

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

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CHAPTER Env-Dw 400 PUBLIC WATER SYSTEM CLASSIFICATION AND DESIGN

PART Env-Dw 407 STANDARDS ADOPTED BY REFERENCE

Env-Dw 407.01 Standards of the American Water Works Association

REVISION NOTE:

Document #10614, effective 6-1-14, readopted with amendments and renumbered former Part Env-Ws 307 under a new subtitle as Part Env-Dw 407. The redesignation from subtitle Env-Ws to subtitle Env-Dw was done pursuant to a rules reorganization plan for Department rules approved by the Director of the Office of Legislative Services on 9-7-05.

The former Part Env-Ws 307 had last been filed under Document #8498, effective 11-30-05. The rules in former Part Env-Ws 307 did not expire on 11-30-13 since they were extended pursuant to RSA 541-A:14-a until replaced by the rules in Document #10614, effective 6-1-14.

Document #10614 replaces all prior filings for the rules formerly in Env-Ws 307. The prior filings for rules in the former Env-Ws 307, beginning with Document #6521, effective 6-4-97, which had readopted with amendments the entire Chapter Env-Ws 300, include the following documents:

- #6521, eff 6-4-97
- #8360, INTERIM, eff 6-4-05
- #8498, eff 11-30-05

PART Env-Dw 407 STANDARDS ADOPTED BY REFERENCE

Env-Dw 407.01 Standards of the American Water Works Association.

(a) The quality, materials and workmanship standards specified in table 407-1, available as noted in Appendix B, shall apply to all public water systems relative to construction, operation, and maintenance activities regulated by Env-Dw 300 and Env-Dw 401 through Env-Dw 406:

Table 407-1
Standards of the American Water Works Association

STANDARD CATEGORY Subcategory (if any) Number	Edition	Title of Standard
SOURCE		
A100	1997	Water Wells
TREATMENT		
Filtration		
B100	2001	Filtering Material
B101-01	2001	Precoat Filter Media
B102-04	2004	Manganese Greensand for Filters
Softening		
B200	2003	Sodium Chloride
B201	2003	Soda Ash
B202	2002	Quicklime and Hydrated Lime
Disinfection Chemicals		
B300	2004	Hypochlorites
B301	2004	Liquid Chlorine

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STANDARD CATEGORY Subcategory (if any) Number	Edition	Title of Standard
B302	2000	Ammonium Sulfate
B303	2000	Sodium Chlorite
Coagulation		
B402	2000	Ferrous Sulfate
B403	2003	Aluminum Sulfate-Liquid Ground, or Lump
B404	2003	Liquid Sodium Silicate
B405	2000	Sodium Aluminate
B406	1997	Ferric Sulfate
B407	1998	Liquid Ferric Chloride
B408	2003	Liquid Polyaluminum Chloride
B451	2004	Poly (Diallyldimethylammonium Chloride)
B452	1998	EPI-DMA Polyamines
B453	2001	Polyacrylamide
Scale and Corrosion Control		
B501	2003	Caustic Soda (Sodium Hydroxide)
B502	2001	Sodium Polyphosphate, Glassy (Sodium Hexametaphosphate)
B503	2001	Sodium Tripolyphosphate
B504	2001	Monosodium Phosphate, Anhydrous
B505	2001	Disodium Phosphate, Anhydrous
B510	2000	Carbon Dioxide
B511	2000	Potassium Hydroxide
B512	2002	Sulfur Dioxide
B550	2000	Calcium Chloride
Taste and Odor Control		
B600	1996	Powdered Activated Carbon
B601	2000	Sodium Metabisulfite (Sodium Pyrosulfite)
B602	2002	Copper Sulfate
B603	2003	Potassium Permanganate
B604	1996	Granular Activated Carbon
B605	1999	Reactivation of Granulated Activated Carbon
Prophylaxis		
B701	1999	Sodium Fluoride
B702	1999	Sodium Silicofluoride
B703	2000	Hydrofluosilicic Acid
PIPE AND ACCESSORIES		
C104/A21.4	2003	American National Standard for Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water
C105/A21.5	1999	American National Standard for Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids
C110/A21.10	2003	American National Standard for Ductile-Iron and Gray-iron Fittings, 3 in. through 48 in., for Water and Other Liquids
C111/A21.11	2000	American National Standard for Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings
C115/A21.15	1999	American National Standard for Flanged Ductile-Iron Pipe With Threaded Flanges
C116/A21.16	2003	American National Standard for Protective Fusion-Bonded Epoxy Coatings Int.& Ext. Iron/Gray-Iron Fittings

