

London Fire Department

Neighbourhood, Children & Fire Services

ORIENTATION PRESENTATION

Community & Protective Services Committee January 20th, 2015



NCFS Mandate



Working together to strengthen Londoners' quality of life...

community-wide...

neighbourhood by neighbourhood

Municipal Responsibilities



- Fire Protection and Prevention Act 1997 (FPPA)
 - 2(1) Every municipality shall:
 - (a) Establish a program for public education with respect to fire safety and certain components of fire prevention; and
 - (b) Provide other **fire protection services** as it determines may be necessary in accordance with its needs and circumstances.

Methods of providing services

- (2) In discharging its responsibilities under subsection (1), a municipality shall,
 - (a) appoint a community fire safety officer or a community fire safety team; or
 - (b) establish a fire department.

Legislation & Standards



References

- Fire Protection and Prevention Act, 1997
- Ontario Fire Code
- Public Fire Safety Guidelines
- Technical Standards and Safety Act, 2000 (Propane)
- Occupational Health and Safety Act, as well as Section 21
 Guidance Notes
- WSIB
 - Standard injuries
 - Presumptive Re: Cancers
 - Post Traumatic Stress Disorder
- Ministry of Transportation
- Various Standards
 - National Fire Protection Association (NFPA)
 - Underwriter's Laboratories of Canada (ULC)
 - Canadian Standards Association (CSA)

Service Categories



Provincially Mandated

- Fire Safety Education
- Fire Prevention & Fire Code enforcement
 - Smoke and Carbon Monoxide Alarms
 - Vulnerable Occupancies
- Fire and Rescue Services
- Approve Fire Safety/Emergency Plans of Large Propane Sites
- Review Fire Safety/Emergency Plans of Smaller Propane Sites

Council Directed

- Specialty Rescue
 - Hazmat, Technical Rescue, Water/Ice Rescue
- Mutual and Automatic Aid
 - County & London Airport
- Defibrillation (Cardiac Calls)
- Open Air Burns
- Fire Investigations

Ontario Fire Protection Model



Quick Overview



Budget

- 2014 Operating budget \$55.390M of which:
 - Labour cost represents 95% 96% or ~\$53.052M
 - All other operational costs 4% 5% or ~ \$2.338M

Staff Breakdown

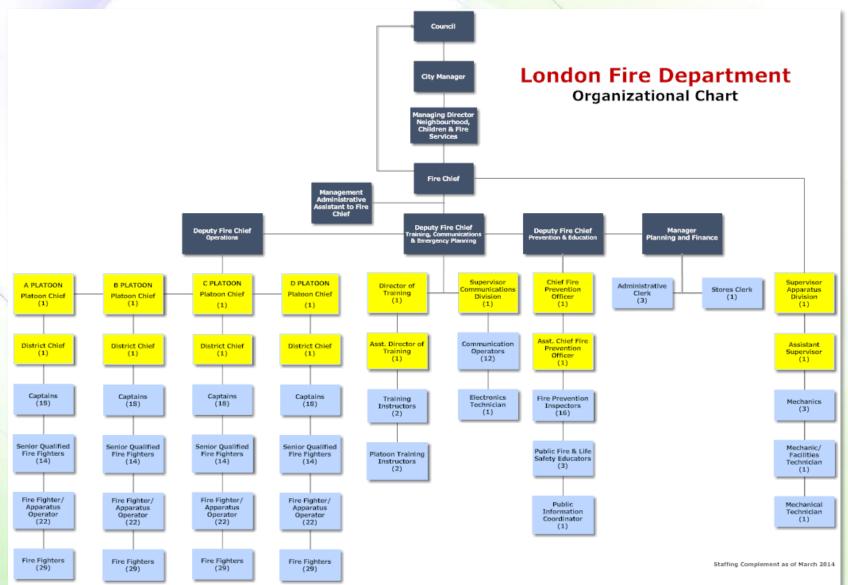
- 6 Non-Bargaining unit positions
- 393 Unionized employees

Organizational Breakdown

- 2 Frontline operational divisions 362 employees
 - Fire Fighting, Fire Prevention
- 5 Support divisions 30 employees
 - Communications, Apparatus, Training, Clerical and Stores

