

SECTION 01 35 46 - INDOOR AIR QUALITY PROCEDURES

PART I - GENERAL

1.1 RELATED DOCUMENTS

- A. *Exhibit 01 35 46-1, Example Indoor Air Quality Management Plan*

1.2 SUBMITTALS *[Note to AE: Identify relevant LEED point requirements for the Project. Include requirements for the following:]*

- A. Indoor Air Quality Management Plan: Describe in detail measures to be taken to promote adequate indoor air quality; use SMACNA IAQ Guideline for Occupied Buildings Under Construction.
1. Submit IAQ Plan at pre-construction meeting. See *Exhibit 01 35 46-1, Example Indoor Air Quality Management Plan*.
 2. Identify construction activities likely to produce odor or dust.
 3. Identify areas of project potentially affected, especially occupied areas.
 4. Evaluate potential problems by severity and describe methods of control.
 5. Describe construction ventilation to be provided, including type and duration of ventilation, use of permanent HVAC systems, types of filters and schedule for replacement of filters.
 6. Describe cleaning and dust control procedures.
 7. Describe commissioning procedure.
- B. Identify interior finishes that generate odors, moisture, or vapors or are susceptible to absorption of odors and vapors, and indicate air handling zone, sequence of application, and curing times.
- C. Provide a LEED Letter Template, signed by the General Contractor declaring that a Construction IAQ Management Plan has been developed and implemented, and including the MERV value of each air filter used during construction and at the end of construction.
- D. Provide 18 photographs – six photographs taken on three different occasions during construction – along with identification of the SMACNA approach featured by each photograph, in order to show consistent adherence to the LEED credit requirements.
1. As an alternative to providing photographs, declare which of the five Design Approaches of SMACNA IAQ Guideline for Occupied Buildings under Construction which were used during building construction. Include adequate description of the design approaches employed.

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 IMPLEMENTATION *[Note to AE: Provide Construction Documents to ensure the following:]*

- A. An Indoor Air Quality (IAQ) Management Plan for the construction and pre-occupancy phases of the building as follows:
1. Controls, sequences, permanent equipment/systems shall meet the Design Intent / Basis of Design in accordance with the Project's schedule without imposing hardship to the Commissioning requirements and schedule.

2. Meet the recommended Design Approaches of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guideline for Occupied Buildings under Construction, Chapter 3.
3. Protect stored on-site or installed absorptive materials from moisture damage.
4. HVAC equipment and supply air ductwork shall not be used for ventilation during construction without meeting the following criteria as specified in the IAQ.
 - a. Meet all requirements of *Section 01 76 00 - Protecting Installed Construction*.
 - b. Coordinate with the Ventilation Contractor to avoid the use of return air ducting.
 - 1) Seal return air inlets or otherwise positively isolate return air system to prevent recirculation of air; provide alternate return air pathways.
 - c. If the Permanent Design does not permit temporary isolation of Return Ducting then filtration media with a Minimum Efficiency Reporting Value (MERV) of 11 shall be used at each return air grill.
 - 1) Within Design parameters, operate HVAC system on 100 percent outside air.
 - d. Ensure that all air filters are correctly installed prior to starting use. Replace all filtration media at a minimum of weekly or sooner as necessary to maintain cleanliness. Replace all filtration immediately prior to occupancy. Provide filtration media having a Minimum Efficiency Reporting Value as scheduled maintaining LEED compliance.
- B. Prior to permanent use of return air ductwork without intake filters, clean up and remove dust debris generated by construction activities using a HEPA vacuum cleaning system.
- C. Do not perform dusty or dirty work after starting use of return air ducts without intake filters.
- D. Prevent the absorption of moisture by:
 1. Sequencing the delivery of such materials so that they are not present in the building until wet work is completed and dry.
 2. Delivery and storage of such materials in fully sealed moisture-impermeable packaging.
 3. Provide sufficient TEMPORARY ventilation for drying. Permanent equipment may be allowed to be used once all Contractor-submitted care provisions have been approved by Owner.
- E. Begin construction ventilation only when building envelope is sealed.
- F. When working in a portion of an occupied building, prevent movement of air from construction area to occupied area.

END OF SECTION 01 35 46

This section of the *U of I Facilities Standards* establishes minimum requirements only.
It should not be used as a complete specification.