



# 2011 SAFER Grant

City Council Work Session August 9, 2012



# SAFER Grant Basics

- The Staffing for Adequate Fire and Emergency Response (SAFER) Grant was created to provide funding directly to fire departments to help them increase the number of trained, "front line" firefighters available in their communities.
- The goal of SAFER is to enhance the local fire departments' abilities to comply with staffing, response, and operational standards established by the NFPA and OSHA (NFPA 1710 and/or NFPA 1720 and OSHA 1910.134).



# 2011 SAFER Grant Award To City of Durham Fire Department

- Funding for two years to hire an additional 15 firefighters, \$1,384,650
- If the City accepts the funding it will have to agree to fund the 15 firefighters for an additional 12 months (FY2015) after the 24 month Period Of Performance.



# Financial Impact

- No match requirement in 24 month funding period
- Obligation to cover costs higher than entry level salary and benefits
- Obligation to retain all 15 firefighters for 12 months following 24 month period of performance



| Cost Per Firefighter                                      | Year           |                |                |                |                  |
|---|----------------|----------------|----------------|----------------|------------------|
|   | FY13           | FY14           | FY15           | FY16           | Total            |
| Salary  | 22,000         | 33,000         | 33,858         | 34,874         | 123,732          |
| Medicare  | 319            | 479            | 491            | 506            | 1,794            |
| Retirement  | 1,483          | 2,224          | 2,282          | 2,351          | 8,340            |
| 401k  | 990            | 1,485          | 1,524          | 1,569          | 5,568            |
| Life insurance  | 51             | 76             | 76             | 76             | 279              |
| Health  | 5,440          | 8,160          | 8,160          | 8,160          | 29,920           |
| Dental  | 251            | 376            | 376            | 376            | 1,379            |
| 457   | 1,100          | 1,650          | 1,693          | 1,744          | 6,187            |
| Degree  | 367            | 550            | 564            | 581            | 2,062            |
| <b>Total - 1 Position</b>                                 | <b>32,000</b>  | <b>48,000</b>  | <b>49,024</b>  | <b>50,236</b>  | <b>179,260</b>   |
| <b>Total - 15 Positions</b>                               | <b>479,997</b> | <b>719,996</b> | <b>735,357</b> | <b>753,547</b> | <b>2,688,896</b> |
|   | FY13           | FY14           | FY15           | FY16           | Total            |
| Salaries  | 330,000        | 495,000        | 507,870        | 523,110        | 1,855,980        |
| Benefits  | 149,997        | 224,996        | 227,487        | 230,437        | 832,916          |
| Clothing & Equipment                                      | 75,786         | 1,500          | 1,500          | 1,500          | 80,286           |
| <b>Total Cost</b>   | <b>555,783</b> | <b>721,496</b> | <b>736,857</b> | <b>755,047</b> | <b>2,769,182</b> |
| Covered By Grant  | 461,550        | 692,325        | 230,775        | 0              | 1,384,650        |
| Dept. will fund Internally                                | 94,233         | 29,171         | 9,724          | 496,358        | 629,485          |
| <b>New Dept. Funding Needed</b>                           |                |                | <b>496,358</b> | <b>258,689</b> | <b>755,047</b>   |
| Needed From   |                |                |                |                |                  |
| General Funds   | 94,233         | 29,171         | 506,082        | 755,047        | 1,384,532        |
| <b>Analysis of Grant Cost To General Fund</b>             |                |                |                |                |                  |
| During the first 24 months of the SAFER Grant, cost to GF |                |                |                |                | 133,127          |
| GF will need to assume full cost in Year 3                |                |                |                |                | <u>742,914</u>   |
| Projected GF cost for 3 full years                        |                |                |                |                | 876,041          |



