

City of San Antonio

Light and Medium Duty Trucks

City Council A Session - Item #8

August 2, 2018



Presented by: Jorge A. Pérez | Director
Building and Equipment Services



Overview

- Acceptance of contracts with Grande Truck Center and Gunn Chevrolet, LTD
- Purchase of 8 replacement light and medium duty trucks
 - 1 Propane
 - 1 Bi-fuel gasoline and compressed natural gas (CNG)
- Total cost \$385,151
- Used by Parks and Recreation, Solid Waste Management, and Transportation and Capital Improvements





Fleet Inventory

- Approximately 5300 vehicles and equipment in the City's fleet
 - Administrative/Light Duty
 - Refuse Trucks
 - Medium/Heavy Duty
 - Public Safety
- Alternative Fuel
 - Hybrid
 - CNG
 - Propane





Fleet Sustainability Goals

- Increase fleet of admin hybrid and alternative fuel sedans to 85% by 2020
 - Currently at 81%
 - FY 2019 projection 86%
- Reduce diesel and unleaded fuel consumption by 14% by 2020
 - Currently at 12.5%
 - Projected to be at 14% in FY 2020





Alternative Fuel Benefits

- Reduces fuel costs
- 5% - 10% reduction in greenhouse gas emissions
 - Carbon monoxide
 - Carbon dioxide
 - Nitrogen oxide
- Greater engine efficiency
- Comparable vehicle performance





Air Quality

- Anti-Idling Policy
- Fleet Right-Sizing
- GPS Route Optimization
- Fleet Electrification Assessment
- Increase Alternate Fuel Fleet
- Climate Action & Adaption Planning

BEXAR COUNTY AND CITY OF SAN ANTONIO IDLING RESTRICTIONS:

VEHICLES WITH A GROSS VEHICLE WEIGHT RATING GREATER THAN 14,000 POUNDS MAY NOT IDLE FOR MORE THAN FIVE MINUTES (30 MINUTES FOR BUSES) WITHIN BEXAR COUNTY OR THE CITY OF SAN ANTONIO.

WITHIN THE CITY OF SAN ANTONIO CITY LIMITS, NO DRIVER USING THE VEHICLE'S SLEEPER BERTH MAY IDLE THE VEHICLE:

- in a school zone;
- within 1,000 feet of a public school during its hours of operation;
- within 1,000 feet of a hospital; or
- in a residential area.

VIOLATIONS IN BEXAR COUNTY OR THE CITY OF SAN ANTONIO ARE A CLASS C MISDEMEANOR. THE PENALTY IS \$500 PER OFFENSE.

- Idling wastes money: Idling may consume a gallon of fuel or more per hour.
- Idling threatens health: Breathing vehicle emissions increases the risk of respiratory illness, especially in children.
- Idling pollutes: Emissions from vehicles combine in sunlight to form ground level ozone pollution.

EXAMPLES OF WASTEFUL IDLING:

- Waiting in line.
- Engine warming - today's vehicles warm up faster being driven.
- Sitting in vehicle during lunch breaks, to complete paperwork or make phone calls.

HOW TO REDUCE IDLING:

- The Alamo Area Clean Cities program can provide drivers technical assistance on alternative technologies to allow drivers to be comfortable and safe while saving money and reducing harmful emissions. Some technologies include:
- Automatic engine shut-down and start-up.
 - Battery Power.
 - Auxiliary power units and generator sets.
 - Truck stop electrification.



Air Quality Nonattainment Timeline

July 17
2018

- EPA designates Bexar County “Marginal Nonattainment” for federal ground-level ozone air quality standard

Sept 24
2018

- Effective date of federal ruling. Bexar County will have 3 years from this date to reach attainment of federal ozone standard.

FY 19
Improvements

- *Proposed:* Electric Vehicle Network & COSA Fleet EV Conversion Analysis
- *In Process:* COSA Fleet Procurement Policy and Departmental Driving/Fuel Use Analysis
- *Proposed:* Air Quality and Climate Action Messaging Campaign

- B Session briefing on August 8th regarding Environmental Projection Agency’s (EPA) marginal nonattainment designation



Recommended Action

- Staff recommends approval of two contracts to purchase 8 light and medium duty trucks from Grande Truck Center and Gunn Chevrolet, LTD for a total cost of \$385,151.



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