

## Rural Utilities Service, USDA

## § 1728.97

made by the Technical Standards Committees.

(c) *Dual Listings.* RUS, through its Technical Standards Committees, will accept for listing only one item of a particular type of material or equipment for each manufacturer. If a manufacturer submits an item to perform the identical function of a listed item, RUS, through its Technical Standards Committees, may accept that item and remove the one previously listed. RUS will list only new items of material and equipment in the List of Materials. Used items will not be considered for listing.

[50 FR 47712, Nov. 20, 1985. Redesignated at 55 FR 39395, Sept. 27, 1990]

### § 1728.70 Procurement of materials.

(a) *By Owner.* When purchasing the type of materials included in the List of Materials, RUS borrowers shall purchase only materials listed in the List of Materials, or materials which have a current technical acceptance by RUS and meet the "Buy American" requirement.

(b) *By Contractor.* When performing work for an RUS borrower, contractors shall supply only items from the general acceptance pages of the List of Materials, or obtain the borrower's concurrence prior to purchase and use of a technically nondomestic item or any item listed on a conditional basis.

(c) *Procurement of Unlisted Items.* (1) The borrower shall request prior approval from RUS for use of an item that does not fall in categories established by RUS in the List of Materials for which acceptability has been established by the Technical Standards Committees.

(2) RUS will also determine, on a case-by-case basis, whether to allow use of an unlisted item in emergency situations and for experimental use or to meet a specific need. For purposes of this part 1728, an emergency shall mean a situation wherein the supply of listed material and equipment from the industry is not readily available, or the standard designs are not applicable to the borrower's specific problem under consideration.

(3) RUS will make arrangements for test or experimental use of newly developed items requiring limited trial

use. RUS, working with the borrower and the manufacturer, will establish test locations for the items to facilitate installation and observation.

[50 FR 47712, Nov. 20, 1985. Redesignated at 55 FR 39395, Sept. 27, 1990]

### § 1728.97 Incorporation by reference of electric standards and specifications.

The materials listed below are incorporated by reference in the corresponding sections noted. The Director of the Federal Register approves the incorporations by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. A notice of any change in these materials will be published in the FEDERAL REGISTER. Standards and specifications materials are available for purchase at the addresses in the corresponding sections noted below. The materials incorporated by reference may also be inspected at the Rural Utilities Service's Program Development and Regulatory Analysis, Stop 1520, Room 5820-S, Washington, DC 20250-1522, call (202) 720-8674. Bulletins are also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of these materials at NARA, call (202) 741-6030, or go to: <http://www.archives.gov> or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(a) The following RUS bulletins are available from the Rural Utilities Service, Room 1246-S, U.S. Department of Agriculture, Washington, DC 20250. For information on the availability of this material, call (202) 720-1900. The bulletins containing construction standards (50-4 and 1728F-803 to 1728F-811) may be obtained from the Superintendent of Documents, U.S. Government Printing Office (GPO) for Washington, DC 20402, Phone: 1-866-512-1800 (toll-free) 202-512-1800 (DC Area) or go to the GPO Web site at: <http://www.gpoaccess.gov/about/index.html>.

(1) Bulletin 50-4 (D-801), Specification and Drawings for 34.5/19.9 kV Distribution Line Construction (11-86), incorporation approved for § 1728.98.

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(2) Bulletin 50-15 (DT-3), RUS Specifications for Pole Top Pins with 1 $\frac{3}{8}$ " Diameter Lead Thread (1-51), incorporation approved for §1728.98.

(3) Bulletin 50-16 (DT-4), RUS Specifications for Angle Suspension Brackets (3-52), incorporation approved for §1728.98.

(4) Bulletin 50-19 (DT-7), RUS Specifications for Clevis Bolts (8-53), incorporation approved for §1728.98.

(5) Bulletin 50-23 (DT-18), RUS Specifications for 60" Wood Crossarm Braces (2-71), incorporation approved for §1728.98.

