

Earthquake Safety & Emergency Response Bond Program 2010 & 2014

Presentation to the Capital Planning Committee

November 5, 2018



ESER 2010 Bond Overview

Scope: *A comprehensive program to enhance earthquake safety and emergency response by ensuring that police and fire facilities and infrastructure remain uncompromised in the mission to ensure public safety, particularly after a major earthquake or disaster.*

Authorization Total: \$412,300,000

Amount Issued to Date: \$415,372,929*

Anticipated Next Issuance: N/A

Anticipated Date of Next Issuance: N/A

**Includes interest earned per PeopleSoft data thru Q1 FY2019*

ESER 2010 Bond Issuance and Expenditure Summary

Components/Projects	Original Budget	Revised Budget (ii)	Issued to Date	GENERAL OBLIGATION BONDS				Encumbrance+ Expenditures / Revised Budget	Encumbrance+ Expenditures / Appropriation
				Appropriation	Expenditures	Encumbrance	Balance		
Public Safety Building (PSB)	239,000,000	230,500,000	230,500,000	230,500,000	228,791,637	0	1,708,363	99%	99%
Neighborhood Fire Stations (NFS)	64,000,000	66,906,313	66,906,313	66,906,313	57,571,703	5,055,645	4,278,965	94%	94%
Auxiliary Water Supply System (AWSS) (ii)	102,400,000	102,568,217	102,568,217	102,568,217	83,260,776	13,718,574	5,588,867	95%	95%
Oversight, Accountability & Cost of Issuance	6,900,000	4,821,391	4,821,391	4,821,391	1,928,990	0	2,892,401	40%	40%
Estimated Surplus from PSB		6,161,975	6,161,975	6,161,975	0	0	6,161,975	0%	0%
Appropriated Unallocated Interest		4,415,033	4,415,033	4,415,033	0	0	4,415,033	0%	0%
TOTAL (i)	412,300,000	415,372,929	415,372,929	415,372,929	371,553,106	18,774,219	25,045,604	94%	94%

(i) PeopleSoft financial data thru Q1 FY2019; data subject to change based on ongoing labor and non-labor clean-up efforts due to financial system transition.

(ii) Revised budgets based on PeopleSoft appropriations; data subject to change per clean-up efforts.

ESER 2010 Status Update

Project Name	Accomplishments/Milestones
Public Safety Building	Completed April 2015
Neighborhood Fire Stations Major Projects	Seismic & Comprehensive: Fire Station 5 in construction. Final Completion date in February 2019. FS 16 in construction. Final Completion date in December 2018.
Neighborhood Fire Stations Focused Scope	Fire Station 14 Generator replacement is underway in the design phase. Apparatus Bay Doors Package 6 (at twelve Fire Stations) is permitted.
Auxiliary Water Supply System	Thirty cisterns completed; Twin Peak Reservoir, Ashbury Tank and Jones Street Tank improvements completed; Jones Street Tank valves improvements completed; controls project completed; Probabilistic analysis and field investigations of existing AWSS pipeline completed; Pump Station 1 operational and Pump Station 2 in construction.

ESER 2010 Program Schedule Overview

Component	Pre-Design /Planning	Design	Bid/Award	Construction
Public Safety Building	----	----	----	Completed April 2015
Neighborhood Fire Stations Major Projects	----	----	----	FS 5: 04/17 – 02/19 FS 16: 08/16 – 11/18
Neighborhood Fire Stations Focused Scope	----	08/18 – 09/19	09/19 – 01/20	01/20 – 01/21
Auxiliary Water Supply System	----	----	----	11/14 – 07/20

ESER 2010 Potential Future Costs Not Covered by Bond Proceeds

- ❑ The one-time costs for the Fire Station 5 and 16 projects such as furniture fixtures and equipment (FF&E) will be funded from the general fund:
 - ❑ **Fire Station 5:** \$400,000
 - ❑ **Fire Station 16:** \$115,000

- ❑ The operations & maintenance costs for **Fire Station 5** and **Fire Station 16** will be funded by the general fund and are estimated as follows:
 - ❑ **Fire Station 5:** New facility area has increased by 68% over existing area and is planned for no additional (0)FTE over existing. Corresponding costs for FTE are N/A; some building maintenance costs may increase TBD.
 - ❑ **Fire Station 16:** New facility area has increased by 24% over existing area and is planned for no additional (0) FTE over the existing. Corresponding costs for FTE are N/A; some building maintenance costs may increase TBD.

