

WORKSHEET 11.0

COOLING WATER INTAKE STRUCTURES

This worksheet **is required** for all Industrial TPDES permit applications.

Does the facility use water for cooling purposes (contact or non-contact)?

Yes No

If the answer to number 1 above is “No,” **stop here.**

If the answer is “Yes,” please fill out the questions below and the attached Cooling Water Intake Structure E-Reporting Data for each intake structure at the facility.

1. Cooling Water Intake Structure Owner and Operator Information

A. Does the facility own or operate (or both) its own cooling water intake structure(s) that withdraws cooling water from a Waters of the United States?

Yes No

B. Is any of the water the facility uses for cooling purposes provided by a third party?

Yes No

If yes to Item 1.B., identify any third party or parties involved in the distribution of cooling water to the facility and the Actual Intake Flow* for the third-party intake structure (only for third parties that withdraw from a Waters of the United States) in the table provided below (if a third party does not withdraw from a Waters of the United States, indicate “N/A” for Actual Intake Flow and Water of the US Name):

Third Party Provider Name	Actual Intake Flow (MGD)	Water of the US Name

2. Clean Water Act, Section 316(b) Applicability

A. For facilities that obtain cooling water from a third party, do any of the third parties have a Public Water System (PWS) registration number issued by the TCEQ?

Yes No

If **yes**, please provide the PWS registration identification number for each third party on the following page:

**Actual Intake Flow* means the average volume of water withdrawn on an annual basis by the cooling water intake structures over the previous five years.

Third Party Provider Name	Public Water System Registration Number

B. Is all of the water used for cooling purposes at the facility reclaimed water from a WWTP, POTW, desalination plant, or other reclaimed water source(s)?

Yes No

If **yes**, please provide the name of the facility (or facilities) the reclaimed water comes from:

C. Is all of the water used for cooling purposes at the facility recycled into other processes at the facility prior to discharge or disposal?

Yes No

If **yes**, please attach a water balance and narrative statement that describe the recycle process.

3. Applicability to Cooling Water Intake Structure Rules

A. Please identify all cooling water intake structures own or operated (or both) by the facility that withdraws from a Waters of the United States in the spaces provided below, the Designed Intake Flow* (MGD), the Actual Intake Flow use for cooling waters. (See pg. 107 of the instructions)

Cooling Water Intake Structure Identification	Cooling Water Intake Structure Design Intake Flow (MGD)	Actual Intake Flow (MGD)
Total:		

* *Design Intake Flow* (or DIF) means the value assigned during the cooling water intake structure design of the maximum intake flow rate of water the cooling water intake system is capable of withdrawing from a source water body.

B. Is the combined designed intake flow (DIF) for all of the facility's cooling water intake structures that withdraw from Waters of the United States ≥ 2.0 MGD?

Yes No

C. Is 25% or more of the water the facility withdraws on an actual intake flow (AIF) basis used exclusively for cooling purposes? (See pg. 107 of the instructions for how to calculate the percentage of water used for cooling.)

Yes No

4. **Additional Information Required**

A. If "Yes" was checked for Item 2.A., 2.B., or 2.C, no further information is required at this time. The TCEQ may request additional information to determine the applicability of the CWA, Section 316(b), and rules applicable to cooling water intake structures. The TCEQ may request that additional information be submitted, including materials required by 40 CFR § 122.21(r) and entrainment characterization information, depending upon whether CWA Section 316(b) and rules on cooling water intake structures apply to the facility.

B. If "No" was checked for both 3.B. and 3.c., no further information is required. The TCEQ may request additional information to determine if the facility meets Best Technology Available standards for minimizing Adverse Environmental Impact.

C. For all other facilities, complete the worksheets that apply under the following conditions:

For all facilities classified as a "new source (Phase I)," complete Worksheet 11.1.

For all facilities classified as "existing (Phase II)," complete Worksheet 11.2.

WORKSHEET 11.0

Cooling Water Intake Structure E-Reporting Data

Note: For facilities with multiple cooling water intake structures, please copy this form and complete it for each cooling water intake structure.

1. Cooling Water Intake Structure (CWIS) ID* _____
2. Design Intake Flow (MGD) _____
3. Actual Intake Flow (MGD) _____
4. Is the CWIS a Closed Cycle Recirculating System (CCRS)?
 Yes No
5. Please provide the Design Intake Velocity in feet per second of the CWIS below:
_____ ft/s
6. Please provide the Actual Intake Velocity in feet per second of the CWIS below:
_____ ft/s
7. Does the CWIS have an existing offshore velocity cap?
 Yes No
8. Does the CWIS have modified traveling screens?
 Yes No
9. Does the CWIS employ multiple systems of technology for the reduction of impingement, entrainment, or both?
 Yes No

If yes to number 9, please list the technologies employed at the CWIS below:

10. Does the CWIS employ any technologies or operations and maintenance practices as additional measures for the protection of shellfish?
 Yes No

If yes to number 10, please provide a narrative description of the measures in the spaces provided below, or provide an attachment and name it below:

11. Does the CWIS employ any technologies or operations and maintenance practices as additional measures for the protection of other species?

Yes No

If yes to number 10, please provide a narrative description of the measures in the spaces provided below or provide an attachment and name it below:

12. Is this CWIS considered to operate at a de minimis rate of impingement by the applicant?

Yes No

If yes to number 12, provide an attachment to the application that contains the methods of data collection, data collected, and conclusions reached upon review of the data. Provide the attachment number in the space below.

Attachment number: _____

13. Is the CWIS currently deactivated or has it minimized withdrawals as a result of low capacity utilization of the facility?

Yes No

14. Are any alternative approaches to demonstrating or achieving Best Technology Available standards for impingement, entrainment, or both, being requested by the facility for this CWIS?

Yes No

15. Have any Federally-listed threatened and endangered species that might be susceptible to impingement and entrainment by the CWIS been identified?

Yes No

16. Location type (Select one)

- Shoreline intake
 - Flush to shore
 - Recessed
- Intake canal
- Embayment, bank, or cove
- Submerged offshore
- Submerged near shore
- Shoreline submerged

17. Waterbody type (Select one.)

- Ocean
- Estuary
- Freshwater river
- Lake/reservoir

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