

Tennessee Rules and Regulations Currentness

0400. Department of Environment and Conservation

0400-49. Board of Water and Wastewater Operator Certification

Chapter 0400-49-01. Rules Governing Water and Wastewater Operator Certification (Refs & Annos)

Tenn. Comp. R. & Regs. 0400-49-01-.09

0400-49-01-.09 CLASSIFICATIONS AND QUALIFICATIONS OF WASTEWATER TREATMENT  
PLANT OPERATORS AND WASTEWATER COLLECTION SYSTEM OPERATORS.

(1) (a) Grade IV Wastewater Treatment Plant Operator

Certification as an operator in this classification will be made only upon the satisfactory completion by the applicant of the requirements of either parts 1 or 2 of this subparagraph.

1. An applicant must have a bachelor degree in engineering, chemistry or a related science from an accredited college or university, must have twelve (12) months of operating experience at a Grade III or a Grade IV Wastewater Treatment plant, and must satisfactorily complete a written examination.
2. An applicant must have a high school education or equivalent, must have sixty (60) months of operating experience at a Grade III or a Grade IV Wastewater Treatment plant, and must satisfactorily complete a written examination. Within the discretion of the Board, college course work in related science or engineering courses satisfactorily completed, or Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training, may be credited toward the required operating experience to a maximum equivalency of thirty-six (36) months.
3. To receive full time operating experience credit, a minimum of 100% of the activities must be work experience duties. The Board reserves the right to adjust calendar months of experience to a reduced number of months of experience where it is obvious that an applicant's experience routinely includes other duties. The Board encourages documented apprenticeship training programs and classroom training provided by the employer to better prepare an operator to make decisions in plant operation to assure public health protection.

(b) Grade III Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade II wastewater treatment plant or a Grade III wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 50% of the activities must be work experience duties.

(c) Grade II Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade I wastewater treatment plant or a Grade II wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(d) Grade I Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience in a Grade I wastewater treatment plant or twelve (12) months operating experience at a biological/natural system and six (6) months at a Grade I wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(c) Biological/Natural System Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience in a wastewater system classified as a biological/natural system, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(f) Grades I & II Wastewater Collection System Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a wastewater collection system, and must satisfactorily complete a written examination. Board sanctioned comprehensive training including installation, operation, maintenance and repair of collection systems, satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 50% of the activities must be work experience duties.

(2) Reclassifications Resulting from Amendments to this Chapter

- (a) The reclassification of a wastewater treatment plant or a wastewater collection system that immediately occurs as a result of amendments to this chapter shall not reduce the operator classification of a certified operator then employed at that plant or system to a lower operator classification.
- (b) The reclassification of a wastewater treatment plant or a wastewater collection system that immediately occurs as a result of amendments to this chapter shall raise the operator classification of a certified operator then employed at that plant or system to a higher operator classification equivalent with the new classification of the plant or system. This

subparagraph shall apply only to a certified operator whose operator classification, immediately prior to reclassification of the plant or system pursuant to amendments to this chapter, is at least equivalent with the classification of the plant or system at which he/she is employed.

(c) An applicant for examination who is employed at a wastewater treatment plant or a wastewater collection system that has been reclassified by the Department, and certified at the appropriate level, may have his/her experience at the facility applied at a rate equal to the level of the reclassified facility.

(d) An operator classification authorized under prior rules that is eliminated upon amendments to this chapter becoming effective shall be reclassified to the highest comparable operator classification authorized under these rules. (Industrial Biological Waste Treatment certificates become Grade IV Wastewater certificates).

(e) An operator's classification may be changed by the Board if the operator is employed at a wastewater plant or collection system that has been incorrectly classified by the Department for one (1) year or more. The operator must hold a valid certificate equal to the incorrect plant or system classification and the operator must have applied for and achieved the certificate based on the incorrect classification.

(3) Operating Experience Credit for Approved Study

(a) For part (1)(a) 2 of this rule, the Board may approve each one (1) semester hour, or one and one half (1½) quarter hour, of academic study satisfactorily completed at an accredited college or university in related science or engineering courses as equal to one month of the operating experience required as a qualification of a certified wastewater treatment plant operator.

