

(This foreword is provided for information only and is not part of the draft addenda.)

FOREWORD

Draft Addendum 62I. This addendum creates a new section on construction and ventilation system start-up, recognizing that acceptable indoor air quality is impacted by more than just the design of the HVAC system. Requirements include such measures as ventilation system balancing.

Changes implemented in response to public review comments are in bold text with additions underlined and deletions in double strikethrough.

If Addendum 62k is approved, add the following section 4.1.2.6 to the section created by that addendum. [NOTE: The addition of section 4.1.2.6 was proposed when Addendum 62k was further along in the process than 62L. Since that time, 62L has caught up with and passed 62k, which is about to go out for a third public review. Therefore, if 62L is approved for publication, it will happen before 62k is approved, and the following section will not be added to the standard..]

4.1.2.6 Construction in Occupied Buildings. Construction areas and system start-up within existing buildings shall comply with the requirements of Section 7.

Add the following new Section immediately before Section 7 References and renumber as appropriate. [NOTE; If 62m is also approved for publication, it will be located after this addendum and before References.]

7 CONSTRUCTION AND SYSTEM START-UP

7.1 CONSTRUCTION PHASE

7.1.1 Application. The requirements of this section apply to ventilation systems and the spaces they serve in new buildings and additions to or alterations in existing buildings.

7.1.2 Filters. Systems ~~that are designed to be operated~~ with ~~particulate~~ **particle** filters ~~in place~~ shall not be operated without ~~them~~ **filters in place**.

7.1.3 Protection of Materials. ~~When recommended by the manufacturer~~ **When recommended by the manufacturer** ~~building materials not recommended by the manufacturer to be exposed to~~ **shall be protected from** rain and other sources of moisture ~~shall be protected~~ by appropriate **in-transit** and on-site procedures. Porous materials with visible ~~funga~~ **microbial** growth shall **not** be **installed** ~~replaced~~. Non-porous materials with visible ~~funga~~ **microbial** growth shall be decontaminated.

7.1.4 Protection of Occupied Areas.

7.1.4.1 Application. The requirements of Section 7.1.4 apply ~~to ventilation systems and the spaces they serve in new buildings and additions to or alterations in existing buildings that require~~ **when construction requires to** a building permit **and** entails sanding, cutting, grinding or other activities that generate significant amounts of airborne particles or procedures that generate significant amounts of gaseous contaminants.

7.1.4.2 Protective Measures. Measures shall be employed to ~~limit~~ **reduce** the migration of **construction generated** contaminants to occupied areas ~~during construction~~. Examples of acceptable measures include, but are not limited to, sealing the construction area using temporary walls or plastic sheathing, exhausting the construction area, and/or pressurizing contiguous occupied areas.

7.2 SYSTEM START-UP

7.2.1 Application. The requirements of this section apply to the following ventilation systems.

- a) Newly installed air handling systems;
- b) Existing air handling systems undergoing supply air or outdoor air flow reduction. Only the requirements of Section 7.2.2 shall apply to these altered systems; or

- c) Existing air handling distribution systems undergoing alterations affecting more than 25% of the floor area served by the systems. Only the requirements of Section 7.2.2 shall apply to these altered systems.

7.2.2 Air Balancing. Ventilation systems shall be balanced in accordance with ASHRAE Standard 111, **SMACNA “HVAC Systems – Testing, Adjusting and Balancing,” 2nd edition**, ~~but only at least~~ to the extent necessary to verify conformance with the total outdoor air flow and space supply air flow requirements of this standard.

7.2.3 Testing of ~~Drains and~~ Drain Pans. **To minimize conditions of water stagnation that may result in microbial growth, drain Drainage of** pans ~~under cooling coils, air washers, humidifiers, outdoor air intake plenums, and other duct or plenum mounted drain pans~~ shall be field tested under normal operating conditions to ensure proper ~~slope and~~ drainage ~~to prevent conditions of water stagnation that may result in microbial growth~~. **Exception: Field testing of drain pans is not required if u**Units with factory installed drain pans ~~and trap assemblies may be~~ **have been certified (attested in writing)** by the manufacturer for proper drainage when installed as recommended.

7.2.4 Ventilation System Start-up. Ventilation air distribution systems shall be clean of dirt and debris.

7.2.5 Testing Damper Controls. Prior to occupancy, each ventilation system shall be tested to ensure that outdoor air dampers operate properly in accordance with the system design.

7.2.6 Documentation

The following Ventilation System Documentation shall be provided to the building owner or its designee, retained ~~within~~ the building, and **made** available to the building operating personnel:

- a) An Operating and Maintenance Manual describing basic data relating to the operation and maintenance of ventilation systems and equipment as installed.
- b) HVAC controls information ~~such as~~ **consisting of** diagrams, schematics, control sequence **narratives descriptions**, and maintenance and/or calibration information.
- c) An air balance report documenting the work performed for Section 7.2.2.
- d) ~~Record e~~Construction drawings **of record**, control drawings, and final design drawings.
- e) Design criteria and assumptions.