

**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

**Quabbin Wire & Cable Company, Inc.**

is authorized to discharge from the facility located at

**Quabbin Wire & Cable Company, Inc.  
10 Maple Street  
Ware, Massachusetts 01082**

to the receiving water named

**Ware River  
(Chicopee River Watershed MA 36)**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on the first day of the calendar month immediately following 60 days after signature.

This permit and the authorization to discharge expire at midnight five years from the last day of the month preceding the effective date of the permit.

This permit supersedes the permit issued on August 14, 1997.

This permit consists of 6 pages in Part I including effluent limitations, monitoring requirements, 9 pages in Attachment A Freshwater Acute Toxicity Test Procedure and Protocol, and 25 pages in Part II Standard Conditions.

Signed this 22<sup>nd</sup> day of February, 2007

/S/ SIGNATURE ON FILE

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Stephen S. Perkins, Director  
Office of Ecosystem Protection  
Environmental Protection Agency  
Boston, MA

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Glenn Haas, Director  
Division of Watershed Management  
Department of Environmental Protection  
Commonwealth of Massachusetts  
Boston, MA

**PART I**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge contact cooling water from **outfall serial number 003** to the Ware River. Such discharges shall be limited and monitored as specified below.

PARAMETER	Units	EFFLUENT LIMITS		MONITORING REQUIREMENTS	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type <sup>1</sup>
Flow <sup>2</sup>	MGD	0.0082	0.020	Continuous	Recorder
Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/l	----	26	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Oil & Grease	mg/l	----	15	Quarterly <sup>3</sup>	Grab
Total Suspended Solids (TSS)	mg/l	----	19	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Temperature	°F	----	83	Monthly <sup>3</sup>	Grab
pH Range <sup>4</sup>	s.u.	----	6.5-8.3 s.u.	Monthly <sup>3</sup>	Grab
Total Copper <sup>8</sup>	mg/l	----	Report	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Total Lead <sup>8</sup>	mg/l	----	Report	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Total Zinc <sup>8</sup>	mg/l	----	Report	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Total Antimony	mg/l	----	Report	Quarterly <sup>3</sup>	Composite <sup>7</sup>
Whole Effluent Toxicity (WET) <sup>5</sup>					
LC <sub>50</sub> <sup>6,7</sup>	%	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Hardness	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Solids	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Ammonia	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Cadmium	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Chromium	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Lead <sup>9</sup>	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Copper <sup>9</sup>	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Zinc <sup>9</sup>	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Nickel	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Aluminum	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Magnesium	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>
Total Calcium	mg/l	----	Report	2/year <sup>6</sup>	Composite <sup>8</sup>

See page 3 for explanation of footnotes.

Footnotes:

1. The effluent samples for outfall 003 shall be collected at the discharge point to the Ware River. Any changes in sampling location must be approved in writing by EPA and MassDEP. All samples shall be tested in accordance with the procedures in 40 Code of Federal Regulations (CFR) §136, unless specified elsewhere in the permit.
2. The permittee shall report the estimated average and maximum daily flow (MGD) for each sampling period. The flow measurements are based on daily pumping rate of the on-site wells.
3. Sampling frequency of 1/month is defined as the sampling of one (1) event in each calendar month. Sampling frequency of quarterly is defined as the interval of time between the months of January through March, inclusive; April through June, inclusive; July through September, inclusive; and October through December, inclusive. The permittee shall submit the results to EPA and MassDEP of any additional testing done to that required herein, if it is conducted in accordance with EPA approved methods consistent with the provisions of 40 CFR §122.41 (l)(4)(ii).
4. See paragraph I.A.3 on page 4.
5. All analyses required to conduct the WET tests shall be completed and documented. However, only those listed below shall be reported in Discharge Monitoring Reports submitted to EPA and MassDEP.
6. The LC<sub>50</sub> (Lethal Concentration 50 percent) is the concentration of wastewater (cooling water discharges) causing mortality to 50 percent (%) of the test organisms.
7. The permittee shall conduct acute toxicity tests twice during the first full year following the effective date of the permit. The permittee shall test the daphnid, *Ceriodaphnia dubia*, only. Toxicity test samples shall be collected during June and September. The test results shall be submitted by the last day of the month following the completion of the test. The tests must be performed in accordance with test procedures and protocols specified in Attachment A of this permit. If the results of both toxicity tests indicate no toxicity, then no further toxicity testing will be required for the remainder of the effective period of the permit. If toxicity is indicated, then WET tests shall continue twice per year for the duration of the effective period of the permit.
8. A composite sample is a sample consisting of a minimum of eight grab samples collected at equal intervals during a normal eight hour workday.
9. Copper, lead and zinc analyses conducted for the wet chemistry portion of the whole effluent toxicity test may also be submitted to satisfy the quarterly sampling requirements for those metals.

