Why We Did This Audit

Each year, our independent auditors identify component-level information technology (IT) control deficiencies as part of the DHS consolidated financial statement audit. This letter provides details that were not included in the fiscal year (FY) 2016 DHS Agency Financial Report.

What We Recommend

We recommend that the Management Directorate, in coordination with the DHS Chief Information Officer and Acting Chief Financial Officer, make improvements to its financial management systems and associated information technology security program.

For Further Information:
Contact our Office of Public Affairs at (202) 254-4100, or email us at DHS-OIG.OfficePublicAffairs@oig.dhs.gov

What We Found

We contracted with the independent public accounting firm KPMG, LLP to perform the audit of the consolidated financial statements of the U.S. Department of Homeland Security (DHS) for the year ended September 30, 2016. KPMG evaluated selected general IT controls (GITC) and business process application controls at the Management Directorate. KPMG determined the Management Directorate had GITC deficiencies related to access controls and configuration management.

The deficiencies collectively limited the Management Directorate's ability to ensure that critical financial and operational data were maintained in such a manner as to ensure their confidentiality, integrity, and availability. In addition, certain of these deficiencies adversely impacted internal controls over DHS’ financial reporting and its operation and therefore are considered to collectively represent a material weakness reported in the FY 2016 DHS Agency Financial Report.
MEMORANDUM FOR: Gwendolyn Sykes
Chief Financial Officer
United States Secret Service

FROM: John V. Kelly
Deputy Inspector General

SUBJECT: United States Secret Service’s Management Letter for DHS’ Fiscal Year 2016 Financial Statements Audit

Attached for your information is our final report, United States Secret Service’s Management Letter for DHS’ Fiscal Year 2016 Financial Statements Audit. This report contains four observations related to internal control deficiencies that were not required to be reported in our Independent Auditors’ Report on DHS’ FY 2016 Financial Statements and Internal Control over Financial Reporting, dated November 14, 2016, which was included in the Department of Homeland Security’s (DHS) fiscal year (FY) 2016 Agency Financial Report. We do not require management’s response to the recommendations.

The independent public accounting firm KPMG LLP conducted the audit of DHS’ FY 2016 financial statements and is responsible for the attached management letter and the conclusions expressed in it.

Consistent with our responsibility under the Inspector General Act, we will provide copies of our report to congressional committees with oversight and appropriation responsibility over the Department of Homeland Security. We will post the report on our website for public dissemination.

Please call me with any questions, or your staff may contact Maureen Duddy, Deputy Assistant Inspector General for Audits, at (617) 565-8723.

Attachment
December 15 2016

Office of Inspector General,
Chief Information Officer and Chief Financial Officer,
U.S. Department of Homeland Security,
Washington, DC

Ladies and Gentlemen:

We planned and performed our audit of the consolidated financial statements of the U.S. Department of Homeland Security (DHS or Department) as of, and for the year ended, September 30, 2016, in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States; and Office of Management and Budget Bulletin No. 15-02, Audit Requirements for Federal Financial Statements. We considered internal control over financial reporting (internal control) as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements. In conjunction with our audit of the consolidated financial statements, we also performed an audit of internal control over financial reporting in accordance with attestation standards issued by the American Institute of Certified Public Accountants.

During our audit, we noted certain matters involving internal control and other operational matters at the Management Directorate, a component of DHS, that are presented for your consideration. These comments and recommendations, all of which have been discussed with the appropriate members of management, are intended to improve internal control or result in other operating efficiencies.

We also noted certain internal control deficiencies at the Management Directorate during our audit that, in aggregate and when combined with certain internal control deficiencies identified at certain other DHS components, contributed to a material weakness in information technology (IT) controls and financial system functionality at the DHS Department-wide level. Specifically, with respect to financial systems at the Management Directorate, we noted certain matters in the general IT control areas of access controls and configuration management. These matters are described in the Findings and Recommendations section of this letter.

