

San Francisco Fire Department

FY20-21 and FY21-22 Capital Budget Request

Project	FY20-21	FY21-22
Roof Replacements	\$ 3,191,230	\$ 3,758,350
Exterior Envelope	\$ 9,020,000	\$ 6,080,000
Windows	\$ 286,000	\$ 663,000
Showers	\$ 825,000	\$ 1,375,000
Mechanical/HVAC	\$ 6,087,529	\$ 7,530,000
Emergency Generators	\$ 2,550,000	\$ 2,550,000
Exhaust Extractor	\$ 750,000	\$ 750,000
Electrical	\$ 14,605,000	\$ 25,385,000
Sitework/Sidewalk	\$ 208,068	\$ 649,021
Kitchens	\$ 2,480,000	\$ 1,647,414
Apparatus Bay Door Maintenance	\$ 750,000	\$ 750,000
Data Infrastructure Upgrades	\$ 5,553,000	\$ 3,804,000
Chief's Residence	\$ 1,369,166	\$ -
Boiler Maintenance	\$ 750,000	\$ 750,000
SFFD Bureau of Equipment Study	\$ 500,000	\$ -
SFFD Electrical and Wiring Study	\$ 500,000	\$ -
TOTAL	\$ 49,424,993	\$ 55,691,785

Roof Replacements

Station	FY20-21	FY21-22
Station 8	\$ 658,210	
Station 9	\$ 896,000	
Station 14		\$ 826,000
Station 19		\$ 805,000
Station 24	\$ 753,620	
Station 25		\$ 613,900
Station 33	\$ 472,500	
Station 34	\$ 410,900	
Station 37		\$ 526,750
DOT Folsom/Tower		\$ 986,700
TOTAL	\$ 3,191,230	\$ 3,758,350

Roofs at numerous fire stations are leaking due to deferred maintenance, causing multiple health and safety issues at many of the stations. Without this much-needed attention and repair, roofs will continue to leak, resulting in numerous other issues at the facility, including water damage, dry rot, and leaks throughout all areas of the building. Many roofs are in need of repair beyond simple patching. A number of roofs were/will be repaired as part of the ESER bond focused-scope program.

Exterior Envelope

Station	FY20-21	FY21-22
Station 7	\$ 2,350,000	
Station 9	\$ 2,130,000	
Station 12		\$ 1,680,000
Station 19		\$ 1,920,000
Station 21		\$ 1,360,000
Station 25	\$ 1,460,000	
Station 33		\$ 1,120,000
Station 37	\$ 1,250,000	
Station 43	\$ 1,830,000	
TOTAL	\$ 9,020,000	\$ 6,080,000

Due to much deferred maintenance, the status of many of the fire station exteriors is deteriorating. The cracks in the concrete need to be painted and active leaks need to be addressed in order to prevent further damage throughout the building. Repair also includes fixing the epoxy injection and elastic water barrier paint. Damage can run from cosmetic improvements to complete painting of the exterior to substantial repair. Many of the exteriors of the Department's facilities have not been painted in years and have seen the impacts of weather as well as regular wear and tear.

Windows

Station	FY20-21	FY21-22
Station 8	\$ 90,000	
Station 9		\$ 175,000
Station 10		\$ 96,000
Station 12		\$ 105,000
Station 17		\$ 110,000
Station 18	\$ 91,000	
Station 19		\$ 125,000
Station 34	\$ 46,000	
Station 37	\$ 59,000	
Station 41		\$ 52,000
TOTAL	\$ 286,000	\$ 663,000

Due to much deferred maintenance, the status of many of the fire station exteriors is deteriorating, including windows. Active leaks need to be addressed in order to prevent further damage. Further damage could result in major health and safety issues such as rot and mold, as well as energy loss and inefficiencies. Furthermore, window failure has resulted in several workers' compensation claims from windows falling out of their frames. The Department would like to implement an annual replacement program to address the needs of stations with failing window systems.

Showers

Station	FY20-21	FY21-22
Station 2	\$ 275,000	
Station 11		\$ 275,000
Station 12	\$ 275,000	
Station 21		\$ 275,000
Station 23		\$ 275,000
Station 31		\$ 275,000
Station 37	\$ 275,000	
Station 49		\$ 275,000
TOTAL	\$ 825,000	\$ 1,375,000

Showers at fire stations are used quite frequently. Fire Station members must be able to wash after being exposed to environmental hazards. Due to many years of deferred maintenance, showers and shower pans have leaks and are not properly sealed, which is leading to further damage throughout the building and could result in rot, mold or pests.

