

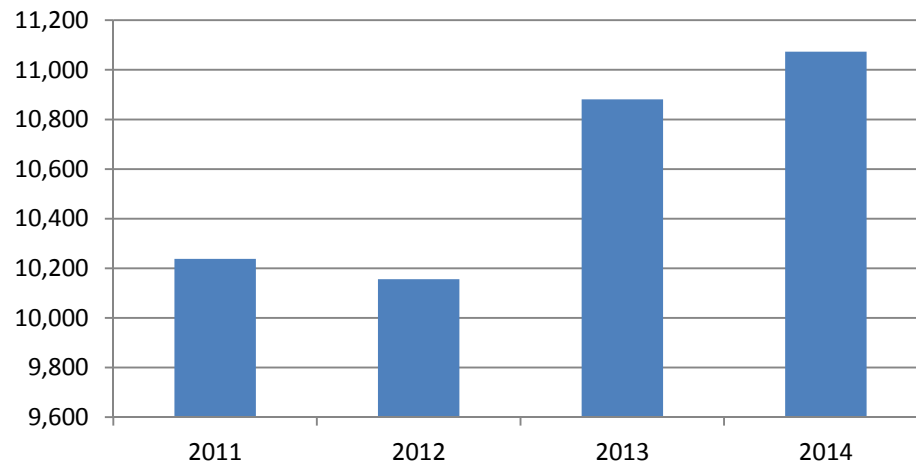


Public Health & Public Safety Committee

Fire Department Update
December 10, 2014

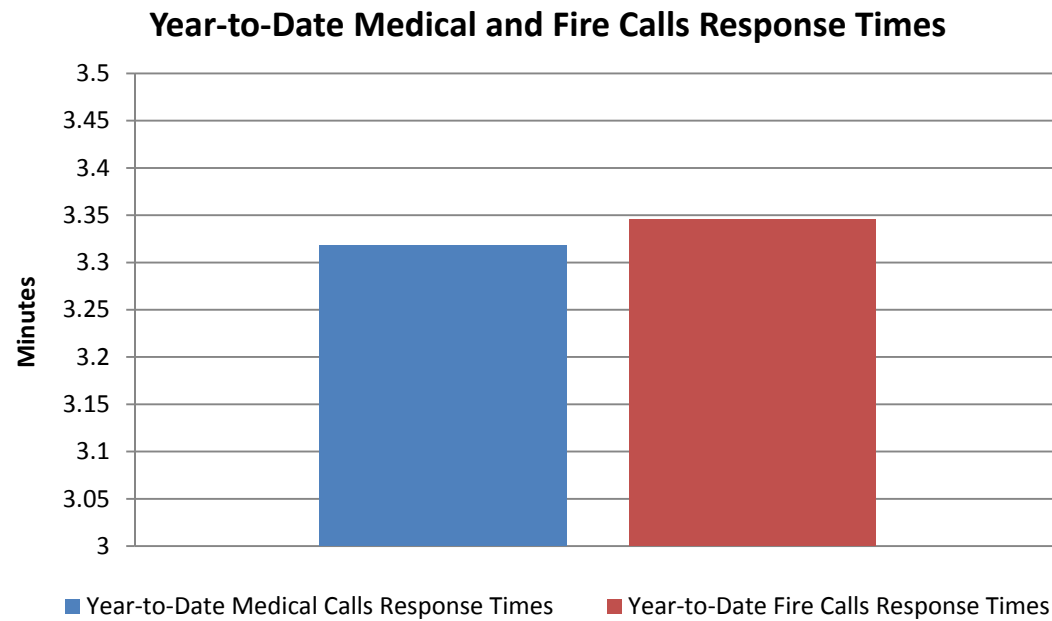
Kevin W. Kelleher
Chief Engineer

Year-to-Date Total Calls



	2011	2012	2013	2014
Working Fires	7	8	17	5
2 nd Alarms	2	4	8	3
3 rd Alarms	2	0	1	1
4 th Alarms	0	0	1	0
7 th Alarms	0	0	1	0





NFPA standard: 90% of calls with response times of 5 minutes or less.

Year-to-date: 92.4%



Narcan

Somerville was ineligible for the Department of Public Health Narcan Program.

Lt. Marino developed our program with the Cambridge Health Alliance (CHA).

Also included were the Somerville Police Department and the Everett Fire Department.

- Program In Service in 30 Days
- With Agreements
- Training and SOG in Place
- Inventory Control and Tracking

To Date, Narcan has been used at 25 incidents with 19 of them being successful.



EPI-PENS

Due to our affiliation with the Cambridge Health Alliance (CHA), who provides Medical Oversight, we are now able to carry “EPI-PENS” on all of our fire apparatus. Each apparatus is equipped with an adult dose and a pediatric dose.