(6) Bulletin 50-31 (D-3), RUS Specifications for Pole Top Pins with 1" Diameter Lead Threads (2-79), incorporation approved for §1728.98.

(7) Bulletin 50-32 (D-4), RUS Specifications for Steel Crossarm Mounted Pins with 1" Diameter Lead Threads (10-50), incorporation approved for §1728.98.

(8) Bulletin 50-33 (D-5), RUS Specifications for Single and Double Upset Spool Bolts (2-51), incorporation approved for §1728.98.

(9) Bulletin 50-34 (D-6), RUS Specifications for Secondary Swinging Clevises (12-70), incorporation approved for §1728.98.

(10) Bulletin 50-35 (D-7), RUS Specifications for Service Swinging Clevises (9-52), incorporation approved for §1728.98.

(11) Bulletin 50-36 (D-8), RUS Specifications for Service Deadend Clevises (9-52), incorporation approved for §1728.98.

(12) Bulletin 50-40 (D-14), RUS Specifications for Pole Top Brackets for Channel Type Pins (9-51), incorporation approved for §1728.98.

(13) Bulletin 50-41 (D-15), RUS Specifications for Service Wireholders (11-51), incorporation approved for §1728.98.

(14) Bulletin 50-55 (T-2), RUS Specifications for Overhead Ground Wire Support Brackets (5-53), incorporation approved for §1728.98.

(15) Bulletin 50-56 (T-3), RUS Specifications for Steel Plate Anchors for Transmission Lines (12-53), incorporation approved for §1728.98.

(16) Bulletin 50-60 (T-9), RUS Specification—Single Pole Steel Structures, Complete with Arms (12-71), incorporation approved for §1728.98.

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(17) Bulletin 50-72 (U-4), RUS Specification for Electrical Equipment Enclosures (5-35 kV) (10-79), incorporation approved for §1728.98.

(18) Bulletin 50-73 (U-5), RUS Specifications for Pad-Mounted Transformers (Single and Three-Phase) (1-77), incorporation approved for §1728.98.

(19) Bulletin 50-74 (U-6), RUS Specification for Secondary Pedestals (600 Volts and Below) (10-79), incorporation approved for §1728.98.

(20) Bulletin 50-91 (S-3), RUS Specifications for Step-Down Distribution Substation Transformers (34.4-138 kV) (1-78), incorporation approved for §1728.98.

(21) Bulletin 1728F-700, RUS Specification for Wood Poles, Stubs and Anchor Logs (3-2011), incorporation approved for §§1728.98, 1728.202.

(22) Bulletin 1728F-803, Specifications and Drawings for 24.9/14.4 kV Line Construction (10-98), incorporation approved for §1728.98.

(23) Bulletin 1728F-804 (D-804), Specification and Drawings for 12.47/7.2 kV Line Construction, October 2005, incorporation approved for §1728.98.

(24) Bulletin 1728F-806 (D-806), Specifications and Drawings for Underground Electric Distribution, June 2000, incorporation approved for §1728.98.

(25) Bulletin 1728F-810, Electric Transmission Specifications and Drawings, 34.5 kV to 69 kV (3-98), incorporation approved for §§1728.98 and 1728.201.

(26) Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV to 230 kV (3-98), incorporation approved for §§1728.98 and 1728.201.

(b) The following material is available for purchase from American Institute of Timber Construction (AITC), 7012 S. Revere Park Way, Englewood, Colorado 80112, telephone (303) 792-9559, web address: <https://www.aitc-glulam.org/index.asp>.

(1) AITC 200-2004, Manufacturing Quality Control Systems Manual For Structural Glued Laminated Timber, copyright 2004, (incorporation by reference approved for §§1728.201 and 1728.202.

(2) [Reserved]

(c) The following standards are available for purchase from the American National Standards Institute (ANSI),

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25 West 43rd Street, New York, New York 10036, telephone (212) 642-4900, Web address: <http://www.ansi.org/>.

