

Chief
Mark Rohlifing

Assistant Chief
Support Bureau
Gerard Washington

Battalion Chief
Construction & Maintenance Division
Dale Schwark

Fire Equipment Repair Manager
Michael Reid

Fire Technical Service Manager
Deborah Wilichowski



*
**Milwaukee Fire
Department**
Capital Improvement Committee Presentation

2013

* 41 Structures

35 Fire Stations + 1 Leased

Repair Facilities

Primary Repair Building

Butler Building

Cold Storage Building

* Facility Overview



*41 Structures (CONTINUED)

Fire & EMS Training Facilities

Recruit Training Building (w/
Pump Testing Facility)

Fire Training Tower (Inspected
in April of 2012)

**Fire Education and Historical
Museum**

* **Facility Overview**

- * Average Age of Structures - 58 years
- * Oldest Structure - Engine 1 - 142 years
- * Newest Structure - Engine 35 - 16 years

* Facility Overview

*Age Groupings

0-25 years old - 4 Structures

26-50 years old - 17 Structures

51-75 years old - 9 Structures

76-100 years old - 3 Structures

100+ years old - 8 Structures

*Facility Overview

*Basemented Apparatus Floors

- * 12 Total Studied In October/November of 2012

- * Present Data is Positive - No Immediate Safety Issue

- * E3, E6, and E7 require shoring to meet code

- * Additional bids requested (DPW)

- * Move to begin floor by floor assessment to determine repairs

* Facility Overview

*Fueling Sites

21 Total Fill Sites

18 Diesel

6 Unleaded

2 Dual

Comprehensive monitoring has begun

-Central monitoring (shop)

Next step to use Manager Plus to further monitor

*Facility Overview

*Energy Use Reduction Initiatives

Fire Station Energy Audits

Completed at 8 Fire Stations & Shop

Solar Hot Water Heaters

5 Installed

Program Slowed due to Change in Grant for Equipment/Installs

Internal Energy Reduction Culture Change Underway NOW!

Engine 18 kickoff of “Cool Choices”

*Facility Overview

- * Facility Inventory - CIP Integration
 - Major Capital 20 YEAR Replacement Schedule
 - Paperless Integration for Facility Tracking - Manager Plus

- * Energy Reduction Team
 - Active Sustainability Improvements
 - Intensive Energy Reduction Audits
 - Development of Scope of Work for Comprehensive Energy Reduction Investments

- * Replacement Study
 - Collective asset replacement study ongoing

* Facility Plan

<u>House</u>	<u>2014 Projects</u>
Engine 1	Water heater, Concrete replace/inspection
Engine 2 /Admin.	Paint/inspection (8yrs)
Engine 3	
Engine 4	Water heater
Engine 5	
Engine 6	A/C, Apparatus floor replace/inspection
Engine 7	
Engine 8	Tuck point/inspection, Window replace/inspection, Door replace/Inspection, A/C
Engine 9	Overhead doors, Boiler replace/inspection, Water heater
Engine 10	
Engine 11	
Engine 12	A/C, Boiler replace/inspection
Engine 13	
Engine 14	Tuck point/inspection, Paint/inspection (8yrs)
Engine 16	
Engine 17	Concrete replace/inspection
Engine 18	Water Heater
Engine 21	Paint/inspection (8yrs), Window replace/inspection, Door Replace/inspection, Tuck-point
Engine 22	Electrical upgrade/inspection
Engine 23	Roof replace/inspection, Tuck-point
Engine 24	
Engine 25	
Engine 26	Tuck-point, Apparatus floor replace/inspection, Foundation inspection
Engine 27	Foundation inspection, Concrete replace/inspection
Engine 28	Electrical upgrade/inspection, Foundation inspection
Engine 29	
Engine 30	
Engine 31	Floor Replace/inspection
Engine 32	
Engine 33	
Engine 34	Electrical upgrade/inspection
Engine 35	
Engine 36	Paint/Inspection (8yrs)
Engine 37	
Engine 38	
Engine 39	Concrete replace/inspection
Burn Tower	
Shop	Electrical upgrade/inspection, Water heater
Recruit training	
Ed Museum	

* Comprehensive Asset Plan - 2014 Projects

*Fixed Auxiliary Generators

22 Placed and Working

-2 Pending from 2011 funds

-1 Pending from 2012 funds

-1 pending from 2013 funds

Working with DPW to expedite

*Generators

Milwaukee Fire Department Fire Major Capital Purchasing Plan / Projected Costs 2014-2019

