


## COUNCIL COMMUNICATION

	Number:	<b>20-396</b>	Meeting:	<b>September 14, 2020</b>
	Agenda Item:	<b>58</b>	Roll Call:	<b>20-1466</b>
	Submitted by:	<b>Nickolas Schaul, Interim Finance Director</b>		

### AGENDA HEADING:

Approving the purchase of two (2) additional refuse truck chassis with specified collection equipment bodies for use by the Solid Waste Division of the Department of Public Works.

### SYNOPSIS:

Recommend approval of the purchase of two (2) additional purpose built refuse truck chassis with specified solid waste collection equipment installed using the Houston Galveston Area Council (HGAC) purchasing contracts as follows:

Two (2) truck chassis from Housby Mack Inc., (4747 NE 14th St, Des Moines, IA 50313, Kelly Housby, President), in the amount of \$284,330. Two (2) chassis at \$141,865 each, plus a single contract processing fee of \$600 utilizing HGAC contract number HT06-20.

Automated Side Loading refuse collection equipment bodies for the above referenced truck chassis from McNeilus Truck and Manufacturing, (520 Hwy St E, Dodge Center, MN 55927, Brad Nelson, President), in the amount of 296,088. Two (2) automated side loading collection bodies at \$148,044 No contract processing fee utilizing HGAC contract number RH08-20.

### FISCAL IMPACT:

Amount: \$580,418

Funding Source: Solid Waste Enterprise Fund PW250430

### ADDITIONAL INFORMATION:

- The City's current fleet of 36 solid waste collection trucks are equipped with the following four (4) types of collection equipment:
  - 23 automated side loading (ASL)-scheduled replacement cycle, eight (8) years
  - Six (6) front loading-scheduled replacement cycle, 10 years
  - Six (6) rear loading-scheduled replacement cycle, 10 years
  - One (1) compact semi-automated dual side loading-scheduled replacement cycle, six (6) years
- The addition of these two (2) ASLs was approved by the Fleet Oversight Committee to meet the expanded municipal waste collection needs due to growth with in the City and expand the number of daily route of solid waste collection.

- Alternative fuels, Fuel Efficiency and Reduced Idling:
  - Fully electric heavy-duty truck chassis for refuse collection purposes are under evaluation with single prototype units in a few Cities; however, no proven fully electric production chassis are expected to be available until model year 2025. As future replacements or additions are considered, heavy duty electric trucks will be evaluated. The capacity for charging infrastructure for heavy duty trucks has been designed into MSC 2 plans.
  - The recommended purpose-built refuse truck chassis are powered by clean burning heavy-duty (big bore) diesel engines, which results in reduced fuel consumption compared to typical medium duty engines. Use of heavy-duty engines results in reduced engine repair costs and provides a longer life cycle and results in lower life cycle costs when compared to medium duty engine used in municipal operations. The diesel engines can utilize up to 20% biodiesel fuel. A pilot study is under consideration to add dual fuel technology to selected refuse vehicles to burn B100 renewable fuel to further reduce greenhouse gas emissions.
  - The recommended truck chassis are equipped engine control modules (ECM) that constantly capture and report idle time along with over 100 other engine operating parameters. In addition to measuring idle time, the system allows programming a maximum idle time. If the maximum time is reached the engine shuts off to reduce fuel consumption. Initially, trucks will be programmed for a maximum idle time of 10 minutes.

**PREVIOUS COUNCIL ACTION(S):**

Date: April 23, 2018

Roll Call Number: [18-0712](#)

Action: Purchases from the following:

- (C) [Housby](#) Mack Inc. (Kelly Housby, President) for eleven (11) replacement refuse trucks per Houston-Galveston Area Council (HGAC) Contract for use by the Public Works Department, \$2,847,356. ([Council Communication No. 18-187](#)) Moved by Gatto to adopt. Motion Carried 6-1. Nays: Coleman.

**BOARD/COMMISSION ACTION(S): NONE****ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE**

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to [cityclerk@dmgov.org](mailto:cityclerk@dmgov.org).