



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

OFFICE OF THE
SECRETARY

March 29, 2011

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 955
Proposed Specification: **9550202 Timber Treatment (Including Treating Materials).**

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

These changes were 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 CA-C is a newer version of the approved preservative product CA-B.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

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

RP/cah
Attachment

cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

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 AWWA 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 of 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 of CA-B; or 0.15 lb/ft³ of 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 AWWA standards.

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 AWWA 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 of 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; 0.21 lb/ft³ of CA-B; or 0.15 lb/ft³ of CA-C 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 AWWA standards.