

The Board embraces energy conservation and believes it to be our responsibility to ensure that every reasonable effort is made to conserve energy and natural resources while exercising sound financial management.

We recognize the importance of adopting an energy management and conservation policy in order to govern this program. We also affirm the implementation of this policy will be the joint responsibility of the board, administration, faculty, staff, students, support personnel, and Energy Education. Success is based on cooperation at all levels.

Each campus will maintain accurate records of energy consumption and cost of energy and will provide verifiable performance information to the Board and Administration of the various instructions in the district on the goals and progress of the energy conservation program.

The designated campus Administrator will be accountable for energy management on his/her campus with energy audits being conducted and feedback provided by the Energy Educator/Manager teams.

To ensure the overall success of the energy management program, the following specific areas of emphasis will be adopted:

1. Energy Education will administer its energy conservation and management program primarily through the Energy Education/Manager teams and Administrators.
2. The Board expects all personnel at each campus to make a positive contribution to maximize energy conservation and produce real energy savings.
3. “Energy Guidelines” will be adopted that define the “rules of engagement” in implementing our energy program.

Further, to promote a safe, healthy learning environment and to complement the energy management program, each campus shall review and adhere to the preventive maintenance and monitoring plan administered by the campus physical plant for its facilities and systems, including HVAC, building envelope, and moisture management.

**Whereas** the Board bears responsibility for overseeing the operations and fiscal responsibilities of each institution under its governance

**Whereas** the Board embraces energy conservation and desire for the Cherokee County Schools to become nationwide institutional leaders in energy management and conservation as part of our social responsibility to respect our natural resources

**Whereas** the Board also recognizes how a dedicated energy conservation and management program is in keeping with the values ascribed by our land grant mission

**Whereas** the Board has engaged Energy Education to use its expertise to develop and implement a comprehensive, people-based conservation program across the Cherokee County Schools

**Therefore,** the Board directs the Superintendent at each member institution and his/her agents to develop and implement short and long range strategies to maximize energy conservation.

Adopted this 13th day of November 2008.

\_\_\_\_\_  
Dr. David Ackerman, Chairman

Attest:

\_\_\_\_\_  
Dr. Stephen Lane, Secretary

**GUIDELINES**

---

---

**ENERGY CONSERVATION AND BUILDING MANAGEMENT****RESPONSIBILITIES:**

- Every person is expected to be an “energy saver” as well as an ”energy consumer.”
- The teacher is responsible for implementing the guidelines during the time that he/she is present in the classroom.
- The custodian is responsible for control of common areas, i.e., halls, cafeteria, etc.
- Since the custodian is typically the last person to leave a building in the evening, he/she is responsible for verification of the nighttime shutdown.
- The principal is responsible for the total energy usage of his/her building.
- The Energy Manager performs routine audits of all facilities and communicates the audit results to the appropriate personnel.
- The Energy Manager is responsible for either directly or indirectly making adjustments to the District’s EMS, including temperature settings and run times for HVAC and other controlled equipment.
- The Energy Manager provides regular reports to Principals indicating performance with regards to energy savings.
- The district is committed to and responsible for maintenance of the learning environment.
- To complement the district’s energy management program, the district shall develop and implement a preventive maintenance and monitoring plan for its facilities and systems, including HVAC, building envelope, and moisture management.

**GENERAL**

1. Classroom doors shall remain closed when HVAC is operating. Ensure doors between conditioned space and non-conditioned space remain closed at all times, i.e. between hallways and gym or pool area.
2. Proper and thorough utilization of data loggers will be initiated and maintained to monitor relative humidity, temperature, and light levels throughout the district’s buildings to ensure

compliance with district guidelines.

3. All exhaust fans should be turned off daily.
4. All office machines (copy machines, laminating equipment, etc.) shall be switched off each night and during unoccupied times. Fax machines should remain on.
5. All computers should be turned off each night. This includes the monitor, local printer, and speakers. Network equipment is excluded.
6. All capable PC's should be programmed for the "energy saver" mode using the power management feature. If network constraints restrict this for the PC, ensure the monitor "sleeps" after 10 minutes of inactivity.

