Toronto 2016 BUDGET CAPITAL BUDGET NOTES



Toronto Fire Services

2016 – 2025 CAPITAL BUDGET AND PLAN OVERVIEW

Toronto Fire Services (TFS) is dedicated to protect life, property and the environment from the effects of fires, illnesses, accidents, natural disasters and other hazards.

TFS currently operates 83 fire stations and 9 support facilities with a total area of approximately 775,125 sq. ft. with an estimated replacement value of \$387.562 million.

Fire Services' 10-Year Capital Plan of \$57.240 million provides funding for the replacement of equipment such as portable radios, defibrillators and bunker suits, the construction of 3 new fire stations based on forecasted population density and associated emergency response times and technological changes to improve efficiency in response to service demands.

Some of the technology advancements include the implementation of predictive modelling tool and enhancements to the Computer Aided Dispatch (CAD) that will aid in ensuring operational resources are positioned across the city in the most optimal locations.

Highlights

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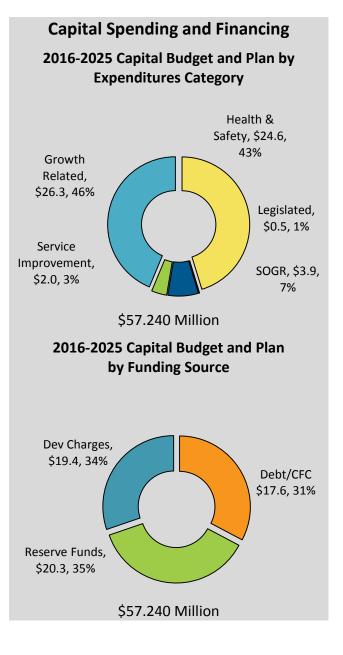
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State of Good Repair Backlog

Where does the money go?

The 2016–2025 Capital Budget and Plan totalling \$57.240 million provides funding for:

- Health and Safety projects which include the replacement purchase of medical equipment and a legislated project for the annual replacement of Heavy Urban Search & Rescue equipment.
- Growth related projects for the construction of 3 new fire stations and the purchase of specialized trucks and equipment.
- Service Improvements include the rebuild of Chaplin Fire Station, South District consolidation and enhancements to the Emergency Communication System.
- State of Good Repair (SOGR) projects include funding for the maintenance of training equipment and facilities and enhancements to the Computer Aided Dispatch system.

Where does the money come from?

The 10-year Capital Plan of \$57.240 is funding from the following sources:

- New debt funding of \$17.618 million comprises 30.8% of total funding which is below the debt guideline over the 10-year planning period;
- Development Charge funding of \$19.362 million or 33.8% based on the portion of projects that are eligible for growth related funding;
- Reserve/Reserve funding of \$20.260 million or 35.4% from three reserves, the Equipment Reserve Fund, Capital Financing Reserve, and the Land Acquisition Reserve Fund.
- The 10-Year Capital Plan does not include funding to address the state of good repair backlog for TFS facilities as asset management capital funding was transferred to Facilities Management & Real Estate (FM&RE) in 2010 to ensure that consistency in maintenance standards are applied through City facilities.
- Facility Management & Real Estate' 10-Year Capital Plan includes \$32.369 million over 10 years to address Fire Services' SOGR backlog for facilities occupied by TFS which is estimated at \$104.398 million or 26.9% as a percentage of asset value of \$387,563 million by 2024.
- TFS does not have a state of good repair backlog for its equipment as these are replaced according to TFS' Equipment Replacement schedule which is required to maintain service continuity, staff safety and regulatory compliance.

Toronto Fire Services

Key Issues & Priority Actions

Fire Services Master Fire Plan - Calls for strategic placement of fire stations and the required fire apparatus and equipment to address anticipated growth.

✓ The 2016-2025 Capital Plan includes the construction of three new fire stations and the rebuild of an existing fire station in areas within the City which is consistent with the Fire Master Plan

Fire Services/EMS Efficiency Review & Fire Underwriters Survey

(FUS) - Identified improvements in emergency communication and alerting systems to assist in the deployment of fire resources and apparatus to improve overall response time.

- ✓ The 2015-2024 Capital Plan included investment in technology such as dynamic staging/predictive modelling capability, enhancement to the Computer Aided Dispatch (CAD) that will aid in the deployment of fire resources and increased deployment of mobile technology in the field.
- ✓ The 2016-2025 Capital Plan includes the purchase of specialized trucks and equipment such as Trench Rescue Roll-Off truck, high-rise response truck, decontamination truck, ground ladder tenders, etc. in response to service demands.

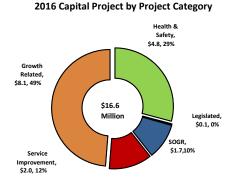
2016 Capital Budget Highlights

The 2016 Capital Budget for Toronto Fire Services of \$16.634 million, excluding carry forward funding, will:

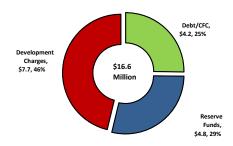
- Begin three new multi-year projects which include the purchase of gas meters, CBRNE equipment; and replacement of the Emergency Fire Communication Workstation Consoles (\$0.270 million).
- Complete thirteen capital projects such as the purchase of bunker suits; thermal imaging cameras and specialized trucks and equipment, upgrades to the computer aided dispatch and the emergency communication system, renovation of the South Command Fire Prevention Office consolidation, and the acquisition of pulse oximeters. (\$10.035 million).
- Continue the construction of two previously approved fire station projects, Station B (Downsview), and Station A (Woodbine) with completion estimated in 2017 (\$6.329 million).







2016 Capital Project by Funding Source



Actions for Consideration

Approval of the 2016 Preliminary Budget as presented in these notes requires that:

- City Council approve the 2016 Capital Budget for Toronto Fire Services with a total project cost of \$2.780 million, and 2016 cash flow of \$20.983 million and future year commitments of \$6.235 million comprised of the following:
 - a) New Cash Flow Funds for:
 - i. 10 new / change in scope sub-projects with a 2016 total project cost of \$2.780 million that requires cash flow of \$1.870 million in 2016 and future year cash flow commitments of \$0.740 million for 2017; and \$0.170 million for 2018;
 - ii. 9 previously approved sub-projects with a 2016 cash flow of \$10.933 million; and future year cash flow commitments of \$5.325 million for 2017;
 - iii. 3 previously approved sub-project with carry forward funding from 2014 and prior years requiring 2016 cash flow of \$3.831 million that requires Council to reaffirm its commitment; and
 - b) 2015 approved cash flow for 8 previously approved sub-projects with carry forward funding from 2015 into 2016 totalling \$4.349 million.
- City Council approve the 2017 2025 Preliminary Capital Plan for Toronto Fire Services totalling \$34.371 million in project estimates, comprised of \$6.400 million in 2017; \$0.750 million for 2018; \$1.150 million for 2019; \$4.650 million for 2020; \$0.150 million for 2021; \$1.250 million for 2022; \$8.186 million for 2023; \$9.118 million for 2024; and \$2.717 million in 2025.
- 3. City Council approve the 2016 Preliminary Capital Budget for the Radio Communication System Replacement project with a 2016 cash flow of \$3.630 million comprised of the 2015 approved cash flow for 1 previously approved sub-projects with carry forward funding from 2015 into 2016 totalling \$3.630 million.

Part I:

10-Year Capital Plan

10 Year Capital Plan

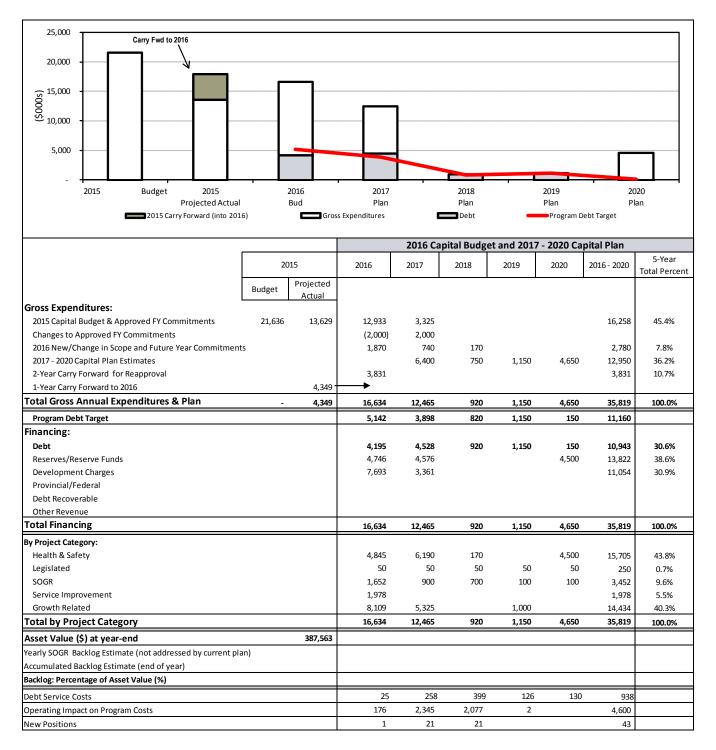


 Table 1a

 2016 Preliminary Budget, 2017-2020 Preliminary Capital Plan

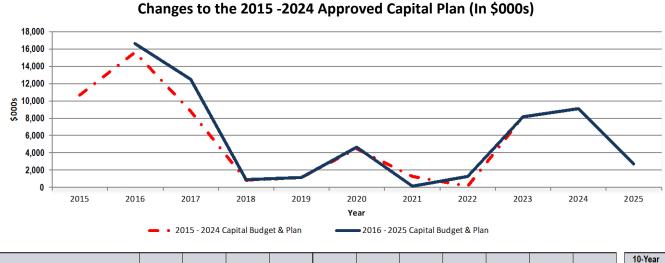
10,000 9,000 8,000 7,000 6,000 (\$000\$) 5,000 4,000 3,000 2,000 1,000 0 2021 Plan 2022 Plan 2025 Plan 2023 Plan 2024 Plan Gross Expenditures Debt Program Debt Target ٦ 2021 - 2025 Capital Plan 10-Year 2021 2022 2023 2024 2025 2016 - 2025 Total Percent **Gross Expenditures:** 2015 Capital Budget & Approved FY Commitments 16,258 28.4% Changes to Approved FY Commitments 2016 New/Change in Scope and Future Year Commitments 2,780 4.9% 2021 - 2025 Capital Plan Estimates 150 1,250 8,186 9,118 2,717 34,371 60.0% 2-Year Carry Forward for Reapproval 3,831 6.7% Total Gross Annual Expenditures & Plan 150 1,250 8,186 9,118 2,717 57,240 93.3% Program Debt Target 150 150 18,782 1,846 2,914 2,562 Financing: 150 17,618 30.8% Debt 150 1,846 2,914 1,615 2,700 2,638 20,260 35.4% Reserves/Reserve Funds 1,100 **Development Charges** 3,640 3,566 1,102 19,362 33.8% Provincial/Federal Debt Recoverable Other Revenue Total Financing 150 2,717 100.0% 1,250 8,186 9,118 57,240 By Project Category: Health & Safety 1,100 2,700 5,050 24.555 42.9% Legislated 50 50 50 50 50 500 0.9% SOGR 100 100 100 100 100 3,952 6.9% Service Improvement 1,978 3.5% Growth Related 5,336 3,918 2,567 26,255 45.9% Total by Project Category 100.0% 150 1,250 8,186 9,118 2,717 57,240 Asset Value(\$) at year-end Yearly SOGR Backlog Estimate (not addressed by current plan) Accumulated Backlog Estimate (end of year) Backlog: Percentage of Asset Value (%) Debt Service Costs 20 20 56 266 356 1,656 Operating Impact on Program Costs 4,600 New Positions 43

Table 1b 2021 - 2025 Preliminary Capital Plan

Key Changes to the 2015 - 2024 Approved Capital Plan

The 2016 Capital Budget and the 2017 - 2025 Capital Plan reflects a decrease of \$2.953 million in capital expenditures from the 2015 - 2024 Approved Capital Plan.