London Fire Department





Fire Prevention - Lines 1 &2

Deputy Fire Chief – Fire Prevention

Gary Bridge



Quick Glance

Location: Station 1 – 2nd Floor

400 Horton Street

Staff: 22

Total Cost: \$2.804

Personnel: \$2.604M

Other Costs: \$0.200M

Supervisors

1 – Chief Fire Prevention Officer

1 – A. Chief Fire Prevention Officer

Fire & Life Safety Education

3 - Public Fire & Life Educators

1 – Public Information Coordinator

Code Enforcement/Investigations

14 – Fire Prevention Inspectors

Plans Examination

2 - Fire Prevention Inspectors

1st Line of Defense



Public Education

- Using community risk and needs assessments, the primary role of the Public Fire and Life Safety Educators is to:
 - change human behaviour through the development and delivery of fire safety programs, as well as the distribution of fire safety literature for the purposes of:
 - preventing fires from occurring; should a fire occur to ensure residents are alerted to a fire ("Working" Smoke Alarm) and escape plan safely (Home Escape Plan); and
 - reducing the incidence of fire, injuries and the loss of life.
- School and seniors education, Risk Watch, TAPP-C, Children's Safety Village, risk reduction, etc.
- Award winning analytic driven Fire Safety Marketing Program

2nd Line of Defense



Fire Prevention

- Primary roles of a Fire Prevention Inspector is to achieve an acceptable degree of resident and building safety by:
 - Conducting fire and life safety inspections ensure buildings meet applicable legislative and regulatory requirements;
 - Reviewing, evaluating, approving, and, where necessary, enforcing fire safety plans to ensure compliance with the Ontario Fire Code;
 - Initiating and participating in the prosecution of offenders of fire legislation;
 - Issuing plan approvals for compliance equivalencies, if designated, on submissions by architects and/or engineers so that alternative solutions are in compliance with objective of relevant codes and standards;
 - Investigating fires to determine the cause and origin and/or assist the London Police and OFM where the cause is suspicious; and
 - Reviewing new construction architectural fire safety aspects

Results



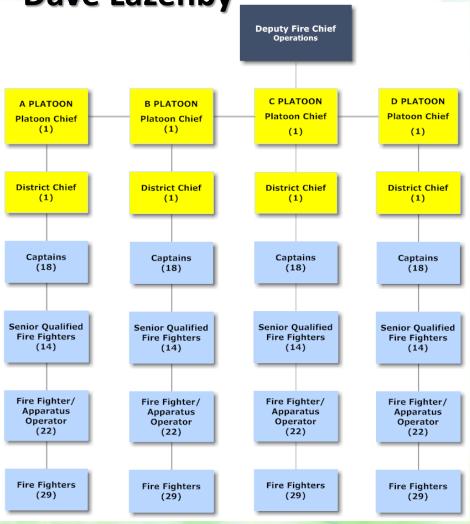
Residential Fires

3rd Line of Defense



Deputy Fire Chief – Operations

Dave Lazenby ______



Quick Glance

Location: 14 Stations

Staff: 340 (4 Platoon System – 85/Platoon)

Total Cost:

Personnel - \$46.075M

Other- \$1.355M

Vehicles:

- 3 Engines
- 8 Pumper Rescues
- 3 75 Ft. Quints
- 1 100 Ft. Aerial Platform
- 2 100 Ft. Aerials
- 2 Command Cars
- 2 Tankers
- 1 Rescue
- 1 Hazmat
- 1 Air/Light Tech Rescue
- 2 Marine Units

Fire Fighting



Fire & Rescue Services

- Fire extinguishment
- Rescues
- Motor Vehicle Collision (Medical Assistance and Extrications)
- Emergency Medical (Cardiac Emergencies)
- Natural Gas Emergencies
- Carbon Monoxide and Smoke Alarm calls
- Open Air Burn Complaints
- Agency Assistance
- Smoke Alarm Campaign (Award winning)
- After the Fire Program

Specialty Services



Hazmat

- Response to emergency Hazardous Materials events to:
 - Identify the chemical;
 - Provide advice to the Incident Commander with respect to evacuation;
 - Protect life and property; and
 - Wherever possible mitigate the release of chemicals onto the ground, into waterways or into the air to prevent additional damage to the environment.

