CENTRAL YORK FIRE SERVICES

HIGHRISE PROGRAM

Project / Initiative Name	High Rise Firefighting Equipment						
Project Cost	$ 45,000.00	Project Resources Requirements	No New Resources	Operating DP	No	Decision Package #	
Commission/Area:	Central York Fire Services			Division/ Departments:			
Legislative Requirement	No	Quote Legislation:					

Section 1 : Project Scope

1.1 - Project Classification and Overview

Provide comprehensive overview of the project request

Classification (select one): Improved Efficiency

With additional standpipe equipped buildings being built in both Aurora and Newmarket, the need to update and upgrade our current standpipe firefighting capabilities and equipment to align with industry best practices are a necessity. This project will be completed in two stages: year one - purchase training kits and build training props, equip 3 frontline engines with high-rise response kits. year two - equip two remaining front line engines with high-rise response kits. High-rise response kits include: hose, nozzles, adaptors, standpipe kits, and ventilation kits.

1.2 - Project Alignment and Justification

Outline justification for need of project request

Corporate Alignment & Opportunity (select one): Commission or Departmental Business Plan

ONLY SELECT FROM PICK LIST IF COUNCIL PRIORITY SELECTED IN CORPORATE ALIGNMENT & OPPORTUNITY SECTION ABOVE

Our current standpipe response equipment is not meeting the established industry best practices and NFPA recommendations for operational capabilities at incidents in standpipe equipped buildings. With an increase in residential units in buildings equipped with standpipes, this realignment with industry best practices and recommendations will provide fire crews with the tools to operate at higher levels of proficiency during fire responses at buildings equipped with standpipe systems.

PHASE 1	
Justify and Communicate Theory Education Practical Education Implementation	August 2023 – March 2024
PHASE 2	
Elevators, Communications Quick Reference Ventilation	April 2024- December 2024
PHASE 3	
Maintenance Training	January 2025


