

(FR0) DEPARTMENT OF FORENSIC SCIENCES

MISSION

The mission of the Department of Forensic Sciences (DFS) is to produce high-quality, timely, accurate, and reliable forensic science with the use of the best available technology and practices, unbiased science, and transparency with the overall goal of enhancing public health and safety.

SCOPE

DFS provides independent analysis of evidence and samples submitted by agencies within the District of Columbia and its federal neighbors. The Forensic Science Laboratory division analyzes evidence submitted from criminal charges, including DNA, fingerprints, firearms and digital technologies. DFS also provides expert witness testimony in defense of their analytical reports in the District's courts of law. The Public Health Laboratory division provides diagnostic and analytical testing for biological pathogens and chemical agents from clinical, environmental, or food sources and provides emergency response testing. The Crime Scene Sciences division collects, analyzes, processes, and preserves evidence found at crime scenes in the District. The DFS Directorate supports the work of the entire agency through strategic direction, training, quality assurance, research, recruitment and hiring of personnel, information technology, data management, fleet management, procurement, and other administrative support services.

CAPITAL PROGRAM OBJECTIVES

- Provide the infrastructure to retain data from high resolution cameras for crime scene photography, high resolution 3D Laser (LIDAR) Scanners for Crime Scene Mapping.
- Provide the infrastructure to facilitate a digital repository, called Mideo, to enhance the digital analysis of firearms and latent fingerprints.
- Provide the digital storage to utilize next generation sequencing equipment for DNA analysis and the analysis of public health samples.
- Support DNA mixture interpretation software, called STRMix, to accurately determine suspicious DNA on crime scene evidence.
- Invest in the digital infrastructure to market services provided by the Digital Evidence Unit to increase evidence intake.
- Maintain digital storage capacity for an operation that creates digital evidence at an average rate of 2-4 terabytes per day.

HIGHLIGHTS OF RECENT ACCOMPLISHMENTS

New software application investments:

Mideo – For digital workflow analysis in Fingerprints and Firearms as well as Digital Image Management.

STRMix – to accurately determine suspicious DNA on crime scene evidence.

MiSeq – Next Generation DNA Sequencing.

Leica 3D Imaging Solution – For constructing accurate 3D models of Crime Scenes.

Elements on this page of the Agency Summary include:

- **Funding Tables:** Past budget allotments show the allotment balance, calculated as allotments received to date less all obligations (the sum of expenditures, encumbrances, intra-District advances and pre-encumbrances). Agencies are allowed to encumber and pre-encumber funds up to the limit of a capital project's budget authority, which might be higher than allotments received to date. For this reason, a negative balance on a project sheet does not necessarily indicate overspending or an anti-deficiency violation. A negative balance is permitted in this calculation of remaining allotment authority.
- **Additional Appropriations Data (\$000):** Provides a summary of the budget authority over the life of the project. The table can be read as follows:
 - **Original 6-Year Budget Authority:** Represents the authority from the fiscal year in which budget was first appropriated through the next 5 years.
 - **Budget Authority Through FY 2025 :** Represents the lifetime budget authority, including the 6-year budget authority for FY 2020 through FY 2025.
 - **FY 2020 Budget Authority Revisions:** Represents the changes to the budget authority as a result of reprogramming, redirections and rescissions (also reflected in Appendix F) for the current fiscal year.
 - **6-Year Budget Authority Through FY 2025 :** This is the total 6-year authority for FY 2020 through FY 2025 including changes from the current fiscal year.
 - **Budget Authority Request Through FY 2026 :** Represents the 6-year budget authority for FY 2021 through FY 2026.
 - **Increase (Decrease) :** This is the change in 6-year budget requested for FY 2021 - FY 2026 (change in budget authority is shown in Appendix A).
- **Estimated Operating Impact:** If a project has operating impacts that the agency has quantified, the effects are summarized in the respective year of impact.
- **FTE Data (Total budget in FTE Table might differ from actual budget due to rounding):** Provides the number for Full-Time Equivalent (FTE) employees approved as eligible to be charged to capital projects by, or on behalf of, the agency. Additionally, it provides the total budget for these employees (Personal Services), the non personnel portion of the budget in the agency's capital plan, and the percentage of the agency CIP budget from either expense category.
- **Facility Location Map:** For those agencies with facilities projects, a map reflecting projects and their geographic location within the District of Columbia.

