5.17.10.03 CONCRETE STRUCTURES: CONTRACTOR'S QUALITY CONTROL PLAN

NOTE: This document is generally written in the imperative mood. The subject, "the *Contractor*" is implied. Also implied in this language are "*shall*", "*shall be*", or similar words and phrases. The word "*will*" generally pertains to decisions or actions of the Kansas Department of Transportation.

a. General. Provide sufficient equipment meeting the requirements listed below to conduct quality control testing. Verify the testing equipment with prescribed procedures. As a minimum, meet the verification schedule as outlined in **Table 1, Concrete Structures Evaporation Test Equipment**.

File all reports, records, and diaries developed during the progress of construction activities as directed by the Engineer. Files become the property of the Engineer.

Provide the following test data: Air temperature, concrete temperature, relative humidity, wind velocity and evaporation rate.

- Make copies of all test results and control charts readily available to the Engineer at the project site.

Table 1: Concrete Structures Evaporation Test Equipment

Equipment	Requirements (Range) [Accuracy]	Interval (months)
Relative Humidity	Verify (10 to 90%) [± 3%]	12
Wind Velocity	Verify (2 to 90 mph) [± 5%]	12
Thermometers (Air and Concrete)	Verify (-20 to 60°C or -5 to 140°F) [± 1°C or 2°F]	12

b. Quality Control Organization. Submit a listing of the names and phone numbers of individuals and alternates responsible for quality control administration and inspection. Provide an organizational chart that shows the specified lines of authority relating to quality control operations during production. Provide a copy of the organizational chart at the pre-construction conference.

c. Quality Control Plan. Prepare a Quality Control Plan detailing the monitoring of evaporation rate and actions to be taken once the evaporation rate exceeds the maximum stated within the specifications. As a minimum, provide:

The name of the individual(s) responsible to initiate the plan
The name of the individual(s) performing the tests and frequency tests will be performed
Number of individuals to assist in the fogging operation
Experience of individuals with fogging bridge decks
Type of fogging equipment
Curing procedure to be used

d. Documentation. Maintain adequate records of all tests. Indicate the nature and number of observations made. The Contractor's documentation procedures will be subject to approval of the Engineer before the start of the work and to compliance checks during the progress of the work.

NOTE: Appendix 5.17.10.03 A, Example of a Contractor's Concrete Structures Quality Control Plan for Controlling Evaporation, will provide the contractor a basic outline for the Quality Control Plan.

5.17.10.03 APPENDIX A
Example of a Contractor's Concrete Structures Quality Control Plan for Controlling Evaporation

To: (DISTRICT ENGINEER)

From: (CONTRACTOR(s) NAME)

Subject: Concrete Structures Quality Control Plan for Controlling Evaporation.

1. We are submitting our Concrete Structures Quality Control Plan, developed for:

   Project No.:
   Contract No.:

2 Evaporation Equipment calibration/verification papers are attached.

3. Quality Control Personnel:

3.1. The quality control program is under the direction of(NAME OF PERSON) who can be contacted at (ADDRESS AND TELEPHONE). This individual is responsible for initiating the fogging procedures to control the evaporation rate on the bridge deck.

3.2. Testing will be the responsibility of (NAME OF PERSON(s)). Testing will be performed every (HOURS) hours at (HOW MANY) locations across the bridge deck.

3.3 The following list are individuals (with the number of years of experience) assisting in the fogging operation:

4. Quality Control Equipment:

4.1 Type of fogging equipment is as follows:

4.2 The curing procedure to be used is as follows:

5. (NAME) will notify all appropriate KDOT personnel at least 24 hours before the scheduled work is to begin.