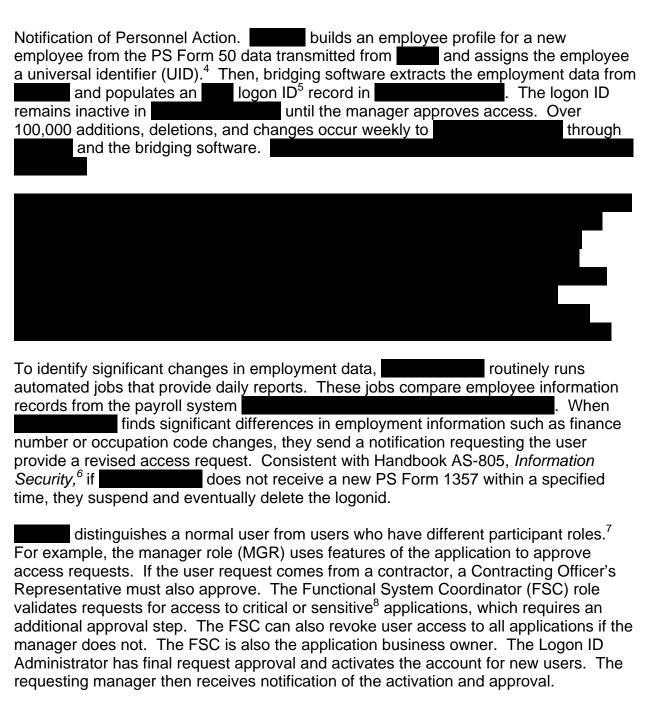
March 14, 2008

GEORGE W. WRIGHT VICE PRESIDENT, INFORMATION TECHNOLOGY OPERATIONS DEBORAH M. GIANNONI-JACKSON VICE PRESIDENT. EMPLOYEE RESOURCE MANAGEMENT SUBJECT: Audit Report – Update Processes for (Report Number IS-AR-08-009) This report presents the results of our self-initiated review of the update processes to <sup>1</sup> and <sup>2</sup> systems (Project Number 07RG013IS000). Our objective was to evaluate the controls over employee and contractor employment status updates to systems. If employment status data do not flow accurately from , or if internal controls in these systems are not in place or working properly, it could result in improper or unauthorized user access to information systems. Background system has become an integral part of the day-to-day operations of the U.S. Postal Service. The system not only monitors who obtains access to various Postal Service resources, it also automates the creation and maintenance of user accounts. Its functionality provides efficiencies that allow for the elimination of the Postal Service (PS) Form 1357, Request for Computer Access, and the associated manual effort necessary to approve and create user accounts. Employees and contractors use the system to obtain automated access to and mainframe systems.<sup>3</sup> For example, entering a new registered Postal Service hire in the generates a PS Form 50,



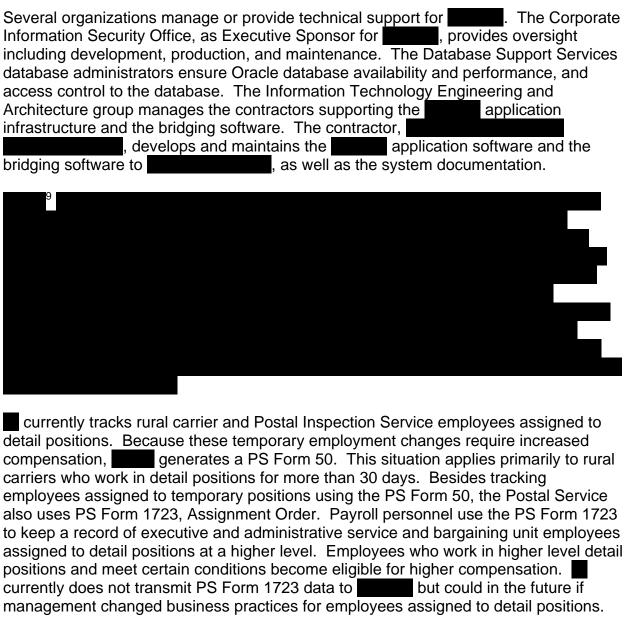
4

Participant roles have access to the system, administration module, or utilities.

<sup>&</sup>lt;sup>6</sup> According to Handbook AS-805, *Information Security*, March 2002 (updated with *Postal Bulletin* revisions through November 26, 2006), Section 9-6.3, Suspending Logon IDs, and Section 9-6.5, Terminating Logon IDs.

