



## Council Agenda Report

From: Dwayne Brown, Maintenance Services Superintendent

Subject: Approval of Emergency Services Fire Engine 8192 Replacement

CEQA Determination: The City finds that this action is not a project under the California Environmental Quality Act pursuant to State Guidelines Section State CEQA Guidelines, §§ 15060, subd. (c)(2)-(3), 15378.

Date: July 18, 2023

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### Facts

1. The City has a vast fleet of rolling stock, including a variety of vehicles and equipment, from fire engines to police cruisers to road graders to turf mowers. A replacement schedule for each item is maintained, identifying the year purchased, the planned lifetime, and the year and cost of the expected replacement.
2. The fleet is regularly maintained and repaired, but each fleet item will eventually reach the end of its useful life when it becomes unsafe, does not meet federal or state standards (e.g., for exhaust emissions), or is projected to be more expensive to keep repairing than it is to replace.
3. New vehicle or equipment purchases (additions to the fleet) are required to ensure that each department has the appropriate vehicles and equipment necessary to satisfy changing departmental needs.
4. Prices are compiled using the State bid list and governmental agency cooperative bidding to achieve the lowest possible pricing. Local vendors are given an opportunity to beat cooperative bid prices whenever possible.
5. The City's Vehicle Replacement Policy establishes a front-line fire engine life expectancy of 10 years or 100,000 odometer miles. When properly maintained, retired front line units can usually provide an additional 10 years of service as reserve engines.
6. One primary (front-line) fire engine purchased in 2014 has accumulated approximately 86,327 odometer miles; however, traditional odometer readings are not indicative of all wear. Run time hours associated with pump operation, on-site idling and other factors account for significant wear on the motor and chassis that cannot be evaluated by odometer readings alone. Metropolitan departments equate one hour of run time equal to 50 miles not shown on the odometer. This primary fire engine has 7,684 hours on the meter. Adjusting for the run time, the unit has accrued 384,200 equipment (diesel engine, drivetrain, and pump) run time miles. In the last three fiscal years, this primary fire engine has averaged \$27,822 in annual repairs.
7. This fire engine is scheduled for replacement in 2025, but due to continued supply chain shortages, the build time is estimated to be 43-months.

### Options

1. Do not approve the purchase and replacement;
2. Approve the purchase and replacement of vehicle as presented and find the action exempt from CEQA; or

3. Provide alternative direction to staff.

### **Analysis and Conclusions**

Prior to being considered for replacement, fleet items are examined to determine if the useful life can be extended and still economically and efficiently satisfy the intended need. The requested purchase of a Pierce Velocity Triple Combination Pumping Fire Engine includes equipment essential to Emergency Services operations and for which the useful life has been exhausted. Typically, this request would occur shortly after the start for the fiscal year in which replacement was authorized, however, this request is coming before City Council for consideration sooner due to the additional significant lead time required to purchase this vehicle with the specified equipment. This is due in part to the ongoing supply chain issues currently impacting the availability of vehicles and equipment throughout the country.

Option 1 – Doing nothing is problematic because the vehicle and related equipment scheduled for purchase or replacement is necessary for departmental function and is near the end of its useful life. Delaying purchase of this vehicle will extend the replacement far beyond the already estimated 43-month lead time.

Option 2 – Approving the purchase of a replacement for Fire Engine 8192 is recommended as the vehicle and equipment identified satisfies clear and defined needs and replacement would generally be less expensive over time to keep and maintain.

Option 3 – Staff have worked diligently to identify alternatives for replacement. Given that the equipment requested is essential to support life and safety and both pricing and build times are similar amongst other manufacturers, purchase is the best option.

### **Fiscal Impact**

The replacement cost for a new Pierce Velocity Triple Combination Pumping Fire Engine, radios, and equipment is \$1,219,113.63. The City has an established policy which sets funds aside each year, so impacts of these purchases are spread over the life of the vehicle or equipment rather than in the year purchased. To-date, this piece of equipment has \$460,250 set aside for replacement; in the next 43 months, an additional \$319,880 will be set aside, for a total of \$780,130. The funding policy also addresses any variances between the amounts set aside for replacement and the actual cost to replace fleet and equipment. As a result, the estimated \$438,984 shortfall will either increase future annual set aside amounts and/or be funded from Measure J-20 reserves.

### **CEQA**

The City finds that this action is not a project under the California Environmental Quality Act pursuant to State Guidelines Section State CEQA Guidelines, §§ 15060, subd. (c)(2)-(3), 15378.

### **Recommendation (Option 2)**

Approve Resolution 23-XXX, authorizing the purchase of one Pierce Velocity Triple Combination Pumping Fire Engine with equipment listed herein and as included as part of the City's FY 2024-25 Fleet Replacement Program.

### **Attachments**

1. Resolution 23-XXX – Emergency Services Fire Engine 8192 Replacement
2. South Coast Fire Equipment Proposal
3. Engine 8192 Purchase List Tools and Equipment