

INSPECTOR GENERAL

SEPTEMBER 27, 2019

AUDIT OF THE ARCHITECT OF THE CAPITOL DATA CENTER

Report No. OIG-AUD-2019-04 Redacted

Specific information about the Architect of the Capitol's Data Centers have been redacted from the publicly released version of this report.

MISSION

The OIG promotes efficiency and effectiveness to deter and prevent fraud, waste and mismanagement in AOC operations and programs. Through value added, transparent and independent audits, evaluations and investigations, we strive to positively affect the AOC and benefit the taxpayer while keeping the AOC and Congress fully informed.

VISION

The OIG is a high-performing team, promoting positive change and striving for continuous improvement in AOC management and operations.

We foster an environment that inspires AOC workforce trust and confidence in our work.





ARCHITECT OF THE CAPITOL DATA CENTER

September 27, 2019

Objective

To determine whether the Architect of the Capitol (AOC) developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing within. Specifically, we evaluated the data center's access controls, environmental factors, and back-up procedures designed to ensure the continuity of AOC information technology operations.

This audit was included in the Fiscal Years 2018-2020 Office of Inspector General Audit Plan.

Findings

Overall, the AOC developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing within. Specifically, we determined that the Information Technology Division (ITD) complied with the requirements for the environmental factors and back-up procedures as prescribed by the AOC and other applicable guidance; however, the ITD lacked sufficient controls over physical access to the Data Center at the Specifically, we identified 35 AOC personnel that accessed the Data Center at the 10 were approved by and assigned to ITD and 25 were not.

The ITD should have a process in place for proper authorization and/or coordination with the U.S. Capitol Police (USCP) and other AOC jurisdictions to control physical access to the Data Center at the Without proper physical access controls for the Data Center at the ITD's sensitive network computer equipment and technology may be at risk for unauthorized access, theft, or tampering.

In addition, AOC experienced a power outage at the during the audit that caused some concerns. According to ITD officials, the effects of the power outage were minimal to the AOC due to the live replication of the at the However, we found that a structured process was not in place for tenants to properly communicate and coordinate with the Management. According to the management, communication and coordination with its tenants have been enhanced post power outage by providing monthly operational status updates and publishing emergency communication procedures. AOC officials should continue efforts to mitigate the risk of unplanned power outages and maintaining critical operations at its , the Data Center at the Due in part to a subsequent power outage at the the ITD temporarily moved its primary operations from the to the Data Center for three months, though both sites were available for automatic failover as designed.

Recommendations

We made two recommendations to address improvements to physical access controls.

- The Chief Information Officer review and revise its Standard Operating Procedures, ITD Authorized Data Center Proxy Card Access List Maintenance to account for non-ITD personnel; and
- 2. The Chief Information Officer enhance its communications and coordination with USCP and other AOC jurisdictions to improve physical access controls to the Data Center at the for non-ITD personnel.



RESULTS IN BRIEF

ARCHITECT OF THE CAPITOL DATA CENTER

Management Comments

Recommendations Table

MANAGEMENT	RECOMMENDATIONS	RECOMMENDATIONS	RECOMMENDATIONS
	UNRESOLVED	RESOLVED	CLOSED
Architect of the Capitol, Chief Information Officer	None	A.1 and A.2	A.1 and A.2

Please provide Management's Decision by March 27, 2020

The following categories are used to describe agency management's comments to individual recommendations:

UNRESOLVED – Management has not agreed to implement the recommendation or has not proposed actions that will address recommendation.

RESOLVED – Management agreed to implement the recommendation or has proposed action that will address the underlying finding that generated the recommendation.

CLOSED – OIG verified that the agreed upon corrective actions were implemented.



Office of Inspector General 499 South Capitol Street, SW, Suite 518 Washington, DC 20515 202.593.1948

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United States Government

MEMORANDUM

DATE: September 27, 2019

TO: Thomas J. Carroll III,

Acting Architect of the Capitol

FROM: Christopher P. Failla, CIG

Inspector General

SUBJECT: Audit of the Architect of the Capitol (AOC) Data Center

This memorandum transmits the final OIG Report OIG-AUD-2019-04 on the AOC Data Center audit.

[£ 20.

