

ORIGINATION FORM

Date: **1-27-2010**

Originator: Ghulam Mujtaba

Contact Information: (352) 955-6685 ghulam.mujtaba@dot.state.fl.us

Specification Title: **Timber Treatment (Including Treating Materials)**

Specification Section, Article, or Subarticle Number: **955-2.2, 955-4, 955-5.2 and 955-5.3**

Why does the existing language need to be changed? **The purpose of the specification change is to include a timber preservative in the specification called Copper Azole-Type C (CA-C). CA-C is a newer version of the approved preservative product CA-B. The CA-C requirement of 0.15-pcf for retention and it is comparable to the CA-B requirement of 0.21-pcf for retention.**

Summary of the changes: **Specification 955-2.2, 955-4 and 955-5.2 and 955-5.3 are expanded to include the option of timber treatment with Copper Azole-Type C (CA-C). The changes will specify the required retention level for each use.**

Are these changes applicable to all Department jobs? **No, If not, what are the restrictions? It is applicable only projects which utilize timber treated products.**

Will these changes result in an increase or decrease in project costs? **No** If yes, what is the estimated change in costs?

With who have you discussed these changes? **Mr. Steve Plotkin, Office of Construction and Mr. Rafiq Darji Construction and Materials Engineer FHWA - Florida Division.**

What other offices will be impacted by these changes? **Design**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **No**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **Yes, the Construction Memorandum/Materials bulletin is needed**

Contact the State Specifications Office for assistance in completing this form.

Rudy Powell 850-414-42820 rudy.powell@dot.state.fl.us

Frances Thomas 850-414-4101 frances.thomas@dot.state.fl.us

Debbie Toole 850-414-4114 deborah.toole@dot.state.fl.us

Andy Harper 850-414-4127 clifton.harper@dot.state.fl.us



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

M E M O R A N D U M

DATE: February 10, 2011

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: 9550202 Timber Treatment (Including Treating Materials).

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Ghulam Mujtaba to include a timber preservative in the specification called Copper Azole-Type C (CA-C). CA-C is a newer version of the approved preservative product CA-B. The CA-C requirement of 0.15-pcf for retention and it is comparable to the CA-B requirement of 0.21-pcf for retention.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via email at SP965RP or rudy.powell@dot.state.fl.us. Comments received after **March 10, 2011** may not be considered. Your input is encouraged.

RP/cah
Attachment

TIMBER TREATMENT (INCLUDING TREATING MATERIALS).
(REV 2-2-11)

SUBARTICLE 955-2.2 (Page 912) is deleted and the following substituted:

955-2.2 Above Ground or Ground Contact and Fresh Water Immersion Use: The treating of SYP lumber and timber for above ground or ground contact and fresh water immersion applications, shall be done with Copper Azole-Type B (CA-B), *Copper Azole-Type C (CA-C)*, Amine Copper Quat-Type D (ACQ-D), or CCA, with the following exceptions:

Treatment of the wood products of the pedestrian bridges, wood rails at buildings or rest areas, and fence posts shall be done either with Copper Azole-Type B (CA-B), *Copper Azole-Type C (CA-C)*, or Amine Copper Quat-Type D (ACQ-D).

ARTICLE 955-4 (Page 912) is deleted and the following substituted:

955-4 Requirements for Preservative Materials.

Amine Copper Quat-Type D (ACQ-D), Chromated Copper Arsenate (CCA), Copper Azole-Type B (CA-B), *Copper Azole-Type C (CA-C)*, Ammoniacal Copper Zinc Arsenate (ACZA) shall be in accordance with AWP A P5.

ARTICLE 955-5 (Pages 912 – 913) is deleted and the following substituted:

955-5 Requirements for Retainment.

955-5.1 Piling: A minimum of 2.50 lb/ft³ of CCA oxides shall be retained in zone 1, outer 0.50 inch, and 1.5 lb/ft³ in zone 2, outer 0.50 to 2 inches.

If ACZA is used, a minimum of 2.50 lb/ft³ shall be retained in zone 1, outer 0.50 inch, and 1.5 lb/ft³ in zone 2, outer 0.50 to 2 inches.

955-5.2 Structural Timber and Sheet Piles: When installation is not in a salt (or brackish) water environment, the minimum retention shall be 0.60 lb/ft³ of CCA or ACQ-D or 0.31 lb/ft³ CA-B *or CA-C*, as determined by cores from the outer 0.60 inch. When installation is in a salt (or brackish) water environment, a minimum of 2.50 lb/ft³ of CCA oxides shall be retained in the outer 0.60 inch.

All guardrail material (timber posts, blocks, wedges, etc.) shall retain a minimum of 0.40 lb/ft³ of CCA or ACQ-D; ~~or 0.21 lb/ft³ CA-B; or 0.15 lb/ft³ CA-C~~ *at 0.21 lb/ft³* in the outer 1 inch zone.

955-5.3 Posts: Round/sawn timber fence posts shall retain a minimum of 0.40 lb/ft³ of ACQ-D or 0.21 lb/ft³ of CA-B *or 0.15 lb/ft³ of CA-C* in the outer 1 inch zone.

955-5.4 Determination of Retention: Retention shall be determined by assay performed and certified by the treating company in accordance with the applicable AWP A standards.