



# LEED 2009 for Schools New Construction and Major Renovations

## EA PREREQUISITE 3: FUNDAMENTAL REFRIGERANT MANAGEMENT

All fields and uploads are required unless otherwise noted.

### ALL OPTIONS

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

Complete the table below for all mechanical cooling equipment serving the project building.

Table L-2. Refrigerants

HVAC&R Equipment Type	Equipment Location	Refrigerant Used	Manufacturer Name	Model Number	New/Existing

Note: If new HVAC&R equipment is installed which uses CFC based refrigerant the project is ineligible for prerequisite compliance.

### CFC-BASED REFRIGERANTS WITHIN LEED PROJECT BOUNDARY

**Upload EAp3-1.** Provide the CFC phase-out conversion plan(s) (or summary) for all mechanical cooling equipment within the LEED project boundary. Highlight language indicating specific equipment using CFC-based refrigerants and expected phase-out dates. Include leakage rates and refrigerant quantities.

Files:

In accordance with the uploaded plan, CFC phase-out in equipment serving the project building only will be completed:

- ☐ Before project completion.
- ☐ After project completion.

Describe reason(s) why CFC phase-out will not be completed prior to project completion.

## CFC-BASED REFRIGERANTS IN CENTRAL PLANT

Select one of the following:

- ☐ A comprehensive CFC phase-out conversion plan is in place for all mechanical cooling equipment using CFC-based refrigerants.
- ☐ An audit conducted by a third party shows that CFC phase-out (replacement or conversion) is economically infeasible for some or all mechanical cooling equipment using CFC-based refrigerants.

### CONVERSION PLAN

**Upload EAp3-2.** Provide the CFC phase-out conversion plan(s) (or summary) for all mechanical cooling equipment serving the central plant. Highlight language indicating specific equipment using CFC-based refrigerants and expected phase-out dates. Include leakage rates and refrigerant quantities.

Files:

In accordance with the uploaded plan, CFC phase-out in equipment serving the project building only will be completed:

- ☐ Before LEED project completion.
- ☐ After LEED project completion.

Describe reason(s) why the central plant CFC phase-out will not be completed prior to project completion.

### ECONOMIC ANALYSIS

Name of third party auditor conducting feasibility study:

Auditor company:

- ☐ The third party listed above is not otherwise employed by the building owner or property manager.

**Table EAp3-1.** Economic Analysis of CFC Replacement or Conversion

System Replacement (\$)		Refrigerant Conversion (\$)	
Cost of implementing CFC equipment replacement		Cost of implementing CFC equipment conversion	
Annual cost avoidance for energy bills and maintenance that results from replacement		Annual cost avoidance for energy bills and maintenance that results from the conversion	

Net ten-year replacement savings (costs)		Net ten-year conversion savings (costs)	
Phase out and/or conversion is economically infeasible			

The proposed conversion or replacement costs for HVAC&R equipment must be more than the net ten-year replacement energy savings.

## 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 EAp3-SC.** Provide any additional documentation that supports the claim to special circumstances. (Optional)

*Files:*

- ☐ 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.

## SUMMARY

EA Prerequisite 3: Fundamental Refrigerant Management  
Compliance Documented:

REFERENCE ONLY