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LEED O+M: Existing Buildings | v3 - LEED 2009

Bird collision deterrence

SSpc55 | Possible 1 point

1 result in All .

Intent

Reduce bird injury and mortality from in-flight collisions with buildings.

Requirements

Comply with the "Interior lighting," "Exterior lighting," and "Performance monitoring plan" requirements below.

Interior lighting

Establishment

Limit the total duration of all nighttime lighting programmed 'on' to less than 90 minutes per day. Manual override capability may be provided for occasional after-hours use.

OR

Reduce the amount of uplight leaving the building. Any suspended, wall or floor mounted luminaires with a direct line of sight above the horizon, thru any glass windows, skylights or doors must be automatically controlled to turn 'off' during all nighttime hours (the time between sunset and sunrise).

OR

Have in place automatic window shades or shielding that limits light transmittance to 10% or less during the nighttime.

Performance

Implement a program to ensure that the lighting control system is being properly used to adjust lighting levels during all nighttime hours (the time between sunset and sunrise).

AND

Exterior lighting

Establishment

Shield all exterior fixtures (where the sum of the mean [lamp](#) lumens for that fixture exceeds 2,500) such that the installed fixtures do not directly emit any light at a vertical angle more than 90 degrees from straight down.

Performance

None.

AND

Performance monitoring plan

Establishment

Develop a three-year initial monitoring plan to routinely monitor the building and site structures for bird collisions. Include methods to identify and document locations where repeated bird strikes occur, the number of collisions, the date, the approximate time (if known), and features that may be contributing to collisions. Also include a process and timeline for corrective action. The monitoring plan is the baseline for the measures implemented during the performance period.

Performance

Implement the monitoring plan for a period of three years. If results of the monitoring plan indicate that areas of the building and/or site structures receive multiple collisions, implement corrective action.

General Pilot Documentation Requirements

[Register for the pilot credit](#)

- Participate in the [LEEDuser pilot credit forum](#)
- Complete the feedback survey:

[Credits 1-14](#)

[Credits 15-27](#)

[Credits 28-42](#)

[Credits 43-56](#)

[Credits 57-67](#)

[Credits 68-82](#)

[Credits 83-103](#)

Credit Specific: EBOM

Interior lighting

- A lighting schedule listing fixtures, nighttime off-time durations for a typical day (for fixtures controlled locally by occupancy sensors, enter durations corresponding to arrival of the earliest work shift and departure of the latest work shift), and manual override capability. Alternatively, use Table SSc8-1 Interior Perimeter Lighting Off-Time Hours in the EBOM 2009 SSc8 Light Pollution Reduction form.
- Building plan showing the location of automatic window shades and/or shielding
- Typical detail and/or cross section of automatic window shades and/or shielding
- Narrative describing how the lighting control system is maintained to ensure the system is functioning properly. Describe how manual overrides are restored to normal shutoff schedules.

Exterior lighting

- Luminaire shielding information (e.g., typical detail, manufacturers' technical data sheets, or photographs)

Performance monitoring plan

- A copy of the initial monitoring plan
- Records of all collisions during the Performance Period. Include the location, date, and approximate time of day for each collision.
- Plan(s) and/or elevation(s) depicting the location of all temporary and permanent materials and shading/screening devices used to retrofit the building façade in response to the results of the monitoring plan.
- Applicable specification details on all materials and shading/screening devices used to retrofit the building façade in response to the results of the monitoring plan.

Changes:

- 10/16/2015:
 - Expanded the applicability to all rating systems
 - Simplified the lighting requirements
 - Adjusted the documentation based on the above changes to Requirements
 - Miscellaneous edits to the background information, for reference