The table and chart below provide a breakdown of the \$2.953 million or 4.9% decrease in the Capital Program on an annual basis from 2015 to 2025.





												10-Year
(\$000s)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
2015 - 2024 Capital Budget & Plan	10,661	15,633	8,775	820	1,150	4,450	1,250	150	8,186	9,118		60,193
2016 - 2025 Capital Budget & Plan		16,634	12,465	920	1,150	4,650	150	1,250	8,186	9,118	2,717	57,240
Change %		6.4%	42.1%	12.2%	0.0%	4.5%	(88.0%)	733.3%	0.0%	0.0%		(4.9%)
Change \$		1,001	3,690	100	0	200	(1,100)	1,100	0	0		(2,953)

As made evident in the chart above, the \$2.953 million decrease is reflective of lower capital needs and smoothing of cash flows for capital projects based on updated information and previous purchasing experience.

As reflected in Table 2 on the following page, changes to the 2015 – 2024 Approved Capital Plan, specifically the \$4.991 million increase in capital funding over the nine common years of the Capital Plan (2016 – 2024) arise from the reprioritization of Toronto Fire Services' capital projects based on the following factors:

- Updated construction schedules for the new fire station projects, Station A (Woodbine) and Station B (Downsview) due to delays in land acquisition and unanticipated preliminary work requirements such as the re-location of underground sewers and electrical lines that were not considered during the planning stage.
- Deferral of cash flow funding for the purchase of defibrillators by 1 year as current defibrillators can still be used for another year prior to replacement.
- The addition of two new projects that will provide funding for equipment to ensure the health and safety of fire fighters.

A summary of project changes for the years 2016 to 2024 totalling \$4.991 million are provided in Table 2 below:

		-		-	-	•		•					
\$000s	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2016 - 2	2024 Total
2015 - 2024 Capital Budget & Plan	10,661	15,633	8,775	820	1,150	4,450	1,250	150	8,186	9,118			49,532
2016 - 2025 Capital Budget & Plan		16,634	12,465	920	1,150	4,650	150	1,250	8,186	9,118	2,717		54,523
Capital Budget & Plan Changes (2016 - 2024)		1,001	3,690	100	-	200	(1,100)	1,100	-	-			4,991
	Total Project Cost	2016	2017	2018	2019	2020	2021	2022	2023	2024	2016 - 2024	2025	Revised Total Proiect Cost
Previously Approved													
Station B (Stn 144) Keele St. (Downsview)	9,885	194	500								694		9,885
Station A (Stn 414) Hwy 27 and Rexdale Blvd	8,342	137	2,000								2,137		8,342
Defibrillators Lifecycle Replacement	1,000	(1,000)	1,000				(1,100)	1,100			-		1,000
Renovation/Repurposing of Fire Station 424	980	250									250		1,230
Purchase of Gas Metres for Fire Investigators	70	50	20	(70)							-		70
Specialized Trucks& Equipment*	3,250	1,000									1,000		3,250
Bunker Suits Lifecycle Replacement	4,300					200					200		4,500
Replacement of HUSAR Equipment	50											50	450
Training Simulators	100											100	1,000
Station G (New Station 124) - Sunnybrook	9,254											2,567	11,821
Total Previously Approved	37,231	631	3,520	(70)		200	(1,100)	1,100			4,281	2,717	41,548
New													Í
Handheld Oximeter and Accessories		200									200		200
Replacement of CBRNE		170	170	170							510		510
Total New		370	170	170							710		710
Total Changes		1,001	3,690	100		200	(1,100)	1,100			4,991	2,717	42,258

Table 2Summary of Project Changes (In \$000s)

Significant Capital Project Changes in Toronto Fire Services:

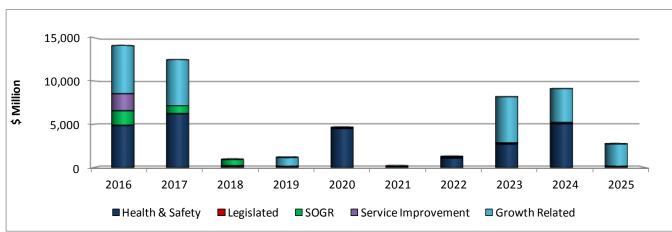
Cash flow funding for the following previously approved capital projects have been adjusted based on historical spending rates, capacity and expected progress and completion of the projects, as outlined below:

- Cash flow funding for 2 new station projects, Station B (Downsview) and Station A (Woodbine)
 projects have been deferred by 1 year from 2016 to 2017 based on revised construction schedules.
- The *Renovation/Re-purposing of Station 424* project will require additional funding of \$0.250 million to maintain swing space serviceability as a fire station. The station, with 6 to 8 Fire Prevention /Public Education personnel, will serve as alternative space for fire stations that may need to be temporarily closed for repairs.
- The Purchase of Gas Meters for Fire Investigators project is being accelerated from 2018 to 2016 based on the outcome of a recent meeting with current OFMEM fire investigators and its Health and Safety representatives. This equipment is required to protect the health and safety of staff during post-fire origin and cause investigations.
- The two *Replacement Purchase of 167 Defibrillators* projects are being deferred by one year from 2016-to 2017 and 2021 to 2022. TFS recently evaluated the defibrillators currently being used and were deemed to be serviceable for another year.
- The *Bunker Suit Replacement* project cost has been adjusted based on revised cost estimates.
- Three projects, Station B (Downsview), Station A (Woodbine) and the Purchase of Specialized Trucks projects include 2-year carry forward funding totalling \$3.831 million.

2016 Capital Budget

Two new projects totalling \$0.710 million have been added to the 2015 – 2024 Approved Capital Plan:

- The Handheld Pulse Oximeter and Accessories project will provide funding for the purchase of 177 handheld pulse oximeter & accessories that will be used in all frontline apparatus. The equipment is a non-invasive method of monitoring a person's oxygen levels/saturation. Currently, the equipment is used by the TFS Hazardous Materials unit when responding to haz-mat related medical emergencies.
- The Replacement of Chemical, Biological, Radiological and Nuclear Explosives (CBRNE) equipment project will fund the replacement of Chemical Biological Radiological Nuclear Explosives (CBRNE) equipment over a 3-year period which includes the Hazmat ID 360 - a primary piece of technology for the detection of unknown CBRNE materials.



2016 – 2025 Preliminary Capital Plan

Chart 2 2016 – 2025 Capital Plan by Project Category (In \$000s)

As illustrated in the chart above, the 10-Year Capital Plan for Toronto Fire Services of \$57.240 million provides 42.9% funding for Health & Safety projects and 45.9% for Growth Related projects as priorities. State of Good Repair (SOGR) projects represent 6.9%, Service Improvement projects represent 3.5% and the Legislative mandated project represents the remaining 0.9% over the 10-year period.

- Healthy and Safety projects account for \$24.555 million with higher spending levels in 2015 to 2017 reflecting the scheduled replacement of portable radios, defibrillators and bunker suits used by fire fighters. The next major replacement of bunker suits is scheduled in 2020 while the equipment replacement schedule is mainly in 2023 and 2024.
- State of Good Repair and Service Improvement projects require \$3.952 million and \$1.978 million respectively mainly for the renovation of Fire Station 135 (Chaplin), Station 424 (Runnymede) and South Command Fire Prevention Consolidation, and various repairs to TFS' training facilities (burn houses) and equipment.
- Growth Related projects account for \$26.255 million of total funding, the majority of which is to fund the construction of three new fire stations including the purchase of specialized fire trucks

and equipment. Most of the funding is required between 2015 - 2017 for the completion of 2 new fire stations and the purchase of specialized fire trucks and equipment. The construction of the 3rd new fire station is scheduled to begin in 2023.

The following table provides details by project category within the 2016 – 2025 Capital Budget and Plan for Toronto Fire Services:

	Total App'd Cash Flows to Date*	2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total	Total Project Cost
Total Expenditures by Category													
Health & Safety													
Thermal Imaging Cameras	725	725										725	1,450
Replacement of Portable Radios			5,000							5,050		10,050	10,050
Mobile Radios Lifecycle Replacement									2,700			2,700	2,700
Bunker Suits Lifesycle Replacement-2015	200	3,700										3,700	3,900
Bunker Suits Lifesycle Replacement-2020						4,500						4,500	4,500
Defibrillators Lifecycle Replacement			1,000					1,100				2,100	2,100
Purchase of Gas Metres for Fire Investigators		50	20									70	70
The Handheld Oximeter amd Accessories		200										200	200
Replacement of CBRNE Equipment		170	170	170								510	510
Sub-Total		4,845	6,190	170		4,500		1,100	2,700	5,050		24,555	25,480
Legislated													
Replacement of HUSAR Equipment		50	50	50	50	50	50	50	50	50	50	500	500
Sub-Total		50	50	50	50	50	50	50	50	50	50	500	500
State of Good Repair													
Training Simulators Rehabilitation		100	100	100	100	100	100	100	100	100	100	1,000	1,000
Computer Aided Dispatch Upgrade	703	552										552	1,255
Renovation/Repurposing of Fire Station 424	780	450										450	1,230
Emergency Fire Communication Workstation Console Replace	ement	50	550									600	600
Technical Rescue Simulator Repair		250										250	250
Replace Aging Propane Pumps and Vaporizers		250										250	250
The East/West Burn Houses - Wall Flame Protection			250									250	250
Existing East Training Bldg - Extend Bays				400								400	400
Burn House Burners/Technology Replacement				200								200	200
Sub-Total	1,483	1,652	900	700	100	100	100	100	100	100	100	3,952	5,435
Service Improvements													
Replacement of Fire Station 135 - Chaplin Fire Station	6,304	1,030										1,030	7,334
Emergency Communication System Enhancement	447	448										448	895
Fire Prevention - South District Consolidation		500										500	500
Sub-Total	6,751	1,978										1,978	8,729
Growth Related													
Station B (Stn 144) Keele St (Downsview)	5,887	4,192	500									4,692	9,885
Station A (Stn 414) - Hwy 27 and Rexdale Blvd	3,517	2,137	4,825									6,962	8,342
Specialized Trucks& Equipment	2,470	1,780	.,==0									1,780	3,250
East Training - New Bulding of the Fire Ground		_,			1,000							1,000	1,000
Station G (New Station 124) - Sunnybrook					_,000				5,336	3,918	2,567	11,821	11,821
Sub-Total		8,109	5,325	-	1,000	-	-	-	5,336	3,918	2,567	26,255	34,298
Total Expenditures by Category (excluding carry forward)	8,234	16,634	12,465	920	1,150	4,650	150	1,250	8,186	9,118	2,717	57,240	74,442

 Table 3

 Summary of Capital Projects by Category (In \$000s)

*Life to Date approved cash flows are provided for multi-year capital projects with cash flow approvals prior to 2016, excluding ongoing capital projects (i.e. Training Simulators Rehabilitation project and Replacement of HUSAR Equipment).