(1) ANSI O5.2-2006, American National Standard for Wood Products, Structural Glued Laminated Timber for Utility Structures, approved December 5, 2006, incorporation by reference approved for §§. 1728.201, 1728.202.

(2) ANSI O5.3.2008, American National Standard for Wood Poles and Wood Products, Solid Sawn-Wood Crossarms & Braces—Specifications & Dimensions, approved July 15, 2008, incorporation by reference approved for §1728.201.

(d) The American National Standards Institute/Insulated Cable Engineers Association, Inc. (ANSI/ICEA) makes the following material available for purchase from Global Engineering Documents for a fee at the following address: IHS Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112, Phone: (303) 397-7956; (800)-854-7179, Fax: (303) 397-2740, email: [global@ihs.com](mailto:global@ihs.com), Web site: <http://global.ihs.com>.

(1) ANSI/ICEA S-94-649-2004—Standard for Concentric Neutral Cables Rated 5 Through 46 KV (ANSI/ICEA S-94-649-2004), approved September 20, 2005, incorporation by reference approved for §1728.204.

(2) ANSI/ICEA T-31-610-2007—Test Method for Conducting Longitudinal Water Penetration Resistance Tests on Blocked Conductors (ANSI/ICEA T-31-610-2007), approved October 31, 2007, incorporated by reference approved for §1728.204.

(e) Copies of American Society for Testing and Materials (ASTM) publications referenced in this specification can be obtained from ASTM for a fee at the following address: ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, Telephone: (610) 832-9585, Web site: <http://astm.org>.

(1) ASTM B 3-01 (Reapproved 2007)—Standard Specification for Soft or Annealed Copper Wire, (ASTM B 3-01) approved March 15, 2007, incorporated by reference approved for §1728.204.

(2) ASTM B 8-04—Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft (ASTM B 8-04), approved April 1,

2004, incorporated by reference approved for §1728.204.

(3) ASTM B 230/B 230M-07—Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes (ASTM B 230/B 230M-07), approved March 15, 2007, incorporated by reference approved for §1728.204.

(4) ASTM B 231/B 231M-04—Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors (ASTM B 231/B 231M-04), approved April 1, 2004, incorporated by reference approved for §1728.204.

(5) ASTM B 400-08—Standard Specification for Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors (ASTM B 400-08), approved September 1, 2008, incorporated by reference approved for §1728.204.

(6) ASTM B 496-04—Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors (ASTM B 496-04), approved April 1, 2004, incorporated by reference approved for §1728.204.

(7) ASTM B 609/B 609M-99—Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes (ASTM B 609/B 609M-99), approved April 1, 2004, incorporated by reference approved for §1728.204.

(8) ASTM B 786-08—Standard Specification for 19 Wire Combination Unilay-Stranded Aluminum 1350 Conductors for Subsequent Insulation (ASTM B 786-08), approved September 1, 2008, incorporated by reference approved for §1728.204.

(9) ASTM B 787/B 787M-04—Standard Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation (ASTM B 787/B 787M-04), approved September 1, 2004, incorporated by reference approved for §1728.204.

(10) ASTM B 835-04—Standard Specification for Compact Round Stranded Copper Conductors Using Single Input Wire Construction (ASTM B 835-04), approved September 1, 2004, incorporated by reference approved for §1728.204.

(11) ASTM B902-04a—Standard Specification for Compressed Round Stranded Copper Conductors, Hard, Medium-Hard, or Soft Using Single Input Wire

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Construction (ASTM B902–04a), approved September 1, 2004, incorporated by reference approved for §1728.204.

(12) ASTM D 1248–05—Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable (ASTM D 1248–05), approved March 1, 2005, incorporated by reference approved for §1728.204.