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(03) Project Management	7,153	1,485	663	1,900	3,104	2,250	0	0	0	0	0	2,250
(04) Construction	547	448	15	65	19	627	270	0	0	0	0	897
(05) Equipment	5,196	4,888	31	0	278	2,059	2,623	953	776	1,002	762	8,175
(06) IT Requirements Development/Systems Design	994	972	22	0	0	0	0	0	0	0	0	0
TOTALS	13,890	7,793	730	1,965	3,402	4,936	2,893	953	776	1,002	762	11,322

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
GO Bonds - New (0300)	2,087	1,848	45	65	129	280	270	0	0	0	0	550
Pay Go (0301)	890	868	22	0	0	0	0	0	0	0	0	0
Equipment Lease (0302)	1,890	1,890	0	0	0	0	0	0	0	0	0	0
Short-Term Bonds – (0304)	9,022	3,187	663	1,900	3,272	4,656	2,623	953	776	1,002	762	10,772
TOTALS	13,890	7,793	730	1,965	3,402	4,936	2,893	953	776	1,002	762	11,322

Additional Appropriation Data			Estimated Operating Impact Summary								
First Appropriation FY		2013	Expenditure (+) or Cost Reduction (-)		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
Original 6-Year Budget Authority		14,321	No estimated operating impact								
Budget Authority Through FY 2025		13,890									
FY 2020 Budget Authority Changes		0									
6-Year Budget Authority Through FY 2025		13,890									
Budget Authority Request Through FY 2026		25,212									
Increase (Decrease)		11,322									
			Full Time Equivalent Data								
			Object	FTE	FY 2021 Budget	% of Project					
			Personal Services	0.0	0	0.0					
			Non Personal Services	0.0	4,936	100.0					

FR0-DCI19-CAPITAL AND I.T. EQUIPMENT - DFS

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Project No: DCI19
Ward: 6
Location: 401 E STREET SW
Facility Name or Identifier: CONSOLIDATED FORENSIC LABORATORY
Status: In multiple phases
Useful Life of the Project: 5
Estimated Full Funding Cost: \$2,155,000

Description:

In FY 2021, DFS will use \$597,000 to procure new capital and IT equipment. This allotment will ensure that DFS continues to use the best available technology and equipment that promotes stronger science and safer streets.

Justification:

The District of Columbia's Comprehensive Plan includes policy themes that "support investments in infrastructure to reach and maintain a state of good repair across all systems." The Department of Forensic Sciences supports this plan by procuring capital and IT instruments that are proven assets to our infrastructure. Furthermore, as the only independent and accredited laboratory in the District, DFS must invest and maintain a state of good repair across all systems keep pace with the increasing workload while maintaining industry standards. In FY21, DFS plans to purchase equipment including but not limited to the below:

- EpMotion575t- automated library preparation for NGS PulseNet that will decrease tech error and issues with runs due to library reads. Our regional resource recommended this instrument as the suggested solution to issues the lab has had in the past.
- eStream- Automated liquid handler designed to prepare samples directly from BioMerieux eMag our high automated extraction instrument.
- Liquid handler- the Gerstel Liquid Handler is a component (though different vendor) to the GC-MS system (from Agilent). They are purchased from separate vendors, installed together, and act in harmony to perform specimen handling and extraction (using the Gerstel) and then specimen injection and analysis (Agilent GCMS) - all on the same, combined platform.