Technical Rescue

- Response to emergencies to:
 - Rescuing individuals injured or in danger from high buildings, bridges, cranes, etc. (above ground) or below ground such as from a river bank, ravine, etc.; and
 - Eventual goal to introduce trench rescue

Specialty Services



Water/Ice Rescue

- Response to water and ice emergencies for the purpose of:
 - Rescuing individuals in danger because of an entry into the river or a water body;
 - Assisting with body recoveries;
 - Assist London Police missing persons searches along the shores of the water bodies; and
 - Assist with evacuation during flooding.

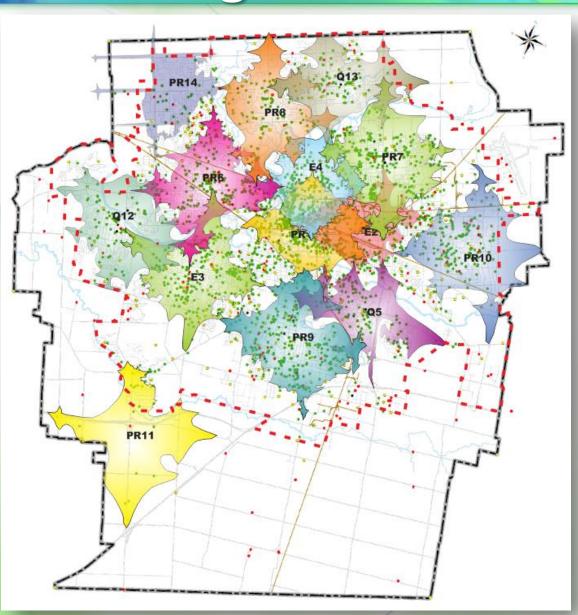
Back Up Communications Operators

- Cross-trained fire fighters able to undertake the basic duties of the full-time Communication Operators to:
 - Either supplement the on-duty complement when there are staffing shortages; and
 - Provide assistance during larger scale, resource intensive events.

1st Due Response Coverage

Engines

- Engine "E" water, pump, hose and ground ladders
- Pumper Rescues "PR" include auto-extrication equipment
- Quints "Q" include a75 Ft. aerial ladder
- Each coloured area
 represents a
 theoretical 240 second
 response area
- 2013 90thPercentile 240seconds



OMBI Comparative Performance

How long does it take to respond to an emergency call from the time the station is notified to arrival on scene?

Fig 10.4 Actual 90th Percentile Fire Station Notification Response Time (min:sec) (Urban and Rural)

Municipality	90th P	lotification R Time ercentile (mi ban (FIRE40	in:sec)	Station Notification Response Time 90th Percentile (min:sec) Rural (FIRE406)			
	2011	2012	2013	2011	2012	2013	
CAL	07:15	07:14	07:08				
HAM	06:56	06:36	06:45	12:57	12:57	13:20	
LON	<u>06</u> :13	06:07	06:05				
ОТТ	07:00	06:39	06:50	14:39	14:48	13:59	
SUD		06:29	06:57	17:23	19:30	16:41	
TBAY	06:32	06:27	06:40				
TOR	06:47	06:31	06:44				
WIND	06:29	06:31	06:58				
WINN	06:49	06:47	06:49				
MED	06:48	06:31	06:49	14:39	14:48	13:59	

Source: FIRE405 - Urban; FIRE406 - Rural (Customer Service)

Comment: Hamilton, Ottawa and Greater Sudbury are the only municipalities with both Urban and Rural components In order to respond to emergencies, each municipality has a different mix of vehicle types and staffing modes, reflecting its fire and community risks.

