



O R A N G E C O U N T Y

AUDITOR-CONTROLLER

I N T E R N A L A U D I T

**FIRST FOLLOW-UP  
INFORMATION TECHNOLOGY  
AUDIT:**

**SHERIFF-CORONER  
COMPUTER GENERAL  
CONTROLS  
AS OF AUGUST 14, 2015**



**Audit Number 1353-F1 (Reference 1541)  
Report Date: October 22, 2015**



O R A N G E C O U N T Y  
**AUDITOR-CONTROLLER**  
I N T E R N A L A U D I T

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**Transmittal Letter**

**Audit No. 1353-F1**  
**(Reference 1541)**

**October 22, 2015**

**TO:** Sandra Hutchens  
Sheriff-Coroner

**SUBJECT:** First Follow-Up Information Technology Audit: Sheriff-Coroner Computer General Controls, Original Audit No. 1353, Issued January 13, 2015

We have completed our First Follow-Up Information Technology Audit of Sheriff-Coroner Computer General Controls as of August 14, 2015. Our final report is attached for your review.

I submit an **Audit Status Report** quarterly to the Audit Oversight Committee (AOC) and a monthly report to the Board of Supervisors (BOS) where I detail any critical and significant audit findings released in reports during the prior month and the implementation status of audit recommendations as disclosed by our Follow-Up Audits. Accordingly, the results of this Follow-Up Audit will be included in future status reports to the AOC and BOS.

Toni Smart, CPA, Director  
Auditor-Controller Internal Audit Division

**Attachments**

Other recipients of this report:

Members, Board of Supervisors  
Members, Audit Oversight Committee  
Eric H. Woolery, Auditor-Controller  
Frank Kim, County Executive Officer  
Mark Denny, Chief Operating Officer  
Don Barnes, Assistant Sheriff, Administrative Services Command, Sheriff-Coroner  
Brian Wayt, Senior Director, Administrative Services Command, Sheriff-Coroner  
Kirk Wilkerson, Director, Support Services, Sheriff-Coroner  
Ed Lee, Administrative Manager, Information Systems Bureau, Sheriff-Coroner  
Jerry Soto, Administrative Manager, Information Systems Bureau, Sheriff-Coroner  
Charles Ko, Database & Security Administrator, Sheriff-Coroner  
Noma M. Crook, Director, Financial/Administrative Services, Sheriff-Coroner  
Foreperson, Grand Jury  
Robin Stieler, Interim Clerk of the Board of Supervisors  
Macias Gini & O'Connell LLP, County External Auditor



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Sheriff-Coroner Computer General Controls  
Audit No. 1353-F1 (Reference 1541)***

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# Internal Auditor's Report

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**Audit No. 1353-F1**

**October 22, 2015**

TO: Sandra Hutchens  
Sheriff-Coroner

FROM: Toni Smart, CPA, Director  
Auditor-Controller Internal Audit Division

SUBJECT: First Follow-Up Information Technology Audit: Sheriff-Coroner Computer General Controls, Original Audit No. 1353, Issued January 13, 2015

## SCOPE

We have completed a First Follow-Up Audit of Sheriff-Coroner Computer General Controls. Our audit was limited to reviewing actions taken as of August 14, 2015, to implement **four (4) recommendations** from our original audit.

## BACKGROUND

The original audit found IT general controls were adequate and identified **four Control Findings** to enhance the Sheriff-Coroner's computer general controls. General controls are the structure, policies, and procedures that apply to an entity's overall computer operations. If general controls are weak, they severely diminish the reliability of controls associated with individual applications. Sheriff-Coroner/Information Systems Bureau utilizes a number of systems including:

- ✓ Sheriff's Data System (SDS)/Automated Jail System (AJS),
- ✓ Enhanced Law Enforcement Telecommunications Emulator (ELETE),
- ✓ BMC Remedy AR Systems (Help Desk/Asset Inventory Reporting),
- ✓ Records Management System (RMS), and
- ✓ Computer Aided Dispatch (CAD) backup.