(b) For parts (1)(a) 2, (1)(b) 1, (1)(c) 1, (1)(d) 1, (1)(e) 1, and (1)(f) 1 of this rule, each day of Board sanctioned comprehensive training, satisfactorily completed, through schools for operators, correspondence courses, or other special training programs may be equal to one month of the operating experience required as a qualification of a certified wastewater treatment plant operator.

(4) Work Experience

(a) The Board may approve the wastewater treatment operating experience required in parts (1)(a)1, (1)(a)2, (1)(a)3, (1)(b)1, (1)(c)1, (1)(d)1, and (1)(e)1 of this rule in two (2) or more of the following work experience duties:

Control of:

Solids pumping from clarifiers

Scum removal in clarifiers

Return and waste sludge rates

Aeration rates

Recirculation rates to trickling filter or rotating biological contactor (RBC) Operation of:

Disinfection system feed rates

Digesters and/or solids conditioning processes Performance of:

Calculations and plant control

Interpretation of laboratory test results

Interpretation of process control data

Cleaning and maintenance of preliminary treatment

Adjustment of wastewater levels or flow through a lagoon system

(b) An operator applying for a Grade IV wastewater system certification may be granted partial credit by the Board for up to forty percent (40%) of any approved operating experience obtained in a water supply system.

(c) The Board may approve the collection system operating experience required in part (1)(f) 1 of this rule in two or more of the following work experience duties:

Operation and/or maintenance of:

Pumps

Lift stations

Valves

Lines and equipment

Pipeline installation

Service connection installation

Leak detection

TV crew activities

Line repairs

Line cleaning

Manhole maintenance

Pretreatment

(5) Summary of Wastewater Treatment Plant and Collection System Operator Education and Experience

**Wastewater Treatment Plant Operators**

Classification	Experience	Maximum Training or College Classwork Substitution	Maximum Related Work Substitution
	Experience needed with:	HS Education	BS Degree
Grade IV	Gained at a Grade III or IV Wastewater Plant	[FNa]60 months	12 Months
Grade III	Gained at a Grade II or III Wastewater Plant	12 Months	3 Months
Grade II	Gained at a Grade I or II Wastewater Plant	12 Months	3 Months
Grade I	Gained at a Grade I Wastewater Plant	12 Months	3 Months
	Gained at Biological/Natural and Grade I Wastewater Plant	12 Months 6 Months	
Grade BNS	Gained at a BNS Wastewater Plant	12 Months	3 Months

a. Regardless of the substitution allowances, a minimum of 1 year of actual work experience is required

**COLLECTION SYSTEM OPERATORS**

Classification	Experience	Maximum Training or College Classwork Substitution
	Experience needed with:	HS Education

Grade II	Gained at a Collection I or II System	12 Months	3 Months
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Grade I	Gained at a Collection I or II System	12 Months	3 Months
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**Credits**

**Authority:** T.C.A. §§ 4-5-201 et seq. and 68-221-901 et seq. **Administrative History:** Original rule filed May 21, 2014; effective August 19, 2014. Rule renumbered from 1200-05-03.

Current through rules effective December 30, 2019.

Tenn. Comp. R. & Regs. 0400-49-01-.09, TN ADC 0400-49-01-.09

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West's Tennessee Code Annotated

Title 68. Health, Safety and Environmental Protection

Environmental Protection

Chapter 221. Water and Sewerage (Refs & Annos)

Part 9. Water and Wastewater Operator Certification Act

T. C. A. § 68-221-906

§ 68-221-906. Powers and duties

Effective: July 1, 2013

Currentness

(a) Duties and authority of the board include:

(1) Adopt, modify, repeal, promulgate in accordance with the Uniform Administrative Procedures Act, compiled in title 4, chapter 5, and, after due notice, enforce rules and regulations which the board deems necessary for proper administration of this part;

(2) Hold at least one (1) examination annually at a designated time and place for the purpose of examining candidates for certification;

(3) Advertise and promote the program;

(4) Encourage other operators to become certified besides those required by law;

(5) Distribute applications and notices;

(6) Receive and evaluate applications;

(7) Prepare, conduct and grade examinations;

(8) Set up a system of fees and late penalties for applicants to support the expenses of the program;

(9) Maintain all records of the program, and maintain a register of certified operators;

(10) Promote and schedule regular training schools and programs;

(11) Hear appeals from any order or ruling issued by the commissioner, and affirm, modify or revoke such order or ruling; issue notices of such appeals and subpoenas requiring attendance of such witnesses and production of such evidence; administer oaths; and take such testimony as the board deems necessary. Any such appeals must be filed with the board within thirty (30) days of issuance of such order or ruling; and

(12) Recommend to the commissioner the staff required to effectively administer the requirements of this part.