## Part I.A (Continued)

2. The discharge shall not cause a violation of the water quality standards of the receiving waters.
3. The pH of the effluent shall not be less than 6.5 nor greater than 8.3 at any time, unless these values are exceeded as a result of an approved treatment process. Report the minimum and maximum values.
4. The discharge shall not cause objectionable discoloration of the receiving waters.
5. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.
6. The discharge shall not contain materials in concentrations or combinations which are hazardous or toxic to human health, aquatic life of the receiving waters or which would impair the uses designated by its classification.
7. The discharge shall not impart taste, turbidity, toxicity, radioactivity, or other properties which cause those waters to be unsuitable for the designated uses and characteristics ascribed to their use.
8. Notwithstanding specific conditions of this permit, the effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.
9. Chemicals (i.e. disinfecting agents, detergents, emulsifiers, etc.), bioremedial agents, including microbes, shall not be added to the cooling water without prior approval by the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP) to prevent hydrocarbon and/or particulate matter carryover into the Ware River.
10. EPA may modify this permit in accordance with EPA regulations in 40 CFR §122.63, to incorporate more stringent effluent limitations, increase the frequency of analyses, or impose additional sampling and analytical requirements.
11. The results of sampling for any parameter above its required frequency must also be reported.
12. Toxics Control
  1. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
  2. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.
13. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
  1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - i. One hundred micrograms per liter (100 µg/l);

- ii. Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
  - iii. Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
  - iv. Any other notification level established by the Director in accordance with 40 CFR 122.44(f).
2. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, or a toxic pollutant is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
  - i. Five hundred micrograms per liter (500 µg/l);
  - ii. One milligram per liter (1 mg/l) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant reported in the permit application in accordance with 40 CFR 122.21(g)(7); or
  - iv. Any other notification level established by the Director in accordance with 40 CFR 122.44(f).
3. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

## **B. UNAUTHORIZED DISCHARGES**

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from outfall 003 listed in Part I.A.1 of this permit. Discharges of wastewater from any other point sources are not authorized by this permit and shall be reported in accordance with Section D.1.e. (1) of the General Requirements of this permit (Twenty-four hour reporting).

## **C. SPECIAL CONDITIONS AND REQUIREMENTS**

This permit may be modified, or revoked and reissued, on the basis of new information in accordance with 40 CFR §122.62.

## **D. MONITORING AND REPORTING**

Monitoring results obtained during each calendar month shall be summarized and reported on Discharge Monitoring Report Forms postmarked no later than the 15th day of the following month following the effective date of the permit.

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director and the State at the following addresses:

Environmental Protection Agency  
Water Technical Unit (SEW)  
P.O. Box 8127  
Boston, Massachusetts 02114

The State Agency is:

Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention  
Western Regional Office  
436 Dwight Street  
Springfield, MA 01103

Signed and dated Discharge Monitoring Report Forms and toxicity test reports required by this permit shall also be submitted to the State at:

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
Surface Water Discharge Permit Program  
627 Main Street, 2nd Floor  
Worcester, Massachusetts 01608

#### **E. STATE PERMIT CONDITIONS**

This discharge permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP) under federal and state law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the MassDEP pursuant to M.G.L. Chap. 21, §43.

Each agency shall have the independent right to enforce the terms and conditions of this permit. Any modification, suspension or revocation of this permit shall be effective only with respect to the agency taking such action, and shall not affect the validity or status of this permit as issued by the other agency, unless and until each agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this permit is declared, invalid, illegal or otherwise issued in violation of state law such permit shall remain in full force and effect under federal law as an NPDES permit issued by the U.S. Environmental Protection Agency. In the event this permit is declared invalid, illegal or otherwise issued in violation of federal law, this permit shall remain in full force and effect under state law as a permit issued by the Commonwealth of Massachusetts.