CC-2122.3 Authorized Inspector. Reports of all required examinations, tests, and treatments shall be made available to the Authorized Inspector of the applicable Fabricator or Constructor and provisions made for inspections as required by the Authorized Inspector.

CC-2123 Size Ranges of Metallic Material

Metallic material outside the limits of size or thickness given in any specification allowed by this Division may be used if the material is in compliance with the other requirements of the specification and no size limitation is given in the rules for construction. In those specifications in which chemical composition and mechanical properties are indicated to vary with size or thickness, any material outside the specification range shall be required to conform to the composition and mechanical properties shown for the nearest specified range.

CC-2130 CERTIFICATION OF MATERIAL
CC-2131 Introduction

A Certified Material Test Report (CMTR) or a Certificate of Compliance shall be provided for all metallic materials, nonmetallic materials, and concrete constituents in accordance with the following subparagraphs.

CC-2131.1 Certified Material Test Reports. Certified Material Test Reports (CMTR) shall be provided for concrete constituents, plastic concrete, reinforcing system material, prestressing system material, liner material, other load bearing and pressure retaining material, and welding and brazing material, and shall include the following:

(a) certified reports of the actual results of all required chemical analyses, physical tests, mechanical tests, examinations (including radiographic film), repairs, and heat treatments (including times and temperatures) performed on the material

(b) a statement listing any chemical analyses, tests, examinations, and heat treatment required by the material specification, which were not performed

(c) a statement giving the manner in which the material is identified, including specific marking

(d) the Manufacturer of plastic concrete shall provide a Certified Material Test Report consisting of a batch ticket with each individual batch of concrete. The information on the batch ticket shall include the weight or volume of constituents as provided in CC-4222.2

CC-2131.2 Certificate of Compliance. A Material Manufacturer's Certificate of Compliance with the material specification, grade, class, and heat treatment condition, as applicable, may be provided in lieu of a Certified Material Test Report for metallic material \( \frac{3}{8} \) in. (20 mm) nominal pipe size and less (pipe, tube, flanges, and fittings), and bolting 1 in. (25 mm) nominal diameter and less. The Certificate of Compliance shall contain a description of the marking of the material.

CC-2131.3 Concrete Constituents.
CC-2131.3.1 Laboratory Accreditation. The tests required by CC-2200 shall be performed by an accredited laboratory that complies with ASTM C1077.1

CC-2131.3.2 Certified Material Test Reports. The Certified Material Test Reports (CMTR) for concrete constituents shall meet the following requirements:

(a) The CMTR for aggregate shall certify that the aggregates are from the same source (natural deposit) as the aggregate qualified in accordance with CC-2222.

(b) The CMTR for Portland cement shall include the standard chemical and physical test results in accordance with ASTM C150/C150M. Sampling and testing frequencies shall meet the requirements of ASTM C183.

(c) The CMTR for blended hydraulic cement shall include the standard chemical and physical test results in accordance with ASTM C595/C595M and any optional requirements in the Construction Specification. Sampling and testing frequencies shall meet the requirements of ASTM C183.

(d) The CMTR for air-entraining admixtures shall include infrared spectrophotometry traces, percent solids, percent chlorides, and pH of each manufacturing lot. A statement shall be included to certify that these tests or other included tests have established equivalence with admixtures tested in accordance with ASTM C260.

(e) The CMTR for fly ash and natural pozzolan shall include the standard chemical and physical test results in accordance with ASTM C618 and any requirements in the Construction Specification. Sampling and testing frequencies shall meet the requirements of ASTM C311.

(f) The CMTR for ground-granulated, blast-furnace slag shall include the standard chemical and physical test results in accordance with ASTM C989 and any requirements of the Construction Specification. Sampling and testing frequencies shall meet the requirements of ASTM C1240.

(g) The CMTR for silica fume shall include the standard chemical and physical test results in accordance with ASTM C1240. Sampling and testing frequencies shall meet the requirements of ASTM C1240.

(h) The CMTR for chemical admixtures shall include infrared spectrophotometry traces, percent solids, and percent chlorides of each manufacturing lot. A statement shall be included to certify that these tests or other included tests have established equivalence with admixtures tested in accordance with ASTM C949/C949M or ASTM C1017/C1017M.

(i) A CMTR for water and ice is not required.

CC-2131.4 Personnel Qualification. Laboratory testing personnel performing tests required by CC-2000 may be qualified using appropriate industry or laboratory standards. The qualification and certification rules of Mandatory Appendix D2-V are not mandatory for personnel performing tests required in CC-2200.