2016 – 2025 Capital Projects

The 10-Year Capital Plan supports Toronto Fire Services' capital strategy to address the service gaps within the community which drives the need for new fire stations, the use of the latest technology to better respond to emergency calls and the lifecycle demands of fire stations, training facilities and equipment.

Health and Safety

- Health and Safety projects account for \$24.555 million or 42.9% of the total 10-Year Capital Plan.
 - Replacement purchase projects funding is included for portable radios (\$10.050 million), bunker suits (\$8.200 million); defibrillators (\$2.100 million), and mobile radios (\$2.700 million).

2016 Capital Budget

- Purchase of 75 Thermal Imaging Cameras (TIC) (\$0.725 million) to enable firefighters to see through smoke. The use of TICs by TFS will measurably improve firefighter safety, public safety, reduction of property loss and general efficiency of fire ground emergency operations.
- Purchase of Handheld Pulse Oximeter (\$0.200 million) which will be able to detect and treat poisoning due to carbon monoxide and smoke inhalation as well as measure the blood oxygen saturation of TFS personnel during rehabilitation operations.
- Purchase of CBRNE equipment (\$0.510 million) which can detect the presence of unknown CBRNE materials.

Legislated

 The Legislated project included in the 10-Year Capital Plan provides annual funding of \$0.050 million or total funding of \$0.500 million over the 10-year period for the continued replacement of emergency response equipment required by Fire Services' HUSAR team.

State of Good Repair (SOGR)

- SOGR projects account for \$3.952 million or 6.9% of the total 10-Year Capital Plan's expenditures.
- The 10-Year Capital Plan incorporates an investment of \$3.952 million dedicated to the following new SOGR capital projects:
 - Training Simulators / Facilities Rehabilitation project (\$1.000 million) includes annual cash flows of \$0.100 million for the capital maintenance of the East & West Burn-houses training simulators and other training facilities. These burn-houses are used continually in live fire training exercises by both Operations Division and Recruit Induction. High temperature exposure and flame impingement causes deterioration of concrete, steel and brick components, protection panels and burns pads that need remediation.
 - Computer Aided Dispatch (CAD) Upgrade project (\$0.552 million) will ensure the current TFS CAD system is upgraded from version 9.1 to version 9.3 and transition from an Oracle database to an SQL database format. Data generated by the CAD system will be utilized in conjunction with the Dynamic Staging/Predictive Modelling project to aid in the deployment of fire apparatus.
 - Renovation and Repurposing of Station 424 project (\$0.450 million) will provide funding to renovate the current fire station to provide additional space for Emergency Planning / Fire Prevention / Public Education personnel. The station, in addition to 6 to 8 Fire Prevention /Public Education personnel will serve as an alternative space for fire stations that may be temporarily closed for repairs. The renovation will include new dormitories/locker room and washrooms and will address significant SOGR deficiencies.
 - Emergency Fire Communication Workstation Console Replacement project (\$0.600 million) will fund the replacement of emergency dispatch consoles to address ergonomic issues, technology, workflow and workspace requirements in TFS' 24/7 Communications Dispatch Centre.
 - Technical Rescue Simulator project (\$0.250 million) will provide TFS with a more suitably climate controlled training area for year round training utilizing the simulators in the Dome (Technical Rescues).
 - Replace Aging Propane Pumps and Vaporizers project (\$0.250 million) will replace the current equipment which was installed over 20 years ago and has reached the end of its life cycle.

2016 Capital Budget

- East/West Burn Houses Wall Flame Protection project (\$0.250 million) will fund the repair of existing wall protection in the East and West Burn Houses as concrete spalling was observed during the recent structural audit conducted on the facility.
- East Training Bldg Garage Bay Extension project (\$0.400 million) will fund the extension of garage bays in the existing facility to accommodate the storage of aerials and pumpers used for training especially during the winter season. Inside storage will ensure trucks are in good condition to maximize the use of these trucks for staff training.
- Burn House Burners/Technology Replacement project (\$0.200 million) is required for the replacement of burn-house & simulators at the Toronto Fire Academy. The project will ensure year round training of newly hired fire fighters in the basic skills of fire fighting and seasoned fire fighters to maintain their learned skills and to develop new techniques and tactics.

Service Improvements

- Service Improvement projects account for \$1.978 million or 3.5%.
 - The Rebuild of Chaplin Fire Station #135 project (\$1.030 million) will ensure the completion of the project in 2016. The rebuild was required as the station was deemed unsafe due to structural problems with the garage floor which could not support the weight of fire trucks.
 - The Emergency Communication System Enhancement project (\$0.448 million) will provide funding to increase the functionality of mobile applications of frontline apparatus that require additional bandwidth.
 - The Fire Prevention South District Consolidation project (\$0.500 million) will fund the renovation of an existing Fire Services location to accommodate the consolidation of Fire prevention staff in one mid-city location allowing for enhanced coverage by Fire Prevention staff doing site visits and inspections across the South District.

Growth Related

- Growth Related projects total \$26.255 million or 45.9% of the total 10-Year Capital Plan's expenditures.
 - The Station B (Downsview) project (\$4.692 million) will provide funding to complete the construction of a new fire station (2013-2016) as recommended by the KPMG report of 1999 and Toronto Fire Services' (TFS) Master Plan 2007.
 - The Station A (Woodbine) project (\$6.962 million) will provide funding to complete the construction of a new fire station in the Woodbine Racetrack at Hwy 27 and Rexdale that will allow Fire Services to respond to emergency calls with a four-minute road response time in 90% of instances. Funding of \$3.517 million was approved in 2014 for the purchase of land and the initial design and preparation of the site.
 - The Specialized Trucks and Equipment project (\$1.780 million) will fund the purchase of the remaining 6 specialized trucks and equipment in 2016.
 - The East Training New Building of the Fire Ground project (\$1.000 million) requires funding to provide a climate controlled facility to ensure 12 months of continuous fire fighter training.
 - The Station G (Sunnybrook) project (\$11.821 million) is a new fire station scheduled to begin in 2023 to address the gaps in service levels in the Sunnybrook area.

2016 Capital Budget and Future Year Commitments

Included as a sub-set of the 10-Year Capital Plan is the 2016 Capital Budget and Future Year Commitments, that consists of 2016 and future year cash flows for projects previously approved by Council; adjustments (Scope Change) to those previously approved projects; as well as new projects that collectively require Council approval to begin, continue or complete capital work.

Table 3a below lists the 2016 Cash Flow and Future Year Commitments for Toronto Fire Services

											Total 2014
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Cash Flow
											& FY
e 15											Commits
Expenditures											
Previously Approved											
Bunker Suits Lifesycle Replacement-2015	3,700										3,700
Thermal Imaging Cameras	725										725
Renovation/Repurposing of Fire Station 424	200										200
Computer Aided Dispatch Upgrade	552										552
Replacement of Fire Station 135 - Chaplin Fire Station	1,030										1,030
Emergency Communication System Enhancement	448										448
Station B (Stn 144) Keele St (Downsview)	4,192	500									4,692
Station A (Stn 414) - Hwy 27 and Rexdale Blvd	2,137	4,825									6,962
Specialized Trucks& Equipment	1,780										1,780
Sub-Total	14,764	5,325									20,089
Change in Scope											
Renovation/Repurposing of Fire Station 424	250										250
Sub-Total	250										250
New / New w/ Future Year											
The Handheld Oximeter amd Accessories	200										200
Replacement of HUSAR Equipment	50										50
Training Simulators Rehabilitation	100										100
Technical Rescue Simulator Repair	250										250
Replace Aging Propane Pumps and Vaporizers	250										250
Fire Prevention - South District Consolidation	500										500
Purchase of Gas Metres for Fire Investigators	50	20									70
Emergency Fire Communication Workstation Console Replace	50	550									600
Replacement of CBRNE Equipment	170	170	170								510
Sub-Total	1,620	740	170								2,530
Total Expenditure	16,634	6,065	170								22,869
Financing											
Debt/CFC	4,195	1,753	170								6,118
Debt Recoverable											, -
Other											
Reserves/Res Funds	4,746	951									5,697
Development Charges	7,693	3,361									11,054
Provincial/Federal	.,055	5,501									11,004
Total Financing	16,634	6,065	170								22,869
iotai Filialicilig	10,034	0,005	1/0								22,00

Table 3a
2016 Cash Flow & Future Year Commitments (in \$000s)

Approval of the 2016 Capital Budget of \$16.634 million will result in the future cash flow commitments of \$6.065 million in 2017 and \$0.170 million in 2018 for a total of \$22.869 million

• The 2016 Capital Budget provides funding of \$14.764 million for previously approved projects that are already underway with future year commitments of \$5.325 million in 2017 for a total of

\$20.089 million. Cash flow funding is dedicated to ongoing and multi-year projects for nine projects including *Bunker Suits Lifecycle Replacement, Station B (Downsview) project, Station A (Woodbine), Computer Aided Dispatch Upgrade, etc.* (Please refer to Table 3a for more details.)

- *The change in scope funding* of \$0.250 million has been added for the previously approved *Renovation and Repurposing of the Fire Station 424* project.
- New and multi-year funding of \$1.620 million has been added to the 2016 Capital Budget for nine new initiatives such as the Purchase of Gas Metres for Fire Investigators, Emergency Fire Communication Workstation Console Replacement, Fire Prevention – South District Consolidations, etc. (Please refer to Table 3a for more details.)

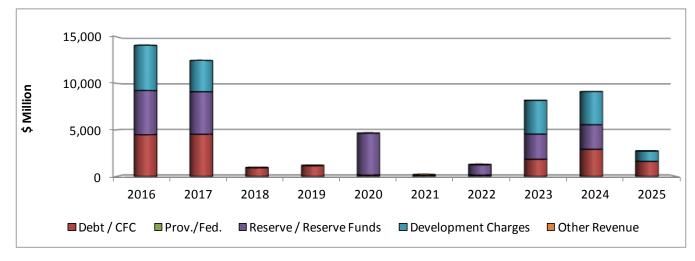


Chart 3 2016 – 2025 Capital Plan by Funding Source (In \$000s)

The 10-Year Capital Plan of \$57.240 million cash flow funding will be financed by the following sources:

- New debt funding of \$17.618 million, comprising 30.8% of total funding which is below the debt guideline over the 10-year planning period.
 - > Development Charge funding was maximized for eligible growth related projects resulting in reducing debt funding by \$1.164 million over the 10-Year period.
- Reserve and Reserve Funds constitute \$20.260 million or 35.4% of required funding over 10 years for the following major projects:
 - Fire Services' Equipment Reserve fully funds the replacement of defibrillators, bunker suits and portable radios.
 - The Capital Financing Reserve contribution of \$0.967 million and the Land Acquisition Reserve Fund (LARF) contribution of \$1.030 million will partially fund the new fire station, Station A (Woodbine) at the Woodbine Racetrack and Hwy 7 and the rebuild of the Chaplin Fire Station respectively.
- Development Charges represent \$19.362 million or 33.8% of funding for the 10-Year Capital Budget and Plan. Development Charge funding has been maximized for the following:

- Construction of new station projects, Station A (Woodbine), Station B (Downsview), and Station G (Sunnybrook); and
- Purchase of specialized trucks and equipment.

State of Good Repair (SOGR) Backlog

The 10-Year Preliminary Capital Plan dedicates \$3.952 million to SOGR spending over the 10-year capital plan for the repair of training facilities and equipment to ensure year round training of firefighters, systems upgrade of Fire Services communication system.

