

Houston Forensic Science Center, Inc. FY15 Revised Budget Discussion January 2015

HFSC's Achievement Highlights

- Expanded Quality Division:
 - Completed international accreditation for four forensic disciplines.
 - Finalizing accreditation for remaining four disciplines, with on-site assessment in 2015.
 - Quality Manual being revised to cover all eight disciplines.
- HFSC has staffed the Latent Print Section with 10 examiners and one manager, all certified by the International Association for Identification, replacing a costly outsource contract.
- HFSC is retaining a forensic architectural firm to conduct a needs assessment, the first step in future planning for the Center.
- HFSC has sought and hired highly-qualified and credentialed scientists for open positions, and has supported existing staff in seeking additional professional accreditation.
- Modified security system to lab and office space so only HFSC staff have access.
- Training division established to expand internal and external training.
- Sexual assault kit outsourcing project nearly completed.
- Establishing a cost accounting system to track metrics and improve efficiency.

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FY15 Vision and Objectives

The objective for FY15 is to create a more effective and efficient forensic organization, demonstrated by improved customer service to HPD. These same FY15 initiatives also create the added benefit of generating potential future revenue streams to become more self-sufficient. The following goals to meet this objective were set forth to provide enhanced service to HPD and are reflected within the FY15 Houston Forensic Science Center, Inc. (HFSC) budget request:

- Improved Accuracy of Test Results by Focusing on the Following:
 - Training and Certification of Our Employees
 - Accreditation of Our Various Lab Disciplines
 - Quality Assurance Guidelines and Compliance Review and Testing
 - Development and Validation of Improved Testing Methodologies
 - Attract and Retain Quality Employees

- Improved Turnaround Time of Test Results as Follows:
 - Defining, Tightening and Measuring Acceptable Turnaround Times
 - Elimination and Prevention of Backlogs While Minimizing Third Party Assistance
 - Reintroduction of Trace Evidence Forensic Section to Provide HPD Timely Service and Single-Point Case Management
 - Use of Resources and Space Planning

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Focus on Lab Quality

Initiatives Focused on Lab Quality Improvement

- \$350,586 5 QA Specialists to Enhance Quality in All Sections 1 in July, 2 in Oct and 3 Jan Hires
- \$424,639 3 Evidence Techs / 2 Asst. Lab Directors (consolidating 6 Sr. Office Asst. positions)
- \$ 70,058 Increase in Life Cycle Replacement Capital for FY15 over FY14
- \$125,000 Training and Certification. State will require certification of each individual in 8 to 10 years.
- \$232,000 Outside Consultants to Assist with Accreditation & Implementation of Bromwich Suggestions
- \$112,000 New Hire Recruitment, Relocation & Employee Population Required Background Checks
- \$100,000 External Quality Review Audit
- \$ 50,000 Independent Legal Advice Related to Specific Criminal Justice Forensic Issues

Total Budget: \$1,464,283

Reduction and Prevention of Backlog

Labor

- \$ 1,075,283 10 Latent Print Examiners and 1 Latent Print Supervisor hired for full year FY15 to replace Ron Smith and Associates (RS&A) third party processing of Latent Prints
- \$110,687 2 NIBIN (National Integrated Ballistics Information Network) Firearm Techs to be added to prevent backlog
- 3 personnel for Development and Validation of Improved Testing Methodologies (see p.7) to be added to bring this in-house, which will both drive efficiency and reduce the need to hire third parties to perform this function

New Technology

- Recent grant funding has been utilized to purchase lab equipment such as: 2 Genetic Analyzers (\$140,000 each + \$50,000 each for third party validation), 1 DNA Robot (\$130,000 + \$84,000 for validation), which allows for processing 96 DNA samples at once. Another one Tecan (\$121,000 + \$50,000 validation) is under quote. Each one of these requires third party validation and training, generally covered by grants.
- Latent Print Division is adding touch screens and reducing paper and handling by going completely digital, which expedites processing

Total Budget: \$1,185,970

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Minimizing Third Party Assistance