Additionally, at the request of the DHS Office of Inspector General (OIG), we performed additional non-technical information security procedures to identify instances in which Management Directorate personnel did not adequately comply with requirements for safeguarding sensitive material or assets from unauthorized access or disclosure. These matters are described in the Observations Related to Non-Technical Information Security section of this letter.

We have provided a description of the key Management Directorate financial systems and IT infrastructure within the scope of the Fiscal Year (FY) 2016 DHS financial statement audit in Appendix A, and a listing of each Management Directorate IT Notice of Finding and Recommendation communicated to management during our audit in Appendix B.
During our audit we noted certain matters involving financial reporting internal controls (comments not related to IT) and other operational matters at the Management Directorate, including certain deficiencies in internal control that we consider to be significant deficiencies and material weaknesses, and communicated them in writing to management and those charged with governance in our *Independent Auditors' Report* and in a separate letter to the OIG and the DHS Chief Financial Officer.

Our audit procedures are designed primarily to enable us to form opinions on the FY 2016 DHS consolidated financial statements and on the effectiveness of internal control over financial reporting, and therefore may not bring to light all deficiencies in policies or procedures that may exist. We aim, however, to use our knowledge of the Management Directorate’s organization gained during our work to make comments and suggestions that we hope will be useful.

We would be pleased to discuss these comments and recommendations with you at any time.

The purpose of this letter is solely to describe comments and recommendations intended to improve internal control or result in other operating efficiencies. Accordingly, this letter is not suitable for any other purpose.

Very truly yours,

*KPMG LLP*
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective, Scope, and Approach</td>
<td>2</td>
</tr>
<tr>
<td>Summary of Findings</td>
<td>4</td>
</tr>
<tr>
<td>Findings and Recommendations</td>
<td>5</td>
</tr>
<tr>
<td>Findings</td>
<td>5</td>
</tr>
<tr>
<td>Recommendations</td>
<td>5</td>
</tr>
<tr>
<td>Observations Related to Non-Technical Information Security</td>
<td>7</td>
</tr>
</tbody>
</table>

## APPENDICES

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Description of Key Management Directorate Financial Systems and IT Infrastructure within the Scope of the FY 2016 DHS Financial Statement Audit</td>
<td>9</td>
</tr>
<tr>
<td>B</td>
<td>FY 2016 IT Notices of Findings and Recommendations at the Management Directorate</td>
<td>11</td>
</tr>
</tbody>
</table>
OBJECTIVE, SCOPE, AND APPROACH

Objective

We audited the consolidated financial statements of the U.S. Department of Homeland Security (DHS or Department) for the year ended September 30, 2016. In connection with our audit of the FY 2015 DHS consolidated financial statements, we performed an evaluation of selected general information technology (IT) controls (GITC), and IT application controls at the Management Directorate, a component of DHS, to assist in planning and performing our audit engagement. At the request of the DHS Office of Inspector General (OIG), we also performed additional information security testing procedures to assess certain non-technical areas related to the protection of sensitive IT and financial information and assets.

Scope and Approach

General Information Technology Controls and IT Entity-Level Controls

The U.S. Government Accountability Office (GAO) issued the Federal Information System Controls Audit Manual (FISCAM), which formed the basis for our GITC evaluation procedures. FISCAM was designed to inform financial statement auditors about IT controls and related audit concerns, to assist them in planning their audit work and to integrate the work of auditors with other aspects of the financial statement audit. It also provides guidance to auditors when considering the scope and extent of review that generally should be performed when evaluating GITCs and the IT environment of a Federal agency. FISCAM defines the following five control categories to be essential to the effective operation of GITCs and the IT environment:

1. Security Management – controls that provide a framework and continuing cycle of activity for managing risk, developing security policies, assigning responsibilities, and monitoring the adequacy of computer-related security controls.

2. Access Control – controls that limit or detect access to computer resources (data, programs, equipment, and facilities) and protect against unauthorized modification, loss, and disclosure.