(b) The board has the authority to hear appeals from orders and civil penalties made or assessed by the commissioner under this part.

#### **Credits**

1984 Pub.Acts, c. 812, § 5; 2013 Pub.Acts, c. 362, § 5, eff. July 1, 2013.

**Formerly** § 68-13-906.

T. C. A. § 68-221-906, TN ST § 68-221-906

Current through end of the 2019 First Extraordinary Session of the 111th Tennessee General Assembly.

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Tennessee Rules and Regulations Currentness  
0400. Department of Environment and Conservation  
0400-49. Board of Water and Wastewater Operator Certification  
Chapter 0400-49-01. Rules Governing Water and Wastewater Operator Certification (Refs & Annos)

Tenn. Comp. R. & Regs. 0400-49-01-.03

0400-49-01-.03 FEES.

(1) Fees for Certification

(a) Fees for certification shall be required of each applicant and paid in advance as follows:

- 1. Application fee for each operator examination or reciprocity request applied for..... \$100
- 2. Discount annual renewal fee for each operator certificate: (Payment prior to February 1)..... \$50
- 3. Standard annual renewal fee for each operator certificate: (Payment from February 1 through June 30.)..... \$100

(b) No application fee will be returned.

(c) Upon payment of an application fee and approval by the Board, an applicant may take any one scheduled examination during the following twelve (12) months. If an applicant chooses not to take or fails to appear for, the first examination offered after receiving approval, the applicant must register on a form approved by the Board to be scheduled for a subsequent exam within the established time. The registration must occur sixty (60) days in advance of the examination he/she wishes to take. If an applicant does not take the examination within twelve (12) months of the Board's approval, he/she must reapply by submitting a new application with fees in order to be considered to take a subsequent examination.

(d) Each year a certified operator shall submit to the Board for the following year a completed certificate renewal application and a fee for the renewal of each operator certificate he/she possesses. Applications received prior to February 1 of each year shall be subject to discount renewal fees. Applications received February 1 through June 30 of each year shall be subject to standard renewal fees. Any person failing to meet the June 30 deadline may, within sixty (60) days of the deadline, request that the Board grant a variance. A variance may be granted when the delay was caused by Board or staff error, Board action, or documented postal error. A completed certificate renewal application or appropriate annual renewal fee for an expired certificate not received by the Board by June 30 shall preclude the recertification of the operator in his/her expired classification until he/she shall have fulfilled all the requirements for the issuance of an initial certificate in that classification, including the satisfactory completion of a written examination. When an operator classification is upgraded, the certificate he/she was upgraded from becomes void; and no additional fee payment is necessary until renewal.

(2) Fees for Cross Connection Control Training Registration

(a) Fees for Cross Connection Control Training registration shall be required of each person and paid in advance as follows:

- 1. Registration fee for a Cross Connection Control Basic Class (full time employees of public water systems as defined in T.C.A. § 68-221-703 and Department employees who assist with cross connection control training or testing classes are exempt)\$275..

2. Registration fee for a Cross Connection Control Renewal Class (full time employees of public water systems as defined in T.C.A. § 68-221-703 and Department employees who assist with cross connection control training or testing classes are exempt)\$110.....

(b) No registration fee will be returned.

(c) The registration fee must be received thirty (30) days in advance of the class he/she wishes to take.

(3) Fees for Cross Connection Control Testing Application

(a) Fees for Cross Connection Control Testing Application shall be required of each person and paid in advance as follows:

1. Application for a Cross Connection Control Basic Test (Department employees who assist with cross connection control training or testing are exempt)\$60.....

2. Application fee for Cross Connection Control Renewal Test (Department employees who assist with cross connection control training or testing are exempt)\$60.....