Progress Assessment:

The department is in the process of procuring the following capital and IT equipment:

- BioMic Reader- automated reader for antimicrobial susceptibility testing (both Kirby-Bauer and E-Test). This is currently done manually and this would automate reading increasing accuracy and saving tech time.
- Eppendorf Vacufuge Concentrator- non-genome sequencing requires very small volumes and concentrations from samples the vacufuge concentrates samples to be used for whole-genome sequencing.
- Curran Taylor Scotsman Brand Flake Ice maker- shaved ice maker to use with molecular protocols.
- VeriFlex PCR Temperature Verification System- temperature verification system to ensure quality of PCR performed in the lab occurs at the proper temperature, currently we have nothing to QC/check this process.
- Evofinder Expertwork station- will allow technicians to acquire digital images within the main Evo-Finder system and simultaneously perform correlative searches and virtual comparison microscopy on the workstation.
- Alternate Light Source- additional Alternate Light Source for the expansion of personnel within the latent print processing laboratory to handle high caseload.

Related Projects:

N/A

(Dollars in Thousands)

Funding By Phase - Prior Funding							Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(04) Construction	347	248	15	65	19		597	0	0	0	0	0	597
(05) Equipment	1,211	1,207	3	0	1		0	0	0	0	0	0	0
TOTALS	1,558	1,454	18	65	21		597	0	0	0	0	0	597

Funding By Source - Prior Funding							Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
GO Bonds - New (0300)	1,558	1,454	18	65	21		0	0	0	0	0	0	0
Short-Term Bonds -- (0304)	0	0	0	0	0		597	0	0	0	0	0	597
TOTALS	1,558	1,454	18	65	21		597	0	0	0	0	0	597

Additional Appropriation Data

First Appropriation FY	2019
Original 6-Year Budget Authority	1,211
Budget Authority Through FY 2025	1,558
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	1,558
Budget Authority Request Through FY 2026	2,155
Increase (Decrease)	597

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	597	100.0

FR0-FR019-CAPITAL RENOVATIONS - DFS

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Project No: FR019
Ward: 6
Location: 401 E STREET SW
Facility Name or Identifier: CONSOLIDATED FORENSIC LABORATORY
Status: In multiple phases
Useful Life of the Project: 25
Estimated Full Funding Cost: \$500,000

Description:

Funding will support a small Capital Renovation/modernization project.

Justification:

In FY 21, funding provided for small capital projects at the CFL included the following projects:

- Security Camera infrastructure- to install infrastructure for additional cameras (to be purchased once approved in FY21 operating budget) to ensure PSD has adequate equipment to support the security of the CFL.
- Automatic Sensors at Sinks- DFS, with the support of DGS is proposing to procure automatic sensors for sinks in the Public Health Laboratory to eliminate the possible spread of diseases and pathogens that most of our laboratory personnel work with every day.
- CFL Building Automation System Recommissioning – Working in concert with DGS, CFL is required to have a facility wide assessment conducted every year. The assessment will allow DGS to analyze original systems to ensure efficiency and ensure that any changes within the CFL have been captured within the programming of the BAS.

Progress Assessment:

In FY19, the agency was allotted \$250,000 to complete the following building renovations.

- Rabies and Biosafety Level 3 (BSL-3) Laboratories – In FY18, DFS reprogrammed local money to PayGo and completed renovations on the Rabies and BSL-3 Laboratories. Renovations were completed to optimize workflow efficiencies and to ensure the safety of all CFL personnel. In FY19, DFS completed the final stages of renovations to the laboratories, which included decommissioning and verification of spaces.
- Evidence Intake and Transfer Area – In FY19, DFS redesigned the evidence intake and transfer area to meet the emerging needs and workflow efficiency of the CSS division.
- Fire Suppression System –The Consolidated Forensic Laboratory (CFL) facility currently employs a sprinkler based system, where water will destroy or damage areas that stores sensitive evidence and equipment. DFS is awaiting from DGS Contracting Officer an approved Purchase Order for a foam-based fire suppression system in these areas. In the unlikely result of a fire, an alternative fire suppression system will preserve the integrity of digital and physical evidence stored by DFS.

