

# ANNUAL IMPROVEMENT PLAN REQUESTS 2012-2017



*Courage – Integrity - Honor*



# Fire CIP Overview



## “ Fire Facilities Maintenance

- . Fire Station and Department Building Upkeep and Improvement

## “ Auxiliary Power Supply - Generators

- . Backup Generators for Fire Stations

## “ Fire Major Capital

- . Fire Engines
- . Ladder Trucks
- . Paramedic Units



# Fire Repair Shop

## “ Eliminated from 2012-2017 CIP Requests

- . Recognition of fiscal impact
- . Redeveloping for 2013-2018 CIP re-inclusion with significant comprehensive improvement in supporting data and single location plan
- . Present we have a statistically insignificant data set
  - “ Manager Plus fleet management program field tested and being implemented
  - “ Represents major positive shift in operational efficiency and record keeping

# Fire Facilities Maintenance



## “ Fire Station and Department Building Scheduled and Unscheduled Maintenance

2012 request \$716,250.00

- Roof repair and replacements
- HVAC replacement and repairs
- Overhead door replacements
- Window replacements
- Ventilation issues
- Masonry upkeep and repairs
- Interior and exterior work

# Generator Power Supply - Generators



## “ Generator Replacement Schedule

- . Program support consistent at \$110,000 will fund two (2) generators per year
  - “ Remaining 13 stations will require more complex installation work, such as base electrical rewiring needed to accommodate generators.
  - “ The Bureau of Electrical Services of DPW reports a substantial increase in the cost of copper.
  - “ Average installations have cost \$30K per unit; current estimates put upcoming installations at \$45K per unit - this will allow us to install 2 generators per year.
  - “ With the current funding at \$110,000 per year, the project is expected to be completed by year 2018.

# Fire Major Capital



“ The MFD Apparatus Replacement Schedule is based upon 12 years front-line service and 6 years in reserve service and recommends the purchase of:

- Engines.....2 in (2012) then 3 per year
- Trucks.....1-1-2, continuous cycle
- MED Units.....3 per year

**2012 request \$2,814,000**



# Fire Major Capital



**“ The MFD Apparatus Replacement Schedule ensures that our fleet remains in good shape long term and the City does not have years when large apparatus purchases are necessary.**

- Fire Engines  
• 12 to 15 years on front-line  
• 17 to 18 years old reserve
- Ladder Trucks  
• 13 to 18 years on front-line  
• 15 to 20 years in reserve
- MED Units  
• 4 to 5 years on front-line  
• 6 to 7 years in reserve

# Fire Major Capital



## “ The MFD Apparatus Replacement Schedule of 12 years in front-line service and 6 years in reserve is working

- In 2000 and again in 2005 the MFD introduced a replacement schedule of 12 years front-line service and 6 years in reserve for our MFD apparatus .
- Continuing this replacement schedule insures that our fleet meets and exceeds the NFPA Standards.
- Continuing this replacement schedule insures the city is never in the position of needing to spend large amounts of capital dollars to upgrade the fleet (1998 - 7 Engines, 2003 - 5 Engines, 2008 . 8 Engines, 2004 . 4 Ladder Trucks, 2006 . 6 Ladder Trucks).



# Fire Major Capital



## “ Fire Apparatus Service Life

- NFPA 1901 is a standard for all departments; MFD apparatus are busier and have more miles on them than many departments. The NFPA recognizes that apparatus (in busy urban areas) have a service life much shorter than the recommended standard.
- Cold weather climates where corrosives are used take a toll on fire apparatus.
- NFA study on fire apparatus addresses factors that effect fire apparatus life span:
  - “ Repeated acceleration and deceleration cycles
  - “ Frequent defensive driving maneuvers
  - “ High engine speeds prior to sufficient warm-up
  - “ Higher rate of accidents / vehicles in harms way
  - “ Planned obsolescence because of new standards, technology, and apparatus advances

# Fire Major Capital

*“ NFPA 1901 . Standard for Automotive Fire Apparatus (2009), Annex D.1*

- 50% Fire departments should seriously consider the value (or risk) to firefighters of keeping fire apparatus older than 15 years in first-line service. It is recommended that apparatus greater than 15 years old that have been properly maintained and that are still in serviceable condition be placed in reserve status+

. **NFPA 1901 applies to Fire Engines and Ladder Trucks**