Town of Sudbury
Capital Improvement Budget Request
FY2018 Form A

		Department/Committee: Facilities - SPS **Item/Project Name:** Curtis School Heating pumps and motors
Initial Year of Request: FY14	**Estimated Total Project Cost:** $25,000	**Estimated Future Savings:**[1] Energy improvement will save money
Estimated Incremental Costs:[2] Save Energy- cost reduction, prevent wasteful repair on obsolete mechanical equipment.	**Staffing Changes:**[3] None	
Justification Code: B	**R or NR:** R	**Priority:** 3
Project Description: Replace one set of motors and pumps on Curtis heating distribution system.		
Justification and Need: The existing motors and pumps are 17 years old and are at the end of their useful life. Being proactive makes sense in order to prevent more costly emergency repairs which could disrupt school heating operation during the cold winter months.		
Benefit: Maintain the building systems and protect asset. This project would also save energy by installing a newer more energy motor and pump.		
Last time this was replaced (i.e., year roof was previously replaced or year vehicle): 1999 when the building was under construction		**Typical Replacement Cycle:** 15 years
Alternatives Considered/Reasons for Rejecting Alternatives: Put off for a year and hope it does not fail.		
Consequences of Not Implementing/Delaying Implementation: Increasing repairs and service calls on aging units. More energy being wasted.		
Other Pertinent Background Information (e.g., Quotes, Brochures, Pictures, etc.): There are two pumps that circulate the hot water from the boilers. The replacement of this one pump will insure the equipment is reliable for heating the building during the winter. There are two pumps in order to provide redundancy for the building heating.		

WILLIAMSON
NEW ENGLAND ELECTRIC
MOTOR SERVICE CORP.
A division of THE WECO GROUP

Water & Waste
EQUIPMENT, INC.

CORPORATE HEADQUARTERS **CT Location**
25 Griffin Way, Chelsea, MA 02150 352 Allen St, New Britain, CT 06053
Toll free: (800) 287-9000 Fax: (617) 884-3144

Sudbury Schools
Pump and Motor Recommendation

Typical pump life pumping Glycol is 12-16 years.
Glycol can be aggressive to pump and piping over a period of time.
To overhaul existing pump is usually 60-80% of new pump.
This pump has been modified internally over the last few years to make them more efficient.
Changing the suction diffuser is also recommended at this time.
As far as the motor goes it is hard to determine how long it would last but I feel that it is at the end of its lifecycle.

Sincerely,

Joe Pires

Curtis School Boilers

Curtis School Boiler pumps and motors

Pump and 40 Horse Power Motor is 18 years old.