Related Projects:

N/A

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(03) Project Management	250	153	0	0	97	250	0	0	0	0	0	250
TOTALS	250	153	0	0	97	250	0	0	0	0	0	250

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
GO Bonds - New (0300)	250	153	0	0	97	250	0	0	0	0	0	250
TOTALS	250	153	0	0	97	250	0	0	0	0	0	250

Additional Appropriation Data

First Appropriation FY	2019
Original 6-Year Budget Authority	250
Budget Authority Through FY 2025	250
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	250
Budget Authority Request Through FY 2026	500
Increase (Decrease)	250

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data

	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	250	100.0

FR0-FLE19-CRIME SCENE SPECIALIZATION VEHICLES

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Project No: FLE19
Ward:
Location: DISTRICT-WIDE
Facility Name or Identifier: VEHICLES
Status: In multiple phases
Useful Life of the Project: 5
Estimated Full Funding Cost: \$861,000

Description:

The Department of Forensic Sciences' (DFS) request will use \$92,000 in FY 21 and future funding to replace crime scene specialization vehicles using the Office of the Chief Financial Officer's guidance for the ideal vehicle life-cycle. The replacement of these vehicles is essential to maintain scene integrity while safeguarding evidence in the care of the crime scene scientists.

Justification:

The Crime Scene Specialization (CSS) vehicle replacement is critical to the effectiveness of the agency's response time to crime scenes within the District. In FY 19, CSS responded to more than 1,900 crime scenes within the District of Columbia. The goal of DFS is to replace its vehicles at the optimal time to achieve greater productivity and lowered costs. Because the vehicles are utilized 24 hours each day, this can greatly impact the useful life of each vehicle. The capital project will meet the District's Mayor's "Safer, Stronger DC" plan by strengthening tools and resources needed to investigate crimes in the District.

Progress Assessment:

Currently, the Department of Forensic Sciences was allotted \$154,000 in FY20. This amount was used to procure and replace a several crime scene specialized vehicles purchased in 2013. The department actively procured the following vehicles in FY20:

- Two Sprinter Vans which will replace the two 2009 Metropolitan Police Department cutaway vans donated to the department. These vans are used for high-profile crime scenes.
- One new Ford Explorer vehicle.

Related Projects:

N/A

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(05) Equipment	375	110	0	0	265	92	74	31	96	89	104	486
TOTALS	375	110	0	0	265	92	74	31	96	89	104	486

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
Short-Term Bonds - (0304)	375	110	0	0	265	92	74	31	96	89	104	486
TOTALS	375	110	0	0	265	92	74	31	96	89	104	486

Additional Appropriation Data

First Appropriation FY	2019
Original 6-Year Budget Authority	375
Budget Authority Through FY 2025	375
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	375
Budget Authority Request Through FY 2026	861
Increase (Decrease)	486

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data

	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	92	100.0

FR0-DIG19-FORENSIC EVIDENCE DIGITAL STORAGE

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Project No: DIG19
Ward: 6
Location: 401 E STREET SW
Facility Name or Identifier: CONSOLIDATED FORENSIC LABORATORY
Status: In multiple phases
Useful Life of the Project: 7
Estimated Full Funding Cost: \$4,803,000

Description:

In FY 19, DFS was allotted \$803K in capital funding to acquire a fast, high capacity online storage solution. DFS will use the FY19 funding to close out the Forensic Digital Storage Project.

DFS will use \$2 million in FY21, to meet the continually expanding needs of DFS data storage. The new storage capacity will need to be compatible with DFS' current storage system (for DFS and DEU). Specific functional system have employed for each of these capabilities to ensure the security of the housed data.

Justification:

Due to the unique nature of the services provided to the government of the District of Columbia and federal agencies, the DFS generates a large amount of digital information. This information needs to be stored, cataloged, and managed locally within DFS to ensure and demonstrate accountable chain of custody, limit and demonstrate access control, and to limit the number of persons potentially called to appear in court. Additionally, this information needs to be stored locally since it might need to be accessed and processed by local systems, due to its sensitive nature or immediately accessed as required by the scientists and/or systems of DFS. The seized data under examination by DEU is also received in various forms and is likely to have significant amounts of malware that is required to be processed by DFS systems. This information can be required to be retained for up to 65 years. In FY17, DEU's caseload increased by over 800% over its previous year. In FY18, it increased again by almost 100% over FY17. This need for larger data storage also meets the need to provide stakeholders with critical information in shorter timeframes. DFS is highly focused on the Mayor's priority for a "Safer, Stronger" DC. DFS was given \$802,629 in FY19 to purchase and install additional storage. DFS has made significant improvements to its testing capability in recent years including next generation sequencing in DNA analysis, and Mideo for image management and examination in latent fingerprints and firearms testing. Additional funding is needed to ensure that DFS is capable of meeting the data storage, management, and access needs as it delivers to the Mayor's priority for a "Safer, Stronger" DC.