- \$(2,832,000) Elimination of Ron Smith and Associates (RS&A)Contract for Outsourced Latent Print Examination Services. Ended Service Contract 6/30/14
- Significantly reduced reliance on Bode and Sorenson for DNA rape kit processing, and associated non-budgetary funding

Total Budget Savings: \$(2,832,000)

Essential Lab Capabilities

Trace Evidence Examination

- \$197,375 2 Personnel: 1 in Oct, 1 in Jan
- \$305,000 Instrumentation:
 - \$85,000 Microscopes
 - \$120,000 GC (Gas Chromatograph)/MS (Mass Spectrometer)
 - \$100,000 FTIR (Fourier Transform Infrared Spectroscope) with Microscope
- Future Needs:
 - LC (Liquid Chromatograph)/MS (Mass Spectrometer)
 - SEM (Scanning Electron Microscope) EDAX (Energy Dispersive Spectroscope and Micro X-Ray)
 - X-Ray Diffractometer (scatter patterns)
 - AA (Atomic Absorption)
 Spectrophotometer
- Total: \$502,375

Reason:

- Conduct forensic analysis of trace evidence in criminal cases (hair, fibers, soil, glass, explosives, arson, gunshot residue)
- Provide HPD timely service and single-point case management

Total Budget: \$502,375

Essential Forensic Capabilities

Training

- 3 Personnel: 2 in Oct, 1 in Jan
- Total: \$197,375

Reason:

- Provide training courses in forensic area for scientific and technical personnel (internally & externally), as well as attorneys, judges, etc.
- Educate Stakeholders & Users of HFSC's services on how to maximize our capabilities
- Reduce outside training expense
- Provide potential revenue stream

Development and Validation of Improved Testing Methodologies

- 3 Personnel: 2 in Oct, 1 in Jan
- Total: \$274,695

Reason:

- Provide validation service for other forensic laboratories
- Obtain grant funding for forensic research and development
- Reduce outside validation expense
- Provide potential revenue stream

Total Budget: \$472,070

Other Needed Infrastructure

Labor

- \$543,170 6 New Hires: Public Information Officer, IT, Accounting, and HR Support Staff for Full Year
- \$303,850 Adjustments to Continue COH Employee Pay Programs (Not Recognized in Fund 2213)
- \$ 95,000 FY15 HFSC Annual Merit Increases
- \$942,020 Total Other Labor Infrastructure

Capital

\$120,000 - A/V Mobile Response Unit Fully Outfitted for efficient, on-site processing of evidence

Supplies

- \$252,889 "General Lab Supplies" historically short in FY13 & FY14; added supplies for new hires
- \$ 75,000 Reagents for screening SA Kits which were previously paid by Bode and Sorenson
- \$327,889 Total Supply Increase to Sustain Existing Need

Services

\$250,893 - Total Hardware/Software Annual Maintenance & Licensing (Paid by HPD IT in prior years)

Total Budget: \$1,640,802

Space Requirements

2013 National Institute of Standards and Technology (NIST) Recommended Space-to-Staff Ratio for Laboratories

Laboratory Category	Staff Size	Total Laboratory Size	Space Per Staff Member
Small	Up to 30	Less than 30,000 GSF	930 to 1,000 GSF per staff member
Medium	30 to 70	30,000 to 60,000 GSF	860 to 930 GSF per staff member
Large	70 to 110	60,000 to 90,000 GSF	790 to 860 GSF per staff member
Very Large	Over 110	More than 90,000 GSF	720 to 790 GSF per staff member
Current HFSC as of 6/30/14	147	50,984 Current GSF	Current 347 GSF per person
HFSC FY15 Budget	195	50,984 Current GSF	261 GSF per person

FY15 Space Needs

FY15 Immediate Need

Long Term Space Solution

Need:

 Based upon FY15 budgeted staffing of 195, an additional 89,416 to 103,066 square feet are recommended per NIST's Study.