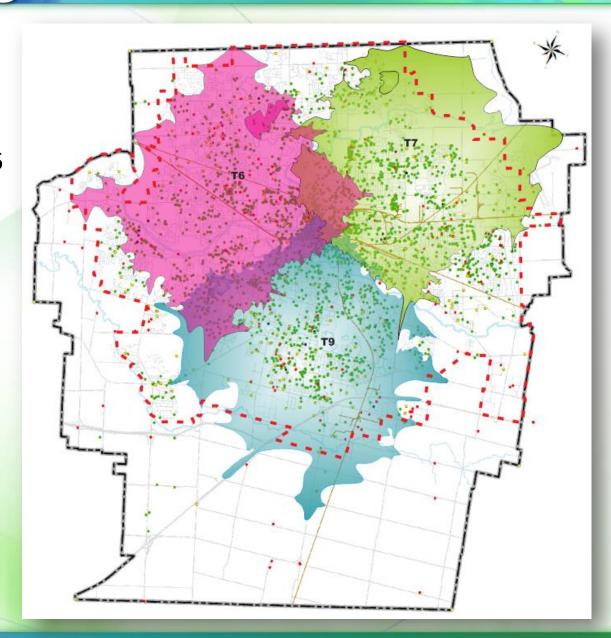
Staffing Rationale

CRITICAL TASKS	STAFF
Establishment of incident command outside of the hazard area for the overall coordination and direction of the initial full alarm assignment with a minimum of one individual dedicated to this task	1
Establishment of an uninterrupted water supply of a minimum of 400 gpm (1520 L/min) for 30 minutes with supply line(s) maintained by an operator	1
Establishment of an effective water flow application rate of 300 gpm (1140 L/min) from two handlines, each of which has a minimum flow rate of 100 gpm (380 L/min) with each handline operated by a minimum of two individuals to effectively and safely maintain the line	4
Provision of one support person for each attack and backup line deployed to provide hydrant hookup and to assist in laying of hose lines, utility control, and forcible entry	2
Provision of at least one victim search and rescue team with each such team consisting of a minimum of two individuals	2
Provision of at least one team, consisting of a minimum of two individuals, to raise ground ladders and perform Ventilation	2
Establishment of an IRIC consisting of a minimum of two properly equipped and trained individuals	<u>2</u>
SUB-TOTAL	14
If an aerial device is used in operations, one person to function as an aerial operator and maintain primary control of the aerial device at all times	<u>2</u>
TOTAL STAFF REQUIRED	15

Aerial Coverage

Aerials

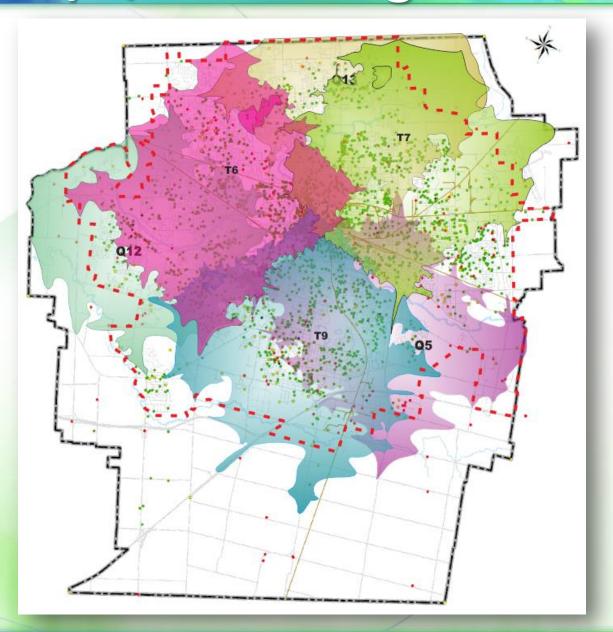
- Aerial platform at Station 7 – 100 Ft.
- Aerials at Stations 6and 9 100 Ft.
- The coloured area represents a theoretical 480 second response area
- 2013 90th Percentile to assemble 15 firefighters on scene – 441 seconds



Combined Aerial/Quint Coverage

Aerials & Quints

- Aerial shown a "T"
- Quints shown as "Q"



