

REGISTRATION STATEMENT FOR THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) GENERAL PERMIT FOR NONCONTACT COOLING WATER DISCHARGES OF 50,000 GALLONS PER DAY OR LESS (VAG25)

Please Type or Print all information

A. APPLICANT INFORMATION

1. Name of Facility: _____

Facility Address: _____

Street No., Route No., or Other Identifier

County

2. Facility Owner: _____

Owner's Mailing Address: _____

Street or P.O. Box

City, State and Zip Code

Phone Number

Email Address

3. Is the operator of the facility also the owner? Yes _____ No _____ If "No", complete 4.

4. Name of Operator: _____

Operator's Mailing Address: _____

Street or P.O. Box

City, State and Zip Code

Phone Number

Email Address

5. Provide the State Corporation Commission entity identification number, if the facility is required to obtain an entity identification number by law: _____

B. FACILITY INFORMATION

1. Current VPDES permit registration number (if applicable) _____

2. List any point source discharges that are not composed entirely of cooling water

3. List type and size (tons) of cooling equipment or non-contact cooling water process:

Type _____ Size (tons) _____

4. Complete the following if any chemical and/or non-chemical treatment is employed in each of the cooling water systems:

a. Describe the chemical and/or non-chemical treatment to be employed and its purpose;

If chemical additives other than chlorine are used, complete b, c, d, e, f, and g below.

b. Provide name and manufacturer of each additive used;

- c. Provide list of active ingredients and percent composition of each additive;

- d. Give the proposed dosing schedule and quantity of chemical usage, and provide either an engineering analysis or a technical evaluation of the active ingredients to determine the concentration in the discharge of each contaminant;

- e. Attach available aquatic toxicity information for each additive proposed for use;
- f. Attach any other information such as product or constituent degradation, fate, transport, synergies, bioavailability, etc., that will aid the Board with the toxicity evaluation for the discharge; and
- g. Attach the Safety Data Sheet (SDS) for each proposed additive.
5. Describe any type of treatment or retention being provided to the wastewater before discharge (i.e. retention ponds, settling ponds, etc.)

C. FACILITY SCHEMATIC DRAWING

Attach a schematic drawing of the cooling water equipment which shows the source of the cooling water, its flow through the facility, any treatment or retention provided, and each cooling water discharge point.

D. MAP

Attach a United State Geological Survey (USGS) topographic map or equivalent computer generated map extending to at least one mile beyond property boundary. The map must show the outline of the facility, and the location of each of its existing and proposed intake and discharge points. The map must include all springs, rivers, and other surface water bodies.

E. DISCHARGE INFORMATION

1. List all cooling water discharges by a unique number (outfall number) that is the same as on the map required in Question D, if applicable. Identify the source of cooling water (well, municipal water supply, intake, etc.). Estimate the maximum daily discharge flow in gallons per day (gpd). Give the name of the waterbody receiving direct discharge or discharge through the municipal separate storm sewer system. Provide the latitude and longitude of each discharge location.

<u>Outfall Number</u>	<u>Source</u>	<u>Max. Daily Flow (gpd)</u>	<u>Receiving Stream</u>	<u>Latitude/Longitude</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

2. Identify the duration and frequency of the discharge for each separate discharge point:

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3. If any of the facility outfalls discharge to a Municipal Separate Storm Sewer System (MS4) please provide the name of the MS4 owner: _____

If the facility discharges to a MS4, the facility must notify the owner of the MS4 of the existence of the discharge at the time of registration under this permit and include that notification with the registration statement. Please see the attached instructions.

F. COOLING WATER INTAKE STRUCTURE INFORMATION

1. Does this facility withdraw or receive cooling water from a groundwater source, a surface waterbody, or a third party supplier?

Groundwater _____ (Skip to Section G)
Surface Water _____ (Skip to question 4)
Third Party Supplier _____ (Proceed to question 2)

2. Does the third party supplier withdraw from a surface waterbody?

Yes _____ (Proceed to question 3)
No _____ (Skip to Section G)

3. Is the acquired water potable?

Yes _____ (Skip to Section G)
No _____ (Proceed to question 4)

4. Attach a description of the following information:

- a. Source water physical data (water body description, hydrology, chemistry, area of influence of intake structure).
- b. Cooling water intake structure data (screen size, through screen velocity, configuration of intake, flows, water balance diagram, and typical operations).
- c. Source water baseline biological characterization data (any available studies).
- d. Cooling water system data (configuration of the cooling water system and water reuse).
- e. Operational status (description of current and future production schedules).

G. CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Signature _____ Date: _____

Name of person(s) signing above: _____

Printed or Typed

Title(s): _____

REQUIRED ATTACHMENTS

- Aquatic Toxicity Information For Chemical Additives (if applicable)
- Engineering Analysis, or a Technical Evaluation of the Active Ingredients (if applicable)
- Safety Data Sheet (SDS) for each proposed additive (if applicable)
- Facility Schematic Drawing
- Topographic Map
- MS4 owner notification (if applicable)
- Surface Water Intake Structure Information (if applicable)

For Department of Environmental Quality Use Only:

Basin _____ Stream Class _____ Section _____

Special Standards _____

INSTRUCTIONS FOR COMPLETING THE REGISTRATION STATEMENT FOR THE VPDES GENERAL PERMIT FOR NONCONTACT COOLING WATER DISCHARGES \leq 50,000 GPD (VAG25)

WHO MUST FILE THE REGISTRATION STATEMENT

Any facility discharging \leq 50,000 gpd of noncontact cooling water to surface waters may request coverage under this general permit by filing a complete registration statement with DEQ. Discharges through municipal separate storm sewer systems (MS4s) to surface waters are also allowable under this permit.

