

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date	December 8, 2008
	Agenda Item No. 26D Roll Call No. <u>08-</u> Communication No. <u>08-735</u> Submitted by: Merrill Stanley, Deputy City Manager	

AGENDA HEADING:

Approving the purchase of three (3) anti-icing trailers in the amount of \$80,835.00 for use by the Public Works Department.

SYNOPSIS:

Recommend approval to proceed with the purchase of three (3) trailer mounted anti-icing systems to be used by the Public Works Department, Street Maintenance Division for emergency snow and ice control operations. Recommend awarding bid number V09-48 to Hawkeye Truck Equipment (Tom Steinkamp, President), 5800 NW 2nd Street, Des Moines, IA 50316 in the amount of \$80,835.00.

FISCAL IMPACT:

Amount: \$80,835 Acquisition cost
(\$48,750) Estimated annual operating cost savings (dependent on weather and cost of rock salt)

Funding Source: Acquisition: CMO010407 Equipment Replacement Fund – FY2008-09 Operating Budget, page 89. Operating savings: PWK040400 Street Maintenance – FY2008-09 Operating Budget, page 314.

ADDITIONAL INFORMATION:

Bids were solicited for three (3) additional anti-icing systems mounted on trailers. Four (4) bids were mailed and two (2) bids were received. Hawkeye Truck Equipment is the low compliant bidder. The Public Works Department currently utilizes five (5) truck mounted anti-icing units. These trucks are dedicated to the application of pretreatment anti-icing chemicals prior to a predicted snow and ice event. They are not available for other uses during the winter months. Prior to a predicted snow and ice event the existing units are deployed to cover the targeted lanes mile on snow routes with anti-icing chemicals. Due to truck capacity, rate of application, and total lane miles, pre-treatment applications are not optimized.

These additional trailer mounted anti-icing units will be used in pre-treating snow routes with anti-icing chemicals, and with designed capacity, can cover designated lanes miles in a shorter time ahead of predicted snow and ice events. The systems are trailer mounted and will be pulled with existing heavy duty trucks currently equipped with ground speed driven electronic control systems. Once the anti-icing operation is complete the trucks will be available for other emergency snow and ice control operations, thus increasing the use of the trucks. The controls system delivers a prescribed amount of liquid anti-

icing chemicals to reduce the amount of granular material needed, providing an operating cost savings related to the cost of rock salt.

The Public Work's Department's request and justification for the purchase of three anti-icing trailers stems from an assessment that the more comprehensive and timely application of anti-icing (salt brine) solutions may preclude the need to apply more expensive de-icing materials (rock salt) prior to plowing.

The Public Works Department's current lack of anti-icing equipment precludes comprehensive coverage of the City's 213 miles (650 lane miles) of snow routes in a timely manner. Consequently, with the onset of precipitation, snow routes are spread with de-icing materials. With the procurement of three additional anti-icing trailers, the Public Works Department can pre-treat the snow routes with anti-icing solutions within eight hours. It is estimated that based on temperatures, the use of anti-icing materials on snow routes may preclude the need for de-icing materials one-third of the time, or approximately six events per year.

Based on materials alone, the cost per application of anti-icing solutions is calculated at \$2,275 as compared to \$10,400 for de-icing materials, for a difference of \$8,125 per application. Considering six events per year where anti-icing solutions may preclude the use of de-icing materials, the estimated annual savings would be \$48,750. At an annual savings of \$48,750, the City would realize a payback on its \$80,835 investment in the three anti-icing trailers in less than two years.

PREVIOUS COUNCIL ACTION(S): NONE

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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