ESER 2010 Upcoming Challenges & Risks

Component	Challenges/Risks
Public Safety Building	None - Completed April 2015
Neighborhood Fire Stations Major Projects	Seismic & Comprehensive Projects: FS 5 – acceleration of schedule due to the additional scope of work added by the Client and to comply with code requirements. FS 16 – obtaining TCO and closing out work on time due to the workforce shortages.
Neighborhood Fire Stations Focused Scope	Apparatus Bay Door Pkg. 6 at twelve Fire Stations: The tariff impact on steel raw materials imported to the U.S. results in an overall 5-7% price increase in the cost of U.S. manufactured doors.
Auxiliary Water Supply System	Pump Station 2 construction may encounter unforeseen conditions.

ESER 2014 Bond Overview

Scope: *ESER 2014 builds on the Earthquake Safety and Emergency Response Bond approved by San Francisco voters in 2010. A comprehensive program to enhance earthquake safety and emergency response by ensuring that first responders' facilities and infrastructure remain uncompromised in the mission to ensure public safety, particularly after a major earthquake or disaster.*

Authorization Total: \$400,000,000

Amount Issued to Date: \$400,000,000

Anticipated Next Issuance: N/A

Anticipated Date of Next Issuance: N/A

ESER 2014 Bond Issuance and Expenditure Summary

Components/Projects	Original Budget	Revised Budget (ii)	Issued to Date	GENERAL OBLIGATION BONDS				Encumbrance+ Expenditures / Revised Budget	Encumbrance+ Expenditures / Appropriation
				Appropriation	Expenditures	Encumbrance	Balance		
Office of the Chief Medical Examiner (OCME)	63,895,000	67,533,024	67,533,024	67,533,024	67,451,410	241,710	-160,096	100%	100%
Traffic Control & Forensic Services Division (TC/FSD)	162,195,000	163,375,150	163,375,150	163,375,150	28,175,136	10,985,203	124,214,811	24%	24%
Police Facilities (PF)	29,490,000	29,645,661	29,645,661	29,645,661	13,596,024	7,297,770	8,751,867	70%	70%
Neighborhood Fire Station (NFS)	83,555,000	80,351,381	80,351,381	80,351,381	17,771,941	28,383,604	34,195,836	57%	57%
Emergency Firefighting Water System (EFWS)	54,065,000	54,509,822	54,509,822	54,509,822	15,364,599	13,550,084	25,595,139	53%	53%
Oversight, Accountability & Cost of Issuance (iii)	6,800,000	4,584,962	4,584,962	4,584,962	1,881,237	0	2,703,725	41%	41%
TOTAL (i)	400,000,000	400,000,000	400,000,000	400,000,000	144,240,347	60,458,371	195,301,282	51%	51%

(i) PeopleSoft financial data thru Q1 FY2019; data subject to change based on ongoing labor and non-labor clean-up efforts due to financial system transition.

(ii) Revised budgets based on PeopleSoft appropriations; data subject to change per clean-up efforts.

(iii) Added to value, need to research the missing amount of \$2,573,120.