Progress Assessment:

In FY 18, DFS procured and implemented its Forensic Digital Storage System. This system is to support storage of analytical data, clinical data, and digital evidence for the Forensic Science Laboratory, Public Health Laboratory, and Crime Scene Sciences Division. DFS expects exponential growth in data storage needs of 1 to 4 Terabytes of data per day due to the implementation of several advanced scientific and information technology systems. This project will support the expanded capacity DFS needs to continue carrying out its mission. The agency is in the process of working with the Office of Contracting and Procurement to finalize the procurement strategy the next phase in FY 2019. DFS is also working with DC Net to upgrade the network in CFL server room in anticipation of the new storage solution.

Related Projects:

As new technologies have been recently introduced, such as next generation sequencing in forensic DNA analysis, Mideo for the management and examination of images in latent fingerprint and firearms examination, and the continually improving resolution of images captured as evidence, such as at crime scenes, latent fingerprints etc, the amount of data captured grows exponentially. These developments in technology have led to the current trend growth in case related, forensic evidence data of 2-4 terabytes per day. This solution will address the storage needs generated from these systems.

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(03) Project Management	2,803	800	415	0	1,588	2,000	0	0	0	0	0	2,000
TOTALS	2,803	800	415	0	1,588	2,000	0	0	0	0	0	2,000

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
Short-Term Bonds -- (0304)	2,803	800	415	0	1,588	2,000	0	0	0	0	0	2,000
TOTALS	2,803	800	415	0	1,588	2,000	0	0	0	0	0	2,000

Additional Appropriation Data

First Appropriation FY	2019
Original 6-Year Budget Authority	803
Budget Authority Through FY 2025	2,803
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	2,803
Budget Authority Request Through FY 2026	4,803
Increase (Decrease)	2,000

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data

	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	2,000	100.0

FR0-HDW02-LABORATORY & HOSPITAL EQUIPMENT - DFS

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Project No: HDW02
Ward: 6
Location: 401 E STREET SW
Facility Name or Identifier: CONSOLIDATED FORENSIC LABORATORY
Status: In multiple phases
Useful Life of the Project: 10
Estimated Full Funding Cost: \$7,909,000

Description:

This project funds the regular replacement of laboratory and hospital equipment according to a predetermined asset replacement schedule. This is to account for equipment and instruments that are being replaced for the first time in FY 2021 and recommended replacement again in FY 2026. Or as required based on Federal and accreditation standards.

Justification:

This project is needed to fund the replacement of mission-critical instruments that have become outdated and that have been with the agency since its inception. The District of Columbia's Comprehensive Plan includes policy themes that "ensure that infrastructure upgrades are carefully scheduled and coordinated with development and redeveloped plans." DFS continues to ensure that infrastructure upgrades are carefully scheduled and coordinated by utilizing OCFO's CARSS. This system ensures that we are remaining at the top of industry standards and that our replacement purchasing is carefully scheduled and coordinated. In FY2021, DFS would like to replace the following equipment below:

- Drying Cabinets - this equipment allows the drying of bloody or soiled clothing it receives from crime scenes to process as evidence. DFS inherited 21 drying cabinets from MPD when they moved them to the Consolidated Forensic Laboratory in 2012.
- Leica Scanners - provides 3D imaging and digital measurement of crime scenes.
- -80C Freezer- stores reagents within BSL3 Lab.
- Spectrometers- optical instruments that incorporate detectors to detect spectral lines and measure their wavelength or intensity.
- DCS5/KIT- comprehensive imaging system for the detection, capture, and enhancement of almost any type of fingerprint on any surface or background to ensure that maximum detail is revealed

