### Milwaukee Fire Department 2010 Strategic Plan



Working, Effectively, Efficiently and Responsibly to Protect Public Safety



## Agenda

- Safety Objective
- > 2010 Fire Department Budget
- > 2010 Brown-Out Study
- January Incidents
- Brown-Out Parameters
- Special Duty Analysis
- Monitoring Progress/Training



## Safety Objective

To protect the lives

 and property of members
 of the community while
 ensuring the lives
 of firefighters of the
 Milwaukee Fire Department









## 2010 Fire Department Budget

- Permanently decommission 1 company based on various factors but applicable only to companies within fire stations w/ engine + ladder company
- No fire station closings
- No firefighter layoffs/furloughs
- Truck staffing reduced from 5 to 4
- Daily decommission 2 brownouts based on factors including a company's vacancy status



## Brown–Out Study 2010

Study done with Apparatus Deployment Analysis Module (ADAM). The company Deccan International develops mapped based solutions to evaluate:

- Impact of apparatus deployment changes on response performance
- Evaluate impact of engine and truck brown-outs.
- Compare coverage performance vs. incident performance

Consideration given to the response performance of first due engine or truck companies city-wide.



## Brown–Out Study 2010

- ADAM divides the City into 2,204 polygons, of which 205 have no road network making analysis impossible.
- The analysis was done for both coverage and incident performance.
  - Incident performance weights high call volume areas over lower call volume areas.
  - Coverage performance weights the entire City equally.



# Brown Out Study 2010

Scoring is based on meeting the following goals:

- First engine on scene in less than or equal to 6:00 min.
- First truck on scene in less than or equal to 6:00 min.
- Second engine in less than or equal to 7:00 min.
- Time is measured from when the call is answered at dispatch to unit on scene.

The map displays the percentage that a company would meet the time goal. Dark green indicates 90% to 100%, light green 80% to 90%, yellow 70% to 80%, pink 50% to 70% and red, 0% to 50%.



### Base Line 1<sup>st</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1220] 55.35% 80%to 90% [298] 13.52% 70%to 80% [159] 7.21% 50%to 70% [146] 6.62% 0%to 50% [176] 7.98% No Access [205] 9.30%

**Incident Performance:** 

First Engine on scene <=6:00 90% Avg. 4:33

Coverage Performance:

First Engine on scene <=6:00 82% Avg. 4:53



### Base Line 2<sup>nd</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1097] 49.77% 80%to 90% [304] 13.79% 70%to 80% [168] 7.62% 50%to 70% [172] 7.80% 0%to 50% [258] 11.70% No Access [205] 9.30%

Incident Performance:

2<sup>nd</sup> Engine on scene <=7:00 90% Avg. 5:29

Coverage Performance:

2<sup>nd</sup> Engine on scene <=7:00 78% Avg. 6:01



### E23, E39 Browned Out 1<sup>st</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1144] 51.90% 80%to 90% [273] 12.38% 70%to 80% [155] 7.03% 50%to 70% [159] 7.21% 0%to 50% [268] 12.15% No Access [205] 9.30%

**Incident Performance:** 

First Engine on scene <=6:00 89% Avg. 4:36

Coverage Performance:

First Engine on scene <=6:00 78% Avg. 5:01



### E23, E39 Browned Out 2<sup>nd</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1044] 47.36% 80%to 90% [281] 12.74% 70%to 80% [155] 7.03% 50%to 70% [179] 8.12% 0%to 50% [340] 15.42% No Access [205] 9.30%

**Incident Performance:** 

2<sup>nd</sup> Engine on scene <=7:00 88% Avg. 5:35

Coverage Performance:

2<sup>nd</sup> Engine on scene <=7:00 74% Avg. 6:12



### E11, E24 Browned Out 1<sup>st</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1145] 51.95% 80%to 90% [291] 13.20% 70%to 80% [177] 8.03% 50%to 70% [183] 8.30% 0%to 50% [203] 9.21% No Access [205] 9.30%

**Incident Performance:** 

First Engine on scene <=6:00 89% Avg. 4:36

Coverage Performance:

