



Date: January 27, 2021

Presented to: Mayor Iverson and City Council Members

Presented by: Director Chief Paul Hoppe

Department: Public Safety

Reference: Vehicle Purchase

Method: New Business

Background Information:

The Public Safety Department is seeking to replace one Fire Command Vehicle, a 2014 Ford Explorer nearing the 100,000 miles / 6 year allocated service life. The scheduled rotation in our fleet management strategy will be to repurpose one of the Police Department F150 patrol vehicles with approximately 50,000 miles to Fire Command services and replace the F150 with a 2021 Ford PPV Utility. The F150 police vehicle was originally purchased with the intent to utilize the first 50,000 miles in police services and the later 50,000 in fire services; which is consistent with our fleet management strategies.

Last year Ford added another engine option to the pursuit vehicle platform, a hybrid option. The hybrid takes advantage of combustion and electronic technology to improve performance and fuel consumption. The upgrade cost for the hybrid engine is \$3,319, Ford estimates the fuel savings from the engine upgrade to be nearly \$3,500 a year, which may be a little optimistic. The fuel consumption difference between the hybrid and the standard vehicle is 7 miles per gallon, which equates to roughly \$3,861 in fuel consumption savings over 100,000 miles.

What is not calculated into this is the reduction of idle time fuel consumption which is anticipated to more than double your fuel cost savings to nearly \$7,750 over the 100,000-mile mark. The Hybrid uses the electric motor to cut engine ideal time consumption from .5 gallons per hour to .2 gallons per hour. Our squads' average engine ideal time over 100,000 miles is 6,000 hours, at a rate of .3 gallons/hr = 1,800 gallons of fuel savings. Estimating fuel prices at \$2.25 a gallon, we pick up another \$4,050 in ideal time fuel savings. These statistics are reported by Ford manufacturing.

The upgraded hybrid will cost an additional \$3,319 at the time of purchase but is anticipated to save us \$7,750 in fuel over the life of service. The hybrid version of the Police vehicle also fits within one of the



PUBLIC SAFETY

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City's global initiatives to explore green initiatives that reduce carbon footprint, reduce operating costs, and still meets the operational effectiveness of the equipment.

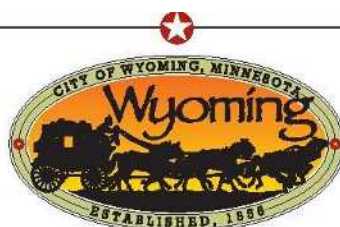
This vehicle would also serve as a pilot program to evaluate the vehicle for future fleet purchases, validating the cost-saving reported by the manufacture. This purchase also includes a 100,000 mile 6 yr warranty for \$1,595, consistent with the rest of the vehicles in our fleet.

The total cost of the vehicle is \$43,197, which includes the vehicle purchase, police conversion outfitting, graphics, and extended warranty. We have budgeted \$47,000 in 2021 for this purchase.

Recommendation:

To authorize the purchase of a 2021 Hybrid Police Utility vehicle for a cost of \$43,197.

Paul Hoppe
Public Safety Director



RESOLUTION NO. 21-2-13

A RESOLUTION TO AUTHORIZING THE PURCHASE OF A 2021 HYBRID POLICE UTILITY VEHICLE FOR A COST OF \$43,197

WHEREAS, The Wyoming Public Safety Department has a vehicle due for replacement as it is nearing the 100,000 miles/6 year allocated service life, and

WHEREAS, The Wyoming Police Department requests replacing this squad with a 2021 Hybrid Police Utility Vehicle, and

WHEREAS, This vehicle has a lower operational cost than existing public safety vehicles used for the same purpose due to it's hybrid features;

THEREFORE BE IT RESOLVED, The City of Wyoming authorizes the purchase of one 2021 Hybrid police utility vehicle for a cost of \$43,197.

CITY OF WYOMING

By:

Lisa Iverson, Mayor

ATTEST:

Robb Linwood, City Administrator/Clerk