<sup>7</sup> Postiginant relations as a second to the seco

<sup>&</sup>lt;sup>8</sup> Handbook AS-805, Section 3-3.2, Sensitivity and Criticality Category Independence, states "Sensitivity and criticality are independent designations. All Postal Service information must be evaluated to determine both sensitivity and criticality. Information with *any* criticality level may have *any* level of sensitivity designation and visa versa."



# Objective, Scope, and Methodology

See Appendix B for objective, scope, and methodology details.

# Prior Audit Coverage

We did not identify any prior audits or reviews related to the objective of this audit.

9

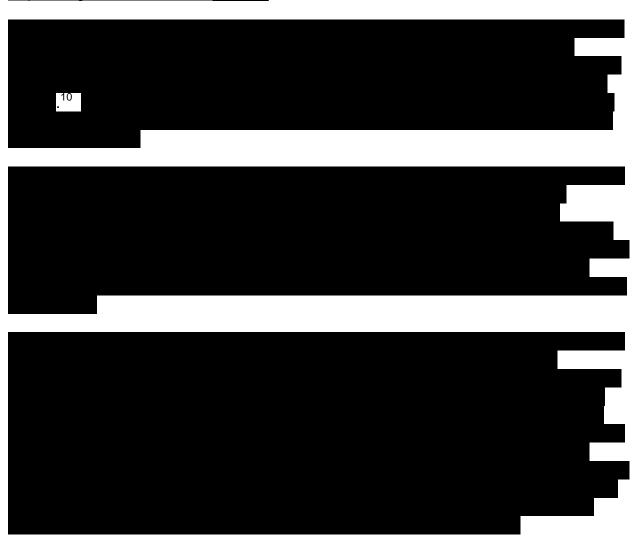
# **Results**

The automated and manual processes accurately extracted employment status changes that were transmitted the status is the status of the status
management needs to improve controls to better separate duties for users who can update . Additionally, management needs to
evaluate the business processes that affect employee status updates and
to adequately separate duties between managers and users in
Management also needs to evaluate the business processes to allow to allow better manage employee status changes, especially detail assignments that affect user
access to critical or sensitive systems. Finally, management needs to improve
system documentation.
. We made four recommendations to address these issues, including a joint
recommendation to Employee Resource Management and Information Technology
Operations to review the manager roles and and to determine how to better integrate the roles. We also recommended that appropriate Postal Service
organizational units establish requirements for tracking employees assigned to detail
positions, implement a planned enhancement to to ensure reviews take place when significant job assignment changes occur, and keep system documentation
updated. While management did not agree with some facts in the findings leading up to
recommendations 1 and 2, they recognized that the conditions were valid and agreed to correct them. Management fully agreed with recommendations 3 and 4. Management's
comments and our evaluation of these comments are included in the report.
Separation of Duties
(policy) states that individuals' functional roles should be separate and their access
should be limited to a minimum level. Separation of duties for application access is
essential to ensure personnel have appropriate access levels to corporate information.
Security Interface for the Payroll System and the



We are not providing a recommendation for this issue since management has an action in process to correct this condition.

# Separating the MGR Role in



Policy states that access to information resources must be specific to individuals' roles and responsibilities, and separation of duties and responsibilities will be considered when defining roles. Additionally, personnel should only have access to sensitive and

<sup>&</sup>lt;sup>10</sup> According to a system design document, the FSC must provide a rationale for denying a request.

<sup>&</sup>lt;sup>11</sup> Handbook AS-805, Section 9-4.1.3, Separation of Duties.

critical information resources based on the minimum level of system functionality they need to perform their duties.<sup>12</sup>

The Corporate IT Portfolio organization formed a group 13 to help the Postal Service comply with Sarbanes-Oxley Act of 2002 (SOX) business requirements. We reviewed three security enhancements 14 the group plans to implement in For example, when an employee requests a change in the assigned manager, the former manager and the new manager must approve this change. Management also plans to implement a process where the MGR or FSC performs a bi-annual review of user access to applications.

applications.

Based on the planned SOX security enhancements, we are not providing a recommendation to make any changes to **Exercise**.