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STANDARD CATEGORY Subcategory (if any) Number	Edition	Title of Standard
C150/A21.50	2002	American National Standard for the Thickness Design of Ductile-Iron Pipe
C151/A21.51	2002	American National Standard for Ductile-Iron Pipe centrifugal Cast for Water or Other Liquids
C153/A21.53	2000	American National Standard for Ductile-Iron Compact Fittings, 2 in. through 16 in., for Water and Other Liquids
Steel Pipe		
C200	1997	Steel Water Pipe 6 in. and Larger
C203	2002	Coal-Tar Protective Coatings and Linings for Steel Water Pipelines- Enamel and Tape-Hot Applied
C205	2000	Cement Mortar Protective Lining and Coating for Steel Water Pipe-4in. and Larger-Shop Applied
C206	1997	Field Welding of Steel Water Pipe
C207	2001	Steel Pipe Flanges for Waterworks Service-Sizes 4 in. through 144 in.
C208	2001	Dimensions for Fabricated Steel Water Pipe Fittings
C209	2000	Cold-Applied Tape Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines
C210	2003	Liquid Epoxy Coating Systems for the Interior of Steel Water Pipelines
C213	2001	Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines
C214	2000	Tape Coating Systems for the Exterior of Steel Water Pipelines (Includes addendum C214a-91)
C215	2004	Extruded Polyolefin Coatings for the Exterior of Steel Water Pipelines
C216	2000	Heat-Shrinkable Cross-Linked Polyolefin Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines
C217	2004	Cold-Applied Petrolatum Tape and Petroleum Wax Tape Coatings for the Exterior of Special Sections, Connections
C218	2002	Coating the Exterior of Aboveground Steel Water Pipelines and Fittings
C219	2001	Bolted, Sleeve-Type Couplings for Plain-End Pipe
C220	1998	Stainless-Steel Pipe, 4 in. (100mm) and Larger Concrete Pipe
C221	2001	Fabricated Steel Mechanical Slip-Type Expansion Joints
C222	1999	Polyurethane Coatings for the Interior and Exterior of Steel Water Pipe and Fittings
C223	2002	Fabricated Steel and Stainless Steel Taping Sleeves
C224	2001	Two-Layer Nylon-11 Based Polyamide Coating System for Interior and Extended Water Pipe and Fittings
C225	2003	Fused Polyolefin Coating Systems for the Exterior of Steel Water Pipeline
Concrete Pipe		
C300	2004	Reinforced Concrete Pressure Pipe, Steel- Cylinder Type, for Water and Other Liquids
C301	1999	Prestressed Concrete Pressure Pipe, Steel- Cylinder Type, for Water and Other Liquids

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STANDARD CATEGORY Subcategory (if any) Number	Edition	Title of Standard
C302	2004	Reinforced Concrete Pressure Pipe, Non- cylinder Type, for Water and Other Liquids
C303	2002	Reinforced Concrete Pressure Pipe, Steel-Cylinder Type, Pretensioned, for Water and Other Liquids
C304	1999	Design of Concrete Cylinder Pipe Asbestos-Cement Pipe
Asbestos Cement		
C400	2003	Asbestos-Cement Distribution Pipe, 4 in. through 16 in. (100 mm through 400 mm) NPS, for Water and Other Liquids
C401	2003	Practice for the Selection of Asbestos- Cement Distribution Pipe, 4 in. through 6 in. (100 mm through 400 mm) for Water and Other Liquids
C402	2005	Asbestos-Cement Transmission Pipe, 18 in. through 42 in. (450 mm through 1050 mm), for Potable Water and Other Liquids
C403	2005	Practice for the Selection of Asbestos- Cement Transmission and Feeder Main Pipe, Sizes 18 in. through 42 in. (450 mm through 1050 mm)
VALVES AND HYDRANTS		
C500	2002	Gate Valves for Water and Sewerage Systems
C502	1994	Dry-Barrel Fire Hydrants
C503	1997	Wet-Barrel Fire Hydrants
C504	2000	Rubber-Seated Butterfly Valves
C507	2005	Ball Valves 6 in. through 48 in. (150 mm through 1200 mm)
C508	2001	Swing-Check Valves for Waterworks Service, 2 in. through 24 in. NPS
C509	2001	Resilient-Seated Gate Valves for Water and Sewerage Systems
C510	1997	Double Check Valve Backflow-Prevention Assembly
C511	1997	Reduced-Pressure Principle Backflow- Prevention Assembly
C512	2004	Air Release, Air/Vacuum, and Combination Air Valves for Waterworks Service
C513	2005	Open-Channel, Fabricated-Metal, Slide Gates and Open-Channel, Fabricated-Metal Weir Gates
C515	2001	Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service
C540	2002	Power-Actuating Devices for Valves and Sluice Gates
C550	2001	Protective Epoxy Interior Coatings for Valves and Hydrants
C560	2000	Cast-Iron Slide Gates
C561	2004	Fabricated Stainless Steel Slide Gates
C563	2004	Fabricated Composite Slide Gates
PIPE INSTALLATION		
C600	1999	Installation of Ductile-Iron Mains and Their Appurtenances
C602	2000	Cement-Mortar Lining of Water Pipelines-4 in. (100 mm) and Larger-In Place
C603	1996	Installation of Asbestos-Cement Pressure Pipe
C605	1994	Underground Installation of Polyvinyl Chloride(PVC) Pressure Pipe and Fittings for Water
C606	2004	Grooved and Shouldered Joints