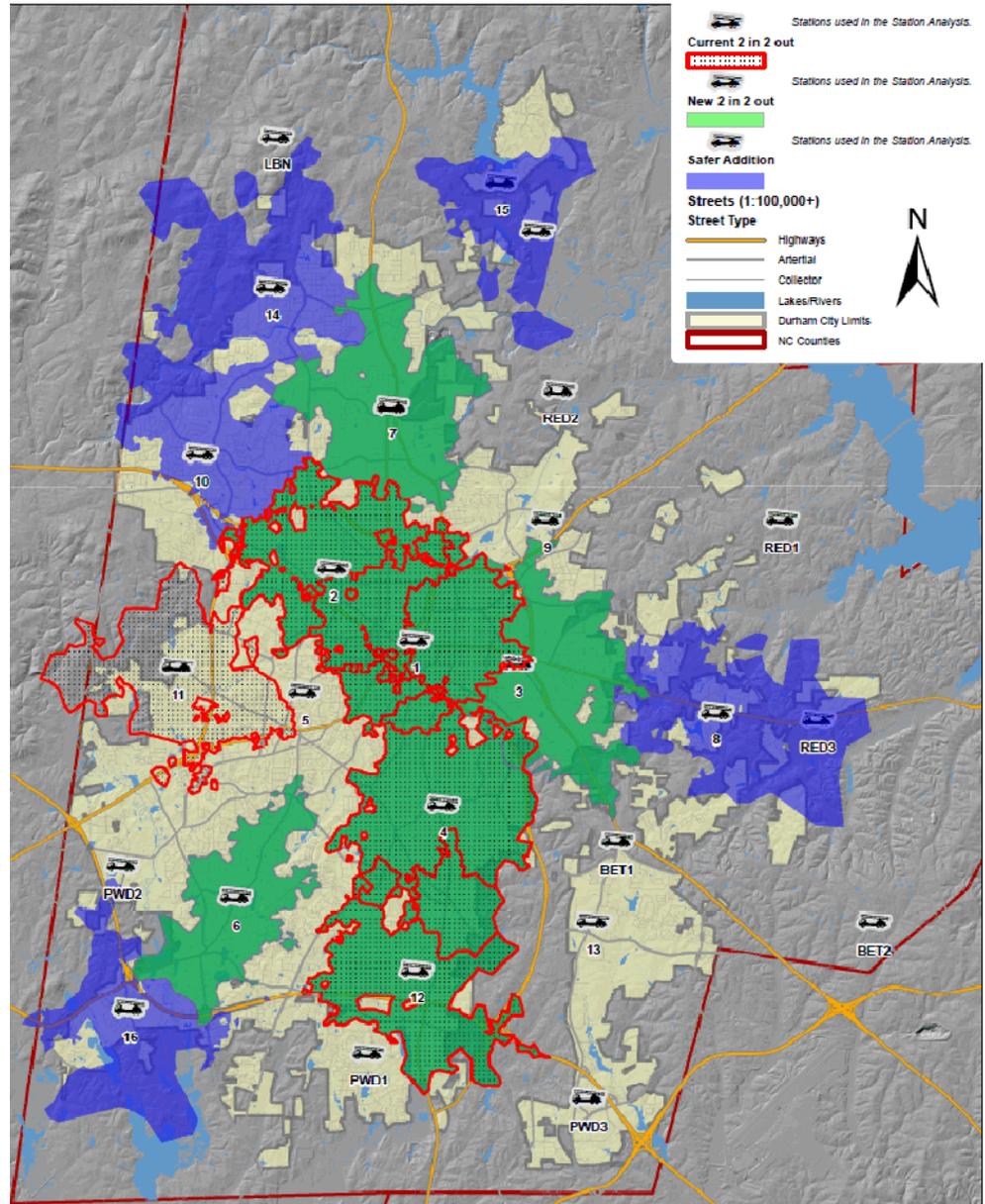
# Proposed Deployment of Additional Firefighters

- The City of Durham through the Durham Fire Department will use this funding to support hiring 15 new firefighters to increase OSHA “two-in, two-out” capabilities, and to increase compliance with NFPA staffing and response standards.
- Our current plan is that the SAFER firefighters will be redeployed upon completion of Fire Station 17 (FY2015 CIP) unless economic conditions improve to allow additional staffing.