(b) Application fees are not refundable or transferable.

(c) The application for testing conducted by the Department must be received a minimum of thirty (30) days in advance of the test he/she wishes to take, however, applications from private institutions may be received the day the test materials are submitted to the Fleming Training Center.

(d) Prior to sitting for a test, an applicant must present proof of completion of training accepted by the Department for the appropriate test. Basic training may be accepted by the Department if it has a minimum class length of 480 minutes (300 minutes minimum in classroom), including but not limited to the following topics: hydraulic and backflow principles, theory of backflow and cross connection, codes and regulations of a cross connection control program, responsibilities and actions in a cross connection control program and mechanical equipment for cross connection control. Acceptable training must also provide a minimum of one working practice station and test kit for each three students. Renewal training may be accepted by the Department if it has a minimum class length of 300 minutes (180 minutes minimum in classroom) including but not limited to the following topics: hydraulic and backflow principles, theory of backflow and cross connection, codes and regulations of a cross connection control program, responsibilities and actions in a cross connection control program and mechanical equipment for cross connection control. Acceptable training must also provide a minimum of one working station and test kit for each three students.

(e) An applicant must take the test within twelve (12) months of receipt of the training certificate.

**Credits**

*Authority:* T.C.A. §§ 4-5-201 et seq., 68-203-101 et seq., 68-221-901 et seq. *Administrative History:* Original rule filed May 21, 2014; effective August 19, 2014. Rule renumbered from 1200-05-03. Amendments filed January 18, 2017; effective April 18, 2017.

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0400-49. Board of Water and Wastewater Operator Certification

Chapter 0400-49-01. Rules Governing Water and Wastewater Operator Certification (Refs & Annos)

Tenn. Comp. R. & Regs. 0400-49-01-.07

0400-49-01-.07 CLASSIFICATIONS AND QUALIFICATIONS OF WATER TREATMENT  
PLANT OPERATORS AND WATER DISTRIBUTION SYSTEM OPERATORS.

(1) (a) Grade IV Water Treatment Plant Operator - Certification as an operator in this classification will be made only upon the satisfactory completion by the applicant of the requirements of either part 1 or 2 of this subparagraph.

1. An applicant must have a bachelor degree in engineering, chemistry or a related science from an accredited college or university, must have twelve (12) months of operating experience at a Grade III or a Grade IV Water Treatment plant, and must satisfactorily complete a written examination.
2. An applicant must have a high school education or equivalent, must have sixty (60) months of operating experience at a Grade III or a Grade IV Water Treatment plant, and must satisfactorily complete a written examination. Within the discretion of the Board, college course work in related science or engineering courses satisfactorily completed or Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of water treatment satisfactorily completed through schools for operators, correspondence courses, or other special training may be credited toward the required operating experience to a maximum equivalency of thirty-six (36) months.
3. To receive full time operating experience credit, a minimum of 100% of the activities must be work experience duties. The Board reserves the right to adjust calendar months of experience to a reduced number of months of experience where it is obvious that an applicant's experience routinely includes other duties. The Board encourages documented apprenticeship training programs and classroom training provided by the employer to better prepare an operator to make decisions in plant operation to assure public health protection.

(b) Grade III Water Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade III water treatment plant or twelve (12) months at a Grade II and six months at a Grade III, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of water treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 50% of the activities must be work experience duties.

(c) Grade II Water Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade I or a Grade II Water Treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of water treatment satisfactorily

completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.

2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(d) Grade I Water Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade I water treatment plant or a small water system, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of water treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.

2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(e) Small Water System Operator - An applicant must have a high school education or equivalent, and must have three (3) months of experience in a water system classified as a "small water system" and must satisfactorily complete a written examination.

(f) Grades I & II Water Distribution System Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a water distribution system, and must satisfactorily complete a written examination. Board sanctioned comprehensive training including installation, operation, maintenance and repair of distribution systems, satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.

2. To receive full time operating experience credit, a minimum of 50% of the activities must be work experience duties.

(2) Reclassifications Resulting from Amendments of this Chapter

(a) The reclassification of a water treatment plant or a water distribution system that immediately occurs as a result of amendments to this chapter shall not reduce the operator classification of a certified operator then employed at that plant or system to a lower operator classification.

