



LEED 2009 for Existing Buildings: Operations & Maintenance

WE CREDIT 4.1: COOLING TOWER WATER MANAGEMENT CHEMICAL MANAGEMENT

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.

Performance period start:

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.

Upload WEc4.1-1. Provide the water management plan (implemented during the performance period) for each of the cooling towers in place and capable of serving the project building which demonstrates how high concentration ratios will be achieved and addresses:

- Chemical Treatment
- Bleed-off, makeup water and target concentration ratios
- Biological control
- Staff training as it relates to cooling tower maintenance
- Setpoints for each cooling tower

For all cooling towers in place at the project building, the project team has installed and/or maintained a conductivity meter(s) and automatic controls to adjust the bleed rate(s) and maintain proper concentration ratios at all times during the performance period.

Optional Signatory

Initial here:

PROPERTY MANAGER/
FACILITY MANGER/
BUILDING ENGINEER

Upload WEc4.1-2. Provide at least one of the following for each of the cooling towers in place and capable of serving the project building:

- A design plan or engineering drawing of the conductivity meter and automatic controls.
- Manufacturer documentation for the installed conductivity meter and controls.
- Photographs of the installed conductivity meter and automatic controls.

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 WEc4.1-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 WEc4.1-ACP. Provide any additional documents that support the alternative compliance path approach.(Optional)

SUMMARY

WE Credit 4.1: Cooling Tower Water Management - Chemical Management
Points Documented: