

EXPECTED IMPLEMENTATION JANUARY 2013

921 PORTLAND CEMENT AND BLENDED CEMENT.

(REV 1-23-12) (FA 4-11-12) (1-13)

ARTICLE 921-1 (Page 845) is deleted and the following substituted:

921-1 General.

Cement shall conform to the requirements of AASHTO M-85 or AASHTO M-240, as applicable, except as defined below or as specifically restricted in Section 346.

921-1.1 Type of Cement: Cement may be Types I, II, II (MH), III, IV, V (AASHTO M-85), or IP, IP (MS), IS (AASHTO M-240). Different brands of cement, cement of the same brand from different facilities, or different types of cement shall be stored separately and shall not be mixed.

921-1.2 Alkali Content: Only Portland cement containing a maximum of 0.60% alkali, or less, calculated as Na_2O (% Na_2O plus 0.658% K_2O), may be used with no further testing. When tests performed in accordance with ASTM C-33 X1.3 on coarse and fine aggregate indicate the aggregate to be non-reactive to alkalis, cements exceeding 0.60% alkali is allowed.

921-1.3 Heat of Hydration: The cement heat of hydration for Type II (MH) shall be 88 cal/g or less at seven days when tested in accordance with ASTM C-186. For Type II (MH) used in mass concrete, the cement heat of hydration shall be 80 cal/g or less at seven days when tested in accordance with ASTM C-186.

ARTICLE 921-2 (Pages 845 – 846) is deleted and the following substituted:

921-2 Terminology.

The following definitions are applicable to the production and quality control of cement:

Source of Supply - indicates a cement supplier responsible for supplying the final product. Where the supplier has more than one manufacturing facility, the source of supply may be designated as the manufacturer/facility.

Approved Source - indicates a cement supplier, including but not limited to a plant, a terminal, or a transfer facility, that has been qualified by the State Materials Office. A list of Approved Cement Sources will be maintained by the State Materials Office.

Quality Control Plan Status - indicates quality control approval status, for each cement supplier and will be maintained by the State Materials Office in conjunction with the Approved Source List.

Purchaser - The term “purchaser” in the AASHTO Specifications shall be taken as the Department.

Approved Laboratory – indicates a laboratory acceptable to the State Materials Office which has been currently inspected by the Cement and Concrete Reference Laboratory (CCRL), is actively participating in their proficiency program and which has all deficiencies noted at the time of inspection corrected. The laboratory must also authorize CCRL to send copies of final inspection reports to the State Materials Office.

Mill Test Report – indicates a certification from the cement supplier identifying that the cement meets Section 921, the Type, the production period the sample represents and the

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chemical and physical analyses of the cement, and the silo number(s) where the cement is stored. The mill test report must identify that there is limestone in the cement, if limestone is included. An acceptable mill test report is found in the appendix of AASHTO M-85.

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