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## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS MATERIALS CONTROL, SOILS AND TESTING DIVISION

## MATERIALS PROCEDURE

	CURING C	ONCRETE TEST SPECIMENS IN THE FIELD
1.0	PURPOSE	
1.1	The purpose of this procedure is to modify the curing requirements for cylindrical and prismatic specimens which have been in the field.	
2.0	BACKGROUND	
2.1	The Division's Standard Specifications (501.4 and 601.4) require that the making and curing of concrete test specimens in the field be done in accordance with AASHTO Designation T 23.	
2.2	Section 9 of AASHTO Designation T 23 covers curing of the test specimens until time of test.	
3.0	APPLICABLE DOCUMENT	
3.1	AASHTO Designation T 23	
4.0	PROCEDURE	
4.1	Curing of cylindrical and prismatic specimens made in the field shall be in accordance with Section 9 of AASHTO Designation T 23 with modifications as follows.	
4.1.1	Delete 9.2.1 and substitute the following:	
	9.2.1	Initial Curing
	9.2.1.1	Initial Curing in Air - During the initial 24 ± 8 hours after molding, the temperature immediately adjacent to the specimens shall be maintained in the range of 16 to 27° C. Loss of moisture from the specimens shall be prevented (Note 3).

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- 9.2.1.2 Initial Curing of Cylinders in Water after molding, Immediately immerse specimens in water at 16 to 27°C for 24 + 8 hours. Molds made from paper or other fibers which expand when immersed in water must be enclosed in a watertight envelope such as a plastic bag or other suitable impervious Reusable or plastic single use material. molds may be immersed directly in the bath, provided the tops can be sealed with a watertight cap.
- 4.1.2 Delete 9.3.2.1
- 4.1.3 Delete 9.3.3 and substitute the following:
  - 9.3.3 Standard Curing at Remote Sites Specimens to be stored at a remote site and shipped to a laboratory for test or to be tested at the remote site shall be cured in accordance with 9.2..2.1, except that a temperature range of 16 to 27°C shall be maintained for storage of specimens.
  - Delete 9.3.3.1 and substitute the following:
  - 9.3.3.1 Beam specimens to be stored and tested at remote sites shall be cured in accordance with 9.2.2 except that for a minimum of 20 hours prior to testing they shall be stored in saturated lime water at 16 to 27°C. Drying of the surfaces of the beams shall be prevented between removal from the lime water and completion of testing.

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