1. **GENERAL**

1.1 **SCOPE**

.1 Prepare the facility for balancing.

2. **PRODUCTS**

.1 Not applicable.

3. **EXECUTION**

3.1 Bring the work to an operating state and ready for balancing, including:

.1 Clean equipment and ductwork.

.2 Install air terminal devices.

.3 Provide temporary filters in air handling equipment and carry out a rough air balance to ensure all equipment performs required function.

.4 Replace filters with specified filters prior to balancing.

.5 Verify lubrication of equipment.

.6 Install permanent instrumentation.

.7 Clean piping systems, clean systems as per Section 15475, drain and fill with clean treated heat exchange fluid.

.8 Complete the "start-up" of equipment.

.9 Adjust stuffing boxes and packing glands on pumps and valves.

.10 Remove temporary strainers and install permanent strainers prior to fluid system balancing (Refer to Section 15100, Valves and Strainers).

.11 Check rotation and alignment of rotating equipment and tension of belted drives.

.12 Verify ratings of overload heaters in motor starters.

.13 Set control points of automatic apparatus, check-out sequence of operation.

.14 Make available control diagrams and sequence of operation.
.15 Clean work, remove temporary tags, stickers, and coverings.

.16 Make available one (1) copy of Maintenance Manuals especially for use in balancing.

.17 Provide Balancing Agency a complete set of mechanical drawings and specifications.

3.2 Cooperate with the Balancing Agency as follows:

.1 Make corrections as required by Balancing Agency.

.2 Allow Balancing Agency free access to site during construction phase. Inform Balancing Agency of any major changes made to systems during construction and provide a complete set of record drawings for their use.

.3 Provide and install any additional balancing valves, dampers, and other materials requested by the balancing agency and/or necessary to properly adjust or correct the systems to design flows.

.4 Provide and install revised pulleys and sheaves for rotating equipment and shave pump impellers, as required to properly balance the systems to design flows. Obtain requirements from balancing agency (Refer to Section 15045, Balancing).

.5 Operate automatic control system and verify set points during Balancing.

END OF SECTION