AOC management agreed with the Office of Inspector General's (OIG's) conclusion that the Information Technology Division (ITD) lacked sufficient control over physical access to the Data Center at the AOC management concurred with the two recommendations in this report.

AOC management implemented the recommendations on September 3, 2019. The OIG reviewed the AOC's revised Standard Operating Procedures for ITD Authorized Data Center Proxy Card Access List Maintenance to account for non-ITD personnel, and the memorandum from the Chief Information Officer on its communications and coordination with U.S. Capitol Police and other AOC jurisdictions to improve physical access controls to the Data Centers for non-ITD personnel. Therefore, the OIG considers the two recommendations to be closed.

We appreciate the courtesies extended to the staff during the audit. Please direct concerns and questions to Erica Wardley, Assistant Inspector General for Audits at 202.593.0081 or Erica.Wardley@aoc.gov.

Distribution List:

William O'Donnell, Chief Administrative Officer
Jay Wiegmann, Chief Information Officer
Valerie Hasberry, Acting Director, Office of Security Programs
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Introduction

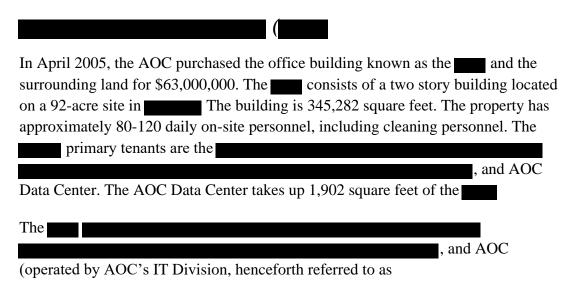
Objective

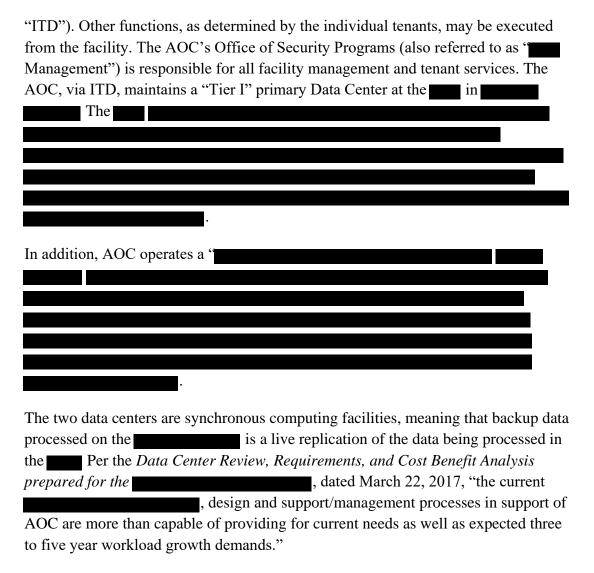
This audit report presents the results of our audit of the Architect of the Capitol's (AOC) Data Center at the The objective of the audit was to determine whether the AOC developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing within. Specifically, we evaluated the data center's access controls, environmental factors, and back-up procedures designed to ensure the continuity of AOC information technology (IT) operations. We conducted this performance audit of the AOC Data Center at the (also referred to as "AOC Data Center" or "Data Center at the from August 2018 through August 2019, in accordance with

generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

See Appendix A for a discussion of the scope and methodology, review of internal controls, and prior audit coverage related to the objective.

Background





Information Technology Division (ITD)

Per AOC Order 8-2, Information Technology Management, the ITD is the primary operational IT organization supporting the AOC Chief Information Officer (CIO). ITD manages the design, development, maintenance, enhancement, and operation of the AOC's automated information systems, including data center operations. The CIO is responsible for providing effective oversight of IT, defined as the hardware, software, and automated services utilized across the AOC. The CIO is the authorizing officer to grant, suspend, revoke, and modify access to IT systems under the AOC's control.

Data Center's Access Controls

For data center operations at the the ITD authorizes access and maintains the access list for ITD staff and contractors for permission to enter the space. The ITD Authorized Access List is reconciled with the USCP ITD list to validate access privileges. The ITD has an assigned ITD Proxy Card Access Manager who is responsible for managing access to the data centers. The ITD Proxy Card Access Manager is notified by an ITD supervisor or staff to grant or revoke assess to the data center. The ITD Proxy Card Access Manager completes the USCP Security Access Control Form that is submitted to the USCP, who grants or revokes access, as requested, through the proxy card reader via the individual's badge number.