(13) ASTM D 2275–01 (Reapproved 2008)—Standard Test Method for Voltage Endurance of Solid Electrical Insulating Materials Subjected to Partial Discharges (Corona) on the Surface (ASTM D 2275–01), approved May 1, 2008, incorporated by reference approved for §1728.204.

(14) ASTM E 96/E 96M–05—Standard Test Methods for Water Vapor Transmission of Materials (ASTM E 96/E 96M–05), approved May 1, 2005, incorporated by reference approved for §1728.204.

(f) The following standards from the American Wood Protection Association (AWPA), Book of Standards, 2008 edition, are available for purchase from AWPA, P.O. Box 361784, Birmingham, AL 35236–1784, telephone 205–733–4077, <http://www.awpa.com/>.

(1) AWPA A1–06, *Standard Methods for Analysis of Creosote and Oil-Type Preservatives*, amended in 2006, incorporation by reference approved for §§1728.201 and 1728.202.

(2) AWPA A2–08, *Standard Methods for Analysis of Waterborne Preservatives and Fire-Retardant Formulations*, 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(3) AWPA A3–08, *Standard Methods for Determining Penetration of Preservatives and Fire Retardants*, revised in 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(4) AWPA A5–05, *Standard Methods for Analysis of Oil-Borne Preservatives*, 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(5) AWPA A6–01, *Method for the Determination of Oil-Type Preservatives and Water in Wood*, amended in 2001, incorporation by reference approved for §1728.202.

(6) AWPA A7–04, *Standard for Wet Ashing Procedures for Preparing Wood for Chemical Analysis*, amended in 2004, incorporation by reference approved for §1728.202.

(7) AWPA A9–01, *Standard Method for Analysis of Treated Wood and Treating Solutions By X-Ray Spectroscopy*, amended in 2001, incorporation by reference approved for §§1728.201 and 1728.202.

(8) AWPA M2–07, *Standard for Inspection of Wood Products Treated with Preservatives*, reaffirmed in 2007, incorporation by reference approved for §1728.202.

(9) AWPA M3–05, *Standard Quality Control Procedures for Wood Preserving Plants*, amended in 2005, incorporation by reference approved for §1728.202.

(10) AWPA P1/P13–06, *Standard for Creosote Preservative*, reaffirmed in 2006, incorporation by reference approved for §§1728.201 and 1728.202.

(11) AWPA P5–08, *Standard for Waterborne Preservatives*, revised in 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(12) AWPA P8–08, *Standard for Oil-Borne Preservatives*, revised in 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(13) AWPA P9–06, *Standards for Solvents and Formulations for Organic Preservative Systems*, copyright 2008, incorporation by reference approved for §§1728.201 and 1728.202.

(g) The following material is available from the Insulated Cable Engineers Association (ICEA) and may be purchased from Global Engineering Documents for a fee at the following address: IHS Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112, Phone: (303) 397–7956; (800)–854–7179, Fax: (303) 397–2740, email: [global@ihs.com](mailto:global@ihs.com), Web site: <http://global.ihs.com>.

(1) ICEA T–32–645–93—Guide for Establishing Compatibility of Sealed Conductor Filler Compounds with Conducting Stress Control Materials (ICEA T–32–645–93), approved February 1993, incorporated by reference approved for §1728.204.

(2) [Reserved]

(h) The following material is available from Southern Pine Inspection Bureau Standards, 4709 Scenic Highway, Pensacola, Florida 32504–9094, telephone (850) 434–2611. The web address for the Southern Pine Inspection Bureau is <http://www.spib.org/>.

(1) *Special Product Rules for Structural, Industrial, and Railroad-Freight Car Lumber*, effective October 15, 1991, incorporation by reference approved for § 1728.201.

(2) [Reserved]

(i) The following material is available for purchase from West Coast Lumber Inspection Bureau, P.O. Box 23145, Portland, Oregon 97281, telephone (503) 639-0651, fax (503) 684-8928. The web address for is <http://www.wclib.org/>.