TFS does not have a state of good repair backlog for its medical equipment and personal protective equipment as these are replaced according to TFS' Equipment Replacement schedule which is required to maintain service continuity, staff and patient safety and regulatory compliance.

10-Year Capital Plan: Net Operating Budget Impact

	Net	: Opei	rating I	mpac	t Sum	mary	/ (In \$	\$000s)					
	2016	Budget	2017	Plan	2018	Plan	2019	9 Plan	202	0 Plan	2016	- 2020	2016	- 2025
Projects	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions
Previously Approved														
Emergency Phone System Replacement	116.0	1.0									116.0	1.0	116.0	1.0
Predictive Modelling Tool/Dynamic Staging	60.0										60.0		60.0	
Computer Aided Dispatch Upgrade			15.0		1.0		1.0				17.0		17.0	
Emergency Communication System Enhancement			80.0		1.0		1.0				82.0		82.0	
Station B (Stn 144) Keele St (Downsview)			2,075.0	21.0							2,075.0	21.0	2,075.0	21.0
Station A (Stn 414) Hwy 27 and Rexdale Blvd					2,075.0	21.0					2,075.0	21.0	2,075.0	21.0
Thermal Imaging Cameras			145.0								145.0		145.0	
New Projects - 2016														
Replacement of CBRNE Equipment			30.0								30.0		30.0	
Total (Net)	176.0	1.0	2,345.0	21.0	2,077.0	21.0	2.0				4,600.0	43.0	4,600.0	43.0

/· ****

Table 5

The 10-Year Capital Plan will increase future year Operating Budgets by a total of \$4.600 million net over the 2016 – 2025 period, as shown in the table above.

This is comprised of funding to sustain the following capital projects:

- The Emergency Phone System Replacement project will require one permanent position (Systems Integrator) to manage and monitor the new IP based 911 system.
- The Dynamic Staging/Predictive Modelling software will require funding for system maintenance and licensing costs.
- The Computer Aided Dispatch Upgrade and Emergency Communication System Enhancement will result in additional \$0.099 million for maintenance and services costs
- 2 new fire stations (Station B Downsview) and Station A Woodbine) will require 21 new fire fighter positions per station in 2017 and 2018 respectively and will result in additional maintenance and utility costs.
- The purchase of Thermal Imaging Cameras (TICs) and CBRNE equipment will increase the Equipment Reserve contribution by \$0.175 million to fund the scheduled replacement of these equipment.

These future operating impacts will be reviewed each year as part of the annual Operating Budget process.

Table 6
Capital Project Delivery: New Temporary Positions

	CAPTOR		Project	Salary and Benefits \$ Amount(\$000s)						
	Project	# of		End Date						
Position Title	Number	Positions	Start Date	(m/d/yr)	2016	2017	2018	2019	2020	2020 - 2025
Captain Information & Communication	FIR908041	1.0	04/01/2015	12/31/2016	144.9					
Total		1.0			144.9					

Approval of the 2016 – 2025 Capital Budget and Capital Budget will require the extension of 1.0 temporary capital position, Captain, Information and Communications, that is already included in Toronto Fire Services' 2015 Approved Staff Complement.

 A temporary position will continue to 2016 to manage the Computer Aided Dispatch Upgrade systems' integration and testing and to ensure stability verification operations are completed as scheduled.

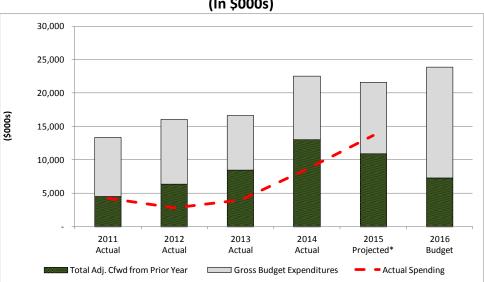
Part II: Issues for Discussion

Issues for Discussion

Issues Impacting the 2016 Capital Budget

Review of 2016-2025 Capital Requirements:

- During the 2015 Budget process, City Council directed the Deputy City Manager & Chief Financial Officer to commence a detailed review of the City's 2016 – 2025 capital requirements as part of the City's 2016 Capital Budget process to ensure that debt affordability targets continue to be maintained, and report the results to Budget Committee early in the 2016 Budget process.
- The projects included in the 10-Year Capital Plan for Fire Services were reviewed and reprioritized based on the Program's requirements and readiness to proceed while ensuring that the debt requirements remain within or below the program's debt target for each year of the 10-year plan.
 - Development Charge funding was maximized for growth related projects to free up debt to accommodate the 2-year carry forward funding requirements for Station A, Station B and Specialized Trucks.
 - Cash flow funding for the defibrillators lifecycle replacement was deferred by 1 year as current defibrillators can still be used for another year prior to replacement.
- The cash flow estimates for all projects were reviewed and amended to align with spending capacity while taking into consideration historical spending rate as shown in the chart below which shows the spending trend of the total capital program for TFS since 2011. The bars in the chart below show annual spending on new projects versus carry forward funding for previously approved projects.



Capacity to Spend - Budget vs. Actual (In \$000s)

Capital Spending Rate (In \$000s)

		2011			2012			2013			2014			2015		Spending
	Approved		Spending	Rate 5												
Category	Budget	Actual	Rate %	Year Avg.												
Health & Safety	2,909	2,808	96.5%	343		0.0%	5,824	216	3.7%	5,581	1,940	34.8%	4,567	3,652	80.0%	44.8%
Legislated	583	329	56.5%	200	23	11.5%	377	141	37.3%	50	50	100.0%	50	50	100.0%	47.0%
SOGR	1,758	251	14.3%	1,426	676	47.4%	200	183	91.7%	1,100	-	0.0%	2,653	1,170	44.1%	32.0%
Service Improvement	2,845	282	9.9%	4,808	786	16.3%	744	55	7.3%	3,743	1,450	38.7%	6,417	5,377	83.8%	42.8%
Growth Related	5,260	533	10.1%	9,303	1,307	14.0%	9,481	3,399	35.9%	12,069	5,112	42.4%	7,949	2,608	32.8%	29.4%
Total	13,355	4,203	31.5%	16,079	2,792	17.4%	16,626	3,993	24.0%	22,544	8,552	37.9%	21,636	12,857	59.4%	35.9%

Over the last five years, TFS has significantly under-spent its Approved Capital Budget with an average annual spending rate of 35.9%.

- The low spending rate for Health and Safety projects was due to the delay in the purchase of selfcontained breathing apparatus in 2013 and 2014. Manufacturers of this product obtained final approval from the National Fire Protection Association (NFPA) in 2014 on the design changes to address health & safety issues.
- The low spending rate for Service Improvement and Growth Related projects was mainly due to the construction of 3 new fire stations and the renovation of an existing fire station. Factors that delayed the projects include:
 - Delays in land acquisition for new fire stations;
 - > Delays in the issuance of building permit;
 - Lease contracts were not signed as scheduled;
 - Other unforeseen circumstances such presence of contaminated soil and oil tanks which required remediation, presence of sewer lines that needed to be moved prior to construction, etc.; and
 - Significant delays in the completion and execution of bid documents and contracts by Purchasing
- In determining the Program's readiness and capacity to spend, the projects included in the 10-Year Capital Plan were reviewed to ensure the projects are ready to proceed and that the cash flows reflected project timelines. The following resulted from the review:
 - Major construction projects such as Station A (Woodbine) and Station B (Downsview) have had their cash flows revised to reflect current construction progress.
 - Replacement purchase projects such as purchase of defibrillators and gas meters reprioritized based on project readiness.
 - State of good repair project cash flows were amended to ensure alignment with Program's spending capacity and historical spend rates.

Radio Communication System Replacement Project: Status Update

- The Radio Communications System Replacement project is a corporate initiative involving three Programs: Fire Services, Toronto Police Service and Emergency Medical Services and does not reside in any one of these Programs' Capital Plans.
- The project was originally approved in 2012 with a total project cost of \$70.000 million. However, in June 2012, the contract with Motorola Solutions Canada was finalized and the total project cost

was revised to \$51.705 million (approved in 2013 Capital Budget), a reduction \$18.295 million. The project was originally anticipated to be completed by mid-2014 but has now been delayed to mid-2016 due to the following:

- In 2013, the project experienced issues relating to civil construction work at tower sites which impacted both the schedule and funding such as:
 - 1. Several existing sites had space restrictions or landlord concerns which were not identifiable until in-project equipment layout designs were completed. Several steps were taken to address these issues including equipment room expansion, two new equipment shelters and a new site build (additional funding of \$1.500 million).
 - 2. An in-project audit of existing site equipment rooms indicated requirements for environmental upgrades prior to equipment installation, with examples including air conditioning, fire suppression and security alarms (additional funding of \$1.400 million).
- During a Project Steering Committee meeting held in December 2013, the financial impact of the issues identified was raised and the decision was to monitor the expenditure in 2014 as majority of the construction costs were estimates at that time.
- In 2015, as a result of the issues identified above, a funding increase of \$3.786 million was approved resulting in a total project cost of \$55.491 million to cover the remaining implementation milestone payments and management fees.
 - The infrastructure implementation is substantially completed with Toronto Police and Toronto Paramedic Services fully migrated to the new system early in 2015. Toronto Fire Services went live with Fire Station Alerting In July of 2015 and transitioned all radio users at the end of September 2015. Inter-operability testing with adjacent municipalities is targeted for completion and acceptance at the end of 2015.
- In 2016, the carry forward funding of \$3.630 million will fund the remaining project activities including decommissioning and implementation of an alternative wireless network component are expected to be completed by mid-2016.

Benefits of the New Radio Infrastructure System:

- The benefits of the project to the City of Toronto are significant, both operationally and in the long term. The new radio infrastructure brings vast improvements in coverage, capacity, resiliency and survivability. The City's first responders now have a radio system that has been designed and implemented to withstand any number of failures while continuing to provide mission critical communications to the city's emergency services during day to day activities or during large scale events.
- The new radio infrastructure system provides life cycle support that includes all software and hardware platforms for the next 15 years.

Issues Impacting the 10-Year Capital Plan

Master Fire Plan 2015-2019

- Toronto Fire Services (TFS) 2015-2019 Master Fire Plan was approved by City Council at its meeting of March 31, 2015. The updated Master Fire Plan considered and incorporated the research and recommendations brought forward by third party organizations (including the 2013 Fire Underwriters Survey, the 2013 POMAX Efficiency Study, and the 2013 Auditor General's Report on Recruitment and Training).
- The Master Fire Plan outlines the following major capital initiatives that are to be implemented over the next five years.
 - a) Construction of new Fire Stations:
 - 3 new fire stations, Station A (Woodbine), B (Downsview) and G (Sunnybrook) were identified in the 1999 KPMG Study and the 2007 Master Fire Plan as fire station locations that will provide optimal fire protection for the City of Toronto. A review of the response time data validated the continuing need for these stations in the updated 2015-2019 Master Fire Plan.
 - Station A (Woodbine) project has commenced and is anticipated to be completed in Q4 2017. Land acquisition was completed in April 2015 and the design phase commenced in October 2015.
 - Station B (Downsview) projected has commenced and anticipated to be completed in Q1 2017. In 2015, the application for site plan approval and building permits has been submitted and construction is scheduled to start in December 2015
 - Station G (Sunnybrook) currently planned to begin in 2023.
 - b) <u>Technology Improvements:</u>
 - The following technology investments are expected to yield improvements in efficiency and service levels and were identified in the Fire/EMS Efficiency Study completed in 2013 well as the options provided by the Fire Underwriters Survey (FUS).
 - Dynamic Staging software uses current information from Computer Aided Dispatch (CAD) systems supported by historical emergency response data to determine the most strategic and efficient deployment of trucks in real-time. This approach will reduce service coverage gaps that can occur when multiple trucks are engaged in responding to emergency incidents. The project will be completed by the end of 2015.
 - The Predictive Modeling Tool will run in conjunction with TFS' Computer Aided Dispatch System to aid in the deployment of fire apparatus and crews that will assist in improving coverage and total response times. Predictive modelling will assist in ensuring operational resources are positioned across the City in the most optimal location. It will also be of significant importance in determining the best locations to plan for new fire stations, apparatus and staff resources. It is anticipated that the implementation of all program components will be completed by the year-end 2015.