Cooling Season Occupied Set Points<sup>1</sup>: 74°F - 78°F

*Unoccupied Set Point: 85°F*

Heating Season Occupied Set Points<sup>1</sup>: 68°F - 72 °F

Unoccupied Set Point: 55°F

<sup>1</sup>Set points are in accordance with ASHRAE 55° Thermal Conditions for Human Occupancy. Set points for heating and cooling are guidelines and may be adjusted by the Energy Manager in consultation with the Superintendent.

### **AIR CONDITIONING EQUIPMENT**

1. Occupied temperature settings shall NOT be set below 74°F.
2. During unoccupied times, the air conditioning equipment shall be off. The unoccupied period begins when the students leave the area at the end of the school day. It is anticipated that the temperature of the classroom will be maintained long enough to afford comfort for the period the teacher remains in the classroom after the students have left.
3. Air conditioning start times may be adjusted (depending on weather) to ensure classroom comfort when school begins.
4. Ensure outside air dampers are closed during unoccupied times.
5. Ceiling fans should be operated in all areas that have them.

6. Relative humidity levels shall not exceed 60% for any 24 hour period.
7. Air conditioning should not be utilized in classrooms during the summer months unless the classrooms are being used for summer school or year-round school. Air conditioning may be used by exception only or in those schools that are involved in team-cleaning.
8. In all areas which have evaporative coolers such as shops, kitchens and gymnasiums, the doors leading to halls which have air conditioned classrooms or dining areas should be kept closed as much as possible.
9. Where cross-ventilation is available during periods of mild weather, shut down HVAC equipment and adjust temperature with windows and doors. Cross-ventilation is defined as having windows and/or doors to the outside on each side of a room.
10. Ensure dry food storage areas are maintained within code requirements. Typically, this is 55F-75F temperature and 35% -60% Relative Humidity. Utilize loggers to verify.

**HEATING EQUIPMENT**

1. Occupied temperature settings shall NOT be above 72°F.
2. The unoccupied temperature setting shall be 55°F (i.e. setback). This may be adjusted to a 60 °F setting during extreme weather.
3. The unoccupied time shall begin when the students leave an area.
4. During the spring and fall when there is no threat of freezing, all steam and forced air heating systems should be switched off during unoccupied times. Hot water heating systems should be switched off using the appropriate loop pumps.
5. Ensure all domestic hot water systems are set no higher than 120°F or 140°F for cafeteria service (with dishwasher booster).
6. Ensure all domestic hot water re-circulating pumps are switched off during unoccupied times.
7. For heat pumps, ensure a 6°F dead-band between heating and cooling modes.
8. Heating oil and propane (if applicable) levels should be physically measured and recorded by “sticking the tanks” at least on the following intervals: 1) recurring scheduled monthly

date 2) immediately before new delivery, 3) immediately after delivery.

**LIGHTING**

1. All unnecessary lighting in unoccupied areas will be turned **off**. Teachers should make certain that lights are turned off when leaving the classroom when empty. Utilize natural lighting where appropriate.
2. All outside lighting shall be **off** during daylight hours.
3. Gym lights should not be left on unless the gym is being utilized.
4. All lights will be turned **off** when students and teachers leave school. Custodians will turn on lights only in the areas in which they are working.
5. Refrain from turning lights on unless definitely needed. Remember that lights not only consume electricity, but also give off heat that places an additional load on the air conditioning equipment and thereby increases the use of electricity necessary to cool the room.

**WATER**

1. Ensure all plumbing and/or intrusion (i.e. roof) leaks are reported and repaired immediately.
2. Grounds watering should only be done between 4 a.m. – 10 a.m. Do not water during the heat of the day, typically between 10 a.m. – 8 p.m.
3. When spray irrigating, ensure the water does not directly hit the building.
4. Ensure water sub-meters are installed on irrigation and cooling tower supply lines to eliminate sewer charges.

Adopted November 13, 2008