



RAPID CITY FIRE DEPARTMENT

Prepare, Prevent, Protect



To: Mayor Kooiker and Council Members
From: Fire Chief Mike Maltaverne
Subject: Squad Concept Vehicle
Date: Aug. 2, 2011

The Fire Department is requesting authorization to advertise for bids to purchase a ¾ ton crew cab pickup to be used as a Squad Unit.

Funding source for the purchase is an unbudgeted reimbursement from a previous Assistance to Firefighters Grant (AFG).

This vehicle would serve as a secondary vehicle to Truck 1 at Fire Station 1, 10 Main Street and be used for both emergency and non-emergency calls for service.

Brief justification:

With the recent economic downturn, the Rapid City Fire Department has worked diligently to identify cost-cutting measures, while still maintaining the high level of service that our citizens have come to expect.

An idea that has been identified and tested is using a smaller, more cost effective vehicle for EMS and service calls in place of Rapid City's only ladder truck or Truck 1.

Background information:

Station 1 at 10 Main is Rapid City's busiest fire station. This station houses our Battalion Chief, Engine 1, Truck 1, Medic 1 and other various emergency response and staff vehicles. In 2010, Engine 1 responded to over 2600 calls for service. While the Engine is busy on these calls, there are often times a second call for service in the downtown area. When this occurs, Truck 1 will respond to the second call for service.

Truck 1 is a 40 foot long fire apparatus with a 100' aluminum ladder used for large scale firefighting operations. It is the only one of its kind in the Rapid City Fire Department's fleet of emergency vehicles and is a critical asset in meeting our current ISO rating of 3.



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Squad 1 concept will compliment Truck 1 and be used for “non-fire” responses (EMS) and non-emergency operations

The cost saving analysis is based on a 3 year time frame:

	<u>Truck 1</u>	<u>Squad 1</u>
• Purchase Price	\$1,000,000	\$40,000
• Tires	\$3000	\$500
• Brakes	\$800	\$150
• Oil/Filtr	\$300	\$40
• Fuel econ. (3240 mi.)	2 mpg (re-gen & Idle)	15 mpg
• Fuel cost (\$3.75/gal.)	\$6075	\$800
• Operating cost	\$10,175	\$1490

Savings of \$8685 in operating and maintenance costs

- Depreciation \$75,000/yr (12 yr. rplct) \$3500/yr (10 yr. rplct)
\$60,000/yr (15 yr. rplct)
- Replacement of Truck 1 extended from 12 yr. to 15 yr. due to decreased wear and tear

Resulting in a \$45,000 savings in depreciation of Truck 1

Cost Savings with Squad Concept Vehicle is \$53,685 over 3 year period