(b) The reclassification of a water treatment plant or a water distribution system that immediately occurs as a result of amendments to this chapter shall raise the operator classification of a certified operator then employed at that plant or system to a higher operator classification equivalent with the new classification of the plant or system. This subparagraph shall apply only to a certified operator whose operator classification, immediately prior to reclassification of the plant or system pursuant to amendments to this chapter, is at least equivalent with the classification of the plant or system at which he/she is employed.

(c) An applicant for examination who is employed at a water treatment plant or a water distribution system that has been reclassified by the Department and certified at the appropriate level may have his/her experience at the facility applied at a rate equal to the level of the reclassified facility.

(d) An operator classification authorized under prior rules that is eliminated upon amendments to this chapter becoming effective shall be reclassified to the highest comparable operator classification authorized under these rules.

(e) An operator's classification may be changed by the Board if the operator is employed at a water plant or distribution system that has been incorrectly classified by the Department for one year or more. The operator must hold a valid certificate equal to the incorrect plant or system classification and must have applied for and achieved the certificate based on the incorrect classification.

(3) Operating Experience Credit for Approved Study

(a) For part (1)(a)2 of this rule, the Board may approve for each one (1) semester hour, or one and one half (1½) quarter hours, of academic study satisfactorily completed at an accredited college or university in related science or engineering courses as equal to one month of the operating experience required as a qualification of a certified water treatment plant operator.

(b) For parts (1)(a) 2, (1)(b) 1, (1)(c) 1, (1)(d) 1, and (1)(f) 1 of this rule, each day of Board sanctioned comprehensive training, satisfactorily completed, through schools for operators, correspondence courses, or other special training programs may be equal to one month of the operating experience required as a qualification of a certified water treatment plant operator.

(4) Work Experience

(a) The Board may approve the water treatment operating experience required in parts (1)(a)1, (1)(a)2, (1)(b)1, (1)(c)1, and (1)(d)1 of this rule in two or more of the following work experience duties:

Operation and/or maintenance of:

Pretreatment systems

Coagulant feed systems

Filtration systems

Fluoride feed systems

Stabilization feed systems

Hypochlorination systems

Gas chlorination systems

Pumps and/or motors

Laboratory Control Tests

Interpretation and plant adjustments

(b) An operator applying for a Grade IV water treatment system certification may be granted partial credit by the Board for up to sixty percent (60%) of any approved operating experience obtained in a wastewater system.

(c) The Board may approve the distribution system operating experience required in part (1)(f) 1 of this rule in two or more of the following work experience duties:

Operation and/or maintenance of:

Pumps

Booster stations

Fire hydrants

Valves

Storage tanks

Distribution system flushing

Pipeline installation

Tap installation

Leak detection

Leak repairs

Cross connection control

(5) Summary of Water Treatment Plant and Distribution System Operator Education and Experience Requirements

Water Treatment Plant Operators

Classification	Experience	Maximum Training or College Classwork Substitution	Maximum Related Work Substitution
	Experience needed with:	HS Education	BS Degree
Grade IV	Gained at a Grade III or IV Water Plant	[FNa]60 months	12 Months
			36 Months
Grade III	Gained at a Grade III Water Plant	12 Months	
			36 Months
	Gained at a Grade II and	12 Months	
			3 Months
	Gained at a Grade III	6 Months	
			3 Months

Grade II	Gained at a Grade I or II Water Plant	12 Months	3 Months
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Grade I	Gained at a Grade I Water Plant or SWS	12 Months	3 Months
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Grade SWS	Gained at a Small Water System (SWS)	3 Months	
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a. Regardless of the substitution allowances, a minimum of 1 year of actual work experience is required

### Distribution System Operators

Classification	Experience	Maximum Training or College Classwork Substitution
	Experience needed with:	HS Education
Grade II	Gained at a Distribution I or II System	12 Months 3 Months
Grade I	Gained at a Distribution I or II System	12 Months 3 Months

#### Credits

**Authority:** T.C.A. §§ 4-5-201 et seq. and 68-221-901 et seq. **Administrative History:** Original rule filed May 21, 2014; effective August 19, 2014. Rule renumbered from 1200-05-03.

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