## Two-In/Two-Out and ERF

- Two-In / Two-Out compliance allows for immediate interior attack
- DFD Effective Response Force (ERF) is 17 firefighters
  - Validated by CFAI
  - Complies with NFPA 1710
- Commit 4 firefighter daily staffing to stations 8, 10, 14, 15, 16 (Blue outlines) to decrease ERF response times
  - Efficient execution of needed tasks
  - Increased firefighter safety
  - Increased resident safety
  - Decreased property damage





## Chart Representation of Two-In / Two-Out Coverage

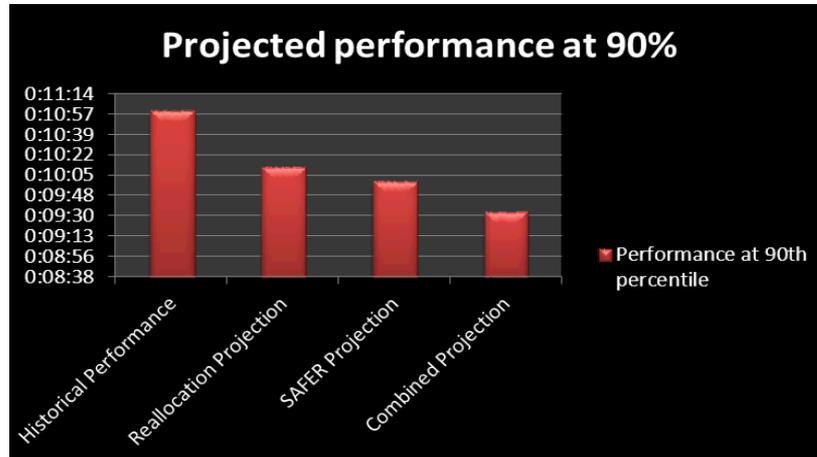
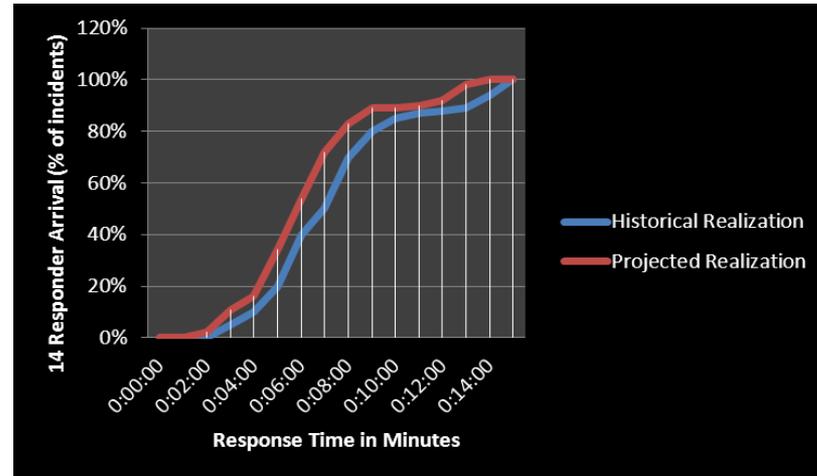
| District | Pop./Sq. Mi. | Sq. Mi. (district) | District Pop. | Service Level |
|----------|--------------|--------------------|---------------|---------------|
| 1        | 3,588.73     | 3.4                | 12,202        | Metropolitan  |
| 2        | 4,031.06     | 5.55               | 22,373        | Metropolitan  |
| 3        | 2,981.43     | 6.01               | 17,919        | Urban         |
| 4        | 2,446.02     | 9.06               | 22,161        | Urban         |
| 5        | 3,019.56     | 5.93               | 17,906        | Metropolitan  |
| 6        | 2,083.64     | 9.13               | 19,024        | Urban         |
| 7        | 2,334.77     | 9.25               | 21,597        | Urban         |
| 8        | 1,499.01     | 7.04               | 10,554        | Suburban      |
| 9        | 1,680.27     | 6.35               | 10,670        | Suburban      |
| 10       | 1,154.72     | 8.87               | 10,243        | Suburban      |
| 11       | 1,676.13     | 7.07               | 11,851        | Suburban      |
| 12       | 2,549.10     | 9.2                | 23,452        | Urban         |
| 13       | 1,003.92     | 9.04               | 9,076         | Suburban      |
| 14       | 1,394.23     | 4.18               | 5,829         | Suburban      |
| 15       | 662.75       | 6.45               | 4,275         | Rural         |
| 16       | 1,518.57     | 6.26               | 9,507         | Suburban      |
|          |              |                    | 228,639       |               |