- The installation of GPS repeaters at all stations, to be completed by December 2015, will
 provide uninterrupted satellite signals indoors that will eliminate delays to re-acquire
 satellite signals when front line vehicle's onboard GPS receivers lose signals in fire stations.
 - This project will ensure that GPS information is always available for TFS vehicles with no delays in acquiring signals when trucks leave the stations.
- Traffic Control Pre-emption is a future project being considered in partnership with other City Divisions including Transportation Services, TTC, Toronto Paramedic Services and Toronto Police Services.
 - Traffic control pre-emption gives emergency response vehicles a green light at specific signalized intersections and has shown to improve fire response times and reduce the risk of collision involving response vehicles, particularly in congested areas.
- c) Fire Apparatus and Emergency Equipment:
- The Purchase of 10 specialized trucks and emergency equipment, expected to be delivered in 2016, to support the current fire equipment and operations and provide TFS with the necessary fire apparatus to ensure that the most appropriate vehicle is dispatched to effectively fight fires across the City.
- TFS is in the beginning stages of researching new technologies and procedures for high-rise urban fire suppression that may include the use of new-generation compressed air foam systems (CAFS) and the use of European-style frontline fire apparatus that support CAFS deployment in high-density urban areas.
- d) <u>Completion of the New Radio System</u>
- The implementation of a new radio system in 2015 in conjunction with Toronto Police Service and Toronto Paramedic Services as well as the replacement of the current Fire Station Alerting System have the potential to reduce seconds off of the time it takes to dispatch vehicles on an emergency call which currently stands at 56 seconds.

TFS Long Term Capital Challenges and Opportunities

- TFS continues to face challenges managing 90+ facilities with a total of 775,125 square feet, a replacement value of \$387.562 million, and extensive maintenance needs. The recent City of Toronto Building Conditions Audit (BCA) identified that TFS infrastructure has an accumulated backlog (state of good repair deficit) that will increase from \$0.156 million in 2016 to \$104.398 million by 2025. This is mainly the result of the age of its fire stations; the average TFS fire station being 53 years old.
- The proliferation of high-rise developments across the City has also increased the need for reassessing overall placement of stations and firefighting apparatus due to the impact on vertical response times.
- Emergency response travel times have and will continue to be impacted by the increased densification and traffic congestion in the City. While some of the planned technology projects included in the 10-year Capital Plan will assist in alleviating these pressures, new models for

meeting service demands are required. Specific requirements will be determined through the CFAI Accreditation project that is underway.

- With many of TFS' urban one and two-storey fire stations sitting on high value land, there is a need to explore development opportunities to incorporate storefront fire stations into high-rise and midrise in-filling projects that can address the state of good repair funding gaps and improve station location effectiveness at the same time. These partnerships can be extended to other municipal agencies or divisions as well.
- TFS will work in collaboration with Real Estate Services to review the placement of TFS' 83 fire stations that are geographically dispersed across the City as part of a long term plan strategy to assess the optimum location of existing fire stations, as well as new stations and posts that will enhance efficient use of staff resources and fire apparatus to improve response travel times.

Appendices

Appendix 1 2015 Performance

2015 Key Accomplishments

In 2015, Toronto Fire Services made significant progress and/or accomplished the following:

- ✓ The Self-Contained Breathing Apparatus Replacement project (\$3.641 million) allowed for the purchase of self-contained breathing apparatus in July 2015.
- ✓ The Predictive Modelling/Dynamic Staging project (\$0.645 million) will be completed and launched by year end. Predictive Modelling will assist in ensuring operational resources are positioned across the City in the most optimal locations. Dynamic Staging uses real-time information from CAD systems and historical data to determine the most strategic and efficient placement of apparatus.
- ✓ The Emergency Phone System Replacement project (\$0.720 million) allows for the replacement of TFS' telephone infrastructure required to support the migration to IP based 911 calls. Completion is expected by year end.
- ✓ The Fire Station GPS Repeaters project (\$0.425 million) is expected to be complete by year-end. The GPS repeaters will provide satellite signals indoors at all stations which will eliminate delays caused by the need for onboard GPS receivers to re-acquire satellite signals.
- ✓ The Mobile Work Station Enhancement project (\$0.307 million) provides wireless access points at TFS Stations and other points of presence to allow for high speed connectivity to mobile work stations.

2015 Financial Performance

2015 Approved	As of Sept	. 30, 2015	Projected Actu	als at Year End	Unspent Balance			
\$	\$	% Spent	\$	% Spent	\$ Unspent	% Unspent		
21,636	7,744	35.8%	13,629	63.0%	8,007	37.0%		

Table 9 2015 Budget Variance Analysis (In \$000's)

* Based on 2015 Third Quarter Capital Variance Report

2015 Experience

At its meeting on December 9, 2015, Council approved the 2015 Capital Variance Report for the nine months ended September 30, 2015. Please refer to the attached link for the staff report regarding the details of variance explanations and year-end projections for Toronto Fire Services:

http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2015.BU13.7

Impact of the 2015 Capital Variance on the 2016 Preliminary Budget

- As a result of the delays in the capital projects, as described in the 2015 Q3 Capital Variance Report, funding of \$4.349 million is being carried forward to the 2016 Preliminary Capital Budget to continue the capital work.
- A detailed review of the 2016 2025 Preliminary Capital Budget and Plan has been conducted and the necessary adjustments has been made to the timing of cash flow funding for unique and major capital projects such as new station construction projects which are the major contributors to annual under expenditures. By deferring the cash flow funding to future years, the 2016 Preliminary Capital Budget reflects readiness to proceed and will lead to a higher rate of spending.

Appendix 2

Table 10
2016 Capital Budget; 2017 to 2025 Capital Plan (\$000s)

	Total	Prior Year												
Project	Project Cost	Carry Forward	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
	COSL	FOIWalu	2010	2017	2018	2019	2020	2020	2021	2022	2025	2024	2025	TULAI
Health & Safety:														
Thermal Imaging Cameras	1,450	725	725					1,450						1,450
Replacement of Portable Radios	10,050			5,000				5,000				5,050		10,050
Mobile Radios Lifecycle Replacement	2,700										2,700			2,700
Bunker Suits Lifesycle Replacement-2015	3,900		3,700					3,700						3,700
Bunker Suits Lifesycle Replacement-2020	4,500						4,500	4,500						4,500
Defibrillators Lifecycle Replacement	2,100			1,000				1,000		1,100				2,100
Purchase of Gas Metres for Fire Investigator	70		50	20				70						70
The Handheld Oximeter amd Accessories	200		200					200						200
Replacement of CBRNE Equipment	510		170	170	170			510						510
Sub-Total		725	4,845	6,190	170		4,500	16,430		1,100	2,700	5,050		25,280
Legislated:														
Replacement of HUSAR Equipment	500		50	50	50	50	50	250	50	50	50	50	50	500
Sub-Total			50	50	50	50	50	250	50	50	50	50	50	500
State of Good Repair:	1 000	100	100	100	100	100	100	600	100	100	100	100	100	1 100
Training Simulators Rehabilitation	1,000	100	100	100	100	100	100		100	100	100	100	100	1,100
Repair of Spec Ops Water Simulator	250	250						250						250
Computer Aided Dispatch Upgrade	1,255	503	552					1,055						1,055
Renovation/Repurposing of Fire Station 424	1,230	630	450	550				1,080						1,080
Emergency Fire Communication Workstation	600		50	550				600						600
Technical Rescue Simulator Repair	250		250					250						250
Replace Aging Propane Pumps and Vaporize	250		250					250						250
The East/West Burn Houses - Wall Flame Pro	250			250				250						250
Existing East Training Bldg - Extend Bays	400				400			400						400
Burn House Burners/Technology Replacemen	200				200			200						200
Sub-Total		1,483	1,652	900	700	100	100	4,935	100	100	100	100	100	5,435
Service Improvements:														
Replacement of Fire Station 135 - Chaplin Fi	7,334	593	1,030					1,623						1,623
Emergency Communication System Enhance	895	447	448					895						895
Fire Prevention - South District Consolidation	500		500					500						500
Sub-Total		1,040	1,978					3,018						3,018
Growth Related:														
Station B (Stn 144) Keele St (Downsview)	9,885	1,101	4,192	500				5,793						5,793
Station A (Stn 414) - Hwy 27 and Rexdale Bl	8,342		2,137	4,825				6,962						6,962
Specialized Trucks& Equipment	3,250		1,780					1,780						1,780
East Training - New Bulding of the Fire Grou	1,000					1,000		1,000						1,000
Station G (New Station 124) - Sunnybrook	11,821										5,336	3,918	2,567	11,821
Sub-Total	,1	1,101	8,109	5,325		1,000		15,535			5,336	3,918	2,567	27,356
Total		4,349	16,634	12,465	920	1,150	4,650	40,168	150	1,250	8,186	9,118	2,717	61,589

