Photo 1

Incandescent lighting in lower level of Weyerhauser Chapel

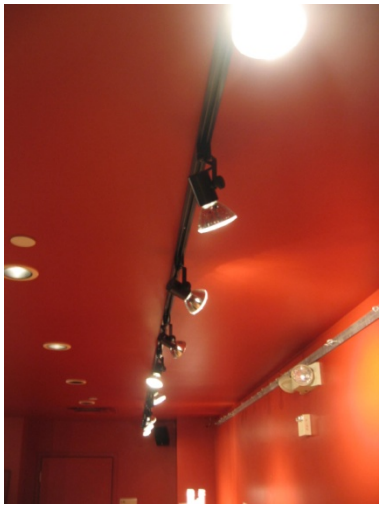

Photo 2

Incandescent lighting in Game Room of Campus Center

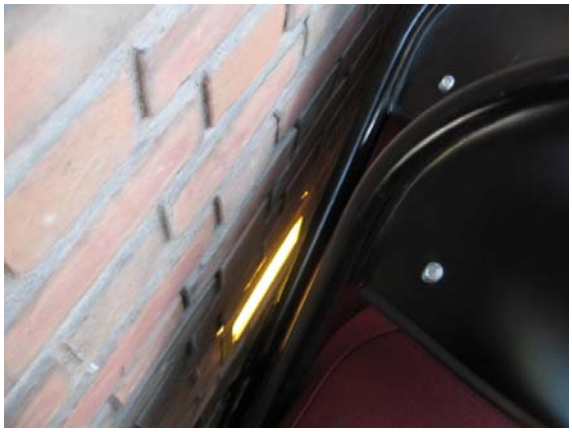

Photo 3

Ambulatory lighting in Weyerhauser Chapel during mid-day

ECO 39

Photo 4

Kirk Hall window positions in February

ECO 32

Photo 5

Turck Hall window positions in February

ECO 32

Photo 6

Bigelow Hall window positions in February

ECO 32

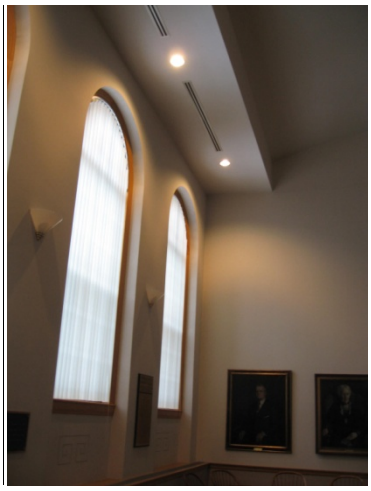

Photo 7

Carnegie Hall incandescent lighting on though space is unoccupied

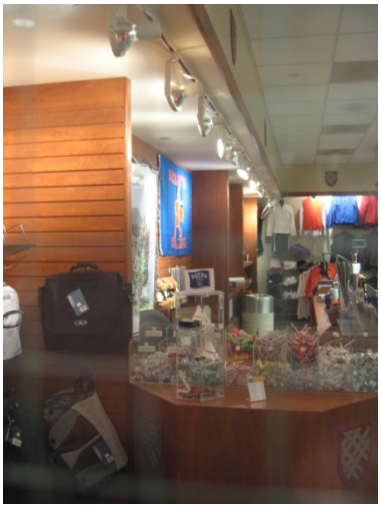

Photo 8

Bookstore incandescent lighting requiring significant cooling year round

ECO 25

Photo 9

Stairwell to 2nd floor of Campus Center – incandescent lighting

Photo 10

Library stacks, lights in lower level on continuously at full intensity

Photo 11

Open window in Carnegie Hall stairwell – estimated leakage: 200 cfm

ECO 10

Photo 12

Large single-glazed windows – Dupre Hall

Photo 13

Carnegie Hall rest room in need of occupancy sensor

ECO 38

Photo 14

Functional occupancy sensor in Campus Center rest room

Photo 15

Carnegie Hall classroom at occupied temperature, but vacant

ECO 13

Photo 16

Library, high airflow from inaccessible VAV, causing noise and temperature control issues

Photo 17

Library space marginally used, could use handset timer

Photo 18

Campus Center space marginally used, application for occupancy sensor

ECO 12

Photo 19

Air supply grille for Kagin Hall entry area and atrium – note the size

Photo 20

Fully temperature-controlled all-glass atrium, could use seasonal floating temperature setpoints

Photo 21

Turck/Doty Hall entrance – gap at entry doors

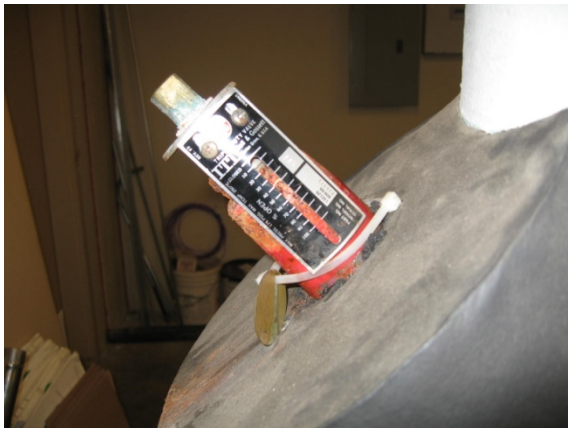

Photo 22

Campus Center, triple duty chilled water valve at reduced flow setting

Photo 23

Fan inlet vanes on Library AHU 3, to be replaced by VFD

ECO 18

Photo 24

Library AHU, 3-way water heating valve can be converted to 2-way

ECO 40

Photo 25

Library needs piping extension; could also be used for lawn watering or cooling tower make-up

Photo 26

Exposed steam piping in mechanical space of Bigelow Hall, also identified in MnTAP report

Photo 27

Domestic hot water recirculating pump, can be programmed for building occupancy

ECO 10

Photo 28

Library lower level mechanical room intake damper, with disconnected actuator

Photo 29

Chillers can have both chilled and condenser water reset, and cycle on low cooling demand

ECO 10

Photo 30

Library, showing inlet vanes on return fan, to be replaced by VFD

ECO 19