

Department: Various
Classification: Non-Competitive
Grade: _____

SPEC DISK G5
DOCUMENT 29

WATER AND WASTEWATER TREATMENT PLANT OPERATOR

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for the actual efficient operation and maintenance of a water treatment plant and a wastewater treatment plant and for the maintenance and repair of water and wastewater lines. The work is performed in accordance with policies determined by the Town Board. Supervision may be exercised over the subordinate employees in the performance of their assigned duties. The incumbent does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

Operates pumps, valves, motors and related machinery and equipment;
Makes minor repairs to machinery and equipment;
Records readings of meters, gauges and scales;
Takes samples of water and wastewater for testing;
Regulates and adjusts chlorinators for water and wastewater plants;
Cleans sludge beds and assists in the disposal of dried sludge;
Repairs water mains, service lines, valves and hydrants;
Cleans and releases plugged and broken wastewater lines;
Keeps a log of plant operations and related records;
Performs custodial duties in connection with maintenance of buildings and grounds.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the practices used and the equipment required in the operation and maintenance of a Type B water treatment plant with facilities for the application to the water of chemicals having a direct health significance such as chlorine or chlorine compounds, fluoride compounds or the process of dechlorination or any similar process and in a Type C wastewater treatment plant with facilities for plain settling or the use of an Imhoff tank or the use of a stabilization or oxidation pond; working knowledge of the principles and applications of physics, chemistry and bacteriology as they relate to water purification and to wastewater treatment and disposal; skill in the operation and repair of pumps, valves and related mechanical and electrical equipment; ability to read, understand and record data from gauges, scales and meters; ability to carry out oral and written directions; mechanical aptitude; alertness and dependability; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS FOR WATER TREATMENT PLANT: Either:

(a) Type IA Water Treatment Plant with facilities for filtration which treats over 2.5 MGD (million gallons per day).

(IA plant requires operators with IIA minimum qualifications)

IIA requires High School Diploma or New York State Equivalency Diploma and successful completion of appropriate level water treatment operator courses; and one year of acceptable

operating experience at a water treatment plant with facilities for filtration.
WATER AND WASTEWATER TREATMENT PLANT OPERATOR - Continued

(b) Type IIA Water Treatment Plant with facilities for filtration which treats 2.5 MGD or less.

(IIA plant requires operator with IIA minimum qualifications)

IIA requires High School Diploma or New York State Equivalency Diploma and successful completion of appropriate level water treatment operator courses; and one year of acceptable operating experience at a water treatment plant with facilities for filtration.

(c) Type IB Water Treatment Plant without facilities for filtration which treats over 2.5 MGD.

(IB plant requires operators with IIB minimum qualifications)

IIB requires High School Diploma or New York State Equivalency Diploma and successful completion of appropriate level water treatment operator courses; and one year of acceptable operating experience at a water treatment plant.

(d) Type IIB Water Treatment Plant without facilities for filtration which treats 2.5 MGD or less and serves more than 1,000 people.

(IIB plant requires operators with C minimum qualifications)

C plant requires successful completion of appropriate level water treatment operator courses; and six months of acceptable operating experience at a water treatment plant.

(e) Type C Water Treatment Plant (without facilities for filtration) and/or a Distribution System that serves 1,000 people or less.

No required minimum qualifications.

(f) Type D - Distribution System (all systems)

No required minimum qualifications.

WATER TREATMENT PLANT GRADES

Adrian Acres West	C
AuSable Acres	C
AuSable Water District	IIB
Bloomington Village Water Supply	IIA
Claymore Homes	No Treatment Necessary
Crown Point Water District	C
Elizabethtown Water District	IIB
Essex Water District	C
Graeff Water Supply	No Treatment Necessary
Jay Water District	C
Keene Water District #1	C
Keene Water District #2	C
Keeseville Village Water Supply	IIB

Lake Placid Village Water Supply IIB
WATER AND WASTEWATER TREATMENT PLANT OPERATOR - Continued

WATER TREATMENT PLANT GRADES - Continued

Lewis Water District	C
Minerva Water District	C
Moriah Water District #1	IIA
Moriah Water District #2	IIA
New Russia Water District	C
Port Henry Village Water Supply	IIA
Port Kent Water Supply	No Treatment Necessary
Ray Brook Water District	C
Schroon lake Water District	IIB
Schroon River Union	C
Ticonderoga Village Water Supply	IIB
Upper Jay Water District	C
Wadhams Water District	C
Westport Village Water Supply	No Treatment Necessary
Willsboro Water District	IIA
Wilmington Water District	IIB
Winebrook Hills Water District	IIA

An operator possessing a license higher than a plant grade can operate the lower grade plant, i.e. a IIB operator can operate a C grade plant.

MINIMUM QUALIFICATIONS FOR WASTEWATER TREATMENT PLANT: Either:

- (a) Type A Treatment Plants with activated sludge process (including all modifications)
High school or high school equivalency diploma; and appropriate course of instruction approved by the State Department of Environmental Conservation; and
- (I-A plant requires operators with II-A minimum qualifications)
II-A requires six months operating experience at a plant with facilities equivalent to Type A plant, with ability to make necessary tests.
- (II-A plant requires operators with III-A minimum qualifications)
III-A requires three months operating experience at a plant with facilities equivalent to Type A plant, with ability to make necessary tests.
- (III-A plant requires operators with III-A minimum qualifications)
III-A requires three months operating experience at a plant with facilities equivalent to Type A plant, with ability to make necessary tests.

WATER AND WASTEWATER TREATMENT PLANT OPERATOR - Continued

- (b) Type B Treatment Plants with chemical precipitation or sludge vacuum filtration or sludge incineration or sludge oxidation or separate sludge digestion or biological oxidation process. High school or high school equivalency diploma; and appropriate course of instruction approved by the State Department of Environmental Conservation; and

(I-B plant requires operators with II-B minimum qualifications)

II-B requires six months operating experience at a plant with facilities equivalent to Type B plant, with ability to make necessary tests.

(II-B plant requires operators with III-B minimum qualifications)

III-B requires three months operating experience at a plant with facilities equivalent to type B plant, with ability to make necessary tests.

(III-B plant requires operators with III-B minimum qualifications)

III-B requires three months operating experience at a plant with facilities equivalent to type B plant, with ability to make necessary tests.

- (c) Type C Treatment Plants with Settling Tank (plain or septic or Imhoff) or stabilization or oxidation pond.

High school or high school equivalency diploma; and appropriate course of instruction approved by the State Department of Environmental Conservation; and

(II-C plant requires operators with III-C minimum qualifications)

III-C requires two months operating experience at a plant with facilities equivalent to Type C plant, with ability to make necessary tests.

(III-C plant requires operators with III-C minimum qualifications)

III-C requires two months operating experience at a plant with facilities equivalent to Type C plant, with ability to make necessary tests.

WASTEWATER TREATMENT PLANT GRADES

Lake Placid	I-A	Winebrook Hills SD	III-A
Saranac Lake	I-A	Keeseville	III-B
Schroon Lake	II-A	Port Henry (future)	III-B
Ticonderoga	II-A	Port Henry	III-C
Westport	II-A	Moriah SD 1&2	III-C
		St. Armand	III-C