Mechanical/HVAC

Station	FY20-21	FY21-22
Station 8	\$ 500,000	
Station 9	\$ 450,000	
Station 12		\$ 790,000
Station 14		\$ 500,000
Station 17	\$ 910,000	
Station 18	\$ 910,000	
Station 19		\$ 890,000
Station 20		\$ 630,000
Station 23		\$ 600,000
Station 24		\$ 840,000
Station 25	\$ 680,000	
Station 26	\$ 570,000	
Station 29		\$ 300,000
Station 32		\$ 270,000
Station 33		\$ 520,000
Station 34		\$ 460,000
Station 37		\$ 590,000
Station 39		\$ 590,000
Station 43	\$ 850,000	
Station 49		\$ 550,000
DOT Folsom	\$ 715,892	
SFFD Headquarters	\$ 1,001,637	
TOTAL	\$ 6,087,529	\$ 7,530,000

HVAC systems throughout the Department are extremely old and in frequent need of repair. Due to their age, they are also extremely inefficient from an energy perspective. Because of a lack of funding in the past, HVAC systems have not been maintained (or repaired) to appropriate levels. In addition, the SFFD relies primarily on boilers for heat. The boiler inventory has a very small number of energy efficient boilers - the remainder are outdated and inefficient, resulting in increased costs for the City. Poor distribution and/or control systems also contribute to high energy costs and greenhouse gas emission. The Department must restore heat within 48 hours of break-down of the heating system.

Emergency Generators

Station	FY20-21	FY21-22
Station 20	\$ 850,000	
Station 22	\$ 850,000	
Station 24	\$ 850,000	
Station 26		\$ 850,000
Station 28		\$ 850,000
Station 41		\$ 850,000
TOTAL	\$ 2,550,000	\$ 2,550,000

Back-up power is an integral part of emergency response. Each fire station has a backup generator. Many of these generators are inefficient and cannot power many of the current systems in the fire houses, including the apparatus doors. Station generators are being replaced as part of the ESER bond program. However, the Department is in need of generator repair and maintenance funds to maintain the current inventory to ensure they are working properly as well as address any repair issues that come up during the year.

Exhaust Extractor Maintenance

Station	FY20-21	FY21-22
Various Stations	\$ 750,000	\$ 750,000
TOTAL	\$ 750,000	\$ 750,000

The Department recently upgraded the exhaust extractors at its stations as part of a Federal Emergency Management Agency (FEMA) grant. The Department is currently requesting an allocation of funding for regular and on-going maintenance and repair of these systems.

Electrical

Station	FY20-21	FY21-22
Station 2	\$ 2,340,000	
Station 6		\$ 2,200,000
Station 8	\$ 1,570,000	
Station 9	\$ 2,130,000	
Station 10		\$ 2,060,000
Station 11	\$ 2,450,000	
Station 12		\$ 1,680,000
Station 14		\$ 1,970,000
Station 15	\$ 2,070,000	
Station 17		\$ 2,020,000
Station 18		\$ 1,950,000
Station 19		\$ 1,920,000
Station 20		\$ 1,720,000
Station 23		\$ 1,290,000
Station 26		\$ 1,220,000
Station 31	\$ 1,740,000	
Station 32		\$ 1,000,000
Station 33		\$ 1,120,000
Station 38	\$ 1,135,000	\$ 1,135,000
Station 40	\$ 1,170,000	
Station 41		\$ 1,110,000
Station 42		\$ 1,160,000
Station 43		\$ 1,830,000
Station 49/Evans Ave Facility		
TOTAL	\$ 14,605,000	\$ 25,385,000

The electrical systems at most Department fire stations are in need of major upgrades. As currently existing, the systems cannot handle the electrical load required for present-day operations, nor can they completely support the systems and technologies used by the Department on a daily basis. For example, for many of the stations targeted for installation of heavy-duty washer extractors for the cleaning of personal protective equipment, electrical upgrades are required in order to support the operation of the washing machines. Upgrades of current electrical distribution systems are required to support safety and reliability of the stations themselves. This includes Station 49/Evans facility, where additional electrical infrastructure is needed to ensure all vehicles and equipment at the facility are being charged appropriately.

Sitework/Sidewalk

Station	FY20-21	FY21-22
Station 9	\$ 62,000	
Station 10		\$ 177,146
Station 22		\$ 74,902
Station 23		\$ 70,699
Station 25		\$ 69,229
Station 32		\$ 67,910
Station 33		\$ 55,237
Station 37		\$ 57,898
Station 40	\$ 97,825	
Station 42		\$ 76,000
Station 49	\$ 110,243	
TOTAL	\$ 208,068	\$ 649,021

Numerous fire stations have damage to concrete and sidewalks surrounding the stations. In most cases, these areas are accessed by the public on a daily basis. This is a liability for the Department and the City, as there is the potential for claims of injuries and damages if an accident were to occur. The State Highway Code and the local Public Works Code require property owners to maintain the sidewalk adjacent to their property to a condition acceptable to the Director of Public Works. This responsibility includes making repairs as needed when a sidewalk is damaged. Damage on the sidewalk for which the Department is responsible for include missing pavement, uneven pavement, holes or cracks in the pavement, and missing sewer

Kitchens

Station	FY20-21	FY21-22
Station 2		\$ 310,000
Station 3		\$ 310,000
Station 6		\$ 310,000
Station 7	\$ 310,000	
Station 8	\$ 310,000	
Station 9	\$ 310,000	
Station 10		\$ 310,000
Station 11	\$ 310,000	
Station 15	\$ 310,000	
Station 21	\$ 310,000	
Station 31		\$ 275,000
Station 38	\$ 310,000	
Station 40	\$ 310,000	
Station 43		\$ 132,414
TOTAL	\$ 2,480,000	\$ 1,647,414

Fire Stations are staffed by members on a 24-hours-a-day/7-days-a-week basis, and therefore need to have fully functional kitchens. Due to many years of deferred maintenance, the quality of many of the fire station kitchens is quite poor. Damage ranges from rot from leaks throughout the facility that have not been addressed to broken and unstable cabinetry. A third of the stations no longer have doors on their cabinets and a number of stations need new flooring because existing linoleum has peeled away due to heavy use and cleaning.