District Moves
  SAFER Staffing

|  | % of pop. |
|--|-----------|
| District moves alone increase 2 in / 2 out by 46,689 citizens (58,540 population minus 11,851) | 20.40%    |
| SAFER staffing alone increases 2 in / 2 out by 40,408 citizens                                 | 17.70%    |
| Both moves increase 2 in / 2 out by 87,097 citizens  | 38.10%    |
| City-wide 2 in / 2 out compliance currently is 92,039 citizens                                 | 40.30%    |
| City-wide 2 in / 2 out compliance projected to increase to 179,136 citizens                    | 78.30%    |



# Arrival of Minimum Effective Response Force (ERF) – Projected Realization



- Improvement begins at 3 minute mark.
- Min. ERF arrival at 90<sup>th</sup> percentile shifts from 11 minutes to 10 minutes
- If historical frequency remains consistent over the next three years, then we can reasonably estimate a **14% improvement** in the cumulative measure – From 10:57 to 9:30



# Fire Totals By Resource Allocation

| Fire: Incident types<br>100-114 and 120-123         | 2010 | 2011 | 2012 (to date) |
|---|------|------|----------------|
| <b>Total Number of Fires<br/>in Calendar Year</b>   | 422  | 400  | 219            |
| <b>Current 2 in-2 out<br/>coverage</b>              | 163  | 177  | 77             |
| <b>Coverage with August<br/>re-allocation</b>       | 253  | 259  | 128            |
| <b>With SAFER staffing<br/>and current coverage</b> | 203  | 217  | 98             |
| <b>With combined<br/>allocation</b>                 | 280  | 289  | 144            |