(1) *Standard No. 17, Grading Rules for West Coast Lumber*, Revised January 1, 2004, incorporation by reference approved for § 1728.201.

(2) [Reserved]

[76 FR 36963, June 24, 2011, as amended at 77 FR 19528, Apr. 2, 2012]

**§ 1728.98 Electric standards and specifications.**

(a) To comply with this part, you must follow the requirements contained in the following REA/RUS bulletins. These bulletins are incorporated by reference in § 1728.97 of this part.

(1) Bulletin 50-4 (D-801), Specification and Drawings for 34.5/19.9 kV Distribution Line Construction (11-86).

(2) Bulletin 50-15 (DT-3), RUS Specifications for Pole Top Pins with 1 $\frac{3}{8}$ " Diameter Lead Thread (1-51).

(3) Bulletin 50-16 (DT-4), RUS Specifications for Angle Suspension Brackets (3-52).

(4) Bulletin 50-19 (DT-7), RUS Specifications for Clevis Bolts (8-53).

(5) Bulletin 50-23 (DT-18), RUS Specifications for 60" Wood Crossarm Braces (2-71).

(6) Bulletin 50-31 (D-3), RUS Specifications for Pole Top Pins with 1" Diameter Lead Threads (2-79).

(7) Bulletin 50-32 (D-4), RUS Specifications for Steel Crossarm Mounted Pins with 1" Diameter Lead Threads (10-50).

(8) Bulletin 50-33 (D-5), RUS Specifications for Single and Double Upset Spool Bolts (2-51).

(9) Bulletin 50-34 (D-6), RUS Specifications for Secondary Swinging Clevises (12-70).

(10) Bulletin 50-35 (D-7), RUS Specifications for Service Swinging Clevises (9-52).

(11) Bulletin 50-36 (D-8), RUS Specifications for Service Deadend Clevises (9-52).

(12) Bulletin 50-40 (D-14), RUS Specifications for Pole Top Brackets for Channel Type Pins (9-51).

(13) Bulletin 50-41 (D-15), RUS Specifications for Service Wireholders (11-51).

(14) Bulletin 50-55 (T-2), RUS Specifications for Overhead Ground Wire Support Brackets (5-53).

(15) Bulletin 50-56 (T-3), RUS Specifications for Steel Plate Anchors for Transmission Lines (12-53).

(16) Bulletin 50-60 (T-9), RUS Specification—Single Pole Steel Structures, Complete with Arms (12-71).

(17) Bulletin 50-72 (U-4), RUS Specification for Electrical Equipment Enclosures (5-35 kV) (10-79).

(18) Bulletin 50-73 (U-5), RUS Specifications for Pad-Mounted Transformers (Single and Three-Phase) (1-77).

(19) Bulletin 50-74 (U-6), RUS Specification for Secondary Pedestals (600 Volts and Below) (10-79).

(20) Bulletin 50-91 (S-3), RUS Specifications for Step-Down Distribution Substation Transformers (34.4-138 kV) (1-78).

(21) Bulletin 1728F-700, RUS Specification for Wood Poles, Stubs and Anchor Logs (3-2011).

(22) Bulletin 1728F-803, Specifications and Drawings for 24.9/14.4 kV Line Construction (10-98).

(23) Bulletin 1728F-804 (D-804), Specification and Drawings for 12.47/7.2 kV Line Construction, October 2005.

(24) Bulletin 1728F-806 (D-806), Specifications and Drawings for Underground Electric Distribution, June 2000.

(25) Bulletin 1728F-810, Electric Transmission Specifications and Drawings, 34.5 kV to 69 kV (3-98).

(26) Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV to 230 kV (3-98).

(b) The terms "RUS form", "RUS standard form", "RUS specification", and "RUS bulletin" have the same meanings as the terms "REA form", "REA standard form", "REA specification", and "REA bulletin", respectively unless otherwise indicated.

[76 FR 36964, June 24, 2011]