

06/24/2019

Hartwick Fire and EMS Advisory Committee (FEAC)

Report on Equipment Replacement Plan for Hartwick Fire Dept Co1 and 2

The committee has been requested to advise on an equipment replacement plan for the Hartwick Fire Dept.

We have met every once month since February 2019.

The committee has not been well attended so the data may not be complete.

Our findings are based on NFPA guidelines and other best practices.


In 2015 Butch Jones did a report (attached) and provided a time schedule and suggested dollar amounts to fund accounts to have monies available when vehicles need to be replaced.

NFPA recommends replacement or refurbishment of fire engines at the 25 year mark. Refurbishment involves primarily safety equipment such as seat belts, seatbelt warning systems, reflective chevron markings, improved lighting systems, electrical system managers and sufficient electrical capacity for the low voltage systems. Also then these vehicles should be in reserve status and not the first due.

The costs to refurbish can be significant and money may be better spent on replacement of the older vehicles.

Based on our current situation of 0911 being out of service for repair and 0811 being moved into Co2 the committee feels that the Town of Hartwick should have 3 engines in its fleet.

We have also found the need for a more capable 4x4 engine that can be used to access the more inaccessible homes and it can also be used as water supply pumper to get to the limited access fill sites. This truck if properly set-up could be the spare truck in case either 0811 or 0911 is out of service.



Apparatus

The Hartwick Fire District has a total of eleven (11) pieces of Active Service apparatus and one (1) piece of Antique or out-of service apparatus.

Company One consists of two (2) Pumper Tankers, one (1) Tanker, one (1) Rescue, one (1) Brush/Utility, one (1) utility, one (1) Antique and one (1) Ambulance. Estimated original total value of equipment \$900,000.

Company Two consists of one (1) Pumper Tanker, one (1) Tanker, one Brush Utility and one (1) Utility. Estimated original value of equipment \$286,000.

The following table looks at the estimated replacement year and estimated cost of the replacement item. If a budget were to be established to purchase the item outright in the estimated replacement year the Colum at the right identifies the amount necessary to do so. Of note: this is only one replacement cycle. Commencing each replacement year per item additional funds would be set in motion for those items next replacement cycle.

Replacement Time Table

| Company & Apparatus | Vehicle. Year | Cost New | Replacement Year | Service Age | Estimated Replacement Cost | Save per year to acquire |
|--|---------------|-------------|------------------|-------------|----------------------------|--------------------------|
| Co. 1 Ambulance | 2013 | \$159,000 | 2020 | 7 | \$191,000 | \$38,200 |
| Co. 1 Utility 4X4 | 2000 | \$5,000 | 2020 | 20 | \$8,000 | \$1,600 |
| Co. 2 Tanker | 1994 | \$125,000 | 2024 | 30 | \$200,000 | \$22,223 |
| Co. 1 Rescue | 2000 | \$180,000 | 2025 | 25 | \$250,000 | \$25,000 |
| Co. 1 Tanker | 1994 | \$75,000 | 2025 | 31 | \$200,000 | \$20,000 |
| Co.2 Brush | 2000 | \$20,000 | 2025 | 25 | \$30,000 | \$3,000 |
| Co.2 Utility | 2006 | \$16,000 | 2026 | 20 | \$50,000 | \$4,546 |
| Co.1 Brush | 2005 | \$90,000 | 2030 | 25 | \$140,000 | \$9,334 |
| Co.2 Engine | 2008 | \$125,000 | 2030 | 22 | \$500,000 | \$33,334 |
| Co.1 Engine | 2012 | \$331,000 | 2032 | 20 | \$500,000 | \$31,250 |
| | | | | | | |
| Co.1 Engine | 1989 | \$100,000 | 2032 | 43 | Surplus | |
| Co.1 Antique | 1946 | \$6,500 | | | | |
| | | | | | | |
| TOTAL | | \$1,232,500 | | | \$2,069,000 | |
| Reserve until year 2020 start 2016 | | | | | | \$188,487 |
| Update Ambulance and Co.1 Utility 2020 | | | | | Reduce Reserve by | \$39,800 |
| Reserve 2021 to 2024 | | | | | | \$148,687 |
| Update Co. 2 Tanker 2024 | | | | | Reduce Reserve by | \$22,223 |
| Reserve to 2025 | | | | | | \$126,464 |
| Update Co.1 Rescue, Tanker & Co.2 Brush/Utility 2025 | | | | | Reduce Reserve by | \$48,000 |
| Reserve to 2026 | | | | | | \$78,464 |
| Update Co.2 Utility 2026 | | | | | Reduce Reserve by | \$4,546 |
| Reserve to 2030 | | | | | | \$73,918 |
| Update Co.2 Engine Co.1 Brush 2030 | | | | | Reduce Reserve by | \$42,668 |
| Reserve to 2032 | | | | | | \$31,250 |