



**CITY OF CHICAGO  
DEPARTMENT OF TRANSPORTATION  
QUALITY ASSURANCE**

**POLICY MEMORANDUM**

Effective Date: **July 1, 2009**

Policy Memorandum Number: **09-02.0**

This Policy Memorandum does not supersede any other policy memorandums

**TO:** CONSTRUCTION RESIDENT ENGINEERS, CONSULTANT CONSTRUCTION ENGINEERS, CONTRACTORS, AND SUPPLIERS

**SUBJECT:** PORTLAND CEMENT CONCRETE PLACEMENT IN HOT WEATHER

**1.0 SCOPE**

1.1 To provide a procedure for ensuring concrete placement in hot weather does not result in concrete temperature in excess of 90°F at the time of placement.

**2.0 GENERAL**

2.1 This policy shall apply to all classes of concrete used in applications other than structures. Any cost associated with reducing the temperature of the concrete below the maximum threshold of 90°F at placement shall be considered incidental to the item of construction and will not be paid for separately.

**3.0 PURPOSE**

3.1 To reduce the chance of unusual surface distress caused by excessive mixture temperature.

**4.0 PROCEDURE**

4.1 The method implemented shall adequately reduce the mixture temperature to accommodate the anticipated transportation and testing time resulting in a placement temperature of 90°F or less.

4.2 If the supplier is not capable of providing chilled water, ice, or other means to reduce concrete temperatures, then production of the mixture shall not begin.

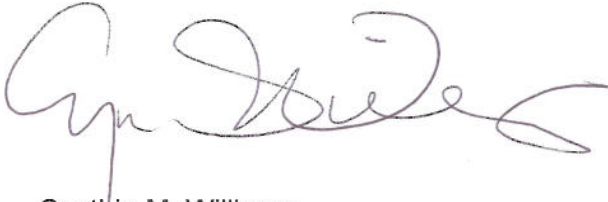
4.3 When chilled water is used, the amount of chilled water shall be clearly detailed on the batch sheet using units consistent with the non-chilled water source.

4.4 When ice is used, the total amount of ice in the batch shall be detailed on the batch sheet in weight or volume, to be determined by the method of measurement utilized by the plant batching system. If a weight needs to be converted to a volume, the conversion calculations shall also be clearly shown on the batch sheet.

4.5 At no time shall any mixture be batched exceeding the water cement ratio of the design after all sources of water have been accounted for properly.

## 5.0 APPROVAL

- 5.1 The method utilized and the procedure for implementation and documentation shall be acceptable to the Commissioner.
- 5.2 The use of chilled water, ice, or other means does not guarantee acceptance. Concrete mixtures arriving on site in excess of the 90°F threshold or material placements delayed for any reason, resulting in temperatures exceeding the 90°F threshold shall be subject to rejection.
- 5.3 Final acceptance of the material shall be based on compliance with all applicable specifications.

A handwritten signature in black ink, appearing to read 'Cynthia Williams', written in a cursive style.

Cynthia M. Williams  
Quality Assurance Manager  
Chicago Department of Transportation