Appendix 3

2016 Capital Budget; 2017 to 2025 Capital Plan

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3

					1																		
						Curr	rent and F	uture Yea	r Cash Flo	w Commitr	nents			Cur	rent and F	uture Year C	ash Flow	Commi	itments	Finance	d By		
	<u>oject No. Project Name</u> bProj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves F	C eserve f unds C	apital from urrent	Other 1	Other2	2 De	Debt - Recoverable ebt	Total Financing
FIR000117	Station B - Downsview																						
12	Station B - Downsview	09	S2	05	4,192	500	0	0	0	4,692	0	4,692	0	0	4,692	0	0	0		0	0	0 0	4,692
	Sub-total				4,192	500	0	0	0	4,692	0	4,692	0	0	4,692	0	0	0		0	0	0 0	4,692
FIR000122	Replacement of Fire Station 135-Chaplin																						
1 2	Chaplin Fire Station (Station 135)	21	S2	04	1,030	0	0	0	0	1,030	0	1,030	0	0	0	0	1,030	0		0	0	0 0	1,030
	Sub-total				1,030	0	0	0	0	1,030	0	1,030	0	0	0	0	1,030	0		0	0	0 0	1,030
FIR000124	Station G - Sunnybrook																						
15	Station G -Sunnybrook	25	S6	05	0	0	0	0	0	0	11,821	11,821	0	0	8,308	0	0	0		0	03	3,513 0	11,821
	Sub-total				0	0	0	0	0	0	11,821	11,821	0	0	8,308	0	0	0		0	0 3	3,513 (11,821
FIR906851	Replacement of HUSAR Equipment																						
1 1	Replacement of HUSAR Equipment-Future Years	e CW	S6	02	0	50	50	50	50	200	250	450	0	0	0	0	0	0		0	0	450 0	450
0 4	Replacement of HUSAR Equipment-2016	CW	S4	02	50	0	0	0	0	50	0	50	0	0	0	0	0	0		0	0	50 0	50
	Sub-total				50	50	50	50	50	250	250	500	0	0	0	0	0	0		0	0	500 0	500
<u>FIR907310</u>	REPLACEMENT OF PORTABLE RADIOS	<u>.</u>																					
13	Replacement of Portable Radios - 2017	CW	S6	01	0	5,000	0	0	0	5,000	0	5,000	0	0	0	2,625	0	0		0	0 2	2,375 0	5,000
17	Replacement of Portable Radios-2024	CW	S6	01	0	0	0	0	0	0	5,050	5,050	0	0	0	2,638	0	0		0	0 2	2,412 0	5,050
	Sub-total				0	5,000	0	0	0	5,000	5,050	10,050	0	0	0	5,263	0	0		0	0 4	4,787 (10,050
FIR907569	Fire Prevention -South District Consolidat	ions																					
1 1	Fire Prevention - South District Consolidations	CW	S4	04	500	0	0	0	0	500	о	500	0	0	0	0	0	0		0	0	500 0	500
	Sub-total				500	0	0	0	0	500	0	500	0	0	0	0	0	0		0	0	500 0	500
FIR907587	Training Simulators and Facilities Rehabil	itation																					
1 1	Training Simulators and Fac Rehab - Futu Years	re CW	S6	03	0	100	100	100	100	400	500	900	0	0	0	0	0	0		0	0	900 0	900
0 4	Training Simulators and Facilities Rehab-2016	CW	S4	03	100	0	0	0	0	100	0	100	0	0	0	0	0	0		0	0	100 0	100
	Sub-total				100	100	100	100	100	500	500	1,000	0	0	0	0	0	0		0	0	1,000 (1,000
FIR907652	Bunker Suits Lifecycle Replacement																						
1 1	Bunker Suits Lifecycle Replacement-2015	CW	S2	01	3,700	0	0	0	0	3,700	0	3,700	0	0	0	3,700	0	0		0	0	0 0	3,700
										•	•	• •	•										•

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3

Fire Serv	lices																						
					Curr	ent and F	uture Yea	r Cash Flo	w Commitr	nents			Cu	rrent and F	uture Year	Cash Flo	ow Comm	itments	Finance	ed By			
	<u>pject No. Project Name</u> bProj No. Sub-project Name	Ward St	at Cat	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	l Other	2 De	Debt - Recovera bt		Total =inancing
FIR907652	Bunker Suits Lifecycle Replacement	1100 01	ui. Ual.	2010	2017	2010	2010	2020	2010-2020		2010-2020	SUDSIDIES	Subsidy					0.101		_ 00		ť	manomy
1 2	Bunker Suits Lifecycle Replacement -2020	CW S	6 01	0	0	0	0	4,500	4,500	0	4,500	0	C	0	4,500	0) ()	0	0	0	0	4,500
	Sub-total			3,700	0	0	0	4,500	8,200	0	8,200	0	0	0	8,200	0) ()	0	0	0	0	8,200
FIR907654	Defibrillators Lifecycle Replacement																						
1 1	Defibrillators Lifecycle Replacement-2017	CW S	6 01	0	1,000	0	0	0	1,000	0	1,000	0	C	0	1,000	0) ()	0	0	0	0	1,000
1 2	Defibrillators Lifecycle Replacement -2022	CW S	6 01	0	0	0	0	0	0	1,100	1,100	0	C	0	1,100	0) ()	0	0	0	0	1,100
	Sub-total			0	1,000	0	0	0	1,000	1,100	2,100	0	0	0	2,100	0) ()	0	0	0	0	2,100
FIR907918	Mobile Radios Lifecycle Replacement-2023	<u>1</u>																					
1 1	Mobile Radios Lifecycle Replacement-2023	CW S	6 01	0	0	0			0	2,700	2,700	0		0	,	0				0	0	0	2,700
	Sub-total			0	0	0	0	0	0	2,700	2,700	0	0	0	2,700	0) ()	0	0	0	0	2,700
FIR907928	Station A - Woodbine																						
1 1	Station A - Woodbine	02 S	2 05	2,137	3,725	0	0	0	5,862	0	5,862	0	C	4,322	967	0) ()	0	0	573	0	5,862
1 3	Change in Scope	02 S	62 05	0	1,100	0	0	0	1,100	0	1,100	0	C	660	0	0) ()	0	0	440	0	1,100
	Sub-total			2,137	4,825	0	0	0	6,962	0	6,962	0	0	4,982	967	0) ()	0	0 1	,013	0	6,962
FIR908013	SPECIALAZED TRUCKS & EQUIPMENT																						
1 1	SPECIALIZED TRUCKS & EQUIPMENT	CW S	62 05	1,780	0	0	0	0	1,780	0	1,780	о	C	1,380	0	0) ()	0	0	400	0	1,780
	Sub-total			1,780	0	0	0	0	1,780	0	1,780	0	0	1,380	0	0) ()	0	0	400	0	1,780
FIR908019	Technical Rescue Simulator-Repair																						
1 1	Technical Rescue Simulator -Repair	CW S	64 03	250	0	0	0	0	250	0	250	0	C	0	0	0) ()	0	0	250	0	250
	Sub-total			250	0	0	0	0	250	0	250	0	0	0	0	0) ()	0	0	250	0	250
FIR908020	East Training - New Building on the Fire G	round																					
1 1	East Training - New Building on the Fire Ground	CW S	6 05	0	0	0	1,000	0	1,000	0	1,000	0	C	0	0	0) ()	0	0 1	,000	0	1,000
	Sub-total			0	0	0	1,000	0	1,000	0	1,000	0	0	0	0	0) ()	0	0 1	,000,	0	1,000
FIR908021	Existing East Training Bldg-Extend Bays																						
1 1	Existing East Training Bldg -Extend Bays	CW S	6 03	0	0	400	0	0	400	0	400	0	C	0	0	0) ()	0	0	400	0	400
	Sub-total			0	0	400	0	0	400	0	400	0	0	0	0	0) ()	0	0	400	0	400
FIR908022	Burn-House Burners/Technology-Replacem	<u>ient</u>																				T	

Report Phase 2 - Program 13 Fire Services Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S5,S6 Part C Sub-Project Status S2,S3,S4

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3

i ne Serv	1003																						
						Curr	ent and F	uture Yea	r Cash Flo	w Commitr	nents			Cur	rent and Fu	uture Year (Cash Fl	low Comm	nitments	Financed	Ву		
	j <u>ect No. Project Name</u> Proj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	F Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt Recove Debt	rable	Total Financing
FIR908022	Burn-House Burners/Technology-Replace	ment																					
1 1	Burn-House Burners/Technology-Replacement	CW	S6	03	0	0	200	0	0	200	0	200	0	0	0	0		0 0	0 0	D 0	200	0	200
	Sub-total				0	0	200	0	0 0	200	0	200	0	0	0	0		0 0	0	0 0	200	0	200
FIR908023	Replace aging propane pumps & vaporize	rs																					
1 1	Replace aging propane pumps and vaporizers	CW	S4	03	250	0	0	0	0	250	0	250	0	0	0	0		0	0	0 0	250	0	250
	Sub-total				250	0	0	0	0 0	250	0	250	0	0	0	0		0	0 0	0 0	250	0	250
FIR908024	The East/West Burn-Houses- Wall Flame	Protect																					
1 1	The East/West Burn-Houses- Wall Flame Protection	CW	S6	03	0	250	0	0	0	250	0	250	0	0	0	0		0	0	0 0	250	0	250
	Sub-total				0	250	0	0	0	250	0	250	0	0	0	0		0	0	0 0	250	0	250
FIR908037	The purchase of gas metres for fire investi	gators																					
1 1	The purchase of gas metres for fire investigators	CW	S4	01	50	20	0	0	0	70	0	70	0	0	0	0		0	0	D 0	70	0	70
	Sub-total				50	20	0	0	0 0	70	0	70	0	0	0	0		0	0	0 0	70	0	70
FIR908038	Renovation and Repurposing of the Fire S	station 4																					
1 1	Renovation and Repurposing of the Fire Station 424	13	S2	03	200	0	0	0	0 0	200	0	200	0	0	0	0		0	0 0	D 0	200	0	200
02	Reno and Repur of the Fire Stn 424-Chan in Scoop	ge 13	S3	03	250	0	0			250	0	250	0	0		0		-		0 0		0	250
	Sub-total				450	0	0	0	0 0	450	0	450	0	0	0	0		0	0	0 0	450	0	450
FIR908040	Emerg Fire Comm Workstation Console R	eplacer																					
1 1	Emerg Fire Comm Workstation Console Replacement	CW	S4	03	50	550	0	0	0 0	600	0	600	0	0	0	0		0	0	D 0	600	0	600
	Sub-total				50	550	0	0	0 0	600	0	600	0	0	0	0		0	0	0 0	600	0	600
FIR908041	Computer Aided Dispatch Upgrade																						
1 1	Computer Aided Dispatch Upgrade	CW	S2	03	552	0	0	0	0 0	552	0	552	0	0	0	0		0	0	0 0	552	0	552
	Sub-total				552	0	0	0	0 0	552	0	552	0	0	0	0		0	0	0 0	552	0	552
FIR908042	Emergency Communications System Enha	anceme																					
1 1	Emergency Communications System Enhancement	CW	S2	04	448	0	0	0	0 0	448	0	448	0	0	0	0		0	0	D 0	448	0	448
	Sub-total				448	0	0	0	0 0	448	0	448	0	0	0	0		0 (0	0 0) 448	0	448
FIR908043	Thermal Imaging Cameras																						

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3

					Cur	rent and I	Future Ye	ar Cash Flo	w Commitr	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	itments	Financed	Ву		
	oject No. <u>Project Name</u> IbProj No. Sub-project Name	Ward S	Stat. Ca	t. 2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Reco	ebt - verable	Total Financing
FIR908043	Thermal Imaging Cameras																					
1 1	Thermal Imaging Cameras	CW	S2 01	725	0	()	0 0	725	0	725	С	C) 0	0	0	C) (0 0	725	0	725
	Sub-total			725	0	()	0 C	725	0	725	0	C	0	0	0	C) (0 C	725	0	725
FIR908144	The Handheld Oximeter and Accessories																					
0 1	The Handheld Oximeter and Accessories	CW	S4 01	200	0	()	o c	200	0	200	c	0) 0	0	0	C) (0 0	200	0	200
	Sub-total			200	0	()	o 0	200	0	200	0	C	0	0	0	C) (0 C	200	0	200
FIR908157	Replacement of CBRNE Equipment																					
0 1	Replacement of CBRNE Equipment	CW	S4 01	170	170	170)	o a	510	0	510	c	0) 0	0	0	C) (0 0	510	0	510
	Sub-total			170	170	17()	0 0	510	0	510	0	0	0	0	0	() (0 0	510	0	510
Total P	rogram Expenditure			16,634	12,465	920) 1,15	0 4,650	35,819	21,421	57,240	0	C	19,362	19,230	1,030	C) (0 0	17,618	0	57,240

Report 7C

Report Phase 2 - Program 13 Fire Services Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S5,S6 Part C Sub-Project Status S2,S3,S4