CENTRAL YORK
FIRE SERVICES
E421
ONTARIO
82FR37


CENTRAL YORK
P427
OYDEN

PHASE 1

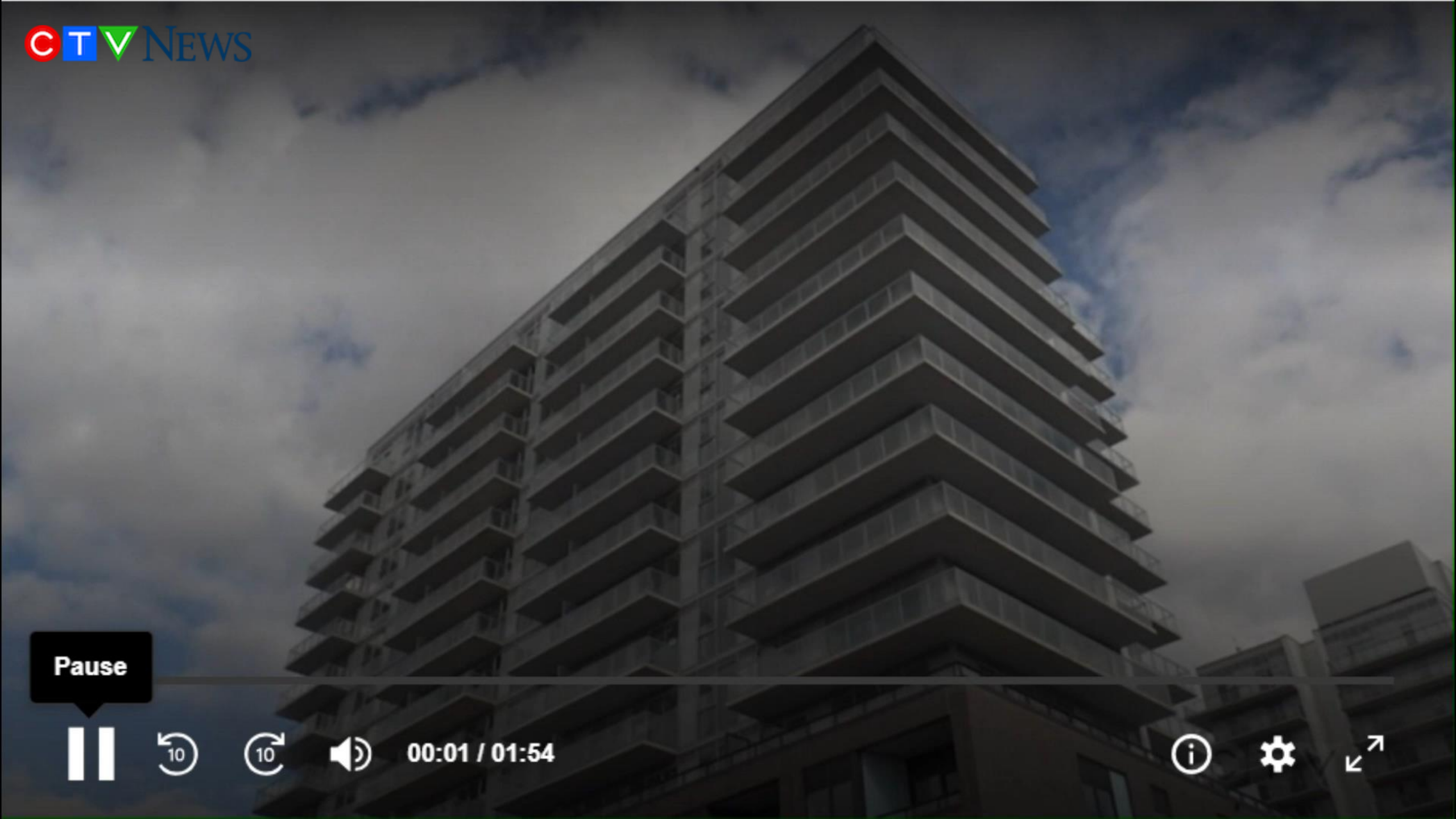

Photo by Desmond Brett


Photo by John Hanley / johnhanleyphoto.com


Photo by John Hanley / johnhanleyphoto.com

NEWMARKET

AURORA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CHIEF
FIRE

Implementation
March 4, 2024

Initial Announcement:

Attention Please, attention please. This is the fire department. We are on location investigating the cause of the alarm. Please remain in your unit if it is safe to do so and wait for further instructions. (Repeat)

False Alarm Announcement:

Attention, attention. This is Fire Department. The alarm has been investigated and was found to be false. You may return to your unit. (Repeat)

Phase 2

Highrise Response Quick Reference

1 First Arriving Apparatus – IC/FIRE FLOOR and ELEVATOR SECTOR

- Determine best placement of apparatus and if responding aerial is required
- Obtain all available keys (elevator, fire phone, master)
- Captain and crew (including driver) responds to the annunciator panel
- Initial announcement- state over radio
- Equipment – high rise packs, high rise equipment bag, thermal imaging camera, extinguisher, forcible entry kit.
- Objectives - recon/investigation, door control, removal of occupants from stairwells/corridors, make hose cabinet connection and establishing fire suppression efforts.
- Driver will assume elevator sector unless incident on 4th floor or below, brings a tool
- Captain and crew to the Fire Floor (two floors below)

2 Second Arriving Apparatus – FIRE FLOOR

- Captain and entire crew, including driver to the fire floor, to assist with fire suppression efforts.
- Equipment – high rise packs, high rise equipment bag, thermal imaging camera, forcible entry kit
- Objectives – complete the hose cabinet connection and hose stretch for fire attack, set the inline gauge to correct pressure **with water flowing**, additional forcible entry, provide evacuation/shelter in place direction and perform primary and secondary searches.

3 Third Arriving Apparatus – FDC and RIT/ON DECK

- FDC/Hydrant connection and pump operations (do not charge until directed by IC)
- Driver will remain with the apparatus.
- Captain and entire crew, including the driver proceeds to two floors below the fire floor to set up RIT.
- Equipment – medical bags, thermal imaging camera, RIT equipment.
- Objectives – search the stairwells from two floors below the fire floor to two floors above the fire floor, remains available on deck and in a position to respond to a firefighter MAYDAY, takes over Entry Control.

Highrise Response Quick Reference

4 Fourth Arriving Apparatus – LOBBY SECTOR/ON DECK

- The Captain will delegate the most competent firefighter to assume the role of Lobby Sector
- The Captain and crew (excluding lobby sector) shall proceed to two floors below the fire floor bringing with them additional SCBA cylinders, a thermal imaging camera, and additional relevant equipment as required
- Objectives – Lobby sector officer makes announcements using EVAC system (notify communications and IC if there is not an VCS), provides direction to any evacuating occupants, controls communication, monitors panel, and consulting with building staff.

5 Fifth Arriving Apparatus - VENTILATION

- Captain and entire crew, including the driver enters the building and is responsible for Ventilation.
- Equipment – PPV fans, forcible entry equipment
- Objectives – initiate and control and monitor ventilation operations (positive pressure ventilation of stairwells), in coordination with fire suppression and at the direction of the IC.

