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## SECTION 01 52 00 -TEMPORARY HEATING, VENTILATION, AND DEHUMIDIFICATION

### PART 1 GENERAL

#### 1.1 SUMMARY

A. Related Sections

1. 015000 Temporary Utilities and Facilities.
2. 033000 Cast-In-Place Concrete.

B. Definitions

1. Concrete Panel – A portion of a concrete slab on grade or slab on deck placed in one pour and having full depth joints at its perimeter. A slab that is placed in one pour and troweled or saw-cut to provide contraction joints is considered to be one panel.

C. The existing HVAC system and equipment are designed to condition the interior of the existing space under permanent occupancy conditions. However, the viability of the existing HVAC system has been called into question. As the existing HVAC system may not be capable of maintaining temperature and humidity levels with infiltration of outside air and exfiltration of conditioned air, if possible, the existing permanent system shall be used for temporary heating, ventilation, or dehumidification.

D. Any Section or Specification contained in this Project Manual that require certain temperature and humidity conditions to be established and/or maintained prior to, during or after any particular item of work is performed shall have those temperature and humidity conditions provided under this Section. Any requirement for permanent HVAC systems to be operational, whether required by the Specifications, or by referenced standards, or by other industry sources, are void and shall not apply to the Work. Permanent systems shall be put into temporary operation as directed and required by this Section.

1. Permanent HVAC systems shall be put into operation as required for the term of the work for this project if possible.

#### 1.2 BUILDING ENCLOSURE

A. Not required for this Project.

#### 1.3 TEMPERATURE & HUMIDITY LEVEL REQUIREMENTS

A. The General Contractor shall provide temporary heating as required to promote the placement and curing of all concrete infill required to decommission the pool vessels and place all new concrete floor structure elements.

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#### 1.4 TEMPORARY HEATING

- A. The General Contractor shall provide temporary heating as required to maintain proper heating levels necessary for the proper placement and curing of all concrete infill required to decommission the pool vessels and place all new concrete floor structure elements.

#### 1.5 TEMPORARY VENTILATION

- A. General Contractor shall provide ventilation as needed for general worker comfort. This is achieved by circulating air through the building area and exchanging exterior and interior air.
- B. When Temporary Ventilation is no longer required, remove all materials and equipment used for Temporary Ventilation. Repair any finishes or building components damaged or marred by the installation, operation or removal of Temporary Ventilation and its associated materials and equipment.
- C. Prime General Contractor is responsible for all costs associated with providing Temporary Ventilation, but with the following exceptions:
  - 1. Temporary electrical service shall be provided by the Electrical Subcontractor. This includes electrical panels, disconnects and breakers, and hard-wired connections to the equipment.

#### 1.6 TEMPORARY VENTILATION FOR NOXIOUS FUMES

- A. If at any time any contractor is performing work that generates noxious fumes, the Prime General Contractor responsible for the work shall provide temporary ventilation to dissipate the fumes.
- B. If such temporary ventilation is required after and when either temperature or humidity sensitive work is being performed or temperature of humidity sensitive materials have been installed, coordinate this ventilation with the Prime General Contractor providing temporary heat or temporary air conditioning and dehumidification.

#### 1.7 TEMPORARY AIR CONDITIONING AND DEHUMIDIFICATION

- A. Not required for this Project.

#### 1.8 DEHUMIDIFICATION OF CONCRETE SLABS

- A. Not required for this Project.

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## 1.9 USE OF EXISTING HVAC EQUIPMENT

- A. Use of existing HVAC Equipment can be placed in service and utilized to temper the space during construction process, with Owner approval, as future replacement is anticipated by the Owner.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. General: Provide either new equipment or undamaged previously used equipment in serviceable condition for use in temporary construction. Provide equipment suitable for use intended.
- B. For temporary enclosures prior to Building Enclosure, provide translucent nylon reinforced laminated polyethylene or polyvinyl chloride fire retardant tarpaulins or similar materials.

### 2.2 EQUIPMENT

- A. General: Provide either new equipment or undamaged previously used equipment in serviceable condition for use in temporary construction. Provide equipment suitable for use intended.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. Use qualified personnel for installation of temporary heating, ventilating and dehumidification systems. Locate systems and equipment where they will serve the project adequately and result in minimum interference with performance of the Work. Relocate systems and equipment as required.
- B. Provide each facility prior to when needed to avoid delays to the Project. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by completed permanent facilities that have been authorized for use.
- C. Permanent Systems and Equipment Warranties: If permanent systems or equipment are used prior to Final Acceptance, the responsible Prime Contractor shall clean, repair, and refurbish the systems or equipment, and take all steps and actions at its own cost to provide the required warranties commencing upon Substantial Completion.

END OF SECTION 01 52 00

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