

CONSTRUCTION STANDARD SPECIFICATION
SECTION 15901
SYSTEM COMPONENT CHECKOUT AND BALANCE

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PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes Sandia National Laboratories (SNL)-furnished Heating, Ventilation, and Air Conditioning (HVAC) system balancing.
- B. Contractor is responsible for the following:
 - 1. System(s) shall be functioning prior to Test and Balance (TAB), verifiable by completed TAB readiness checklist (supplied by SNL contract TAB Agency).
 - 2. Provide joint and cooperative effort to schedule and coordinate the test and balance.
 - 3. Solve problems in balancing and controls in order to establish proper system performance before leaving the job.
 - 4. Provide TAB Agency with complete set of approved submittals.
 - 5. Provide TAB Agency with copies of Requests For Information and approved Change Orders that affect the scope of the TAB work.
 - 5. Provide and install new sheave(s) and new belts, as required, if change in fan speed is necessary and cannot be made by adjusting originally-installed sheave.
- C. SNL will provide contact information for the contract TAB Agency to the Contractor.

1.02 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract, and Section 01330, "Submittal Procedures," and Section 01810, "Facility Commissioning Requirements".
- B. HVAC equipment factory test reports and equipment start-up reports.

1.03 REFERENCES

Refer to the following SNL Construction Standard Specifications and other for related work and guidance:

- A. Section 01330, Submittal Procedures
- B. Section 01810, Building Systems Commissioning
- C. Section 13943, Facilities Control System (FCS)
- D. Division 15 Sections, as previously identified and applicable to this work
- E. National Standards for Total System Balance – Associated Air Balance Council

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

3.01 REVIEW

TAB Agency will be provided a set of HVAC systems drawings and applicable specifications at beginning of project by SNL. TAB Agency, when requested, will review systems plans and specifications prior to installation, and submit a report of deficiencies which could preclude proper system adjusting, balancing, and testing. SNL will take action, as required, to correct system design deficiencies.

3.02 COMPONENT CHECKOUT

- A. Contractor will coordinate with HVAC controls sub-contractor, and SNL FCS office as needed, for operational check of all modulating and balancing dampers and valves for travel and close off.
- B. Operate rotating equipment to verify equipment integrity, and verify that it is the proper equipment according to approved submittals.

3.03 SYSTEM ADJUSTING

- A. Promptly correct system/equipment deficiencies identified by component checkout or by TAB agency during TAB activity.

3.04 SYSTEM TESTING

- A. Test safety limits to ensure each performs proper function.

- B. Provide support to place each system in all normal modes of operation to verify contract drawings sequence of operation..

3.05 TEST REPORT

- A. Provide and label tab in submitted Operation and Maintenance manuals for final TAB report.

- END OF SECTION -