ESER 2014 Status Update

Project Name	Accomplishments/Milestones
OCME	The Office of the Chief Medical Examiner, a state-of-the-art facility, was completed and opened for business on November 6, 2017.
Traffic Company & Forensic Services Division (TCFSD)	<ul style="list-style-type: none"> • CM/GC Team procurement completed & NTP issued 11/27/17. • Site Permit Application submitted 12/21/17 & nearing completion October 2018. • HazMat abatement March & demo completion October 2018. • Design work continuing, with 50% DD on 10/5/18 & 100% DD on 11/16/18. • Site investigation/indicator pile installation spring 2019. New construction anticipated for summer 2019.
Neighborhood Fire Stations Major Projects	Fire Station 35 issued Design-Build NTP 10/10/17; completed conceptual and schematic design phases and issued NTP for design development 7/20/18; CEQA PMND issued for public comment.
Neighborhood Fire Stations Focused Scope	<ul style="list-style-type: none"> • Generators at Fire Stations 2, 13 and 19 are underway in the design phase. • All projects in the roofing category are complete. • Envelope at FS 22 achieved Substantial Completion on 10/10/18. Envelope at FS 20 is underway by BBR. • App Door Pkg. 3 at (9) Fire Stations is underway in construction. • Showers Pkg. 2 at FS 17, 19, 33 bid on 10/24/18.
Police Facilities	<ul style="list-style-type: none"> • 3 projects completed - 2 ADA upgrade projects, 1 New Fire Firearms Simulation Training Facility • 5 Focused Scope projects at 7 sites under construction and all expected to complete by Summer 2019. • 2 projects on-hold until TCFSD bid is completed (Police Academy and Mission Station)
Emergency Firefighting Water Supply	Structural evaluations completed; reservoir sealing completed; two pipelines completed; three pipelines constructing; four pipelines in planning/design.

ESER 2014 Program Schedule Overview

Component	Pre-Design /Planning	Design	Bid/Award	Construction
OCME	06/12 – 12/13	01/14 – 11/15	4/15 – 1/16	11/15 – 10/17
Traffic Company & Forensic Services Division	09/15 – 04/16	05/16 – 11/18	10/18 – 12/19	12/18 – 7/19 (Indicator Pile Program) 7/19 – 7/21 (New Construction)
Neighborhood Fire Stations Major Projects – FS 35	06/14 – 09/17	10/17 – 08/19	12/18 – 08/19	12/18 – 11/20
Neighborhood Fire Stations Focused Scope	Varies by project	Varies by project	Varies by project	Varies by project
Police Facilities	05/15 – 12/17	07/15 – 03/18	11/15 – 08/19 *	02/16 – 09/20 *
Emergency Firefighting Water Supply	11/14 – 06/18	02/15 – 03/19	12/15 – 06/19	11/14 – 07/20

** Date projected for the two projects that are currently on hold (Police Academy & Mission Police Station) - assumes projects re-start 06/2019.*



ESER 2014 Potential Future Costs Not Covered by Bond Proceeds

- The one-time costs for the **Traffic Company & Forensic Services Division** and **Fireboat Station 35** such as furniture fixtures and equipment (FF&E) will be funded from the general fund.
 - TCFSD:** \$11,400,000 (\$10.9M FF&E + \$500K for moving)
 - Fireboat Station 35:** \$1,300,000 (\$1M FF&E + \$300K for moving)

- The operations & maintenance costs for **Traffic Company & Forensic Services Division** and **Fireboat Station 35** will be funded by the general fund and are estimated as follows:
 - TCFSD:** New facility area has increased by approximately 40% over existing area and is planned for additional 80 FTE over existing. Corresponding costs are TBD.
 - Fireboat Station 35:** New facility area has increased by 126% over existing area and is planned for additional 3 FTE (Marine Unit) over the existing. Corresponding costs are TBD.

ESER 2014 Upcoming Challenges & Risks

Component	Challenges & Risks
OCME	None
Traffic Company & Forensic Services Division	<ol style="list-style-type: none"> 1. Volatile market conditions continue to challenge project budget. 2. PG&E existing street infrastructure conflicts and primary v. secondary power & existing facilities schedule & cost impacts. 3. Steel Tariffs impact on structural steel and manufactured components 4. Permit review durations impact to schedule. 5. Budget deficit and availability of funding to reconcile the delta
Neighborhood Fire Station	<ol style="list-style-type: none"> 1. Volatile market conditions driving up bid prices, resulting in some construction costs exceeding engineer's estimate by as much as 40%. 2. Sustaining a sufficient program reserve to relieve potential budget overruns. 3. Acquiring construction permits for Fireboat Station 35 from various regulatory agencies, including PORT, BCDC, USACE, and RWQCB. 4. Unavailable and/or imprecise reporting of City staff labor charges.
Police Facilities	<ol style="list-style-type: none"> 1. Discovery of unforeseen conditions that generate substantial change orders 2. Volatile market conditions driving up bid prices, resulting in some construction costs exceeding engineer's estimate by as much as 40%. 3. Sustaining a sufficient program reserve to relieve potential budget overruns. 4. Protecting existing facility and utilities during construction to ensure the police station's 24-hour service to the public.
Emergency Firefighting Water Supply	<ol style="list-style-type: none"> 1. Pipeline construction can encounter unforeseen conditions.

