



Town of Markham Master Fire Plan

Council Overview

June 14, 2010



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Benefits of a Fire Master Plan

- *Provide Council and staff with a strategic template for delivering fire & emergency services in response to community risks and needs over the next 10 year period.*
- *Opportunity for stakeholders to participate in developing service level performance targets and measures.*
- *Opportunity to align with Building Markham's Future Together Objectives.*

What is a Fire Master Plan?

- *Comprehensive evaluation of Markham Fire and Emergency Services current service delivery.*
- *An assessment of the current services in relation to legislated standards and best practices.*
- *Creation of a multi-year plan to deliver service based on the “needs and circumstances” of the community.*



What is Included?

An assessment of all current activities including:

- *Fire Prevention & Public Education*
- *Communications*
- *Training*
- *Stations, Vehicles & Equipment*
- *Administration*
- *Fire Suppression (Firefighting)*

Municipal Responsibilities

Fire Protection and Prevention Act 1997 (FPPA) states that 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.*

(a) Establish a program for public education

At a minimum this should include:

- *Simplified Risk Assessment – to identify the extent of other fire protection services.*
- *A smoke alarm program.*
- *Fire safety education activities distributed to residents/occupants.*
- *Inspections upon complaint or when requested to assist with code compliance.*

(b) Provide other fire protection services

Services should include:

- *Identifying the level of fire protection (suppression) services the municipality deems necessary based on its own “needs and circumstances”.*
- *Determining this through evaluating factors such as: fire risk, liability, financial capabilities, resources, and community and council expectations.*

The Ontario Fire Safety & Protection Model identifies three lines of defence

1. Public Education and Prevention

- i. Smoke Alarm Program, school and seniors education, risk management, etc.*

2. Fire Safety Standards and Enforcement

- i. Inspections, Occupancy Inspections, Licensing Approval, Violation Enforcement, Fire Investigations, etc.*

3. Emergency Response

- i. Ontario Fire Marshal's Office Guidance Notes*
- ii. National Fire Protection Association Standards (NFPA)*
- iii. Ministry of Labour (Section 21 Guidance Notes)*
- iv. Industry Best Practices*

Emergency Response

Performance Measures - First Response

*The National Fire Protection Association (NFPA) Standard - 1710 refers to a first response as the “**Initial Arriving Company**” which includes a minimum staffing of 4 firefighters able to commence a limited rescue **or** fire suppression.*

Emergency Response

Performance Measures - Depth of Response

*NFPA Standard 1710 refers to the depth of response as the “**Initial Full Alarm Assignment**” responding to a structure fire in a typical 2000 ft² two storey single family dwelling with no basement and includes a minimum staffing of 14 firefighters, plus 1 additional firefighter if an aerial device is required.*

Emergency Response

Performance Measures	
Measure	NFPA 1710
Initial Arriving Company	<ul style="list-style-type: none">• Minimum of 4 firefighters responding on an engine company• Responding within 4 minutes of “travel time”• To 90% of the incidents
Initial Full Alarm Assignment	<ul style="list-style-type: none">• Minimum of 14 firefighters• 1 additional firefighter (aerial operations)• Responding within 8 minutes of “travel time”• To 90% of the incidents

Total Response Time

Is comprised of three primary components:

- ***“Dispatch time”***: *Time to receive and dispatch the call.*
- ***“Turnout time”***: *Time required for firefighters to react and prepare to respond.*
- ***“Travel time”***: *Actual travel time from the fire station to the incident.*

Project Milestones

<i>Phase</i>	<i>Description</i>	<i>Timeline</i>
1	Project Initiation	May 2010
	Presentation to General Committee / Council	June 2010
2	Non-Suppression Review	June to October 2010
3	Fire Suppression Review	May to November 2010
4	Strategic Plan	August to December 2010
5	Project Meetings & Presentations	June 2010 to April 2011
6	Public & Stakeholder Consultation	
	Interviews with Key Stakeholders	May 2010
	Stakeholder Forum	June to October 2010
	Public Consultation Session	
	Consultation with General Committee / Council	
7	Communications & Deliverables	
	Initial Status Report to General Committee/ Council	November to December 2010
	Second Status Report to General Committee / Council	February to March 2011
	Final Report	April 2011

Summary:

- *Project Director with 20 years of experience in the municipal fire protection industry*
- *Experienced Project Manager with first-hand experience in fire services operation and coordination who will be the point of contact and study lead*
- *Highly qualified team that is able to build on experiences/knowledge of other municipalities (i.e. bench-marking)*
- *Knowledge of NPFA 1710 guidelines*
- *Proven study approach and innovative analytical methods*
- *Local work experience and strong understand of recent changes within the province*

Questions ?