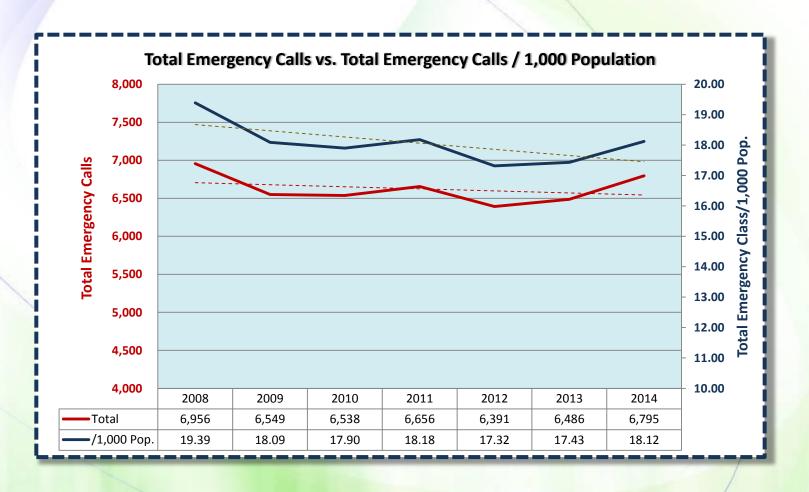
Emergency Call Breakdown

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	SAFE	5	

	2008	2009	2010	2011	2012	2013	2014
EMERGENCY	2000		2010	2011			
Fire Related	3,841	3,585	3,282	3,489	3,216	3,170	3,386
% of Overall Call Volume	44.95%	42.01%	38.38%	40.77%	38.72%	38.02%	38.13%
EMS Calls	1,489	1,515	1,672	1,628	1,769	1,801	1,921
% of Overall Call Volume	17.43%	17.75%	19.55%	19.03%	21.30%	21.60%	21.64%
Motor Vehicle Collisions	1,243	1,071	1,187	1,187	1,098	1,163	1,098
% of Overall Call Volume	14.55%	12.55%	13.88%	13.87%	13.22%	13.95%	12.37%
SPECIALIZED SERVICES							
Hazmat	349	351	372	325	288	325	\366
% of Overall Call Volume	4.08%	4.11%	4.35%	3.80%	3.47%	3.90%	4.12%
							1
Technical Rescue	9	10	9	12	14	9	8
% of Overall Call Volume	0.11%	0.12%	0.11%	0.14%	0.17%	0.11%	0.09%
							1
Water/Ice Rescue	25	17	16	15	6	18	16
% of Overall Call Volume	0.36%	0.26%	0.24%	0.23%	0.09%	0.28%	0.24%
Total Emergency Calls	6,956	6,549	6,538	6,656	6,391	6,486	6,795
% of Overall Call Volume	81.40%	76.74%	76.46%	77.78%	76.94%	77.79%	76.53%
% Change Year over Year		-5.85%	-0.17%	1.80%	-3.98%	1.49%	4.76%