Progress Assessment:

The Department of Forensic Sciences is in the process of procuring the following items in FY 2020:

- BioTek Microplate Washer (\$17,000) – Equipment washes reagents in between steps and helps with accuracy of antibody test results in immunology and in the bioterrorism program.
- MagNA Pure 24 Extraction (\$50,000) – Automatically extracts nuclei acids, such as DNA and RNA, for specimen testing.
- Tecan NGS Upgrade (\$29,877.144) - Robotic automation of liquid handling for preparation of samples for Next Generation Sequencing/Whole Genome Sequencing.

Related Projects:

N/A

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(05) Equipment	220	181	28	0	11	1,967	2,549	922	680	913	658	7,689
TOTALS	220	181	28	0	11	1,967	2,549	922	680	913	658	7,689

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
GO Bonds - New (0300)	220	181	28	0	11	0	0	0	0	0	0	0
Short-Term Bonds – (0304)	0	0	0	0	0	1,967	2,549	922	680	913	658	7,689
TOTALS	220	181	28	0	11	1,967	2,549	922	680	913	658	7,689

Additional Appropriation Data

First Appropriation FY	2019
Original 6-Year Budget Authority	820
Budget Authority Through FY 2025	220
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	220
Budget Authority Request Through FY 2026	7,909
Increase (Decrease)	7,689

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data

	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	1,967	100.0

AM0-VEM21-VEHICLE ELEVATOR MODERNIZATION

Agency: DEPARTMENT OF FORENSIC SCIENCES (FR0)
Implementing Agency: DEPARTMENT OF GENERAL SERVICES (AM0)
Project No: VEM21
Ward: 6
Location: 401 E STREET SW
Facility Name or Identifier: CONSOLIDATED FORENSIC LABORATORY
Status: New
Useful Life of the Project:
Estimated Full Funding Cost: \$300,000

Description:

This project will restore the vehicle elevator at the Consolidated Forensic Laboratory (CFL) to reliable functioning. DFS will use \$30,000 in FY 2021 to conduct a study of the elevator and \$270,000 in FY 2022 to conduct the modernization of the elevator.

Justification:

The CFL vehicle elevator is needed to move evidentiary Vehicles safely and efficiently to the appropriate location in the CFL for processing. Since DFS' inception, DFS has processed over 2,369 vehicles. In recent years, the vehicle elevator has stopped functioning reliably and has required repeated maintenance. This capital project will meet the District's Mayor's "Safer, Stronger DC" plan by strengthening tools and resources needed to investigate crimes in the District.

Progress Assessment:

N/A

Related Projects:

FR019 - Capital Renovations - DFS

(Dollars in Thousands)

Funding By Phase - Prior Funding						Proposed Funding						
Phase	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
(04) Construction	0	0	0	0	0	30	270	0	0	0	0	300
TOTALS	0	0	0	0	0	30	270	0	0	0	0	300

Funding By Source - Prior Funding						Proposed Funding						
Source	Allotments	Spent	Enc/ID-Adv	Pre-Enc	Balance	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
GO Bonds - New (0300)	0	0	0	0	0	30	270	0	0	0	0	300
TOTALS	0	0	0	0	0	30	270	0	0	0	0	300

Additional Appropriation Data

First Appropriation FY	
Original 6-Year Budget Authority	0
Budget Authority Through FY 2025	0
FY 2020 Budget Authority Changes	0
6-Year Budget Authority Through FY 2025	0
Budget Authority Request Through FY 2026	300
Increase (Decrease)	300

Estimated Operating Impact Summary

Expenditure (+) or Cost Reduction (-)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 Yr Total
No estimated operating impact							

Milestone Data

	Projected	Actual
Environmental Approvals		
Design Start (FY)		
Design Complete (FY)		
Construction Start (FY)		
Construction Complete (FY)		
Closeout (FY)		

Full Time Equivalent Data

Object	FTE	FY 2021 Budget	% of Project
Personal Services	0.0	0	0.0
Non Personal Services	0.0	30	100.0