



# COOLING TOWER EFFICIENCY PROGRAM INSPECTION FORM

Section 1126.0.1 of the city's [Local Amendments to the 2015 Uniform Mechanical Code](#) requires cooling towers to be inspected annually for compliance with water efficiency standards and equipment requirements and the inspection forms sent to Austin Water.

## INSPECTION FORM DUE DATES

- Must be submitted by March 1<sup>st</sup> of each year with the **first form due by March 1, 2018**
  - o Inspections must be performed no more than 90 days before the March 1<sup>st</sup> due date
- Forms must be completed and signed by either:
  - o an independent third party Texas licensed mechanical or chemical engineer;
  - o a person holding a TDLR Texas Air Conditioning and Refrigeration License (*Class A*) with a combined endorsement for process cooling and refrigeration; or
  - o other persons approved by Austin Water for performance testing of cooling towers

## EFFICIENCY STANDARDS & EQUIPMENT REQUIREMENTS

- **All cooling towers installed after December 31, 2007 that use Austin Water potable water** must have:
  - o Make-up and blow down sub-meters;
  - o A conductivity controller;
  - o A drift eliminator with a drift rate of not more than 0.005% of the circulated water flow rate for cross-flow towers and 0.002% for counter flow towers;
  - o An overflow alarm; and
  - o Achieve at least 5 cycles of concentration
- **New facilities** (*building permit application submitted after September 5, 2017*) **with 100 tons or greater combined cooling tower capacity:**
  - o Must have the make-up and blow down meters and overflow alarm connected to the building's Central Energy Management System or Utility Monitoring Dashboard; and
  - o The facility must have a water storage tank, plumbing and treatment system to either:
    - Utilize blow down water for wash down, cleaning, toilet flushing, subsurface irrigation and other authorized purposes; or
    - Offset a minimum of 10% of the makeup water with reclaimed or onsite alternative water sources

## CHECKLIST

- Have an approved licensed inspector (*see Inspection Form Due Dates for requirements*) complete and sign a separate Inspection Form and Cycles of Concentration Worksheet (*see page 2*) for each cooling tower site
  - All information is required. Austin Water will not accept incomplete forms.
- Submit completed Inspection Forms to Austin Water by the March 1 deadline.  
**Mail:** Austin Water Conservation, PO Box 1088, Austin, TX 78767  
**Email:** [watercon@austintexas.gov](mailto:watercon@austintexas.gov)  
**Fax:** 512-974-3504  
**In Person:** 625 E. 10<sup>th</sup> Street, Suite 615 Austin, Texas 78701

## RESOURCES

- [Cooling Tower Efficiency Program Frequently Asked Questions](#)
- [Cycles of Concentration Worksheet](#)

**COOLING TOWER EFFICIENCY PROGRAM – INSPECTION FORM****CUSTOMER INFORMATION**

Austin Water Account Number: \_\_\_\_\_ Backflow Serial Number: \_\_\_\_\_

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

Tower Site Name (Ex. North Tower or Store #53): \_\_\_\_\_

Property Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Mailing Address (if different): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Site Management Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**COOLING TOWER INFORMATION**

Cooling Tower:	Make & Model: _____
	Size (tons): _____ Date Installed: _____
	Water Source(s): _____
	Cycles of Concentration: Complete & Submit the <a href="#">Cycles Of Concentration Worksheet</a>

Make & Model of the Following:	Conductivity Controller: _____
	Drift Eliminator: _____
	Overflow Alarm: _____

Make-Up Meter:	Model Number: _____ Serial Number: _____
	Meter Units of Measure: <input type="checkbox"/> Gallons <input type="checkbox"/> Cubic Feet <input type="checkbox"/> Pounds <input type="checkbox"/> CCF

Blowdown Meter:	Model Number: _____ Serial Number: _____
	Meter Units of Measure: <input type="checkbox"/> Gallons <input type="checkbox"/> Cubic Feet <input type="checkbox"/> Pounds <input type="checkbox"/> CCF

Yes  No Are makeup / overflow meters and overflow alarm connected to the building's central energy management system or utility monitoring dashboard?

Yes  No Is cooling tower blowdown reused for on-site beneficial uses?

Yes  No Is any make-up water supplied by reclaimed or on-site auxiliary water sources?

**INSPECTOR'S STATEMENT & SEAL**

I certify that all statements and representations contained in this form are true, correct and complete.

Inspector's Name: \_\_\_\_\_ License Type/ Number: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Seal: \_\_\_\_\_