Environmental Factors

The critical environment factors for the AOC Data Center were prescribed in the Service Level Agreement (SLA) with Management. For example, the SLA outlined the temperature and humidity levels for the data centers, "all data center areas will remain between 68 and 78 degrees Fahrenheit, and relative humidity will remain between 40 percent and 50 percent." In addition, the ITD provided the DELL.COM environmental temperature and humidity specifications and requirements for the servers currently used in production which aligns with the SLA requirements.

Back-up Procedures

The ITD data backup procedures for the data center were performed on a routine schedule. Per the ITD Backup Standard Operating Procedure, daily, weekly, or monthly snapshots were conducted on AOC files, servers, databases, and applications. The ITD has two job summary reports used to monitor backup and restore activities. These reports include codes that provide detail on whether the backup or restore was active, delayed, completed, completed with errors, completed with warnings, killed, failed, aged, not scheduled, not run, or committed. The summary reports are reviewed by engineers and errors are addressed immediately. Backup data is stored at the AOC and Data Centers, respectively, as well as on the AOC's off-site location.

MANAGEMENT AND TENANT ROLES AND RESPONSIBILITIES

The AOC via Management has executed a Memorandum of Understanding (MOU) between the , and ITD which serves as a formal agreement for the purpose of defining the terms and conditions for co-occupying the to include:

- The facility will be used primarily to satisfy Legislative Branch business operations.
- The parties shall share the use of commonly available infrastructure resources. The AOC is responsible for facility infrastructure improvements and for the operations and maintenance of the facility. However, if any party has a specific requirement that the AOC cannot support, then the requesting party may provide funds, via transfer, to the AOC for execution of work to satisfy their need.
- Parties recognize the importance of proper facility maintenance to minimize the risk of unplanned facility outages and agree to support all such activities as required. Activities requiring mission impacts and outages will be supported, but will be coordinated to minimize any impacts to the greatest extent possible.
- Parties shall conduct long range planning for their respective missions and coordinate with AOC as required to meet their infrastructure requirements. Parties understand that significant infrastructure construction and alterations may require years of planning, design and construction, and is subject to the availability of funds.
- Parties are subject to all applicable safety, security and other rules, regulations and authorities, to include, but not limited to, the Congressional Accountability Act and USCP Board.

As part of the MOU, each tenant will execute a SLA to meet the needs of the representative operations. Key provisions within the Management's SLA included the following:

Environmental:

The AOC will use reasonable efforts to ensure that the temperature of open space in all data center areas will remain between 68 and 78 degrees Fahrenheit, and relative humidity will remain between 40 percent and 50 percent. This commitment excludes localized conditions within a particular customer cabinet, cage, rack, or other enclosed space.

Power Availability:

The AOC's goal is to provide continuous redundant power to data center cabinets, as required, through utility service providers, generators, UPS, and distribution architecture. However, it is understood that maintenance, upgrades, and other situations could possibly compromise redundancy and reliability of electrical and mechanical systems.

Critical Maintenance:

The maintenance of critical utilities may be performed at any time to correct mechanical and electrical conditions that require immediate attention. Critical maintenance is defined as maintenance which is necessary to ensure life safety and/or property to prevent the loss or damage of critical electrical/mechanical infrastructure. Critical maintenance is performed at the discretion of the AOC. All reasonable efforts will be made to notify the tenants' designated point(s) of contact as soon as practicable under the circumstance. However, it is recognized that AOC may have to perform certain critical maintenance that may impact "tenants operations." The AOC will seek to minimize disruptions and operational impacts.

Tenants Responsibilities:

The Tenants, i.e., the and ITD will notify the AOC Facility Manager immediately of any changes that may require additional infrastructure.

Tenants will notify the AOC when installing additional equipment that requires additional electrical service. Tenants shall submit electrical load requirements and heat load information to the AOC and allow the AOC to determine if the current infrastructure can support the additional equipment. The advance notice requirements may vary depending on circumstances and type of work requested. An early AOC involvement will help for better planning.