First Engine on scene <=6:00 81% Avg. 4:57



### E11, E24 Browned Out 2<sup>nd</sup> Engine on Scene



#### Polygons meeting goal

90%to 100% [1003] 45.50% 80%to 90% [310] 14.47% 70%to 80% [188] 8.52% 50%to 70% [204] 9.25% 0%to 50% [285] 12.93% No Access [205] 9.30%

**Incident Performance:** 

2<sup>nd</sup> Engine on scene <=7:00 89% Avg. 5:32

Coverage Performance:

2<sup>nd</sup> Engine on scene <=7:00 76% Avg. 6:06



### **Study Results**

	Incident 1 st Engine Time	Coverage 1 st Engine Time	Incident 2 <sup>nd</sup> Engine Time	Coverage 2 <sup>nd</sup> Engine Time
Current	4:33	4:53	5:29	6:01
E23,E39	4:36	5:01	5:35	6:12
E11, E24	4:36	4:57	5:32	6:06



### 2768 N. 81<sup>st</sup> Street

### **Response Times**





### 628 W. Clarke Street





## 908 E. Wright Street



- \* **E6**: On-scene status based on report by command after dispatch request for E6 status. E6 likely on scene much earlier.
- \* M7: On-scene status/time based on dispatch view of GST Mapper.
- \* E21: On-scene time confirmed by radio transmission transcript.



### 1814 E. North Ave.

**Response Times** 





Timely response to events has a direct impact on the outcome of any emergency. The success of this strategy is measured by an average response time of five minutes or less for 90 percent of calls received according to the NFPA (National Fire Protection Association). Of the total 68,382 calls for service responded to by the MFD in 2008, 88.01 percent were responded to within five minutes or less.

Indicators tracked through the AIM program show that the advanced life support responses provided by the Milwaukee Fire Department have a positive impact on survival rates for penetrating trauma incidents. In 2008, of the 85 stabbing incidents responders treated, 85 patients (100 percent) survived. Of the 158 gunshot wound EMS responses, 149 (95 percent) of the victims survived.

Quick response to fires is important to prevent fire fatalities and minimize injuries and property loss. Ideally, individuals are warned by fire safety devices like smoke detectors to vacate the property before a fire becomes hazardous. However, a quick response allows the department to get personnel to the fire as soon as possible and rescue anyone trapped in the fire. Thermal imaging cameras allow firefighters to locate trapped individuals through smoky conditions.



### **Smoke Detectors Save Lives**

- January 4, no working smoke detector
- January 9, no working smoke detector
- January 11, no working smoke detector
- January 19, working smoke detectors



Milwaukee Fire Department

### MFD Smoke Detector Hot Line 414-286-8980



### **Brown-Out Parameters**

- Companies in single houses exempt from brown-out
- Companies in special team houses are exempt from brown-outs
- Scheduling coincides with MFD's 27 day work cycle
- Companies selected for brown-outs were selected from separate battalions
- Downtown companies , (E1, T1, E2, T2) were exempt
- Companies at 2647 N. Bartlett Ave (E27 & T5) exempt



## Special Duty Budget Analysis

- Special Duty is the hiring of firefighting personnel during their off days to cover shift vacancies created when members' do not work their regular shifts due to vacations, holidays, paid off days, sick leave, injury leave, union business, department business, funeral or family medical leaves taken in 24 hour blocks.
- Other overtime rates are defined by labor contract, applicable to < 24 hour assignments</p>
- FLSA paid based on total hours worked beyond 204 hrs during a 27-day FLSA cycle

## Special Duty Budget Analysis

- Firefighting OT/Special Duty Budget 3.2 Million
- # members hire on SD, daily limit
- Cost per day based on 16 hires
- Average SD hires per day, at 1/31
- Estimated Special Duty costs
- Allocated budget
- SD estimated overage, at 1/31

\*does not include FLSA and other contractual overtime costs Data Sources: 2010 Adopted Budget & Dec 27-Jan 31 MFD Car3 daily staffing reports

16

24.2 members

\$ 555,935.68

\$ 319,645.80

\$ 236,289.88\*

\$8,879.05

## Monitor progress/Training

- Collaborate with budget office to confirm status
- > 2010 inter-battalion training
- February recruit class should reduce brown-outs
- Begin recruit class of 35-50 no later than June/July
- > Begin Paramedic class of 12 as soon as possible
- > Adjust brown-outs to weather, training, special events, etc...