FY15 Budget includes:

- \$289,000 Off-site 23,018 sq. ft.
 leased space for ½ year
- <u>\$152,500</u> Lease Space Buildout
- \$441,500 Total Immediate Need

FY15 Budget Begins Addressing Long Term Space Solution:

 \$125,000 - Space Planning of potential future new facility and site visits of state-of-the art facilities

Total Budget: \$566,500

FY15 Focus Summary

- \$ 1,464,283 Focus on Lab Quality by enhancing internal and external quality review, staff training and certification, section accreditations, and keeping pace with state of the art equipment and technology
- \$ 1,185,970 Reduction and Prevention of Backlog by Hiring Latent Print and Firearm Personnel and adding a Ballistics Comparison Microscope
- \$(2,832,000)- Elimination of Ron Smith & Assoc. Outsourced Latent Print Examiner
- \$ 502,375 Essential Lab Capabilities of Trace Evidence Examination Added
- \$ 472,070 Essential Forensic Capabilities
 - \$197,375 Training Section
 - \$274,695 Development & Validation of Improved Testing Methodologies
- \$ 1,640,802 Other Needed Infrastructure in labor, capital, supplies and services
- \$ 566,500 FY15 Space Needs
 - \$441,500 Immediate Needs
 - o \$125,000 Long Term Space Planning

Needs Overview by Budget Category w/o OH Allocation

FY15 Revised Target \$19,654,321 FY15 Request: \$22,654,321 Delta: \$3,000,000

Labor – New Fully Loaded with Fringes:

Target \$13,762,542 – Request \$17,336,366 = (\$3,573,824)

- \$ 197,375 Trace Evidence
- \$ 197,375 Training
- \$ 274,695 Methods Dev & Validation
- \$1,075,283 Latent Print Replacement of RS&A
- \$ 885,912 Other New QA & Lab Infrastructure
- \$ 543,170 New Corp. Office Positions
- \$ 95,000 FY15 LGC Annual Merits
- \$ 303,850 COH Empl Adjustments Not in 2213
- \$3,572,660 New Labor & Fringe Requirements

Supplies Shortfall:

Target \$715,263 - Request \$944,044 = (\$228,781)

- \$252,889 Lab Supply Shortage Trend of FY13 & FY14 Coupled with Projected Growth
- \$ 75,000 DNA Test Kits Previously Outsourced
- \$327,889 Supplies Required

Capital Equipment Shortfall:

Target \$650,975 - Request \$1,210,533 = (\$559,558)

- \$305,000 Trace Evidence
- \$120,000 Crime Scene Unit Equipped Vehicle
- \$ 72,000 New Site Build-out
- \$ 70,058 Life Cycle Replacements Increase
- \$ 80,500 Furniture & Fixtures
- \$647,558 Additional Capital Request

Services & Non-Capital Overage:

Target \$4,525,541 - Request \$3,163,378 = \$1,362,163 (note: RS&A has been removed from Services to reduce request by \$2,832k)

- \$ 289,000 Offsite Lease Space
- \$ 125,000 Future Space Planning
- \$ 250,893 HW/SW License/Maint. (HPD paid)
- \$ 307,000 Accreditation/Certification
- \$ 312,000 Recruit/Legal/Reporting Services
- \$ 1,283,893 Net Services Impact

Budget Impact: \$5,832,000 less \$(2,832,000) Ron Smith & Assoc. Savings Budget Required to Meet Identified Initiatives: \$3,000,000

Historical HPD Forensic Divisions

Fund 2213: Crime Lab and ID Divisions After AFIS and Polygraph Removal

Administrative

DNA/Biology

Firearms

Controlled Substances

Toxicology

Authorized Crime Lab: 92

Adjusted FY14 Budget:

\$6,719,752

Administrative

CSU

Audio - Video

Digital Forensics

Latent Print

Authorized ID Division: 53

Adjusted FY14 Budget:

\$9,933,308

FY14 Total Adjusted Fund 2213 Budget: \$16,653,060

Total Authorized Employees: 145

FY14 HFSC Operation Budget: \$1,940,113

Total Authorized Employees: 7

Total FY14 Fund 2213/HFSC Operation Budget: \$18,593,173

FY15 Emphasis

The objectives outlined within this FY15 HFSC Operational Budget Plan can best be accomplished by partnering with the City of Houston and ensuring that entrusted funds are managed responsibly by creating an infrastructure which will provide for and uphold accurate and timely forensic results while remaining fiscally responsible and accountable to the Citizens of this Community.