- 1. Tenants will submit updated drawings of the data centers or floor plans (equipment layouts) to the AOC as soon as possible after changes are made.
- 2. Tenants will coordinate long range plans with the AOC as they become available at the beginning of concept stages for better planning.
- 3. Tenants are responsible for communicating any notifications of maintenance work or outages to their customers.

Criteria

AOC Order 7-4, Information Technology Security, dated October 10, 2017, states that the AOC requires that covered persons protect AOC data and information systems.

AOC Order 8-2, Information Technology Management, dated December 2, 2013, designated the CIO through the ITD to provide security over AOC IT operations to include AOC Data Centers.

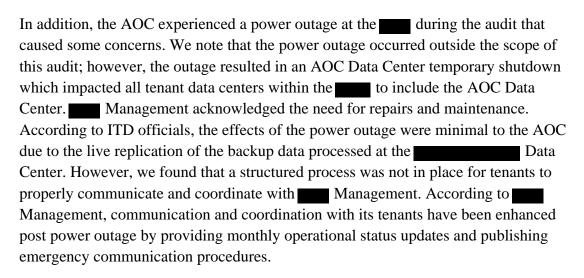
Standard Operating Procedures, ITD Authorized Data Center Proxy Card Access List Maintenance, dated January 29, 2015, specified control procedures for proxy card access list and access to the AOC Data Centers.

MOU and SLA between the AOC and the	Tenants, executed March 22, 2012,
to accommodate the co-location and operation	of certain functions within the
that enables	

Audit Results

Overall, the AOC developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing within. Specifically, we evaluated the Data Center at the access controls, environmental factors, and data back-up procedures designed to ensure the continuity of AOC IT operations. We determined that the ITD complied with the requirements for the environmental factors and back-up procedures as prescribed by the AOC and other applicable guidance. However, physical access controls to the Data Center at the needed improvements.

We identified 35 AOC personnel accessed the facility in Fiscal Year (FY) 2018. Based on our review of the 35 personnel who accessed the room, 10 were approved by and assigned to ITD and 25 were not.



It is our conclusion that with proper physical access controls, the ITD would reduce the risk for unauthorized access, theft, or tampering within its Data Center at the In addition, AOC officials should continue efforts to mitigate the risk of unplanned power outages and maintaining critical operations at its primary site, the Data Center at the Due in part to a subsequent power outage at the ITD temporarily moved its primary operations from the to the Data Center for three months, though both sites were available for automatic failover as designed.

We made two recommendations to address the improvement of physical access controls.

Finding A

Physical Access Controls to the Data Center at the **Needs**

Improvement

The ITD lacked sufficient control over physical access to the Data Center at the Specifically, we identified 35 AOC personnel that accessed the Data Center at the from October 1, 2017, through September 30, 2018. Based on our review, of the 35 personnel that accessed the room, 10 were approved by and assigned to ITD and 25 were not.

The ITD is responsible for the safety and security of the IT equipment in the AOC Data Center at the The ITD may authorize or revoke access to the AOC Data Center for only ITD staff and contractors. These individuals are maintained on the ITD Authorized Access List. The ITD used this master list to reconcile ITD personnel with the USCP access list, also referred to as the Clearance Definition Report.

We determined that although ITD's process for review and reconciliation of ITD personnel access of the AOC Data Center was sufficient, ITD acknowledged it has no control over approval of non-ITD personnel access to the data center. The Office of Security Programs and USCP have authority to approve and remove access to the AOC Data Center at the for non-ITD personnel. We found 25 non-ITD personnel had access to sensitive AOC computer equipment a total of 1,257 times in FY 2018. To obtain a complete listing of all personnel who accessed the AOC Data Center during FY 2018, we requested and reviewed the personnel access log generated by USCP Security Access Control System (SACS). The SACS logged the card number, personnel name, date and time accessed when individuals scanned their proxy access card to the electronic card reader to gain entry. The SACS logs contained 1,530 records of entry into the Data Center at the We sorted the 1,529 records by personnel name and determined 35 individuals gained access to the facility. We compared the 35 individuals to the USCP's approved personnel access report and ITD's Authorized Access List and determined that only 10 were approved by and assigned to the ITD, and 25 were not. To further validate our conclusion, an ITD manager reviewed the identified 25 personnel and confirmed they were not assigned to the ITD.