ESER 2020 Prospective Projects

Component	Project	Priority/Scope of work	Location
Neighborhood Fire Stations	Bureau of Equipment (BOE)	Facility at 25 Utah rated SHR4/Reconstruction or replacement of EMS facility	1415 Evans Street (new location, formerly FS49 Ambulance/EMS)
	FS 7	Division Station rated SHR 4/Replacement	2300 Folsom Street
	FS 40	Battalion Station rated SHR 4/Replacement	2155-18 th Avenue
	FS 3	Busiest fire station rated SHR 4/Replacement	1067 Post Street
	FS 8	Battalion Station rated SHR 3/Renovation	36 Bluxome Street
	Fire Training Facility	Treasure Island facility requires departure by 2024 (Robert Beck, TIDA)/New training facility for candidate and in-service firefighters	TBD
Department of Emergency Management	Expansion	Inadequate for expected increase in services and staffing	1011 Turk Street

ESER 2020 Prospective Projects

Component	Project	Priority/Scope of work	Location
Police Facilities	Taraval & Ingleside Station Renovations	Stations are rated SHR 4/Seismic retrofit and associated alterations	2345-24 th Avenue, 1 John Young Lane
	Bayview Station Expansion	Facility inadequate for current staffing & expected increase in sworn FTE/existing building alterations and addition	201 Williams Street
	Potrero Station Rehabilitation	Strategic deployment of MTA unit and Community meeting space/ seismic retrofit and historic preservation	2300-3 rd Street
	Station Investigation Teams (SIT) Office Upgrades at District Stations	Code appropriate (e.g. ADA and life-safety) installation at stations	Six (6)
AWSS/EFWS	Auxiliary Water Supply System (AWSS) Pipeline – Ingleside	Construct new AWSS pipeline as part of eventual connection between the existing AWSS pipeline network and Lake Merced	Ocean Avenue / Jules Avenue intersection to Parkmerced area (in the vicinity of Crespi Drive)
	AWSS Pipeline/Pump – University Mound	Construct new AWSS pipeline and pump between the existing AWSS pipeline network and University Mound Reservoir	Bacon Street / Bowdoin Street intersection to Salinas Avenue / Third Street intersection
	Lake Merced Pumps	Construct new pumps as needed to pressurize proposed adjacent firefighting pipelines	Lake Merced
	Sunset Reservoir Pump Station	Construct new pump station to pressurize the proposed Westside Potable AWSS pipeline	Sunset Reservoir (28 th Avenue / Ortega Street)
	Westside Potable AWSS Pipeline	Construct new Potable AWSS pipeline in the western area of San Francisco	Richmond and Sunset Districts

EFWS Project Postponements

	2018 Million Dollars		
Postponed ESER 2010 & 2014 EFWS projects	Original Budget (from CS-199 planning study or ESER 2014 spending plans)	Expended	Available budget due to postponement
PS1 Tunnel (Phases 1 and 2)	1.89	0.8	1.09
AWSS Pipeline - Fort Mason Pier 1	0.68	0.2	0.48
AWSS Pipeline - Ingleside (Phase 1)	7.9	0.4	7.5
AWSS Pipeline - University Mound East	6.9	1.1	5.8
Total	17.4	2.5	14.9
ESER 2010 & 2014 projects increased using postponed projects funding	Comments	Budget increase	
AWSS Pumping Station 2 - base bid	Low bid above engineer's estimate	4.0	
AWSS Pipeline - Mariposa - Terry Francois Blvd. (TFB)	New pipeline for area development projects; being constructed as part of SFPUC contract DB-128R2	5.0	
AWSS Pumping Station 2 - additional building remediation	Perform additional building remediation to address health and safety issues	1.5	
AWSS Pipeline - TFB/Mission Rock to TFB/South Street	New pipeline for area development projects - approximately 1,500 linear feet.	3.5	
Westside Potable AWSS	Partial funding for new Richmond/Sunset pipeline construction, as available	0.9	
Total		14.9	