Vehicle Type	2014 REQ	2015	2016	2017	2018	2019	6-Year CIP TOTAL
Multiplier	1.05	1.03	1.03	1.05	1.03	1.03	
ENGINES	529,000	545,000	562,000	591,000	609,000	628,000	
Purchasing Pattern (2-3-3)	3	3	2	3	3	2	
TOTAL	1,587,000	1,635,000	1,124,000	1,773,000	1,827,000	1,256,000	9,202,000
TRUCKS	768,000	792,000	816,000	857,000	883,000	910,000	
Purchasing Pattern (1-1-2)	1	2	1	1	2	1	
TOTAL	768,000	1,584,000	816,000	857,000	1,766,000	910,000	6,701,000
MED UNITS	205,000	212,000	219,000	230,000	237,000	245,000	
Purchasing Pattern (2-3-2-3)	3	2	3	2	3	2	
TOTAL	615,000	424,000	657,000	460,000	711,000	490,000	3,357,000
YEARLY TOTAL	2,970,000	3,643,000	2,597,000	3,090,000	4,304,000	2,656,000	19,260,000

* **Fire Major Capital**



* Present Repair Shop

- * Built in 1929
- * Designed for apparatus of an earlier era
- * Limited workspace
- * Modern apparatus require tilting of the cab for most repairs (3-4 at one time)

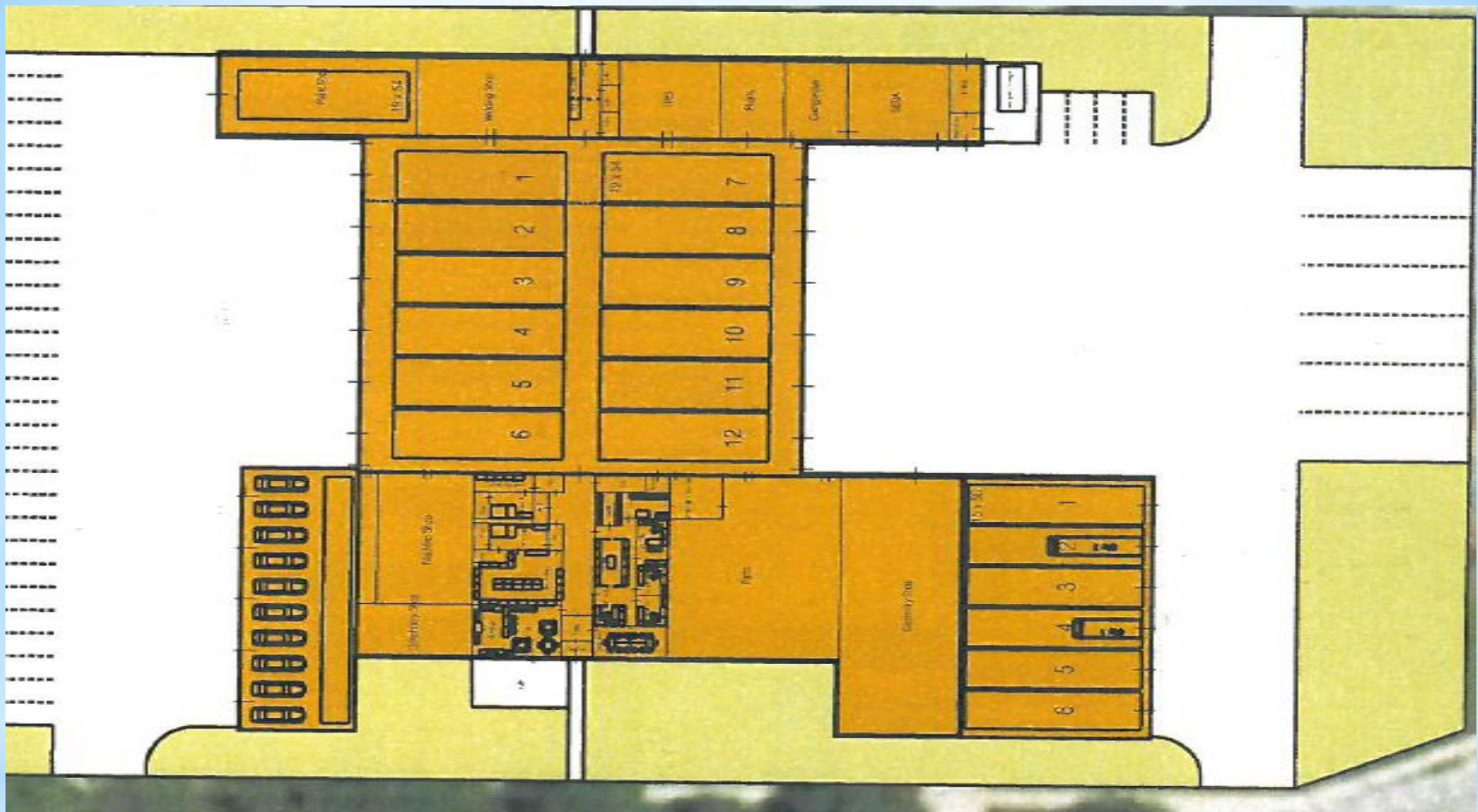


* Present MFD Repair Shop

- * Inefficient
 - * Workspace
 - * Change-over of Reserves
 - * HVAC
 - * Most expensive facility
 - * Extreme temperatures