The USCP provided specific details on these non-ITD personnel, to include the purpose for access, job description, and jurisdiction. The 25 non-ITD personnel were Office of Security Programs engineers and maintenance mechanics, staff, USCP officers, AOC Facility manager, and security guards. After review and consultation with the ITD on the position descriptions, there were no identified concerns with the access of these non-ITD personnel.

According to AOC Order 7-4, Information Technology Security, the Architect of the Capitol designates the CIO as the authorizing official to grant, suspend, revoke, and modify the authority to operate for all general support systems and applications under the AOC's authority or control. AOC Order 8-2, Information Technology Management designates the ITD as the primary operational IT organization supporting the CIO. The ITD manages the operation of the AOC's automated information systems to include the AOC Data Center operations. Therefore, the ITD's responsibility for safety and security of the AOC Data Center should not only account for ITD staff and contractors but for anyone accessing the AOC Data Center. We found that the ITD Proxy Access Card Standard Operating Procedures, dated January 29, 2015, only specified control procedures for ITD personnel access to the AOC Data Centers using proxy card access.

The ITD should have a process in place for proper authorization and/or coordination with USCP and other AOC jurisdictions to control physical access to the Data Center at the Without proper physical access controls for the Data Center at the ITD's sensitive network computer equipment and technology may be at risk for unauthorized access, theft, or tampering.

Recommendations

Recommendation A.1

We recommend that the Chief Information Officer review and revise its Standard Operating Procedures, ITD Authorized Data Center Proxy Card Access List *Maintenance* to account for non-Information Technology Division personnel.

AOC Comment

Concur. The AOC has revised its Information Technology Division (ITD) Authorized Data Center Proxy Card Access List Maintenance Standard Operating

for the office of security programs consolidated facility management contract, which provide maintenance, custodial services, landscaping, and client services for the and

Procedure to include non-ITD personnel, effective September 3, 2019, completing this recommendation.

OIG Response

We recognize the AOC's concurrence with the recommendation. The OIG reviewed the revised Standard Operating Procedures and considers the recommendation closed.

Recommendation A.2

We recommend that the Chief Information Officer enhance its communications and coordination with U.S. Capitol Police and other AOC jurisdictions to improve physical access controls to the Data Center at the non-Information Technology Division personnel.

