

Plow Shop Occupancy Sensor Management Plan



Project Concept:

An occupancy sensor, also known as a motion sensor, can detect the presence of occupants in a room. When someone enters a room, the occupancy sensor automatically turns on the lights. When the person leaves, the occupancy sensor shuts off the lights. This saves money, energy, and time, as building occupants no longer have to worry about turning lights on and off and energy is no longer wasted when people forget to turn off lights.

At the Public Works Plow Shop, 8 occupancy sensors were installed on the high bay lights. The Plow Shop houses our snow plows and prior to installing occupancy sensors, drivers would turn on the lights early in the morning and then leave them on all day while they plowed the streets. The new occupancy sensors automatically shut the lights off once the plows pull away.

Location:

Red Lodge Public Works Shop
6801 US Highway 212
Red Lodge, Montana

Installed Items:

8 Acuity Controls CMRB 6 High Bay 360 Sensor

Installer Information:

Red Lodge Electric, Mark Brown
25 Shadow Drive
Red Lodge, MT 59068
(406) 446-1882 redlodgeelectric@gmail.com

Funding:

The City purchased and installed the Police Station Occupancy Sensors for a total of \$949.18. Funds were pulled from the Public Works allotted budget.

Warranty:

Acuity Controls offers a 3 year limited warranty on their Occupancy Sensors from the date the product shipped. See the attached warranty for more information.

Monitoring Usage:

NorthWestern Energy Account Number: 713563-5

The Public Works Shop where the occupancy sensors were installed is on the meter listed above. A monitoring spreadsheet has been developed that will allow the City to track the energy and cost savings accrued due to this investment.

The monitoring spreadsheet is available online via Google Sheets and can be found at the link below:

https://docs.google.com/spreadsheets/d/1FrzwAfVfzo_LV9zJi6aeO7R63gNwOVBU3XXPoKYn8tk/edit?usp=sharing

Community Impact:

The City will see monetary savings from this project. The occupancy sensors will also decrease the amount of energy used and lessen the amount of greenhouse gases that the Public Works Shop emits.

Maintenance Plan:

Occupancy sensors require essentially no maintenance once installed. The timers on the occupancy sensors can be easily adjusted by removing the cover plate. Should a problem arise, the installer could return and address any issues.



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d/b/a LIGHTING CONTROL & DESIGN
FOR SHIPMENTS WITHIN THE UNITED STATES AND CANADA
09/1/2013**

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