rpm, pressure, horsepower and service.
 - 16. Electric heating elements voltage and amperage for each stage of heat.
 - 17. Power Exhaust fan settings – cfm or % of supply airflow and power exhaust fan start point (% of outside air damper position).
 - 18. CO2 controller set points – minimum CO2 setpoint (ppm), maximum CO2 setpoint (ppm)(setting for min OSA at full occupancy).
 - 19. OSA intake damper settings at min occupancy and max occupancy (cfm or damper %).

END OF SECTION