3. Configuration Management – controls that help prevent unauthorized changes to information system resources (software programs and hardware configurations) and provide reasonable assurance that systems are configured and operating securely and as intended.

4. Segregation of Duties – controls that constitute policies, procedures, and an organizational structure to manage who can control key aspects of computer-related operations.

5. Contingency Planning – controls that involve procedures for continuing critical operations without interruption, or with prompt resumption, when unexpected events occur.

Although each of these FISCAM categories was considered during the planning and risk assessment phase of our audit, we selected GITCs for evaluation based on their relationship to the ongoing effectiveness of process-level automated controls or manual controls with one or more automated components. This includes those controls that depend on the completeness, accuracy, and integrity of information provided by the entity in support of our financial audit procedures. Consequently, FY 2016 GITC procedures evaluated at the Management Directorate did not necessarily represent controls from each FISCAM category.
Business Process Application Controls

Where relevant GITCs were operating effectively, we tested selected IT application controls (process-level controls — fully automated or manual with an automated component) on financial systems and applications to assess internal controls over the input, processing, and output of financial data and transactions.

FISCAM defines Business Process Application Controls (BPAC) as the automated and/or manual controls applied to business transaction flows; and related to the completeness, accuracy, validity, and confidentiality of transactions and data during application processing. BPACs typically cover the structure, policies, and procedures that operate at a detailed business process (cycle or transaction) level and operate over individual transactions or activities across business processes.

Financial System Functionality

In recent years, we have noted that limitations in the Management Directorate's financial systems functionality may be inhibiting the agency’s ability to implement and maintain internal controls, including effective GITCs and IT application controls supporting financial data processing and reporting. The Management Directorate’s financial system is hosted by its service provider, U.S. Immigration and Customs Enforcement (ICE). Therefore, in FY 2016, we continued to evaluate and consider the impact of financial system functionality on internal control over financial reporting.

Non-Technical Information Security Testing

To complement our IT controls test work, we conducted limited after-hours physical security testing and social engineering at selected Management Directorate facilities to identify potential weaknesses in non-technical aspects of IT security. This includes those related to Management Directorate personnel awareness of policies, procedures, and other requirements governing the protection of sensitive IT and financial information and assets from unauthorized access or disclosure. This testing was performed in accordance with the FY 2016 DHS Security Testing Authorization Letter (STAL) signed by KPMG LLP, DHS OIG, and DHS management.

Appendix A provides a description of the key Management Directorate financial systems and IT infrastructure within the scope of the FY 2016 DHS financial statement audit.
SUMMARY OF FINDINGS

During our FY 2016 assessment of GITCs and IT application controls, we identified GITC deficiencies at the Management Directorate related to access controls and configuration management.

The conditions supporting our findings collectively limited the Management Directorate’s ability to ensure that critical financial and operational data were maintained in such a manner as to ensure their confidentiality, integrity, and availability. In addition, certain of these deficiencies at the Management Directorate adversely impacted the internal controls over DHS’ financial reporting and its operation and we consider them to collectively contribute to a Department-wide material weakness regarding IT controls and financial system functionality for DHS, under standards established by the American Institute of Certified Public Accountants and the U.S. GAO.

Of the five IT Notices of Findings and Recommendations (NFR) issued during our FY 2016 testing at the Management Directorate, four were repeat findings, either wholly or in part from the prior year, and one was a new finding. The five IT NFRs issued represent deficiencies and observations related to two of the five FISCAM GITC categories.

The majority of the deficiencies that our audit identified were related to noncompliance with financial system controls. According to DHS Sensitive Systems Policy Directive 4300A, Information Technology Security Program; National Institute of Standards and Technology guidance; and Management Directorate policies; financial system controls lacked proper documentation, were not fully designed and implemented, were inadequately detailed, and were inconsistently implemented. The most significant weaknesses from a financial statement audit perspective included the lack of account management policies.