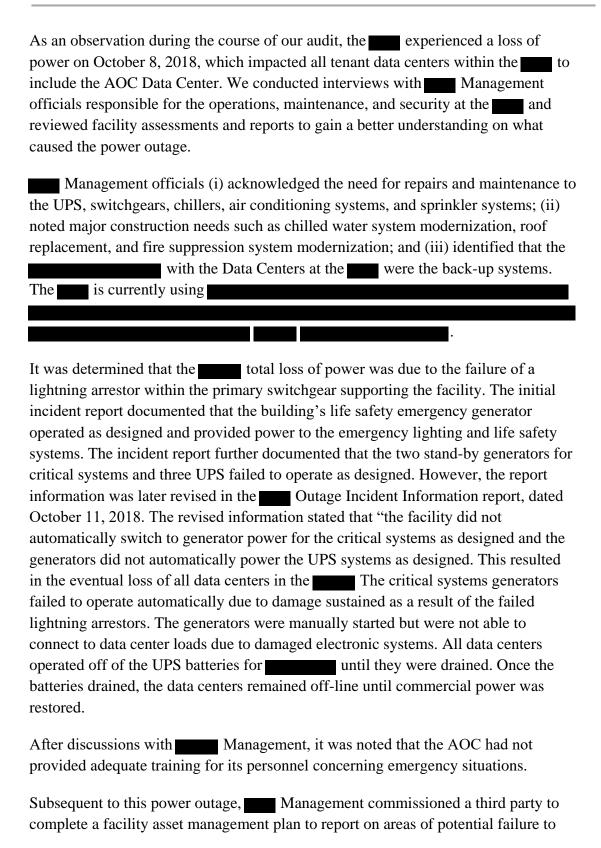
AOC Comment

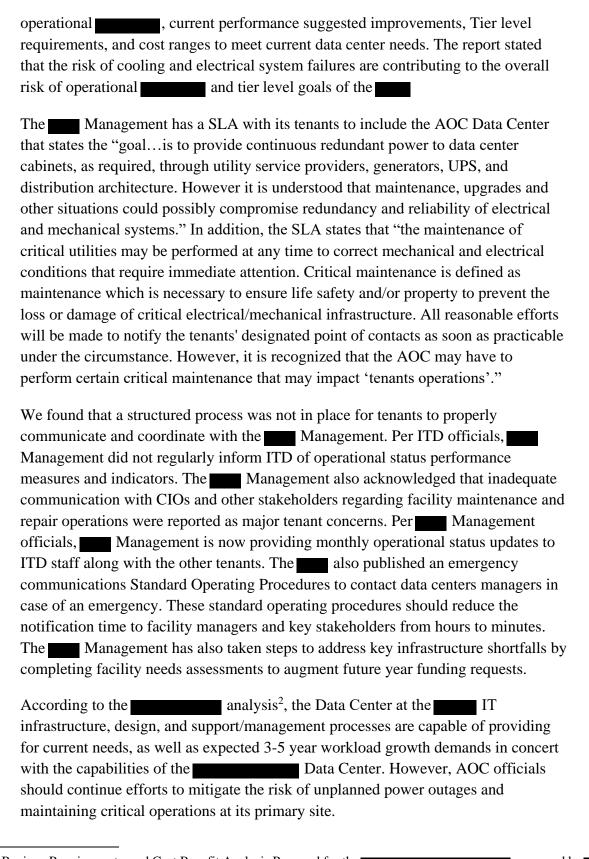
Concur. The AOC Chief Information Officer has corresponded with and subsequently submitted a memorandum to the AOC Office of Security Programs and the United States Capitol Police on September 4, 2019, establishing a revised process to improve physical access controls to the AOC data center at the for non-ITD personnel.

OIG Response

We recognize the AOC's concurrence with the recommendation. The OIG reviewed AOC's communication memorandum and considers the recommendation closed.

Other Matters





² Data Center Review, Requirements, and Cost Benefit Analysis Prepared for the , prepared by DATED March 22, 2017.

Appendix A

Scope and Methodology

The scope of this performance audit was October 1, 2017, through September 30, 2018. The audit scope was limited to the AOC Data Center at the We conducted this performance audit of AOC ITD located in from August 2018 through July 2019, in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

To determine whether the AOC developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing we interviewed and had discussions with key personnel from the Office of IT, Office of Security Programs and the USCP. We reviewed public law 107-347; the AOC's Information Technology Order 7-4 Order 8-2; Federal Information Processing Standards Publication 200; ITD Data Center Proxy Card Access Card Procedures; MOU between the AOC and the USCP; and the SLA between the AOC and Occupants.

We tested the data center's access controls, environmental factors, and data back-up procedures designed to ensure the continuity of AOC IT operations.

Access Controls

We obtained a complete list of all individuals who accessed the AOC Data Center during FY 2018 and we requested and reviewed the personnel access log generated by USCP Security Access Control System for the period.

Environmental Factors

We obtained and reviewed the Daily Operational and Status Dashboard reports. These reports detail the daily data center room temperatures and relative humidity. We compared the compiled information to the environmental standards for data centers in the American Society of Heating, Refrigeration, and Air Conditioning Engineers and the AOC's SLA.

Backup Procedures

We reviewed the ITD Backup standard operating procedures, dated June 26, 2018, which describes the current Backup Procedure for Files, Server, Database and Application Backup; Backup Data Retention; and Restore and Maintenance. We reviewed ITD's Job Summary Reports Backup for the period of June 4, 2018, through October 1, 2018.

This audit was included in the FYs 2018-2020 Office of Inspector General Audit and Evaluation Plan.

Review of Internal Controls

Government Auditing Standards requires auditors to obtain an understanding of internal control that is significant within the context of the audit objectives. For internal controls that are significant within the context of the audit objectives, auditors should assess whether the internal control has been properly designed and implemented and should perform procedures designed to obtain sufficient and appropriate evidence to support their assessment about the effectiveness of those controls. Information system controls are often an integral part of an entity's internal control. The effectiveness of significant internal controls is frequently dependent on the effectiveness of information systems controls. Thus, when obtaining an understanding of internal control significant to the audit objectives, auditors should also determine whether it is necessary to evaluate information systems controls.

