



LEED 2009 for Existing Buildings: Operations & Maintenance

WE CREDIT 4.2: COOLING TOWER WATER MANAGEMENT

NONPOTABLE WATER SOURCE USE

All fields and uploads are required unless otherwise noted.

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

The following submittals for WE Credit 4.2 are linked to those for WE Credit 4.1. If the project team is not pursuing WE Credit 4.1, complete the following submittals.

Cooling Tower Performance period start:

Invalid Date range: The performance period must be between 89 and 731 days, and must end within 90 days of the overall project performance period given in the Project Information section.

Cooling Tower Performance period end:

Number of cooling towers in place and capable of serving the building during the performance period:

towers

Number of cooling towers in operation and actually serving the building during the performance period:

towers

NOTE: Generally both the above numbers will be the same unless some towers are not needed during the performance period because of field conditions, i.e., winter season, temporary vacancies, etc.

MAKE UP WATER MEASUREMENT PROGRAM

- ☐ The cooling tower(s) have a measurement program in place that verifies makeup water quantities used from non-potable sources.

Total number of cooling tower makeup water meters:

meters

Of the total above:

Number of cooling tower makeup water meters owned by a third party entity (utility, government or similar) is:

meters

Cooling tower makeup water meters owned by the project building owner, tenant or property manager:

meters

Upload WEc4.2-1. Provide a dated summary calibration report verifying proper functioning of each of the cooling tower makeup water meters owned by the project building owner, tenant or property manager. The report must be within the manufacturers recommended interval, as measured from the conclusion of the performance period (e.g., if the recommended calibration interval is five years, calibration must have occurred within five years of the end of the performance period).

NOTE: For meters where manufacturers recommend replacement instead of calibration provide documentation to show proof of purchase date and the manufacturer's meter replacement program.

The following submittals for WE Credit 4.2 are linked to those for WE Credit 1. If the project team is not pursuing WE Credit 1, complete the following submittals with respect to cooling towers only.

Table. Cooling Tower Subsystem Meter Data

Unique Cooling Tower Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Cooling Towers)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total cooling tower meter coverage (must be 100%) (%)			
Total cooling tower potable water use during performance period (kGal)			
Total cooling tower Nonpotable water use during performance period (kGal)			
Total cooling tower water use during performance period (kGal)			
Total estimated annual cooling tower water use (kGal)			

Percent nonpotable water use for cooling tower equipment: %

Nonpotable water use must be at least 50% for credit compliance

Upload WEc4.2-2. Provide descriptions, drawings and/or calculations to support the following: Sources of nonpotable/nonnatural cooling tower makeup water, the system that delivers water from these sources to the cooling towers(s), the approximate percentage of makeup water each supplies, and the consistency with which water from each source is available during typical operation of the project building and associated grounds (i.e., an indication of whether the supply is stable or variable).

ADDITIONAL DETAILS

☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload WEc4.2-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload WEc4.2-ACP. Provide any additional documents that support the alternative compliance path approach.(Optional)

- ☐ The project team is using the above alternative compliance path to document exemplary performance of WE Credit 4.2.

SUMMARY

WE Credit 4.2: Cooling Tower Water Management - Nonpotable Water Source
Use Points Documented:

WE Credit 4.2: Cooling Tower Water Management - Nonpotable Water Source
Use Exemplary Performance Documented:

- ☐ The project team reserves one point in the Innovation in Operations credit category for exemplary performance in WE Credit 4.2.