During our IT audit procedures, we also evaluated and considered the impact of financial system functionality on financial reporting. In recent years, we have noted that limitations in the Management Directorate’s financial systems functionality may be inhibiting the Management Directorate’s ability to implement and maintain effective internal control and to effectively and efficiently process and report financial data. The key financial system has not been substantially updated since being inherited from legacy agencies several years ago. Key Management Directorate financial systems were not compliant with Federal financial management system requirements as defined by the Federal Financial Management Improvement Act of 1996 (FFMIA) and Office of Management and Budget Circular Number A-123 Appendix D, Compliance with FFMIA.

Although the recommendations made by us should be considered by the Management Directorate, it is ultimately the responsibility of Management Directorate management to determine the most appropriate method(s) for addressing the deficiencies identified.
FINDINGS AND RECOMMENDATIONS

Findings

During our audit of the FY 2016 DHS consolidated financial statements, we identified the following GITC deficiencies at the Management Directorate:

Access Controls

- A process did not exist to accurately record and report contractors as active or inactive.
- Account management processes and procedures had not been developed or were in the process of being developed for the two Human Resources (HR) related systems.
- Access authorization documentation was not maintained or the date on the user access form did not correspond to the account creation date for one HR-related system.

Access Controls and Configuration Management

- Deficiencies existed regarding non-compliance with DHS policy for database password configurations, non-compliance with delegation of authority requirements, a lack of account management policies and procedures for privileged user access to operating systems and databases, an inadequate privileged user semi-annual recertification process, insufficient audit log controls for the operating system, incomplete documentation for configuration management controls, and weaknesses in vulnerability scanning activities.

Recommendations

We recommend that the Office of the Chief Financial Officer (OCFO) and the Management Directorate Office of the Chief Human Capital Officer (OCHCO), in coordination with the DHS Office of the Chief Information Officer (OCIO) and the DHS OCFO, make the following improvements to the Management Directorate’s financial management systems and associated IT security program (in accordance with Management and DHS requirements, as applicable):

Access Controls

- Review and analyze the current contractor check-out process and ensure the internal database is updated timely to record departed contractors.
- Develop, document, finalize and implement an account management policy and procedure.
- Perform spot checks on user access and account management documentation to ensure that users are appropriate.
Access Controls and Configuration Management

- Monitor, interact, and work with ICE as necessary to remediate the GITC deficiencies that affect the Management Directorate.
OBSERVATIONS RELATED TO NON-TECHNICAL INFORMATION SECURITY

To complement our IT controls test work during the FY 2016 audit, we performed additional non-technical information security procedures at the Management Directorate. These procedures included after-hours physical security walkthroughs and social engineering to identify instances where Management Directorate personnel did not adequately comply with requirements for safeguarding sensitive material or assets from unauthorized access or disclosure. These procedures were performed in accordance with the FY 2016 Security Testing Authorization Letter (STAL) signed by DHS OIG management, KPMG management, and DHS management.

Social Engineering

Social engineering is defined as the act of manipulating people into performing actions or divulging sensitive information. The term typically applies to trickery or deception for the purpose of gathering information or obtaining computer system access. The objective of our social engineering tests was to identify the extent to which Management Directorate personnel were willing to divulge network or system passwords that, if exploited, could compromise the Management Directorate's sensitive information.

To conduct this testing, we made phone calls from Management Directorate locations at various times throughout the audit. Posing as DHS technical support personnel, we attempted to solicit access credentials from Management Directorate users. Attempts to log into Management Directorate systems were not performed; however, we assumed that disclosed passwords that met the minimum password standards established by DHS policy were valid exceptions. During social engineering performed at the Management Directorate, we attempted to call a total of 45 employees and contractors and reached 8. Of those eight individuals with whom we spoke, none divulged passwords in violation of DHS policy.

The selection of attempted or connected calls was not statistically derived, and, therefore, the results described here should not be used to extrapolate to the Management Directorate as a whole.