Emergency Calls per Capita

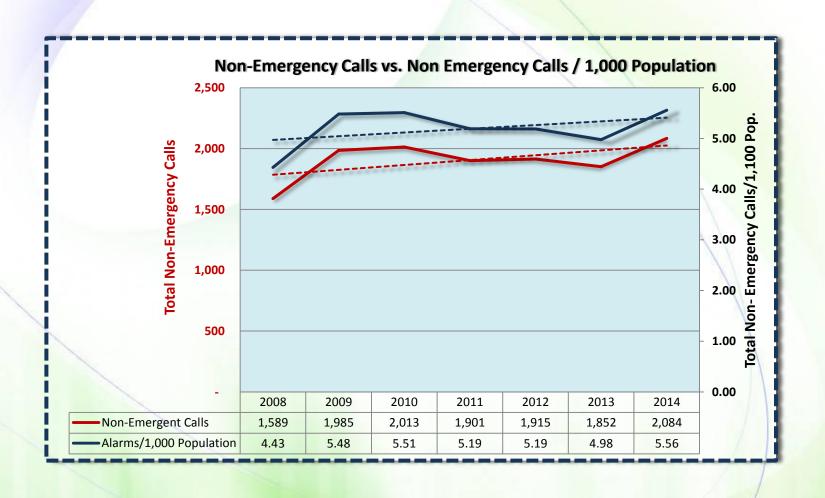
Fire Fighting



Non-Emergency Call Breakdown

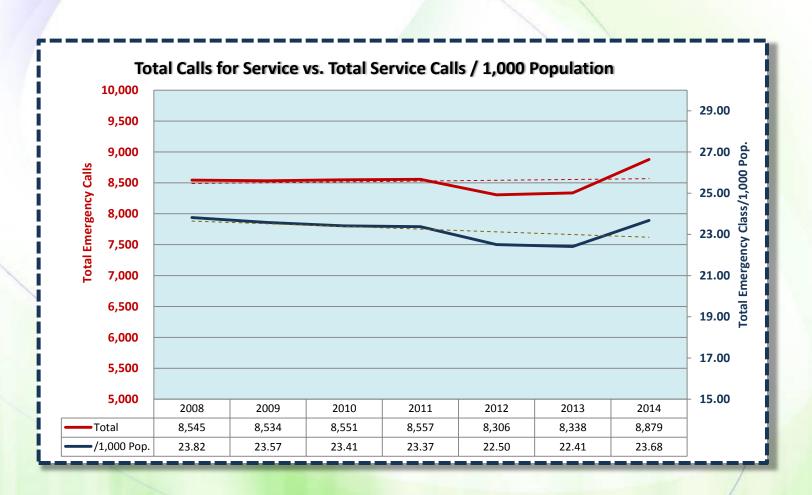
	2008	2009	2010	2011	2012	2013	2014
NON-EMERGENCY							
1/2							
Open Burn Complaint	383	467	461	477	636	374	402
% of Overall Call Volume	4.48%	5.47%	5.39%	5.57%	7.66%	4.49%	4.53%
Carbon Monoxide Alarm	808	1,078	1,120	989	840	826	933
% of Overall Call Volume	9.46%	12.63%	13.10%	11.56%	10.11%	9.91%	10.51%
Assist Other Agencies	353	364	361	355	403	454	534
Elevator Rescue, NO EMS						58	66
LFD MVA	0	15	10	10	4	0	12
Airport Event	2	0	0	0	0	1	1
Mutual Aid	4	2	2	1	1	0	2
Public Service Response	39	41	40	44	12	115	117
Client Complaints	0	18	19	25	19	24	17
Assistance Type Calls	398	440	432	435	439	652	749
% of Overall Call Volume	4.66%	5.16%	5.05%	5.08%	5.29%	7.82%	8.44%
Total Non-Emergency Calls	1,589	1,985	2,013	1,901	1,915	1,852	2,084
% of Overall Call Volume	18.60%	23.26%	23.54%	22.22%	23.06%	22.21%	23.47%
% Change Year over Year		24.92%	1.41%	-5.56%	0.74%	-3.29%	12.53%
Totals Calls - All Types	8,545	8,534	8,551	8,557	8,306	8,338	8,879
% Change Year over Year		-0.13%	0.20%	0.07%	-2.93%	0.39%	6.49%

Non-Emergency Calls per Capita



Results – Total Calls for Service

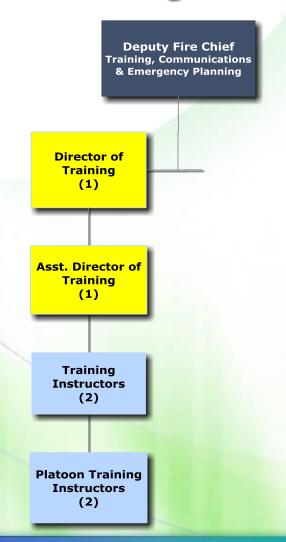
Fire Fighting



Training Division

Deputy Fire Chief – Training & Communications

Vacant - Recruiting



Quick Glance

Location: Station 1 – 3rd Floor 400 Horton Street

Station 9 – Training Complex 746 Wellington Rd. S

Staff: 6

Total Cost: \$0.877M
Personnel - \$0.777M
Other- \$0.100M

Supervisors

1 – Director of Training

1 – Asst. Director of Training

Training Staff

2 - Training Instructors (Mon - Fri)

2 – Platoon Training Instructors (4 days on, 4 days off)

Training Division

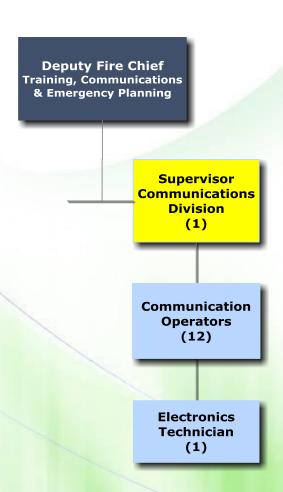


- Training
 - Develop & Deliver Training Programs
 - Skills Maintenance
 - New Equipment and Vehicles
 - New Legislated Requirements
 - Officer Development and Qualification
 - Driver Training and Pump Operations
 - Recruit Training