6 Sixth Arriving Apparatus – ON DECK (forward staging floor)

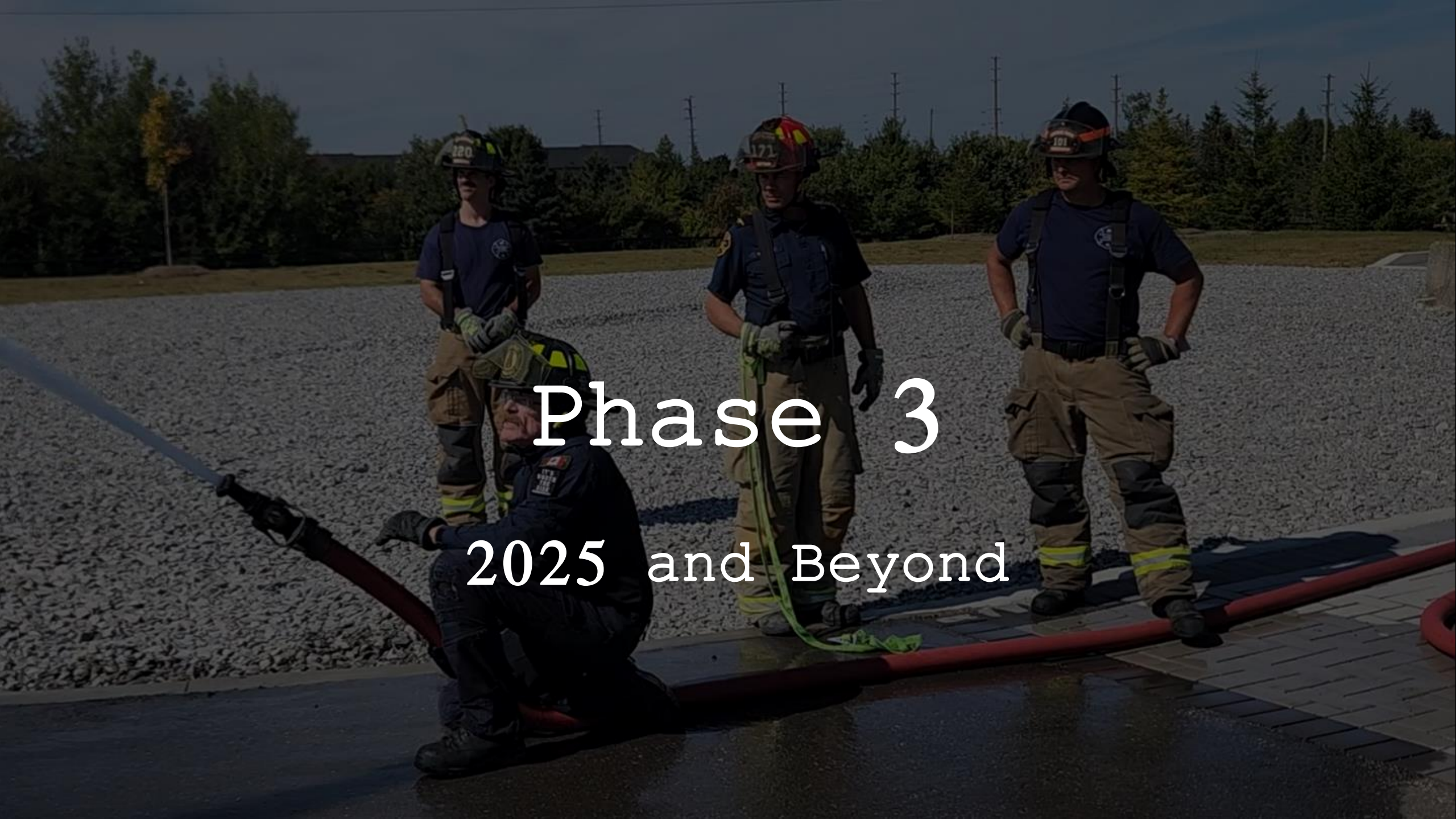
- Captain and entire crew, including the driver proceeds to the forward staging floor, two floors below the fire floor to set up Recycling and Rehab.
- Equipment – bring spare air cylinders and bottled water.
- Objectives – stages on deck, sets up recycling, rehab, and air exchange, takes over Entry Control

Setting Pressure Gauge

- 350 kPa (45 PSI) nozzle pressure (for 1006 LPM)
- 50 kPa per 15m length
- 35 kPa per floor

Charging the FDC- Only as per IC

- Standpipe FDC- maximum of 1400 kPa (200 psi).
- Sprinkler FDC -maximum of 1050 kPa (150 psi).
- Combination system (one FDC supplying both standpipe and sprinkler) -maximum of 1400 kPa (200 psi).



Phase 3

2025 and Beyond