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STANDARD CATEGORY Subcategory (if any) Number	Edition	Title of Standard
DISINFECTION OF FACILITIES		
C651	1999	Disinfecting Water Mains
C652	2002	Disinfection of Water-Storage Facilities
C653	2003	Disinfection of Water Treatment Plants
C654	2003	Disinfection of Wells
METERS		
C700	2002	Cold-Water Meters-Displacement Type, Bronze Main Case
C701	2002	Cold-Water Meters-Turbine Type, for Customer Service
C702	2001	Cold-Water Meters-Compound Type
C703	1996	Cold-Water Meters-Fire Service Type
C704	2002	Cold-Water Meters-Propeller Type for Main Line Applications
C706	1996	Direct-Reading, Remote-Registration Systems for Cold-Water Meters
C707	1982	Encoder-Type Remote-Registration Systems for Cold-Water Meters
C708	1996	Cold-Water Meters-Multi-Jet Type
C710	2002	Cold-Water Meters-Displacement Type, Plastic Main Case
C712	2002	Cold-Water Meter—Singlejet Type
C750	2003	Transit-Time Flowmeters in Full Closed Conduits
SERVICE LINES		
C800	2001	Underground Service Line Valves and Fittings
PLASTIC PIPE		
C900	1997	Polyvinyl Chloride (PVC) Pressure Pipe, 4 in. through 12 in., for Water Distribution
C901	2002	Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. through 3 in., for Water Service
C903	2002	Polyethylene-Aluminum-Polyethylene and Crosslinked Polyethylene Composite Pressure Pipes
C905	1997	Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14 in. through 36 in.
C906	1999	Polyethylene (PE) Pressure Pipe and Fittings, 4 in. through 63 in., for Water Distribution
C907	2004	Polyvinyl Chloride (PVC) Pressure Fittings for Water-4 in. through 8 in. (100 mm through 200 mm)
C908	2001	PVC Self-Tapping Saddle Tees for Use on PVC Pipe
C909	2002	Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 In.-24(mm), for Water Distribution
C950	2001	Fiberglass Pressure Pipe
STORAGE		
D100	1996	Welded Steel Tanks for Water Storage (Includes addendum D100a 1989)
D102	2003	Coating and Steel Water-Storage Tanks
D103	1997	Factory-Coated Bolted Steel Tanks for Water Storage
D104	2004	Automatically Controlled, Impressed-Current Cathodic Protection for the Interior of Steel Water Tanks
D110	2004	Wire-Wound Circular Prestressed-Concrete Water Tanks

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STANDARD CATEGORY <i>Subcategory (if any)</i> Number	Edition	Title of Standard
D115	1995	Circular Prestressed Concrete Water Tanks with Circumferential Tendon
D120	2002	Thermosetting Fiberglass-Reinforced Plastic Tanks
D130	2002	Flexible-Membrane-Lining and Floating-Cover Materials for Potable-Water Storage
PLANT EQUIPMENT		
F101	2002	Contact-Molded, Fiberglass-Reinforced Plastic Wash Water Troughs
F102	2002	Matched-Die-Molded, Fiberglass-Reinforced Plastic Weir Plates, Scum B Mounting Brackets

Source. (See Revision Note at part heading for Env-Dw 407)
#10614, eff 6-1-14

Appendix A: State Statutes and Federal /Regulations Implemented

Rule Section(s)	State Statute(s) Implemented	Federal Requirement(s) Implemented
Env-Dw 407	RSA 485:41, III	

Appendix B: Incorporation By Reference Information

Rule Section(s)	Title	Dated	Obtain at:
Env-Dw 407.01(a)	American Water Works Association Standards A100 through F102	Various	NH Department of Environmental Services office