* Present MFD Repair Shop



* MFD Proposed Repair Shop

- * Built for today's apparatus
- * Expedite changeover to reserve apparatus
- * All repair bays allow for tilting of cabs
- * Architect allowed the most efficient use of space under one roof
- * Green Structure

* MFD Proposed Repair Shop

* Requesting Matching Funds for Assistance to Firefighter Grant

* County-wide effort to save on operation costs

Paramedics and EMTs are required to have 30 to 45 hours of “face to face” continuing education and refresher training per year.

* City of Milwaukee Savings

\$65K in overtime costs

\$8k in fuel costs

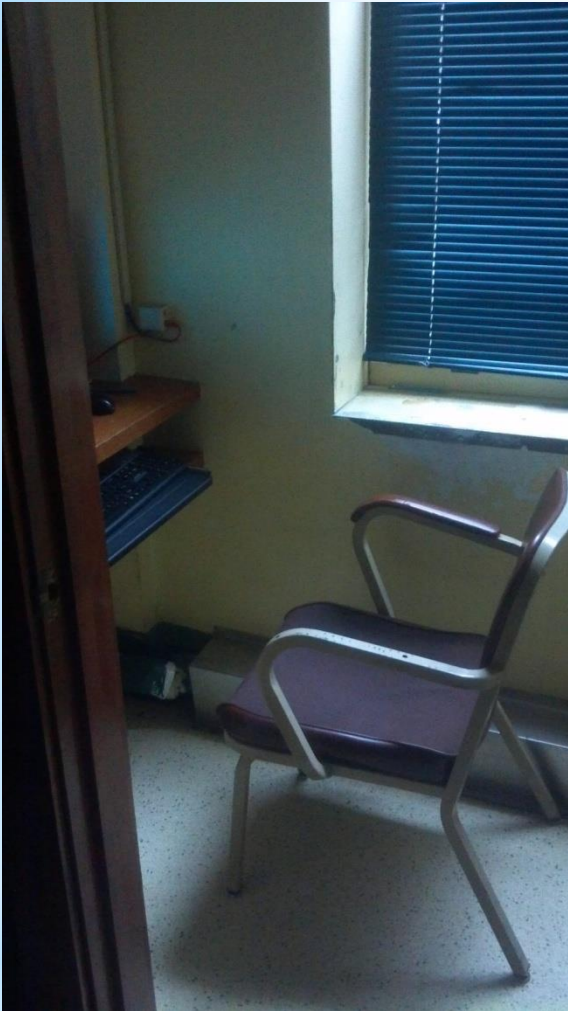
485 hours in travel time

* Other Benefits

Faster response in the event of a major emergency during training

More time available for firefighting companies to spend on pre-fire plans, smoke detector installation, and other community outreach programs.

* Regional Video Conferencing



- * Limited Space
- * Inappropriate Locations
- * Impractical

* Current Training Set-ups

*** A cooperative effort was made to apply for the Assistance to Firefighter Grant (AFG) to find a solution for a shared problem**

*** 11 Fire Departments covering 17 communities participated in the grant application process**

North Shore Fire Department

Wauwatosa Fire Department

West Allis Fire Department

Greenfield Fire Department

Greendale Fire Department

Hales Corners Fire Department

Franklin Fire Department

Oak Creek Fire Department

South Milwaukee Fire Department

Cudahy Fire Department

*** Regional Video Conferencing**

* Included in the AFG application

61 video conference endpoints; 37 of them for MFD

8 large conference room set ups; 2 of them for MFD

Conference bridge to allow hosting of conferences

Installation, set up and training for all departments

3 years of prepaid maintenance for all systems

* Grant request is for \$1,194,600 with a required 20% match

Each department pays for their own 20% match

MFD share is approximately \$800,000, requiring a 20% match of \$160,000

* Regional Video Conferencing

- * The regional video conferencing grant is the first collaborative effort of its kind, and could be the pre-cursor to other such joint technology initiatives
- * Failure to participate could jeopardize the project for the whole region

* Regional Video Conferencing