## **Recommendation**

# **Management's Comments**

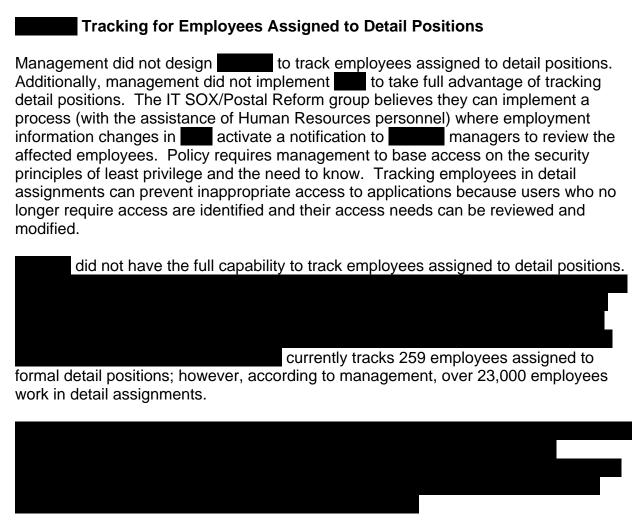


<sup>&</sup>lt;sup>12</sup> Handbook AS-805, Section 9-4.1.4, Least Privilege.

The IT SOX/Postal Reform Portfolio group as part of the "FY08 SOX Security Enhancements" project. The recently signed Postal Accountability and Enhancement Act of 2006 includes a requirement that the Postal Service be compliant with the SOX by the time it issues its first annual report in late 2010 (for FY 2010).

### **Evaluation of Management's Comments**

Although management disagreed with some facts in the finding, their response was in agreement with the recommendation's intent, and their comments are responsive. The actions planned or taken should correct the issues identified in the finding.



Without adequate controls to track employees assigned to detail positions, individuals may retain access to sensitive or critical information resources that they are not authorized to access after the detail ends. Preventing such unauthorized access eliminates potential modification, disclosure, or destruction of corporate information.

Policy states that management will grant access to sensitive and critical information resources based on providing personnel with the minimum level of system functionality needed to perform their duties.<sup>15</sup> Additionally, management must limit access to

<sup>&</sup>lt;sup>15</sup> Handbook AS-805, Section 9-4.1.4, Least Privilege.

sensitive information resources to personnel who need to know the information to perform their duties.<sup>16</sup> The IT SOX/Postal Reform group believes they can implement a process (with the assistance of Human Resources personnel) where employment information changes in activate a notification to managers to review the affected employees. For example, if any changes occur (duty station, finance number, occupation code, and employment status), can pass them overnight to which will generate emails to the appropriate managers. We believe management should leverage this so that unneeded access does not continue after termination of a detail assignment. Recommendation We recommend the Vice President, Employee Resource Management, coordinate with the Vice President, Information Technology Operations, to: 2. Review the capabilities and establish requirements in the for tracking employees assigned to detail positions and how to pass timely and accurate data to **Management's Comments** Management disagreed that there was an issue with data that is passed for formal detail assignments where PS Form 50s were generated. Subsequent to receipt of the formal response, we received information to clarify this response. Management stated that the Executive Director, will work with Information Technology They targeted this action for completion by May 30, 2008. Management additionally agreed that data for informal detail positions, not resulting in PS Form 50 activity, were not passed through the system to stated that the Executive Director. , would work with the managers of Employee Resource Management and Information Technology to develop requirements for tracking data for informal detail positions. Management targeted December 31, 2008, to complete this activity. **Evaluation of Management's Comments** 

Management disagreed that there was an issue with data passed to the system. However, their response was in agreement with the recommendation's intent,

<sup>&</sup>lt;sup>16</sup> Handbook AS-805, Section 9-4.1.2, Need to Know.

and their comments are responsive. The actions planned or taken should correct the issues identified in the finding.

## **Evaluation of User Access**

Management did not reevaluate logon ID access when employees were reassigned. This occurred because management did not have any procedures in place to notify managers when employment changes occurred and when access should be reevaluated. Policy states that all managers have the responsibility of revoking access when it is no longer required. Reevaluating access when an employee's job responsibilities change helps ensure employees have access to only the data and systems needed to perform their work.

Employment changes affecting occupation code, finance number, or employment status could result in different access requirements to information systems. Except for terminations, has no functionality to notify managers when employment changes occur and when access should be reevaluated. Managers or users can initiate access changes, but the FSCs have the ultimate responsibility for approving the appropriate level of access.

