Chief Mark Rohlfing

Assistant Chief Support Bureau Gerard Washington

Battalion Chief Construction & Maintenance Division **Dale Schwark** 

Fire Equipment Repair Manager Michael Reid

# Milwaukee Fire Department

Capital Improvement Committee Presentation 2015



### **Facility Overview**

41 Structures

#### 35 Fire Stations + 1 Leased



### Repair Facilities Primary Repair

Primary Repair Building Butler Building Cold Storage Building  41 Structures (cont.)
 Fire & EMS Training Facilities

 Recruit Training Building (w/ Pump Testing Facility)
 Fire Training Tower (Inspection scheduled for 12/19/2013)

Fire Education and Historical Museum

### Facility Overview



### **Facility Overview**

Average Age of Structures - 59 years

- Oldest Structure Engine 1 143 years
- Newest Structure Engine 35 17 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



Legend:											Work Needed	
FL=Floor Replace/Inspection			PT = Paint/Inspection(8yrs)					WH = Hot Water Heater Replace/Inspection(10yrs)				e
RI = Roof Replace/Inspection(20yrs)			A/C = Air Conditioner Replace/Inspection(15yrs)				FDI	FDI = Foundation Inspection				SS
EU = Electric Upgrade/Inspection		OHD = Overhead Door Replace/Inspection(10yrs)					=Mold			Temp Repairs		
HVAC	C = HVAC Replace/In	nspection(20yrs)	WE	D = Window Replace/I	nspection		CC	=Concrete Replace/I	nspection			
BI	I = Boiler Replace/I	nspection(20yrs)	API	F = Apparatus Floor St	udy/Inspection/Repla	ice	GEN	= Generator Inspectio	on(50yrs Life)			
ТР	P = Tuck Piont/Inspe	ection(20yrs)	D	I = Door Replace/Insp	ection							
House	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Eng 1	FI, A/C,TP	EU,OHD,DI	WH,CC	РТ		ві	WD			wн		
Eng 2& Admin	FI, A/C, WD		РТ	онр							CC,PT	
Eng 3				RI, TP,OHD	APF,FDI				A/C			
Eng 4	ТР	сс	wн		РТ	OHD,WD,DI	RI		HVAC			
Eng 5	TP,CC	HVAC(I),CC				ОНД	RI,WH					
Eng 6	APF,PT,FDI	EU,TP, APF,CC	A/C, <mark>APF</mark>		WD,DI	wн			ОНД			
Eng 7	PT,MD	EU, APF,A/C								wн		
Eng 8	EU,FL	WH,FL,BI,PT,DI	TP,WD,DI, A/C	HW,FDI			RI,OHD		WD,DI	PT		
Eng 9	FDI, RI	CC,FDI,DI	OHD,BI,HW	PT			HVAC,BI		, í			
Eng 10	WH,RI	EU,APF,PT,RI		A/C,OHD		DI,WD	сс		1			
Eng 11	vvri,m	RI			wн	OHD				HVAC		-
Eng 12		DI	А/С,ВІ		WH					RI		-
			Аус,ы	RI			wн		HVAC			-
Eng 13	DI		ТР,РТ			DIMD	OHD		HVAC	NA/11		-
Eng 14	RI	BI,HVAC, <mark>RI</mark>	19,91			DI,WD				WH		-
Eng 16	FL,CC,DI	BI,HVAC,WD		RI,TP		PT					WH,	-
Eng 17	FL	EU, A/C,PT	cc	WH	WD,DI					PT		-
Eng 18	FL,PT	RI,HVAC,TP	WH			OHD			PT			-
Eng 21	DI,FDI	WH,HVAC, <mark>B</mark> I	PT, WD, DI, <mark>TP</mark>	WH,FDI	EU,CC	FL	OHD			PT		
Eng 22	RI, PT,TP	WD, DI,	EU	WH					OHD,PT			-
Eng 23			RI,TP		HVAC	wh,ohd	FL	DI,WD		RI		-
Eng 24		EU		WD	WH	RI,HVAC,TP	ОНД	ТР	PT			-
Eng 25		WH,CC,					_	HVAC	онр	_	RI	_
Eng 26		EU,HVAC, <mark>OHD</mark>	TP,APF,FDI		RI	WH	_					
Eng 27	FL	RI,TP,DI	FDI,CC	HVAC	ОНД	WH,WD,DI		PT				
Eng 28	RI	A/C	EU,FDI	BI/TP		WH			онр			_
Eng 29		WD, BI,PT		wн		RI,TP	HVAC, OHD					
Eng 30	RI,TP	BI,HVAC,APF		OHD	RI	РТ	WH					_
Eng 31	DI	FDI, <mark>B</mark> I	FL	wн			wн					
Eng 32	RI	HVAC, <mark>RI,TP</mark>	_	wн		1						
Eng 33	WEST	MILWAUKEE			WEST	MILWAUKEE			WEST	MILWAUKEE		
Eng 34	FL, A/C,TP	OHD,WH,PT, <mark>RI</mark>	EU							РТ		
Eng 35	FL	WH, <mark>FDI</mark>		RI,HVAC					онр			
Eng 36	FL	CC,WH,OHD	РТ	RI,HVAC,TP			WD		онр		PT	
Eng 37		wн,cc		HVAC	RI,TP	онр	PT,DI		WD,FL			
Eng 38	RI,PT	RI,PT,FL		HVAC,WH,DI	APF,CC			WD		PT		
Eng 39		HVAC	СС			RI,TP	WH,PT	FL		WD,DI		
Burn Tower	INSP											
Shop		BI,OHD,WD	EU,WH									
Recruit Train		DI		РТ								
Ed Museum												
La mascum												_