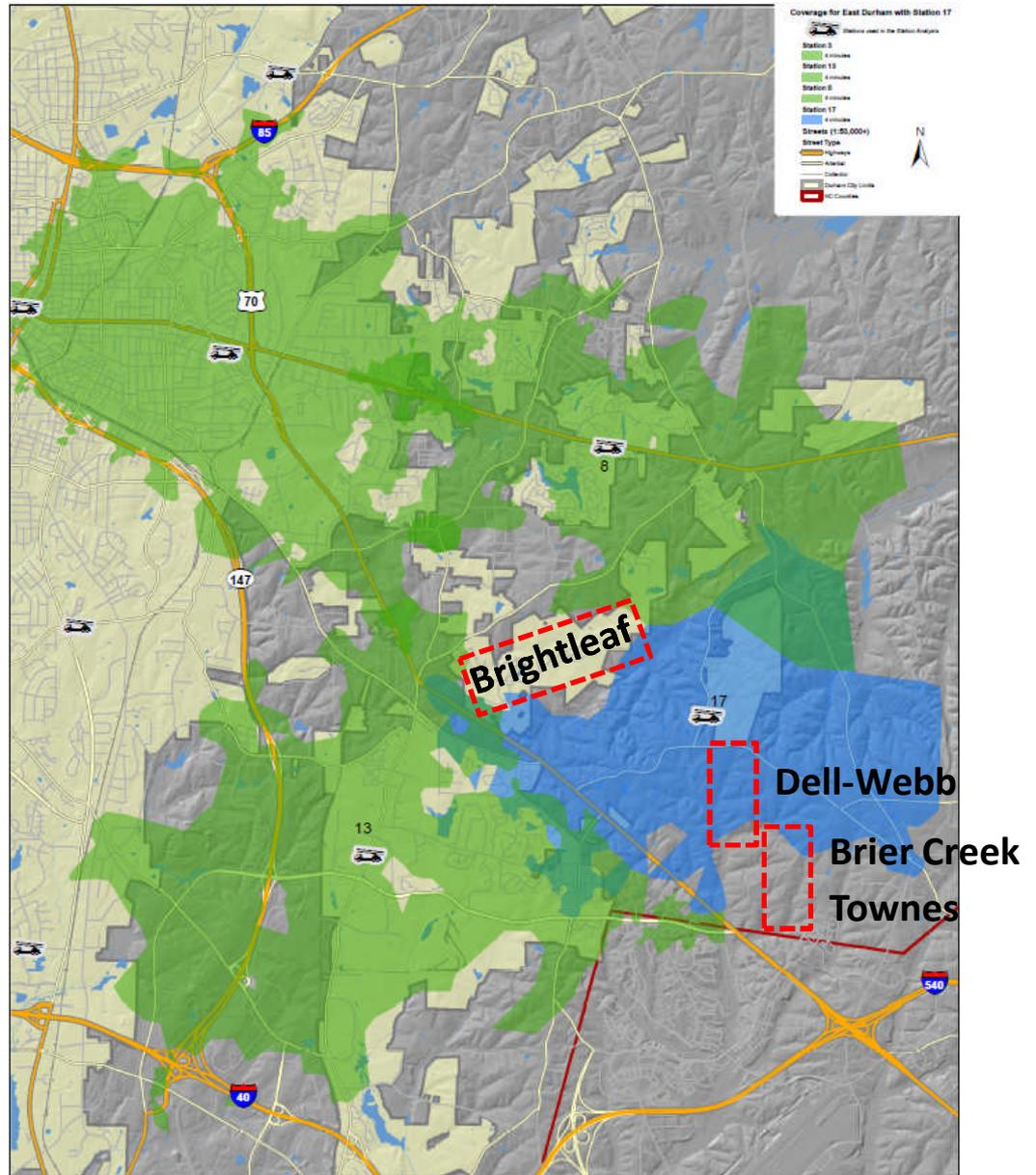
**Note: August re-allocation** in the chart above refers to a redistricting of several units to achieve greater efficiency of present resources





# Station 17

- The 4 minute response times of Stations 3, 8, and 13 are depicted in green
- The blue boundary and manilla colored areas show what is not within our standard response parameters.
- Current coverage is inadequate with over 8 minute travel time to the proposed annexed areas from existing Durham stations.
- Much of this area is subject to a first unit response time greater than our standard for full effective response force





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## Station 17

- This map shows a four minute response boundary for Station 17 (green shaded area) which adequately covers Brightleaf and the annexed areas. The yellow, tan, and red areas are boundaries for 5, 6, and 8 min. travel times, respectively.
- The Brightleaf subdivision southeast of Sherron Rd. (2,840 planned units) still appears to be outside the green boundary; however, once Kinard Rd. is completed from Doc Nichols Rd. into the back of the Brightleaf development there will be a 4 minute travel time through Brightleaf to Sherron Rd.
- The Leesville Rd. Dell-Webb community (planned 1,168 single family residences and 150 Townhomes) and Briar Creek Townes annexations (planned 177 Townhomes and 25,000 Sq/ft commercial space) will fall into the green 4 minute boundary once the roads are added.