GRANTS



2012 – 2014 EMPG Grants

- John Deere Gator with Fire and EMS Modules
- 2 – Radiological Survey Meters w/Alpha Probes
- 2 – Ludlum 25 Personal Dosimeters
- 110 – Batteries for Motorola Portable Radios
- 2 – Toughpads for Incident Command Vehicles
- Mass Casualty Incident Trailer (Currently being equipped)



AFG SAFE Grant – Massachusetts Senior Safe

- Installation of 500 Smoke Detectors, 10 for hearing impaired residents

UASI Grant

- 61 – New Self Contained Breathing Apparatus (SCBA)



New Equipment

- Thermal Imaging Cameras (TIC) – All companies will be equipped in 2015
- All Companies have MSA 4 Gas Meters – Command Vehicles and Rescue have MSA 5 Gas Meters
- E-Draulic Jaws of Life – All three Ladder Companies and the Rescue Company, battery operated for quicker response, reduces noise and stress, indoor applications and confined space rescues – Also converts to 110V operation
- Positive Pressure Ventilation (PPV) Fans – All three Ladder Companies, lighter weight and battery operated, specific for indoor applications (removal of CO)



New Apparatus



- 2 – New Pumpers for Engine 6 & Engine 7
- 1 – New Ladder for Ladder 3

These trucks are designed and built for Somerville. Many meetings were held to appropriately design these apparatus to meet Somerville's needs. The final meeting, being a pre-construction conference at the factory in Wisconsin.

Apparatus Updates

Current Engine 7 just finishing an in-house rehabilitation. Engine 6 will be next.

We just received an old Incident Command vehicle from the police, that too will be rehabilitated into our Fire Investigation Unit.



Maintenance Improvements

- EVT Certified Mechanic
- Using a new automated maintenance repair system
- New Compressor installed in the repair shop
- New Hydraulic hose coupling machine installed
- New laser alignment tool purchased



Training Division report to date for the year 2014

Department wide training was conducted in the use of three (3) newly purchased **RAD 57 CO pulse oximeters**. These meters enable firefighters to determine if carbon monoxide levels are present in firefighters, patients and occupants with possible exposure to carbon monoxide.



RAD 57 CO Pulse Oximeter



16 firefighters received **Phase Two pump training** using a state of the art simulator provided by FDSS LLC which was connected to one of our department's pumpers. The simulator regulates valves to create events such as kinked hose lines, hose ruptures, and other water supply problems. These events challenge the pump operator and advance their skill levels under realistic conditions. To date, 49 firefighters have been trained to the Phase Two level of pump operator.

Classes were conducted on **Rope Rescue**. Firefighters underwent three days of both classroom and live training. Firefighters used the vacant Homan's Building in Gilman Square for part of this training and also space provided courtesy of Brooklyn Boulders on Tyler Street. The newly purchased Aerial Tower was also used in several evolutions. These newly trained firefighters brought the total number of Rope Rescue Technicians to 54.





8 firefighters attended a grueling eight day course to become trained as **Structural Collapse Technicians**. They join the 16 other members of the department trained to this level. The intense course taught the firefighters the various skills and techniques needed during a structural collapse operation.



18 members of the department also attended a **Structural Collapse Drill** held in Cambridge and **4** officers have attended a two day course on being an Incident Commander during a Structural Collapse Incident. **6** Chief Officers attended a class on **Building Construction & Building Collapse**.



Somerville firefighters participated in a Structural Collapse Drill in Cambridge on October 18 & 19th, 2014



79 firefighters attended an eight hour class provided by PL Vulcan on the subject of **Man Vs Machinery**. This hands on training program covered incidents as basic as a ring removal to more complicated extrications such as a person with their hand stuck in a snow blower and impalements. This training came to use on Thanksgiving Day when members of the Rescue Company successfully removed a resident's finger from a blender in the Emergency Room of Somerville Hospital.



Firefighter Painter and Lt. Wilker perform a ring removal



Firefighters Painter and Barclay work to remove an impaled victim





Members of the Rescue Company successfully worked alongside the Emergency Room staff at Somerville Hospital to remove a resident's finger from a blender on Thanksgiving Day.





25 Firefighters participated in a Mass Decontamination Drill (MDU) held at Somerville Hospital on June 7, 2014. THE MDU unit is housed at the Highland Avenue (Engine 7) fire station. 2 members assigned to Engine 7 also attended an eight hour training course at the MA Firefighting Academy. The course covered decontamination, chemical hazards, and routes of exposure. It spent significant time on the operation of the tent and its components.



The use of vacant buildings scheduled for demolition for training by the department has continued. Buildings at 70 Prospect Street, 82 Highland Avenue and 26 Warwick Street were utilized to provide hands on training to firefighters on the topics of cutting overhead doors, raising a forty foot ladder and mansard roof operations.