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3

Fire Services

		c	Current and	Future Ye	ear Cash F	low Comr	nitments a	nd Estimate	s		Current	and Future	e Year Cas	h Flow Co	ommitme	nts and I	stimates	Financ	ed By	
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name Warc	Stat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal De Subsidy	evelopment Charges		Reserve Funds	Capital from Current	Other 1	Other2	Re	Debt - ecoverable	Total Financing
Financed By: Development Charges		7,693	3,361	0	0	0	11,054	8,308	19,362	0	0	19,362	0	0	0	c	0	C) 0	19,362
Reserves (Ind. "XQ" Ref.)		3,716	4,576	0	0	4,500	12,792	,	19,230	0	0	0	19,230	0	0	C	0	C) 0	19,230
Reserve Funds (Ind."XR" Ref.)		1,030	0	0	0	0	1,030	0	1,030	0	0	0	0	1,030	0	C	0	C	0 0	1,030
Debt		4,195	4,528	920	1,150	150	10,943	6,675	17,618	0	0	0	0	0	0	C	0	17,618	3 0	17,618
Total Program Financing		16,634	12,465	920	1,150	4,650	35,819	21,421	57,240	0	0	19,362	19,230	1,030	0	C	0	17,618	3 0	57,240

Status Code Description

S2 S2 Prior Year (With 2016 and\or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2016 and\or Future Year Cost\Cashflow)

S4 S4 New - Stand-Alone Project (Current Year Only)

S5

S5 New (On-going or Phased Projects) S6 New - Future Year (Commencing in 2017 & Beyond) S6

Category Code Description

01 Health and Safety C01

02 Legislated C02

03 State of Good Repair C03

04 05 Service Improvement and Enhancement C04

Growth Related C05 06 Reserved Category 1 C06

07 Reserved Category 2 C07

Appendix 4

2016 Cash Flow and Future Year Commitments

CITY OF TORONTO

Gross Expenditures (\$000's)

Fire Serv	ices																						
						Curr	ent and F	uture Yea	r Cash Flo	ow Commitr	nents			Cur	rent and Fu	iture Year (Cash Flow	/ Commit	tments F	inanced I	Зу		
	ject No. <u>Project Name</u> Proj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	F Reserves	(Reserve Funds (Capital from Current	Other 1	Other2	Deb Recove Debt		Total Financing
FIR000117	Station B - Downsview												Cabbilatoo										
12	Station B - Downsview	09	S2	05	5,293	500	0) () (5,793	0	5,793	0	0	5,628	0	0	0	0	0	165	0	5,793
	Sub-total				5,293	500	0) () (5,793	0	5,793	0	0	5,628	0	0	0	0	0	165	0	5,793
FIR000122	Replacement of Fire Station 135-Chaplin																						
12	Chaplin Fire Station (Station 135)	21	S2	04	1,623	0	0) () (1,623	0	1,623	0	0	0	0	1,623	0	0	0	0	0	1,623
	Sub-total				1,623	0	0) () (1,623	0	1,623	0	0	0	0	1,623	0	0	0	0	0	1,623
FIR906851	Replacement of HUSAR Equipment																						
0 4	Replacement of HUSAR Equipment-2016	CW	S4	02	50	0	0) () (50	0	50	0	0	0	0	0	0	0	0	50	0	50
	Sub-total				50	0	0) () (50	0	50	0	0	0	0	0	0	0	0	50	0	50
FIR907569	Fire Prevention -South District Consolidation	ons																					
1 1	Fire Prevention - South District Consolidations	CW	S4	04	500	0	0) () (500	0	500	0	0	0	0	0	0	0	0	500	0	500
	Sub-total				500	0	0) () (500	0	500	0	0	0	0	0	0	0	0	500	0	500
FIR907587	Training Simulators and Facilities Rehabilit	ation																					
1 3	Training Simulators Rehabilitation-2015	CW	S2	03	100	0	0) () (100	0	100	0	0	0	0	0	0	100	0	0	0	100
0 4	Training Simulators and Facilities Rehab-2016	CW	S4	03	100	0	0) () (100	0	100	0	0	0	0	0	0	0	0	100	0	100
	Sub-total				200	0	0) () (200	0	200	0	0	0	0	0	0	100	0	100	0	200
FIR907652	Bunker Suits Lifecycle Replacement																						
1 1	Bunker Suits Lifecycle Replacement-2015	CW	S2	01	3,700	0	0) () (3,700	0	3,700	0	0	0	3,700	0	0	0	0	0	0	3,700
	Sub-total				3,700	0	0) () (3,700	0	3,700	0	0	0	3,700	0	0	0	0	0	0	3,700
FIR907928	Station A -Woodbine																						
1 1	Station A - Woodbine	02	S2	05	2,137	3,725	0) () (5,862	0	5,862	0	0	4,322	967	0	0	0	0	573	0	5,862
1 3	Change in Scope	02	S2	05	0	1,100	0) () (1,100	0	1,100	o	0	660	0	0	0	0	0	440	0	1,100
	Sub-total				2,137	4,825	0) () (6,962	0	6,962	0	0	4,982	967	0	0	0	0	1,013	0	6,962
FIR908013	SPECIALAZED TRUCKS & EQUIPMENT																						
1 1	SPECIALIZED TRUCKS & EQUIPMENT	CW	S2	05	1,780	0	0) () (1,780	0	1,780	0	0	1,380	0	0	0	0	0	400	0	1,780
	Sub-total				1,780	0	0) () (1,780	0	1,780	0	0	1,380	0	0	0	0	0	400	0	1,780
FIR908018	Repair the Spec Ops Water simulator																						

Current and Future Year Cash Flow Commitments

CITY OF TORONTO

Fire Services

Gross Expenditures (\$000's)

Current and Future Year Cash Flow Commitments Financed By Capital Debt -Sub- Project No. Project Name Total Total Total Provincial Grants and Cubaidly Charnes Reserves Funds Reserve from Recoverable Total Priority SubProj No. Sub-project Name Ward Stat. Cat. 2016-2020 2021-2025 2016-2025 Subsidy Charges Current Other 1 Other2 Debt Financing Subsidies FIR908018 Repair the Spec Ops Water simulator Repair the Spec Ops Water simulator CW S2 03 1 1 Sub-total C FIR908019 Technical Rescue Simulator-Repair Technical Rescue Simulator - Repair CW S4 03 1 1 Λ Λ Sub-total FIR908023 Replace aging propane pumps & vaporizers 1 1 Replace aging propane pumps and CW S4 vaporizers Sub-total Λ FIR908037 The purchase of gas metres for fire investigators 1 1 The purchase of gas metres for fire CW S4 01 investigators Sub-total FIR908038 Renovation and Repurposing of the Fire Station 4 Renovation and Repurposing of the Fire S2 1 1 Station 424 0 2 Reno and Repur of the Fire Stn 424-Change 13 S3 in Scoop Sub-total 1,080 1,080 1,080 1,080 FIR908040 Emerg Fire Comm Workstation Console Replace 1 1 Emerg Fire Comm Workstation Console CW S4 Replacement Sub-total Computer Aided Dispatch Upgrade FIR908041 Computer Aided Dispatch Upgrade CW S2 03 1,055 1,055 1,055 1,055 1 1 Λ Sub-total 1,055 1,055 1,055 1,055 Λ Emergency Communications System Enhanceme FIR908042 1 1 **Emergency Communications System** CW S2 Enhancement Sub-total FIR908043 Thermal Imaging Cameras

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CITY OF TORONTO

Gross Expenditures (\$000's)

Fire Service	es																				
				Curr	ent and F	uture Yea	r Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year (Cash Flo	w Comm	itments	Financed	Ву		
<u>Sub-</u> Project PrioritySubPro	t <u>No.</u> <u>Project Name</u> oj No. Sub-project Name	Ward Stat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - overable	Total Financing
FIR908043 Th	nermal Imaging Cameras																				
1 1 Th	nermal Imaging Cameras	CW S2 01	1,450	0	C) () 0	1,450	0	1,450	0	C) 0	0	0	()	0 0	1,450	0	1,450
	Sub-total		1,450	0	C) () 0	1,450	0	1,450	0	0	0	0	0	()	0 () 1,450	0	1,450
FIR908144 Th	ne Handheld Oximeter and Accessories																				
0 1 Th	ne Handheld Oximeter and Accessories	CW S4 01	200	0	C) () 0	200	0	200	0	C) 0	0	0	()	0 0	200	0	200
	Sub-total		200	0	C) () 0	200	0	200	0	0	0	0	0	()	0 () 200	0	200
FIR908157 Re	eplacement of CBRNE Equipment																				
0 1 Re	eplacement of CBRNE Equipment	CW S4 01	170	170	170) () 0	510	0	510	0	C) 0	0	0	()	0 0	510	0	510
	Sub-total		170	170	170) () 0	510	0	510	0	0	0	0	0	()	0 () 510	0	510
Total Prog	ram Expenditure		20,983	6,065	170) () 0	27,218	0	27,218	0	0	11,990	4,667	1,623	() 1,48	3 () 7,455	0	27,218

Report 7C

Report Phase 2 - Program 13 Fire Services Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2 Part C Sub-Project Status S2,S3,S4,S5

CITY OF TORONTO

Gross Expenditures (\$000's)

Fire Services																				
		C	Current and	Future Y	/ear Cash I	low Com	mitments a	nd Estimate	s		Curren	t and Future	e Year Cas	h Flow C	ommitme	nts and I	Estimates	Finance	d By	
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name	Ward Stat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal D Subsidy	evelopment Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - overable	Total Financing
Financed By:																				
Development Charges		8,629	3,361	(o 0	(11,990	0	11,990	0	0	11,990	0	0	0	0	0	0	0	11,990
Reserves (Ind. "XQ" Ref.)		3,716	951	(D 0	C	4,667	0	4,667	0	0	0	4,667	0	0	0	0	0	0	4,667
Reserve Funds (Ind."XR" Ref.)		1,623	0	(D 0	C	1,623	0	1,623	0	0	0	0	1,623	0	0	0	0	0	1,623
Other1 (Internal)		1,483	0	(D 0	C	1,483	0	1,483	0	0	0	0	0	0	1,483	0	0	0	1,483
Debt		5,532	1,753	170	o 0	C	7,455	0	7,455	0	0	0	0	0	0	0	0	7,455	0	7,455
Total Program Financing		20,983	6,065	170	o c	0	27,218	0	27,218	0	0	11,990	4,667	1,623	0	1,483	0	7,455	0	27,218
							+													·

Status Code Description

S2 Prior Year (With 2016 and\or Future Year Cashflow) S2

S3 S3 Prior Year - Change of Scope 2016 and\or Future Year Cost\Cashflow)

S4 New - Stand-Alone Project (Current Year Only)

S4 S5 S5 New (On-going or Phased Projects)