In the mainframe environment,	used programs to compare employee	
information records		

Policy states that all managers must immediately revoke access to information resources for personnel who no longer require it because of a change in job responsibilities, transfer, or termination.<sup>17</sup>

The IT SOX/Postal Reform group identified three SOX security enhancements<sup>18</sup> beginning in mid-2008 that will address this issue. Based on changes in employment information, appropriate managers will receive timely notification to review these changes and determine if current employee access is required.

### Recommendation

We recommend the Vice President, Information Technology Operations, direct the Manager, Corporate Information Security Office, to:

3. Develop and implement the planned enhancement that will ensure access reviews take place when significant changes occur in job assignments.

18

<sup>&</sup>lt;sup>17</sup> Handbook AS-805, Section 9-4.2.7, Revoking Access.

## **Management's Comments**

Management agreed with the recommendation. Management stated that, as part of the Sarbanes-Oxley effort, they are currently programming to alert managers to review system access when an employee's job status changes. Management targeted May 30, 2008, to complete this activity.

## **Evaluation of Management's Comments**

Management's comments are responsive to the recommendation, and the actions planned or taken should correct the issues identified in the finding.

# System Documentation for

The contractor did not maintain up-to-date system documentation for states the principle of configuration management includes the responsibility of adequately maintaining system documentation. Current system documentation is important for tracking system changes and ensuring the system is operating as designed.



Good configuration management provides integrity and traceability to software throughout the change life cycle. As a best practice, keeping system documentation current is important for tracking system changes and assuring the system is operating as designed.

## Recommendation

We recommend the Vice President, Information Technology Operations, direct the Manager, Corporate Information Security Office, to:

4. Review and update system documentation for \_\_\_\_\_, and implement a process to ensure system documentation is kept current in the future.

<sup>&</sup>lt;sup>19</sup> Management Instruction AS-850-2002-10, *Information Technology Change and Configuration Management*, Overview section, August 22, 2002.

## **Management's Comments**

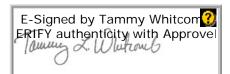
Management agreed with the recommendation. Management stated that, as part of the Sarbanes-Oxley enhancements to the House that documentation is kept up-to-date, including any required changes to documentation due to system enhancement or maintenance. Management targeted June 30, 2008, to complete these activities.

#### **Evaluation of Management's Comments**

Management's comments are responsive to the recommendation, and the actions planned or taken should correct the issues identified in the finding.

The U.S. Postal Service Office of Inspector General (OIG) considers recommendations 1 through 3 significant, and therefore requires OIG concurrence before closure. Consequently, the OIG requests written confirmation when corrective actions are completed. These recommendations should not be closed in the follow-up tracking system until the OIG provides written confirmation that the recommendations can be closed.

We appreciate the cooperation and courtesies provided by your staff. If you have any questions or need additional information, please contact Gary Rippie, Director, Information Systems, or me at (703) 248-2100.



Tammy L. Whitcomb
Deputy Assistant Inspector General
for Revenue and Systems

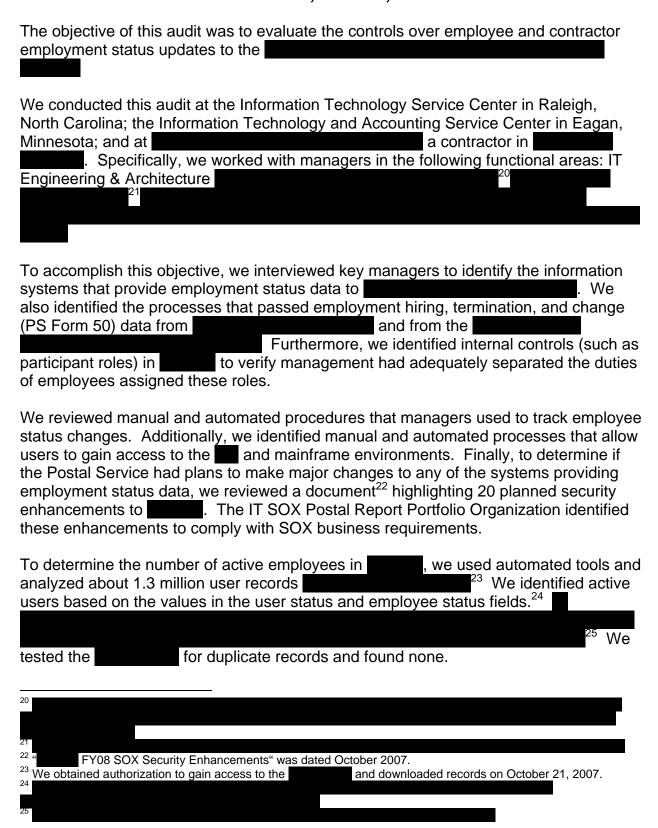
#### Attachments

cc: Ross Philo
H. Glen Walker
Harold E. Stark
John P. Byrne
Joseph J. Gabris
Gregory "Dean" Larrabee
Michael E. Goldman
Larry V. Goodman
Jerry M. McClure
Steven W. Monteith
Nancy M. Laich
Katherine S. Banks