WHERE TO FILE THE REGISTRATION STATEMENT

The completed registration statement with original signature, a copy of the fee form, and a copy of your check for \$600 should be sent to the DEQ Regional Office serving the area where your facility is located. The original fee form and the original check should be sent to DEQ Receipts Control, P.O. Box 1104, Richmond, VA 23218. Regional office addresses can be obtained from the DEQ website at www.deq.virginia.gov, or by calling the DEQ at (804) 698-4000.

COMPLETENESS

Complete all applicable items, or enter NA for "not applicable". If more space is needed, attach extra sheets as necessary.

DEFINITIONS

"Blowdown" means a discharge of recirculating water from any cooling equipment or cooling process in order to maintain a desired quality of the recirculating water. Boiler blowdown is excluded from this definition.

"Cooling Water" means water used for cooling which does not come into direct contact with any raw product, intermediate product (other than heat) or finished product. For the purposes of this general permit, cooling water can be generated from any cooling equipment blowdown or produced as a result of any non-contact cooling process.

LINE BY LINE INSTRUCTIONS

Section A. APPLICANT INFORMATION

- Item 1: Provide the name and street address of the facility where the cooling equipment is located.
- Item 2: Provide the name, mailing address, etc. of the person or corporation that owns the business. This does not have to be the owner of the building (e.g., if it is leased) but should be a person who is responsible for the business and wants coverage under the general permit.
- Item 3: If someone other than the owner listed in Item 2 runs the plant and is the person with whom business will be conducted, check **No**. Otherwise check **Yes**.
- Item 4: If **No** was checked above, indicate the name, address, etc. of the person who operates the facility.
- Item 5: Provide the State Corporation Commission entity identification number, if required to obtain an entity identification number by law

Section B. FACILITY INFORMATION

- Item 1: Provide the current VPDES permit registration number held by the facility if applicable.
- Item 2: Describe any point source discharges from your facility that are not composed entirely of cooling water.
- Item 3: List type and size (tons) of cooling equipment or non-contact cooling water process. Most cooling equipment will have a manufacturer's identification plate attached which records the Make/Model of the unit. The size of the equipment should be calculated by using the following formula and you may consult with the local representative of the manufacturer to obtain the specific data:

$$\text{Tonnage} = (\text{GPM} \cdot T) / 30$$

Where: GPM = Flow Rate (gallons per minute)

T = 10°F (Standard design temperature change)

- Item 4: The use of any chemical additives, except chlorine, without prior approval is prohibited under this general permit. You should list all chemicals currently used or which you anticipate to use within the life of the permit term. Prior approval shall be obtained from the DEQ before any changes are made to the chemical and non-chemical treatment technology employed in the cooling equipment. The SDS and available aquatic toxicity information for each additive used may be obtained from the manufacturer of the chemical additives. Attach any other information that will aid the DEQ in evaluating the toxicity of the discharge.
- Item 5: Describe any type of treatment or retention (i.e. retention ponds or settling ponds, etc.) of the cooling water prior to discharge.

Section C: FACILITY SCHEMATIC DRAWING

A schematic drawing of the cooling equipment, not of the building facility, should show the source(s) of the cooling water (i.e., municipal water supply, well, etc.), its flow through the cooling system, any treatment or retention provided, and each cooling water discharge point (surface water body or MS4).

Section D: MAP

A map is required for cooling water systems with a direct discharge to surface waters. Maps should be legible and of sufficient scale to show the required features with the site boundaries clearly marked.

Section E: DISCHARGE INFORMATION

- Item 1: List all discharge outfalls by a number, such as 001, 002, etc. Discharge to the receiving stream may be through an MS4. In such cases, identify the receiving stream with a footnote recognizing the owner of the MS4 which the outfall discharges through.
- Item 2: Identify the duration and frequency of the discharge for each separate discharge point.
- Item 3: Indicate if the facility discharges to a municipal separate storm sewer (MS4) and the MS4 owner. If yes, provide the name of the MS4 owner. A list of MS4 owners can be found at the bottom of the web page here: <http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx>
Separate storm sewers are considered connected to surface waters and MS4 owners are required to know about your discharge. MS4 owners must be notified of your discharge before permit coverage is granted. Please include an email or copy of a letter that you sent to the MS4 owner with your registration. The letter to the MS4 owner should contain the name of your facility, a contact person (telephone and email), the location of the discharge, the nature of the discharge and your existing VPDES general permit registration number (if applicable).

Section F: COOLING WATER INTAKE INFORMATION

- Item 1: Indicate the source of cooling water to the facility. If Groundwater is checked, skip to Section G. If Surface Water is checked, skip to Item 4. If Third Party Supplier is checked, proceed to Item 2.
- Item 2: Indicate whether the supplier withdraws from a surface water. If **No**, skip to Section G. If **Yes**, proceed to Item 3.
- Item 3: Indicate whether the acquired water is potable. If **Yes**, skip to Section G. If **No**, proceed to Item 4.
- Item 4: Attach a description of the requested information to the registration statement.

Section G: CERTIFICATION AND SIGNATURE

All registration statements shall be signed as follows:

- 1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- a. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or
 - b. The manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.
- For purposes of this section, a principal executive officer of a public agency includes:
- a. The chief executive officer of the agency, or
 - b. A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.