House	2012	<u>2013</u>	<u>2014</u>
Eng 1	FI, A/C,TP	EU,OHD,DI	WH,CC
Eng 2& Admin	FI, A/C, <mark>WD</mark>		PT
Eng 3			
Eng 4	ТР	сс	WH
Eng 5	TP,CC	HVAC(I),CC	
Eng 6	APF, <mark>PT</mark> ,FDI	EU,TP, APF,CC	A/C, APF
Eng 7	PT,MD	EU, APF,A/C	
Eng 8	EU,FL	WH <b>,FL</b> ,BI,PT <mark>,DI</mark>	TP,WD,DI, A/C
Eng 9	FDI, RI	CC,FDI,DI	OHD,BI,HW
Eng 10	WH,RI	EU,APF,PT,RI	

20 year Facilities Forecast Work Needed Work Completed Work in Progress Temp Repairs

House	2016 Repairs
Eng 2	Window replace
Eng 3	Floor inspection, Foundation Inspection
Eng 4	Paint ?/Inspection
Eng 6	Window replace/ Door replace
Eng 11	Hot water heater
Eng 12	Hot water heater
Eng 17	Window replace/ Door replace
Eng 18	Roof replace
Eng 21	Electric upgrade, Concrete replace
Eng 23	HVAC
Eng 24	Hot water heater
Eng 27	Overhead doors, Roof replace
Eng 37	Roof replace, tuck point

Eng 38 Floor inspection/Concrete replace

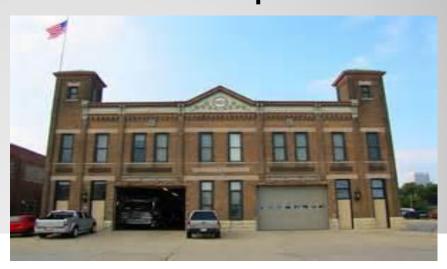
## **Comprehensive Asset Plan –** 2015 Projects

		i						
	Engine 1							
Address	784 N Broadway			Replacement Value:	\$2,254,283			
Year Built	1872							
Building Area	14,095 SF			Equipment Housed	Depreciated Value	2012 Repair Costs		
Lot Area				Engine 1	\$292,508.30	\$4,244.70	13	
Roof Area	7,048 SF			Reserve Engine 40		2013 Auction		
Floors	2				\$292,508.30	\$4,244.70		
Foundation	Slab						A CONTRACTOR	
Exterior Wall								
	Surface	Brick						
	Frame	Steel						
Windows	Double hung, alum	ninum, thermo	)	Number of Personnel	Estimated Payroll		Energy Costs	
Floors	Vinyl, wood & Tile			4 Daily/12 Total	\$808,259	Engine #1 closed	Electric	\$5,133.59
Electrical	Main Switch 400 A	Amp 3 Phase		* 1 Capt , 2Lt , 3 HEO,	6 FF, No Factor applied		Natural Gas	\$9,399.43
S & D Voltage	120/208			Station Repairs				\$14,533.02
Heating	Boiler, Steam			\$3,886.51				
Cooling	Window Air system	n						
Ventalation	Roof/Wall Exhaust	t Fans						
Roof	Flat, Wood Deckin	g & Frame, Ba	llasted					
	Year Installed	Quantity	Condition	Model/Make	Serial #	Life Of Component		
Boiler	2002	2	Good	5007N/Burnham	64468945/64468942	20 yrs		
Water Heater		1	Good	BT80/AO Smith	MA97 - 0620068 - 230	10 yrs		
A/C Unit				Window Units		15 yrs		
HVAC System	N/A					20 yrs		
Concrete			Good			20 yrs		
Landscape			N/A			N/A		
Foundation			Good			N/A		
Exterior Wall			Good			10 yr Insp.		
Roof	2010	1	Excellent	EPDM/Membrane	Garland	20 yrs		
Interior Walls/Paint			Fair					
Flooring			Fair					
Generator			N/A			50 yrs		
Windows			Good					
Deer(a)			Good					
Door(s)								

# **Single Asset Plan**

# Fixed Auxiliary Generators 26 Placed and Working Finishing E11, E17, E28 and E34 Engine 7 (2015) Firehouse 1,6,26 and 27 left Working with DPW to expedite

Generators



### **Fire Repair Facility**



### Fire Records Management System Replacement

- Current system non-compliant with Federal Reporting Requirements – NFIRS 5.1
- Grant eligibility dependent on compliance.
- Compliant reporting required for State 2% Fire Dues.



### Fire Records Management System Replacement

Application Support no longer available.

- Oracle 9i backend database no longer supported by Oracle.
- VB6 & 8 no longer supported by Microsoft.

• Requires Windows XP.



### Fire Records Management System Replacement

- Usability
- Client application has no built-in error checking; allows officers to fill out reports incorrectly.
- Every report needs to be manually checked for accuracy.

### Justification for Radio Consoles and Gateway

- Inter-RF Subsystem Interface (ISSI) Gateway
  - Required for interoperable communications with the new County Radio System.
  - County committed to their part of the link.
  - Benefits of link.
  - Failure to establish link will severely impact County Fire Departments Shared Services initiative.

### Justification for Radio Consoles and Gateway

### Replacement Radio Consoles

- Required OS, Windows XP, no longer supported or available.
- Replacement parts no longer available.