We reviewed internal controls to obtain an understanding of the AOC's Data Center access controls and back-up procedures designed to ensure the continuity of AOC IT operations. We obtained our understanding by reviewing the applicable laws, regulations, and AOC policies to determine (i) the roles and responsibilities for physical access control and uninterruptable power, and (ii) if controls, individually or in combination with others controls, were properly implemented and working as designed.

The AOC Orders 4-10, Internal Controls Program, 7-4, Information Technology Security 8-2, Information Technology Management, ITD Backup Procedure and ITD Proxy Access Card Access List Standard Operating Procedures documented uniform policies for AOC staff to ensure conformity with the written terms, conditions and specifications of the MOU. Although ITD's process for back-up procedures and review and reconciliation of ITD personnel access of the AOC Data Center was sufficient, ITD acknowledged it has no control over approval of non-ITD personnel access to the data center.

Use of Computer-Processed Data

We used a material amount of computer-processed data to perform this audit. The computer processed data relates to physical access controls to the AOC Data Center at the and ITD server system back-up and restore job summary reports.

The computer processed data for physical access controls was Data Center access logs from October 1, 2017 through September 30, 2018. The access logs were extracted from the security access control system maintained by the USCP. The USCP OIG conducted two performance audits, in 2015 and 2018, of USCP controls over proximity cards, which include testing of controls and validation of data surrounding the Security Access Control System. However, due to the law enforcement sensitivity of the reports, the USCP did not share the reports. The data was compared to source documentation and confirmed by the USCP. Based on our understanding of the security access control system and the reliability determined by the USCP OIG audit, we can conclude that the computer processed data provided by the USCP regarding personnel access to the AOC Data Center at the sufficiently reliable for the purposes of our audit.

The computer processed data for back-up procedures was weekly Back-Up Summary Reports and monthly Restore Job Summary Reports. The ITD utilized commercial software to generate these reports. We obtained and reviewed the system software overview and conducted interviews with ITD staff to gain a detailed understanding of the software. We reviewed the ITD's report criteria and verified that each generated report contained the same criteria to ensure the completeness of the reports. In addition, we reviewed system generated email notifications used to confirm network back-up. Therefore, we concluded that the computer processed data provided was sufficiently reliable for the purposes of our audit.

Prior Coverage

During the last five years, the AOC OIG and House OIG issued two reports discussing matters related to AOC Data Center Access.

AOC OIG

Report No. A-2015-03 "AOC report on the Data Center Access"

The objective of the review was to determine whether the list of 18 AOC employees identified as no longer authorized access were actually removed from the access records. Facility managers from the House Information

Resources and AOC Jurisdictions responsible for personnel access and removal did not remove 18 personnel that were no longer AOC employees or contractors. This occurred because Jurisdictions, primarily the construction division, did not recover identification badges from the departing employees as required.

The report recommended the removal of the 18 employees or contractors from the House CAO and USCP access list and regular review of AOC employee access records and compliance with AOC order 296-4.

HOUSE OIG

Report No. 14-AOC-17 "Audit of the Architect of the Capitol's Information Technology Risk Management Framework"

The objective of the audit was to evaluate the AOC Risk Management Framework implementation and risk management activities, specifically, those related to disaster recovery, to ensure that AOC security controls are adequately documented, validated and operating effectively. The audit team reviewed and compared AOC policies and procedures with industry best practices and examined compliance with those policies and procedures. The report determined that while the AOC maintains an internal list of AOC Information Technology Division (ITD) personnel that have access to AOC Data Centers, the AOC does not reconcile this list with USCP authorized access lists produced from the proximity card system of record.

One of 20 AOC ITD employees/contractors on the USCP authorized access list provided by the AOC had not worked for the AOC since January of 2013. While the AOC submitted an access revocation request to the USCP for this individual upon their separation; the AOC did not detect that the request was not completed. Additionally, the AOC was unable to provide documentation to demonstrate this individual's ID badge was collected upon separation. The ID badge remained active for 90 days after separating from the AOC.

14 of 27 AOC ITD employees/contractors listed on the AOC's ITD authorized access list were not on the USCP authorized access list.

