

INSTRUCTIONS FOR THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) NOTICE OF INTENT (NOI) - GENERAL PERMIT FOR NON-CONTACT COOLING WATER DISCHARGES

Who Must File A Notice of Intent (NOI) Form

Discharges of non-contact cooling water to Waters of the State are prohibited without a Rhode Island Pollutant Discharge Elimination System (RIPDES) permit. The owner/operator of a facility that has such a discharge must submit a Notice of Intent (NOI) and obtain coverage under the RIPDES General Permit prior to discharge. If you have questions about whether you need a permit, contact the RI Department of Environmental Management, RIPDES Program at 401-222-4700. An originally signed NOI form must be sent to:

RIDEM - Office of Water Resources
RIPDES Program
235 Promenade Street
Providence, Rhode Island 02908

Please be sure to keep a copy for your files.

Section I - Owner Information

Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the facility described in this application (RIPDES Regulations 250-RICR-150-10 §1.4 & §1.12). The name of the owner may or may not be the same as the name of the facility. Do not use a colloquial name. Enter the complete address, email address, and telephone number of the owner.

Section II - Operator Information

If the operator is the same as the owner, enter "Same as Owner". Give the legal name of the person, firm, public (municipal) organization, or any other entity that operates the facility described in this application (RIPDES Regulations 250-RICR-150-10 §1.4 and §1.12). The name of the operator may or may not be the same as that of the facility. The operator is the entity that controls the day-to-day operation of the facility. Do not use a colloquial name. Enter the complete address, email address, and telephone number of the operator.

Section III – Facility Information

Enter the name and physical address of the facility which is being permitted. Also include the latitude and longitude of the facility (not the outfalls) in decimal degrees using the WGS84 map datum. For example, DEM's location at 235 Promenade Street would be 41.828745, -71.419282. Enter the type of ownership that describes the facility using the provided check boxes. Enter the facility's primary and secondary four-digit Standard Industrial Classification (SIC) Codes that best represent the products produced or activities provided by the facility.

Section IV – Discharge Information

Attach a topographic map, which extends at least one (1) mile beyond the property boundaries of the facility that clearly shows the legal boundaries of the facility and the location of each intake and outfall structure. The NOI must also list the latitude and longitude, in decimal degrees, of the center of each outfall structure. Enter the frequency of non-contact cooling water discharge, the flow

in gallons per minute and, for new discharges, the date on which the facility anticipates initiating discharge. Additional outfalls should be included on a separate sheet if there are more than two.

Section V - Receiving Water Information

The receiving water habitat type, water quality classification, 303(d) listings, and TMDL status can be determined by following these steps:

- Step 1: Go to: <http://www.dem.ri.gov/maps/index.htm>
- Step 2: Select Environmental Resource Map.
- Step 3: Select the "Surface_Water" Folder listed under the LAYERS heading.
- Step 4: Input the facility address in the search bar in the upper left-hand corner of the screen. This will zoom to the facility area, and the permittee may select (click on) the relevant water body section from there. Alternatively, select the Zoom from icons listed on the left-hand legend and zoom in to the area in the vicinity of the discharge and the ultimate receiving water body. After selecting the receiving water a pop-up box will appear with the name of the selected waterbody, the waterbody ID, what impairments the waterbody may be listed for, any TMDLs that the waterbody may be listed for, and the Water Quality Standard (Classification, warm vs. cold).

Also identify the discharge pathway (part a of Section V), whether the discharge is directly to the receiving water body, indirectly discharging, discharging to a storm drain, etc. Also provide a narrative description of the discharge pathway, stating briefly the path the discharge takes from the facility to the receiving water body.

Section VI - Non-Contact Cooling Water System Information

If the source of non-contact cooling water is from a private well, check the "Private well water" box.

If the facility uses municipal well water for non-contact cooling water, check the "Municipal water supply" box. Note that if the municipal water supply box is checked, the facility is required to monitor for Total Residual Chlorine and must also:

- i. Complete the dilution worksheet, if discharging to a Freshwater body (See Section VII).

Attach a line drawing of the facility that identifies the flow of non-contact cooling water through the facility from intake to discharge. The line drawing must clearly identify the source of the non-contact cooling water. Also attach a description (i.e., a brief narrative and cut sheets/ drawings) of the type of equipment that the non-contact cooling water is used for.

Section VII - Dilution Factor

NOTE: Section VII must be completed by **all** facilities discharging to flowing Freshwater bodies. Discharges to saltwater bodies, lakes, ponds, and wetlands are given a dilution factor of one (1).

Complete the attached worksheet to determine the 7-day 10 year (7Q10) flow at the point of discharge and the dilution factor. The worksheet includes information on StreamStats, used to determine the relevant information for obtaining the 7Q10 of a given waterbody. Enter the 7Q10 in the box labeled "Receiving water 7Q10". Enter the dilution factor and the total combined system design flow in the appropriate boxes. The total combined treatment system design flow is the sum of the non-contact cooling water flows and the allowable discharge water flows for all outfalls. Please note that DEM shall use a dilution factor of one (1) for all discharges to saltwater bodies, lakes, ponds, and wetlands. DEM also reserves the right to specify the dilution factor to be used in a given watershed.

If a point of discharge is located in a watershed without a USGS gage that StreamStats doesn't compile a report for, then one of the following methods may be used to estimate the 7Q10:

1. USGS Report 95-4299, *Low-Flow Characteristics of Selected Streams in Northern Rhode Island*.

This report uses an equation based on statistical methods to estimate the 7Q10 flow of selected streams with partial record stations. Flow data from an index station is required.

2. USGS Report 93-4046, *Low-Flow Characteristics of Selected Streams in Rhode Island*.

This report provides an equation to estimate the 7Q10 flow at ungauged sites based on the drainage area and the distribution of geologic materials in the drainage area. The areas of the drainage basin underlain by coarse-grained stratified drift and underlain by till-covered bedrock are required to use this method.

3. USGS Report 93-4092, *Effects of Surficial Geology, Lakes and Swamps, and Annual Water Availability of Low Flows of Streams in Central New England and Their Use in Low-Flow Estimation*.

This report contains equations to estimate the 7Q10 flow using information regarding surficial geology, area of swamps and lakes, mean basin elevation, mean runoff, main stream length channel, and drainage basin area.

These reports can be obtained by contacting the USGS at: U.S. Geological Survey, Earth Science Information Center, Open-File Reports Section, Box 25286, MS 517, Denver Federal Center, Denver, CO, 80225.

Section VIII – Allowable Discharge Information

Identify any allowable discharges that are discharged from the facility.

Section IX – Chemical Additive Certification

Provide certification that no chemical additives are added to the discharge. Note: If chemical additives are used, the discharge is not eligible for coverage under the General Permit.

Section X - Owner/Operator Certification

State and Federal statutes provide for severe penalties for submitting false information on this application form and require this application to be signed as follows (RIPDES Regulations 250-RICR-150-10 §1.12):

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor;

For a Municipality, State, Federal or other public facility: by either a principal executive officer or ranking elected official.