Apparatus Bay Door Maintenance

Station	FY20-21	FY21-22
Various Stations	\$ 750,000	\$ 750,000
TOTAL	\$ 750,000	\$ 750,000

SFFD apparatus doors are anticipated to be replaced as part of the 2014 ESER bond program. However, the need for maintenance and repair still exists on an annual basis for the Department, given the amount of use for apparatus doors. The Department is currently requesting an allocation of funding for regular maintenance and repair of doors to resolve issues that may occur throughout the year.

Data Infrastructure Upgrades

Station	FY20-21	FY21-22
Fire Station 2	\$ 527,000	
Fire Station 6	\$ 381,000	
Fire Station 8	\$ 272,000	
Fire Station 9	\$ 370,000	
Fire Station 10	\$ 357,000	
Fire Station 11	\$ 424,000	
Fire Station 12	\$ 292,000	
Fire Station 14	\$ 341,000	
Fire Station 15	\$ 358,000	
Fire Station 17	\$ 349,000	
Fire Station 18	\$ 337,000	
Fire Station 19	\$ 332,000	
Fire Station 20		\$ 297,000
Fire Station 21		\$ 235,000
Fire Station 22		\$ 175,000
Fire Station 23		\$ 224,000
Fire Station 24		\$ 311,000
Fire Station 25		\$ 253,000
Fire Station 26		\$ 211,000
Fire Station 28		\$ 203,000
Fire Station 29		\$ 238,000
Fire Station 31	\$ 301,000	
Fire Station 32		\$ 174,000
Fire Station 33		\$ 195,000
Fire Station 34		\$ 170,000
Fire Station 37		\$ 217,000
Fire Station 38	\$ 393,000	
Fire Station 39		\$ 219,000
Fire Station 40	\$ 202,000	
Fire Station 41		\$ 193,000
Fire Station 42		\$ 200,000
Fire Station 43	\$ 317,000	
Fire Station 44		\$ 289,000
TOTAL	\$ 5,553,000	\$ 3,804,000

The technology infrastructure currently supporting fire stations is quite outdated and in need of upgrade and/or replacement. This project would modernize the Department's fire stations with new wiring and equipment to support industry-standard Fire Station Alerting and notification capabilities. This will include new electrical wiring, emergency lighting, PA and Speaker Systems in all Fire Stations. By doing these upgrades, the Department's goal is to improve Fire and EMS response times.

Chief's Residence

Station	FY20-21	FY21-22
Roofing	\$ 83,349	
Exterior Envelope	\$ 7,998	
Windows	\$ 170,988	
Showers	\$ 26,483	
Mechanical (HVAC)	\$ 369,779	
Electrical	\$ 299,173	
Sitework/Sidewalk	\$ 51,687	
Kitchen	\$ 135,000	
Interior Work	\$ 75,869	
Specialties	\$ 11,725	
ADA Upgrades	\$ 137,115	
TOTAL	\$ 1,369,166	\$ -

The Chief's Residence serves as a secondary Operations Center in the event of a disaster. The electrical system at the facility needs to be upgraded. The windows leak and are starting to rot, and the building needs to be weatherproofed. The kitchen has not been upgraded since the 1950's and there are no exhaust fans in the bathrooms.

Boiler System Maintenance & Replacement

Station	FY20-21	FY21-22
Various Stations	\$ 750,000	\$ 750,000
TOTAL	\$ 750,000	\$ 750,000

In addition to complete boiler replacement that is needed at a number of stations (covered in the HVAC/Mechanical project), the Department has annual needs for regular maintenance and repairs on its existing boiler systems.

SFFD Bureau of Equipment Study

Station	FY20-21	FY21-22
Facility Planning	\$ 500,000	\$ -
TOTAL	\$ 500,000	\$ -

The Department's longer term plan includes a relocation of the Department's Bureau of Equipment to the space currently occupied by the EMS Division at 1415 Evans once the move to the new EMS facility is complete. This allocation would assist in establishing the needs of the Bureau from a programmatic perspective and see what re-purposing of the current facility/property is needed.

SFFD Electrical and Wiring Study

Station	FY20-21	FY21-22
Facility Planning	\$ 500,000	\$ -
TOTAL	\$ 500,000	\$ -

This allocation would fund an in-depth study of the Departmental needs for IT and electrical infrastructure at Department stations, including electrical and cabling/wiring upgrades that are needed to meet the current demands of station operations and make use of current technologies.