Category Code Description

Health and Safety C01 01

02 Legislated C02

03 State of Good Repair C03

04 Service Improvement and Enhancement C04

05 Growth Related C05

06 07 Reserved Category 1 C06

Reserved Category 2 C07

Appendix 5

2016 Capital Budget with Financing Detail

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(Phase 2) 13-Fire Services

Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

DI TORONTO

CITY OF TORONTO Appendix 5 Fire Services

Sub-Project Summary

Project/Financing	n		2016	1				Financ	ina				
Priority Project	Project Name	Start Date Completion Date		Provincial Grants	Federal Subsidy	Developmt Charges	Reserves	Reserve	Capital From	Other 1	Other 2	Debt	Debt - Recoverable
		Date		Subsidies	Subsidy	Charges		Fullus	Current				necoverable
<u>0</u> <u>FIR908144</u>	The Handheld Oximeter and Accessories												
0 1 T	he Handheld Oximeter and Accessories	01/01/2016 12/31/2016	200	0	0	0	0	0	0	0	0	200	0
		Project Sub-total:	200	0	0	0	0	0	0	0	0	200	0
<u>0</u> <u>FIR908157</u>	Replacement of CBRNE Equipment												
0 1 R	eplacement of CBRNE Equipment	01/01/2016 12/31/2018	170	0	0	0	0	0	0	0	0	170	0
		Project Sub-total:	170	0	0	0	0	0	0	0	0	170	0
<u>1 FIR000117</u>	Station B - Downsview												
1 2 S	tation B - Downsview	01/01/2012 03/31/2017	5,293	0	0	5,128	0	0	0	0	0	165	0
		Project Sub-total:	5,293	0	0	5,128	0	0	0	0	0	165	0
<u>1 FIR000122</u>	Replacement of Fire Station 135-Chaplin												
1 2 C	haplin Fire Station (Station 135)	01/01/2011 12/31/2016	1,623	0	0	0	0	1,623	0	0	0	0	0
		Project Sub-total:	1,623	0	0	0	0	1,623	0	0	0	0	0
1 FIR906851	Replacement of HUSAR Equipment												
0 4 R	eplacement of HUSAR Equipment-2016	01/01/2016 12/31/2016	50	0	0	0	0	0	0	0	0	50	0
		Project Sub-total:	50	0	0	0	0	0	0	0	0	50	0
<u>1 FIR907569</u>	Fire Prevention -South District Consolidations												
1 1 F	ire Prevention - South District Consolidations	01/01/2016 12/31/2016	500	0	0	0	0	0	0	0	0	500	0
		Project Sub-total:	500	0	0	0	0	0	0	0	0	500	0
<u>1 FIR907587</u>	Training Simulators and Facilities Rehabilitation												
0 4 T	raining Simulators and Facilities Rehab-2016	01/01/2016 12/31/2016	100	0	0	0	0	0	0	0	0	100	0
1 3 T	raining Simulators Rehabilitation-2015	01/01/2015 12/31/2015	100	0	0	0	0	0	0	100	0	0	0
		Project Sub-total:	200	0	0	0	0	0	0	100	0	100	0
<u>1</u> FIR907652	Bunker Suits Lifecycle Replacement												
1 1B	unker Suits Lifecycle Replacement-2015	01/01/2015 12/31/2016	3,700	0	0	0	3,700	0	0	0	0	0	0
		Project Sub-total:	3,700	0	0	0	3,700	0	0	0	0	0	0
<u>1</u> <u>FIR907928</u>	Station A -Woodbine												
1 1S	tation A - Woodbine	01/01/2014 12/31/2016	2,137	0	0	2,121	16	0	0	0	0	0	0
		Project Sub-total:	2,137	0	0	2,121	16	0	0	0	0	0	0
<u>1 FIR908013</u>	SPECIALAZED TRUCKS & EQUIPMENT												
1 1S	PECIALIZED TRUCKS & EQUIPMENT	02/01/2014 12/31/2016	1,780	0	0	1,380	0	0	0	0	0	400	0
		Project Sub-total:	1,780	0	0	1,380	0	0	0	0	0	400	0

(Phase 2) 13-Fire Services

DI TORONTO

CITY OF TORONTO Appendix 5

Fire Services

Sub-Project Summary

Project/Financing		2016					Financ	ing				
Priority Project Project Name	Start Date Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
1 FIR908018 Repair the Spec Ops Water simulator												
1 1 Repair the Spec Ops Water simulator	01/01/2015 12/31/2015	250	0	0	0	0	0	0	250	0	C	0 0
	Project Sub-total:	250	0	0	0	0	0	0	250	0	C) 0
1 FIR908019 Technical Rescue Simulator-Repair												
1 1 Technical Rescue Simulator - Repair	01/01/2016 12/31/2016	250	0	0	0	0	0	0	0	0	250	0 0
	Project Sub-total:	250	0	0	0	0	0	0	0	0	250) 0
1 FIR908023 Replace aging propane pumps & vaporizers	<u>.</u>											
1 1 Replace aging propane pumps and vaporizers	01/01/2016 12/31/2016	250	0	0	0	0	0	0	0	0	250	0 0
	Project Sub-total:	250	0	0	0	0	0	0	0	0	250) 0
1 FIR908037 The purchase of gas metres for fire investig	ators											
1 1 The purchase of gas metres for fire investigators	01/01/2016 12/31/2017	50	0	0	0	0	0	0	0	0	50	0 0
	Project Sub-total:	50	0	0	0	0	0	0	0	0	50) 0
1 FIR908038 Renovation and Repurposing of the Fire Sta	tion 424											
0 2 Reno and Repur of the Fire Stn 424-Change in Sc	oop 01/01/2016 12/31/2016	250	0	0	0	0	0	0	0	0	250	0 0
1 1 Renovation and Repurposing of the Fire Station 42	01/01/2015 12/31/2016	830	0	0	0	0	0	0	630	0	200	0 0
	Project Sub-total:	1,080	0	0	0	0	0	0	630	0	450	0 0
1 FIR908040 Emerg Fire Comm Workstation Console Re	<u>placement</u>											
1 1 Emerg Fire Comm Workstation Console Replacen	nent 01/01/2016 12/31/2017	50	0	0	0	0	0	0	0	0	50) 0
	Project Sub-total:	50	0	0	0	0	0	0	0	0	50	0 0
1 FIR908041 Computer Aided Dispatch Upgrade												
1 1 Computer Aided Dispatch Upgrade	01/01/2015 12/31/2016	1,055	0	0	0	0	0	0	503	0	552	2 0
	Project Sub-total:	1,055	0	0	0	0	0	0	503	0	552	2 0
1 FIR908042 Emergency Communications System Enhar	cement_											
1 1 Emergency Communications System Enhanceme	nt 01/01/2015 12/31/2016	895	0	0	0	0	0	0	0	0	895	5 0
	Project Sub-total:	895	0	0	0	0	0	0	0	0	895	5 0
1 FIR908043 Thermal Imaging Cameras												
1 1 Thermal Imaging Cameras	01/01/2015 12/31/2016	1,450	0	0	0	0	0	0	0	0	1,450	0 0
	Project Sub-total:	1,450	0	0	0	0	0	0	0	0	1,450	0 0
Program Total:		20,983	0	0	8,629	3,716	1,623	0	1,483	0	5,532	2 0

Status Code Description

- S2 S3 S4 S5
- S2 Prior Year (With 2016 and/or Future Year Cashflow) S3 Prior Year Change of Scope 2016 and/or Future Year Cost\Cashflow) S4 New Stand-Alone Project (Current Year Only) S5 New (On-going or Phased Projects)

- Category Code
 Description

 01
 Health and Safety C01

 02
 Legislated C02

 03
 State of Good Repair C03

 04
 Service Improvement and Enhancement C04

 05
 Growth Related C05

- Reserved Category 1 C06 Reserved Category 2 C07 06 07

Appendix 6

Reserve / Reserve Fund Review

Table 11: Reserve / Reserve Fund – Program Specific (\$000s)

							Contrib	utions / (Wi	thdrawls)				
		Projected											2016 - 2025
		Balance as											Total
Reserve / Reserve Fund	Project / SubProject Name and	at Dec 31,	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Contributions
Name	Number	2015 *	Budget	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	/ (Withdrawls)
XQ1020 Vehicle Reserve - Fire	Beginning Balance	7,181	7,181	4,703	2,300	3,522	4,744	1,466	2,688	2,810	1,332	(84)	
Equipment	Withdrawls (-)												
	Replacement of Portable			(2,625)							(2,638)		(5,263)
	Bunker Suits Lifecycle		(3,700)				(4,500)						(8,200)
	Defibrillators Lifecycle			(1,000)					(1,100)				(2,100)
	Mobile Radios Lifecycle												
	Replacement									(2,700)			(2,700)
	Total Withdrawls		(3,700)	(3,625)			(4,500)		(1,100)	(2,700)	(2,638)		(18,263)
	Contributions (+)		1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	
	Total Contributions		1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	
Total Reserve Fund Balance at Y	ear-End	7,181	4,703	2,300	3,522	4,744	1,466	2,688	2,810	1,332	(84)	1,138	(18,263)

* Based on the 2015 Q3 Variance Report

			Contributions / (Withdrawls)										
Reserve / Reserve Fund Name	Project / SubProject Name and Number	Projected Balance as at Dec 31, 2015 *	2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total Contributions / (Withdrawls)
XR2023/XR2118 Development	Beginning Balance	7,622	7,622	2,128	1,076	3,423	5,802	8,196	10,614	13,047	11,889	10,855	
Charges RF - Fire	Withdrawls (-)												
	Station A (Stn 414) - Highway												
	27/Rexdale		(2,121)	(2,861)									(4,982)
	Station B - (Stn 144) Keele St.												
	(Downsview)		(4,192)	(500)									(4,692)
	Specialized Trucks		(1,380)										(1,380)
	Station G (Stn 124)-												
	Sunnybrook									(3,640)	(3,566)	(1,102)	(8,308)
	Total Withdrawls		(7,693)	(3,361)						(3,640)	(3,566)	(1,102)	(19,362)
	Contributions (+)		2,199	2,309	2,347	2,379	2,394	2,418	2,433	2,482	2,532	2,532	24,025
	Total Contributions		2,199	2,309	2,347	2,379	2,394	2,418	2,433	2,482	2,532	2,532	24,025
Other Program/Agency Net Withdrawls (-) and Contributions (+)													
Total Reserve Fund Balance at Year-End		7,622	2,128	1,076	3,423	5,802	8,196	10,614	13,047	11,889	10,855	12,285	

* Based on the 2015 Q3 Variance Report

Table 12: Reserve / Reserve Fund Review - Corporate (\$000s)

		Contributions / (Withdrawls)											
		Projected											2016 - 2025
		Balance as											Total
Reserve / Reserve Fund	Project / SubProject Name and	at Dec 31,	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Contributions
Name	Number	2015 *	Budget	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	/ (Withdrawls)
XQ0011 Capital Financing	Beginning Balance												
Reserve	Withdrawls (-)												
	Station A - Highway												
	27/Rexdale		(16)	(951)									(967)
	Total Withdrawls			(951)									(967)
	Contributions (+)												
	Total Contributions												
Other Program/Agency Net Withdrawls (-) and Contributions (+)													
Total Reserve Fund Balance at Year-End			(16)	(951)									(967)

* Based on the 2015 Q3 Variance Report

			Contributions / (Withdrawls)										
		Projected Balance as	2016	2017	2010	2040	2020	2024	2022	2022	2024	2025	2016 - 2025 Total
Reserve / Reserve Fund	Project / SubProject Name and	at Dec 31,	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Contributions
Name	Number	2015 *	Budget	Plan	/ (Withdrawls)								
XR1012 Land Acquisition	Beginning Balance												
Reserve Fund	Withdrawls (-)												
	Replacement of Fire Station												
	135-(Chaplin Fire Station)		(1,030)										(1,030)
	Total Withdrawls		(1,030)										(1,030)
	Contributions (+)												
	Total Contributions												
Other Program/Agency Net Withdrawls (-) and Contributions (+)													
Total Reserve Fund Balance at Year-End			(1,030)										(1,030)
* Deced on the 2015 O2 Veries													

* Based on the 2015 Q3 Variance Report