



## FORM EU4: COOLING TOWER INFORMATION

Please see instructions on reverse side.

Company Name: \_\_\_\_\_

### COOLING TOWER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

	Tower 1	Tower 2	Tower 3	Tower 4
<b>1. Emission Unit Name</b>				
<b>2. Emission Unit (EU) ID</b>				
<b>3. Tower Type</b> (N: New, U: Unpermitted, M: Modification)	<input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> M	<input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> M	<input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> M	<input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> M
<b>4. Current Permit Number</b> (if applicable)				
<b>5. Tower On-Site Installation Date</b>				
<b>6. Tower Modification Date</b>				
<b>7. Number of Cells in Tower</b>				
<b>8. Tower Maximum Water Flow Rate</b>				
<b>9. Measured Total Dissolved Solids (TDS) Content</b> (if known)				
<b>10. Do You Use Additives in the Water?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

If yes, provide SDS sheets for each additive

<b>11. Are there any mist eliminators?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
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If yes, provide CE ID:

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### STACK/VENT INFORMATION

<b>12. Emission Point (EP) ID</b>				
<b>13. Cell Height from the Ground</b> (ft)				
<b>14. Cell Stack Size</b> (in dia. or in x in)				
<b>15. Cell Rated Air Flow Rate</b> ( <input type="checkbox"/> acfm <input type="checkbox"/> scfm)				
<b>16. Total Rated Air Flow Rate</b> ( <input type="checkbox"/> acfm <input type="checkbox"/> scfm)				
<b>17. Exhaust Exit Temperature</b> (°F)				

### OPERATING LIMITS

**18. Are you requesting any operating limits?**  Yes  No

<b>Operation Hour Limits:</b>				
<b>TDS Limits (ppm):</b>				
<b>Material Usage Limits:</b>				
<b>Other:</b>				

**Rationale for Requesting the Limit(s):** \_\_\_\_\_

## Instructions for Form EU4: Cooling Tower Information

- This form is intended for cooling towers and should be used in place of forms EU, EP, and CE.
  - Up to four cooling towers may be applied for on this form. If more than four towers are being installed, please complete an additional Form EU4.
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### Understanding EU4 Form Information: Each number provides an explanation for the corresponding field on the form.

**Company Name:** This is useful if application pages become separated.

#### Cooling Tower Description and Specifications

1. **Emission Unit Name:** Provide the name of the emission unit, such as "Tower 1," "Cooling Tower," etc.
2. **Emission Unit (EU) ID:** Called the emissions unit (EU) identification (ID). It can be any combination of letters or numbers up to 16 characters in length. The ID should match the ID for this equipment used on previous construction permit applications and within this application. If also submitting an operating permit application, the ID used in this application should be consistent with those used in the operating permit application.
3. **Tower Type:** Mark the type of cooling tower, such as a new cooling tower to be constructed, an existing cooling tower (as-built) needing a permit for the first time, or a cooling tower that already has an existing construction permit that you are requesting be modified.
4. **Current Permit Number:** If this is a modification to a cooling tower with an existing construction permit, provide the current construction permit number for the cooling tower.
5. **Tower On-Site Installation Date:** Provide the date when on-site installation of the equipment began or will begin, including the month and year.
6. **Tower Modification Date:** Provide the month and year of last modification. In the case of proposed modification, provide the best estimate of modification date. For the purpose of this form, **Modification** means any physical change or change in method of operation of any existing equipment or control equipment.
7. **Number of Cells in Tower:** Provide the number of cells in this cooling tower.
8. **Tower Maximum Water Flow Rate:** Provide the total maximum water flow rate of this cooling tower and the units of measure used to describe that flow rate (e.g. gallons per minute, gallons per hour, etc.).
9. **Measured TDS Content:** If data is available, provide the maximum Total Dissolved Solids (TDS) content of the water.
10. **Additives in the Water:** If any additives are used in the water (biocide, chromium, anti-corrosion agents, etc.) provide a Safety Data Sheet (SDS) for each additive. Indicate the amount of additive used in gallons per month. SDS can be obtained from the additive supplier.
11. **Mist Eliminators:** Indicate if there are mist eliminators associated with the cooling tower. If so, complete a Form CE8 for each mist eliminator and provide the corresponding CE ID.

#### Stack/Vent Information

12. **Emission Point (EP) ID:** Provide the emission point (EP) ID for the stack/vent. It can be any combination of letters or numbers up to 16 characters in length. The ID should match the ID for this equipment used on previous construction permit applications and within this application. If also submitting an operating permit application, the ID used in this application should be consistent with those used in the operating permit application.
13. **Cell Height from the Ground:** Provide the height in feet of the top of the cell(s) from the ground.
14. **Cell Stack Size:** Provide size of the cell openings. It could be inches diameter for circular openings, or inches times inches for rectangular, square, or other shapes.

15. **Cell Rated Air Flow Rate:** Indicate the rated exhaust flow rate in either actual or standard cubic feet (check the appropriate box) for each cell in the cooling tower.
16. **Total Rated Air Flow Rate:** Indicate the rated exhaust flow rate in either actual or standard cubic feet (check the appropriate box) for the entire cooling tower.
17. **Exhaust Exit Temperature:** Provide the temperature of the exhaust at the cooling tower in degrees Fahrenheit.

**Operating Limits**

18. **Operating Limits:** If you wish to have permit limits placed on the cooling tower, mark "Yes." Then, check each type of limit that you would like applied to this emission unit and provide the requested limit. For example, operating hour limits may be in terms of hours per year; material usage limits may be in gallons of additive per year. If you are not sure about a requested operating limit, contact the Air Quality Bureau at 1-877-AIR-IOWA.