

October 13, 2005

ENERGY CONSERVATION

Monson High School

The High School was built in 2001. The design of the building allows for much energy efficiency. The public area is isolated to the right of the office core - this allows for the temperature to be set back in the academic wing while the building is in use during non-school hours. The nighttime/weekend temperature is set at 55 degrees.

During the operational time of the building, each individual room is thermostatically controlled. The daytime temperature is set at 68 degrees. The window units are thermopane and the exterior block is insulated to the state standards. The building's controls are set to automatically lower on nights and weekends.

The heating plant is a multi-fuel system and the boilers are arranged in a staged system. The boiler temperature is controlled by an optimum boiler temperature.

All fresh air dampers are set at the state required standards. These dampers are lubricated and checked each summer.

Area lighting is controlled by timers. The light settings are adjusted to meet the public needs.

The upkeep of these systems is important for continued conservation. The burners are tested and set in October and any recommendations are reviewed at that time.

Quarry Hill Community School

Quarry Hill was built in 1991. The heating controls were upgraded in 1996. The heating plant is a compensating loop system with an optimum temperature control on the distribution water.

The boilers are lead/lag controlled and are pass-through type. Although this system is not as efficient as a staged boiler system, the compensating loop does make it efficient.

The building has an automated set-back system and all fresh air dampers are calibrated in late November. The nighttime/weekend temperature is set at 55 degrees.

Usage is a determinate of conservation, and this school is used a great deal because of the presence of the pool, as well as for many recreational activities.

Room temperature is controlled by individual thermostats. The daytime temperature is set at 68 degrees. The rooms have motion sensor controls for lighting efficiency.

Area lighting is controlled by timers and photo-electric controllers.

All burners are adjusted in late October and recommendations are reviewed at that time.

Granite Valley Middle School

Granite Valley was renovated in 2002. It has a modern staged boiler system with an optimum water temperature for the boilers. The system has an automated night and weekend set back system.

The building is equipped with thermopane window units and walls are insulated to state standards. The daytime temperature is set at 68 degrees.

The rooms have individual thermostats and the lighting is controlled by motion sensors. The nighttime/weekend temperature is set at 55 degrees.

The area lighting is controlled by timers and photo-electric sensors.

All burners are adjusted in late October and recommendations are reviewed at that time.

Daniel Tassinari
Director of Business Services