These systems store and process sensitive/confidential data including law enforcement operations involving criminal investigations, jail operations, undercover and forensic work. In addition, these systems interface with other key statewide and Department of Justice law enforcement systems. Therefore, restricting access to the systems and their data is a key priority.

## RESULTS

Our First Follow-Up Audit indicated that the Sheriff-Coroner **implemented one recommendation and is in process of implementing three recommendations**. Based on our First Follow-Up Audit, the following is the implementation status of the four original recommendations:

**1. Security Settings May Be Improved (Control Finding)**

Sheriff-Coroner should consider changing the security settings to meet best practices.

**Current Status: Implemented.** Our original audit reviewed Sheriff-Coroner network security settings and determined the settings could be improved to lessen the risk of an unauthorized access to the OCSD network. Our First Follow-Up Audit found the Sheriff-Coroner revised the network security settings to better align with access security best practices. Because network security settings were revised to meet best practices, we consider this recommendation implemented.



# Internal Auditor's Report

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## 2. **Change Control Policies and Procedures Need to be Developed** (Control Finding)

Sheriff-Coroner should develop policies and procedures to address: vendor supplied passwords, embedded passwords, development environment, changes to network devices, personal and public domain software, and patch management.

Current Status: **In Process.** Our original audit determined adequate policies and procedures were not documented to address the items previously noted.

Our First Follow-Up Audit found that Sheriff-Coroner is in the process of developing an IT Operations Manual that will address among other items: vendor supplied passwords, embedded passwords, development environment, changes to network devices, personal and public domain software, and patch management. Because the IT Operations Manual is currently in draft form, we consider this recommendation in process.

Planned Action: The policies and procedures are in process of being developed and incorporated into the "Network and Security Services" section of the new IT Operations Manual. The project is on schedule to meet the 12 month estimated completion.

## 3. **Computer Operations Policies and Procedures Need to be Developed** (Control Finding)

The Sheriff-Coroner should document and maintain its computer operation policies and procedures.

Current Status: **In Process.** Our original audit determined adequate policies and procedures were not documented to address the items previously noted.

Our First Follow-Up Audit found that Sheriff-Coroner is in the process of developing an IT Operations Manual that will address among other items: administrative procedures, application development & support, desktop services, network services and project management. Because the IT Operations Manual is currently in draft form, we consider this recommendation in process.

Planned Action: Sheriff-Coroner Information Systems Bureau is in the process of developing the new IT Operations Manual which covers operations, planning, network infrastructure, security services, help desk, administrative procedures, CLETS (California Law Enforcement Telecommunications System) administration and training areas. This project is on schedule to meet the 12 month estimated completion.

## 4. **Contingency Plans Need to be Updated and Tested** (Control Finding)

The Sheriff-Coroner should develop a plan for testing its disaster recovery and contingency plans on a regular basis.

Current Status: **In Process.** Our original audit determined the Sheriff-Coroner had not updated or tested its IT related business contingency plans within the last year.

Our First Follow-Up Audit found that Sheriff-Coroner is in the process of developing an IT Operations Manual that will address among other items: disaster recovery plan, backup and recovery procedures, incident response, emergency operations center activation, and disaster recovery plan testing. Because the IT Operations Manual is currently in draft form, we consider this recommendation in process.



# Internal Auditor's Report

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Planned Action: Sheriff-Coroner Information Systems Bureau is in process of implementing an IT disaster recovery project. It will include remote disaster recovery sites with critical applications running on their local hardware. In addition, they are developing the disaster recovery test plan to regularly validate the recovery and contingency plan. This project is on schedule to meet the 24 month estimated completion.

We appreciate the assistance extended to us by Sheriff-Coroner personnel during our Follow-Up Audit. If you have any questions, please contact me directly at 834-5442 or Michael Goodwin, Assistant Director at 834-6066.