Communications Division

Deputy Fire Chief – Training & Communications

Vacant - Recruiting



Quick Glance

Location: Station 1 – 3rd Floor 400 Horton Street

Staff: 14

Total Cost: \$1.794M

Personnel - \$1.584M

Other- \$0.210M

1 - Supervisor

Dispatch Service

12 – Communication Operators

Other

1 – Electronics Technician

Note: 16 Firefighters have been trained as Backup Communications Operators

Communications Division

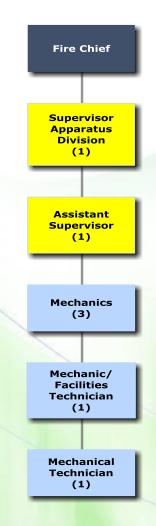


Communications

- Accept City of London 911 Calls transferred from Police/CACC
- Dispatch City of London Fire Department
- Answer City non-emergent calls (i.e. system checks, system repairs, open air burns, etc.)
- 2014 Processed 33,456 events (~30% increase in 7 years)
- Maintain and update Computer-Aided Dispatch System (CAD)
- Test, inspect, maintain and repair
 - 120 Portable Radios;
 - 48 Mobile; and
 - 36 Base Station Radios
 - CO Monitors and Other Hazmat Monitoring/Test Equipment
 - Assist with Municipal Radio Infrastructure

Apparatus Division

Fire Chief - Apparatus John Kobarda





Quick Glance

Location: Station 2

1101 Florence Street

Staff: 7

Total Cost: \$1.459M

Personnel - \$0.895M

Other- \$0.564M

Supervisors

1 – Supervisor

1 – Asst. Supervisor

Mechanical Repair

3 – Mechanics

1 – Mechanic/Facility Technician

Specialty Equipment

1 - Mechanical Technician

Apparatus Division

Fleet Maintenance

- Preventative Maintenance and Annual MTO Inspections
- Major and Minor Repairs
 - 29 Diesel Powered Front Line Fire Apparatus
 - 34 Trucks, Vans and Cars
 - Snow Blowers & Mowers
 - 3 Rescue Boats
- Annual ladder, pump and hose testing to standards
- Inspect, Test, Maintain & Repair 135 SCBA, 440 Air Cylinders,5 Breathing Air Compressors

Clerical/Stores Division

Manager of Planning & Finance Gwen Francis





Quick Glance

Location

Station 1 - 400 Horton Street Clerical – 3rd Floor Stores – 1st Floor

Staff: 3

Clerical

3 – Administrative Clerks

Stores

1 – Stores

Management Team



- Primary Manager Contacts
 - Business Unit Manager & Apparatus Division John Kobarda, Fire Chief
 - Fire and Rescue Operations & Special Services
 David Lazenby, Deputy Fire Chief
 - Fire Prevention and Education Gary Bridge, Deputy Fire Chief
 - Training, Communications & Special Projects
 Vacant, Deputy Fire Chief
 - Planning, Finance, Facilities & Administrative Projects
 Gwen Francis, Manager Planning & Finance

National & Provincial Recognition



Canadian Marketing Award

Canadian Marketing Association (CMA) recognized LFD's 2013 Fire Safety Marketing Campaign that contributed to a significant reduction in residential fires through the combined use of strategic fire safety advertising and marketing analytics





First Alert Award

Although the London Fire Department is the 6th largest in the Province, in 2014 First Alert recognized it for distributing the highest volume of smoke alarms and making London a safer city

Fire Marshal's Public Safety Council Award

A "fire safety" partnership between London Hydro and the London Fire Department resulting in approximately the homes of low income Londoner's being more energy efficient and fire safe



Information Request

Weekly Snapshot of Fires

- Request if it would be possible to advise of fires
- Below is a snapshot of our weekly review that highlights fires but no other calls

	Week in Review (Fires) - Week Ending			16-Jan-15						
	Street No.	Street Name	City	Province	OBC Code	Date	Property Type	Origin	Ignition	Dollar Loss
1	972	Colborne St.	London	ON	С	11-Jan-15	Detached Dwelling	Laundry Area	Clothes Dryer	\$1,500
	367	Millbank Dr.	London	ON	С	15-Jan-15	Detached Dwelling	Ducting - Heating/AC	Other Heating	\$85,500
	127	Farmington Way	London	ON		13-Jan-15	Motor Home, Camper, Trailer	Trunk/Cargo Area	Undetermined	\$8,500
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Thank You!