Prior to demolition, firefighters trained on aerial ladder placement and roof ventilation at 82 Highland Avenue, firefighters train with a forty foot ladder at 26 Warwick Street and Firefighter Davis trains on cutting open an overhead door at 70 Prospect Street



Members of the Rescue Company have attended training sessions covering **Shoring, Big Rig Stabilization, Auto Extrication, and Torch Use.**

Training was also conducted geared to specific companies on such subjects as Drafting, Aerial Master Streams, Aerial Operator, Akron Rapid Attack Monitor, Blitzfire Portable Monitor, Elevator Rescue, Ice Rescue Sled, and the Proper Starting & Maintenance Of Power Saws



Big Rig Stabilization



Engine Three drafting from the Mystic River



Lt. Belski training on the Blitzfire portable monitor



Department wide training was conducted on **Confined Space Rescue Awareness** instructing firefighters of the acute dangers involved in confined space rescue incidents. In addition, **6** firefighters were trained to the level of **Confined Space Rescue Technician** joining the 41 members who have already completed this training.

Department wide training was conducted on the use of our newly purchased **ISG Thermal Imaging Cameras**. These new cameras are smaller, more lightweight and rugged than our older models making them easier to use on the fire ground. A new cold spot tracker feature allows their use at hazardous material leaks in addition to their primary use searching for trapped fire victims and locating fire hidden in walls and ceilings.

ISG/INFRASYS Somerville, MA In-Service Training

Xseries

Program Content

- Principles of Thermal Imaging/Image Interpretation
- Camera Features/Operation



ISG INFRASYS

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Mass Fire Academy (MFA) Training Offerings

- **9** senior officers attended a two day course certifying them as **Incident Safety Officers**
- Two Captains attended a six day class to become **Advanced Fire Investigators**
- **7** senior officers attended a two day class on **Commanding & Controlling a MayDay**. This brought the total to 9 senior officers who have attended this course
- **63** firefighters attended a six hour class on dealing with spills and fires involving **Ethanol** (Using a combination of facilities at Somerville Fire, Chelsea Fire and Mass Port (Logan Airport))

Additional Somerville Fire Department Training Offerings

- Department wide training was conducted on the dangers of **Hydrogen Cyanide**
- Department wide training was conducted on **Conflict Resolution** and **Respectful Behavior**
- Department wide training was conducted on the subject of **Vehicle Fires**. The use of proper gear and tactics was stressed
- Department wide training was conducted on “**Understanding Your Role in Fire Incident Data**”
- Department wide training was conducted on familiarizing members with the new Orange Line MBTA station
- Training was conducted on the unique fire protection system features of Block 3 at Assembly Row, as well as all of the other new buildings at Assembly
- Department wide training, which started in 2013, was completed this year on the subject of **Natural Gas Safety**
- Department wide training was conducted on the Belt Trauma Kit which contains a tourniquet with a clotting agent to stop severe traumatic bleeding
- Department wide training was conducted on SOG #13 “Radio Communications”
- Department wide training was conducted on the use of the **Shotgun Sprinkler tool**
- **11** members of the department participated in **Urban Shield 2014** (UASI/MBHSR) Multi-Jurisdictional and Multi-Day Training exercise





FF O'Connor and Lt. Lippens training on the use of Nasal Narcan



A typical Somerville Fire Department medical bag

Department wide medical training classes have been held on the following subjects: Chest Injuries, Use of Patient Restraint, Head & Spine Injuries, Immunological Emergencies (which included use of the newly issued Epinephrine Auto Injectors -“Epi-pens”), Nasal Narcan, Medical, Legal & Ethical Issues, Medical Emergencies, Control of Traumatic Bleeding, and the updated MA OEMS Statewide Treatment Protocols. In addition, **40** of the departments 103 Emergency Medical Technicians (EMT’s) received twenty hours of required refresher skills training over a period of three days.



Fire Prevention

- Conducts inspections for Smoke Detector/Carbon Monoxide compliance for home sales, flammable liquids, schools, nursing homes and assisted care facilities and joint liquor license inspections with ISD, etc.
- Cleared red card violations submitted by fire company officers – violations uncovered at incidents the fire company responds to or notices while responding to or returning from calls.
- Inspection and plan review for Assembly Row.
- Oversee installation of over 25 new Master Radio boxes citywide.
- Works closely with other city agencies in new zoning and building plans with ISD, OSPCD, Plumbing, Electrical and Lights and Lines.



CY - 2015

- New apparatus expected in April, accompanied by training.
- Work towards new quarters to replace the trailer at Union Square.
- 6 – New recruit firefighters to join the department early in the year.
- Live Fire Training using the Mass Fire Academy (MFA) Flashover Simulator.
- Using a vehicle roll-over prop from the MFA.
- Continue training on Engine Company Pump Operations.
- Continue training on Emergency Vehicle Operations (EVO).



Thank You