After-Hours Physical Security Walkthroughs

Multiple DHS policies, including the DHS Sensitive Systems Policy Directive 4300A, the DHS Privacy Office Handbook for Safeguarding Sensitive Personally-Identifiable Information (PII), and DHS Management Directive 11042.1, Safeguarding Sensitive but Unclassified (SBU) (FOUO) Information, mandate the physical safeguarding of certain materials and assets that, if compromised either due to external or insider threat, could result in unauthorized access, disclosure, or exploitation of sensitive IT or financial information.

We performed procedures to determine whether Management Directorate personnel consistently exercised responsibilities related to safeguarding sensitive materials as defined in these policies. Specifically, we performed escorted walkthroughs of workspaces – including cubicles, offices, shared workspaces, and/or common areas (e.g., areas where printers were hosted) – at Management Directorate facilities that processed, maintained, and/or had access to financial data during FY 2016. We inspected workspaces to identify instances where materials designated by DHS policy as requiring physical security from unauthorized access were left unattended. Exceptions noted were validated by designated representatives from the Management Directorate, DHS OIG, and DHS OCIO.
During after-hours physical security walkthroughs performed at the Management Directorate, we inspected a total of 63 workspaces. Of those, 6 were observed to have material – including, but not limited to, system passwords, information marked “FOUO”, documents containing sensitive PII, and government-issued laptops or storage media – left unattended and unsecured after business hours in violation of DHS policy.

The selection of inspected areas was not statistically derived, and, therefore, the results described here should not be used to extrapolate to the Management Directorate as a whole.
Appendix A

Description of Key Management Directorate Financial Systems and IT Infrastructure within the Scope of the FY 2016 DHS Financial Statement Audit
Below is a description of the significant Management Directorate financial management systems and supporting IT infrastructure included in the scope of the FY 2016 DHS financial statement audit.

**Federal Financial Management System (FFMS)**

FFMS is a mainframe-based major application and the official accounting system of record for the DHS Management Directorate. It is used to create and maintain records of each allocation, commitment, obligation, travel advance, and accounts receivable. The system supports all internal and external financial reporting requirements.

ICE OCIO hosts and supports the DHS Management Directorate instance of FFMS exclusively for the DHS Management Directorate user community and, on a limited basis, for the ICE OCIO and finance center personnel providing support services for the DHS Management Directorate.

The application is hosted at Datacenter 2 in Clarksville, VA, and the IBM z/OS mainframe and Oracle databases support it.

**Web Time and Attendance (WebTA)**

WebTA is a commercial off-the-shelf (COTS) web-based major application that the U.S. Department of Agriculture’s National Finance Center (NFC) hosts. NFC’s IT Services Division and Risk Management Staff developed, operate, and maintain the application. The Management Directorate uses WebTA to process front-end input and certification of DHS user community time and attendance entries to facilitate payroll processing.

**EmpowHR**

EmpowHR is a COTS web-based major application that USDA NFC hosts. NFC’s IT Services Division and Risk Management Staff developed, operate, and maintain it. DHS components use EmpowHR to initiate, authorize, and send personnel data to NFC for processing.
Appendix B

FY 2016 IT Notices of Findings and Recommendations at the Management Directorate
<table>
<thead>
<tr>
<th>FY 2016 NFR #</th>
<th>NFR Title</th>
<th>FISCAM Control Area</th>
<th>New Issue</th>
<th>Repeat Issue</th>
</tr>
</thead>
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<tr>
<td>MGT -IT-16-03</td>
<td>Inability to Generate a Complete and Accurate Listing of Separated Contractors</td>
<td>Access Controls</td>
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<td>MGT -IT-16-04</td>
<td>Deficiency in EmpowHR User Account Authorization Process</td>
<td>Access Controls</td>
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</tr>
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<td>MGT -IT-16-05</td>
<td>FFMS Deficiencies at ICE that Impact Management Operations</td>
<td>Access Controls and Configuration Management</td>
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<td>X</td>
</tr>
</tbody>
</table>
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