Management concurred with the recommendation and stated AOC is updating the ITD authorized access list so that it accurately reflects ITD employees/contractors access to data center and is implementing controls to ensure the list is properly maintained. The full list will be provided to the House Information Resources at least quarterly. As ITD personnel leave the AOC, the ITD designated points of contact will notify HIR. The updated ITD authorized access list is scheduled to be completed November 2014. Final Action - the AOC ITD authorized access list has been updated and controls implemented for its maintenance.

Appendix B

Notification Letter



Office of Inspector General Fairchild Bidg, 499 S. Capitol St., SW, Suite 518 Washington, D.C. 20515 202.593.1948

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United States Government

MEMORANDUM

DATE:

August 20, 2018

TO:

Stephen T. Ayers, FAIA, LEED AP

Architect of the Capitol

FROM:

Christopher P. Failla

Inspector General

SUBJECT:

Architect of the Capitol (AOC) Data Center Audit

(2018-0012-AUD-P)

This memorandum serves as notification that the Office of Inspector General plans to initiate an audit of the AOC Data Center. Our objective is to determine whether the AOC has developed and implemented policies and procedures to protect the physical integrity of the data center and the information resource systems residing within. Specifically, we will evaluate the data center's access controls, environmental factors, and back-up procedures designed to ensure the continuity of AOC information technology operations. We will limit our scope to the AOC Data Center at

We will contact you to set up an entrance conference. If you have any questions, please contact Paul Braxton at 202:593.0107 or Mary Ann Davenport at 202:593:0081.

Distribution List: Christine A. Merdon, P.E., CCM, Chief Operating Officer Dan Cassil, Chief Administrative Officer Jay Wiegmann, Chief Information Officer Shalley Kim, Executive Officer Mary Jean Pajak, Senior Advisor to the Chief Operating Officer James Drummond, Assistant Director, Facilities Management Division

Appendix C

Management Comments



Architect of the Capitol U.S. Capitol, Room SB-16 United States Government Washington, DC 20515 202.228.1793 MEMORANDUM www.aoc.gov September 12, 2019 DATE: Christopher P. Failla, Inspector General TO: Thomas J. Carroll III FROM: Acting Architect of the Capitol Draft Report Audit of Architect of the Capitol Data Center (2018-012-AUD-P) SUBJECT: Thank you for the opportunity to review and comment on the subject draft report regarding the Architect of the Capitol (AOC) Data Center at the The following comments on the subject report's finding and recommendations are provided: OIG Finding A: Physical Access Controls to the Data Center at the) Needs Improvement. AOC Comment; Concur. The AOC agrees with the finding, and has completed the two associated recommendations, as documented below, to improve physical access controls to its data center at the OIG Recommendation One: The Chief Information Officer review and revise its Standard Operating Procedures, ITD Authorized Data Center Proxy Card Access List Maintenance to account for non-ITD personnel. AOC Comment: Concur. The AOC has revised its Information Technology Division (ITD) Authorized Data Center Proxy Card Access List Maintenance Standard Operating Procedure to include non-ITD personnel, effective September 3, 2019, completing this recommendation. OIG Recommendation Two: The Chief Information Officer enhance its communications and coordination with USCP and other AOC jurisdictions to improve physical access controls to the Data Center at the for non-ITD personnel, AOC Comment: Concur. The AOC Chief Information Officer has corresponded with and subsequently submitted a memorandum to the AOC Office of Security Programs and the United

States Capitol Police on September 4, 2019, establishing a revised process to improve physical access controls to the AOC data center at the for non-ITD personnel. We believe these

actions and new process complete the recommendation.

Thank you for the opportunity to provide comments to the draft report. Please contact William O'Donnell, AOC Chief Administrative Officer, by telephone at 202.226.0007 or electronic mail at william.odonnell@aoc.gov if there are any questions.

Doc. No. 190904-02-01

| Architect of the Capitol | U.S. Capitol, Room SB-16 | Washington, DC 20515 | 202.228.1793 | www.aoc.gov

2

Acronyms and Abbreviations

AOC Architect of the Capitol

CIO **Chief Information Officer**

FΥ Fiscal Year

LOC Library of Congress

IT Information Technology

ITD Information Technology Division MOU Memorandum of Understanding OIG Office of the Inspector General SACS Security Access Control System

SLA Service Level Agreement

UPS **Uninterrupted Power Supplies** United States Capitol Police **USCP**



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