# APPENDIX A. EMPLOYMENT STATUS DATA FLOW

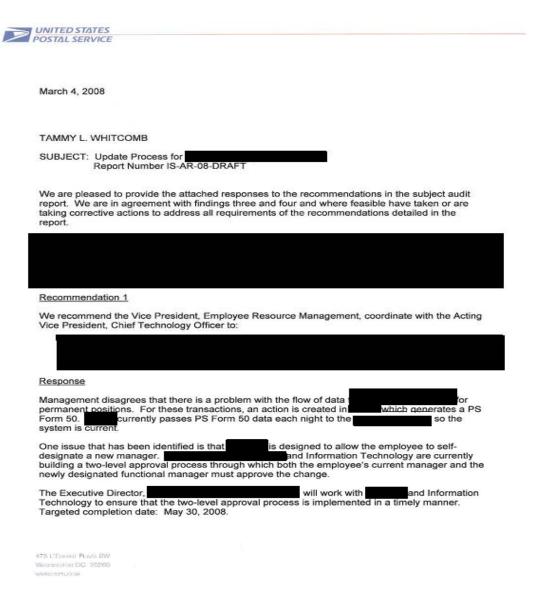
Redacted

## APPENDIX B. OBJECTIVE, SCOPE, AND METHODOLOGY



We conducted this audit from August 2007 through March 2008 in accordance with generally accepted government auditing standards and included such tests of internal controls as we considered necessary under the circumstances. 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 objective. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objective. We used manual and automated techniques to analyze the computer-processed data. Based on the results of these tests and assessments, we generally concluded the data were sufficient and reliable to use in meeting the objective.

# APPENDIX C. MANAGEMENT'S COMMENTS



-2-

#### Recommendation 2

We recommend the Vice President, Employee Resource Management, coordinate with the Acting Vice President, Chief Technology Officer to:

Review the capabilities and establish requirements assigned to detail positions and how to pass timely and accurate data to eAccess.

#### Response

Management disagrees that there is an issue with data being passed for detail assignments where PS Forms 50 are generated. Data for formal detail positions that result in a PS Form 50 is passed each night completion date: May 30, 2008.

Management agrees that data for informal detail positions that do not result in a PS Form 50 activity are currently not trackable items within and no data is passed through the system. The Executive Director, will work with Employee Resource Management, Information Technology, and to develop requirements for tracking data for informal detail positions by the end of calendar year 2008. Based on the scope of the requirements, implementation plans will be developed at that time.

#### Recommendation 3

We recommend the Vice President, Acting Chief Technology Officer, direct the Manager, IT Service Center, to:

 Develop and implement the planned enhancement that will ensure access reviews take place when significant changes occur in job assignments.

#### Response

Management agrees. The capability of alerting managers to an employee's change in job status for the purpose of reviewing their system access rights is currently being programmed within as part of the SOX effort. Targeted completion date: May 30, 2008.

#### Recommendation 4

We recommend the Vice President, Acting Chief Technology Officer, direct the Manager, Corporate Information Security Office, to:

 Review and update system documentation for and implement a process to ensure system documentation is kept current in the future.

#### Response

Management agrees. As part of the SOX enhancements to the developer will ensure that the documentation is kept up to date. The developer will also ensure as part of its

-3-

enhancement and maintenance that any required changes to documentation are made. Targeted Completion date: June 30, 2008.

Deborah Giannoni-Jackson Vice President

Employee Resource Management

George W. Wright Vice President

Information Technology Operations

cc: H. Glen Walker
Harold E. Stark
John P. Byrne
Joseph J. Gabris
Gregory "Dean" Larrabee
Michael E. Goldman
Larry V. Goodman
Jerry M. McClure
Steven W. Monteith
Nancy M. Laich

Katherine S. Banks