RESULTS OF CONTINUOUS AUDITING USING CAATS:
AUDITOR-CONTROLLER, HUMAN RESOURCE SERVICES, & COUNTY PROCUREMENT OFFICE

AUDIT FOR DUPLICATE VENDOR PAYMENTS AND OTHER PERIODIC ROUTINES

(Cited as a Best Practice by the Institute of Internal Auditors)

For the Month: February 2013

Duplicate Vendor Payments: We analyzed 17,952 vendor invoices paid in January 2013 amounting to about $316 million and found 99.99% of the invoices were paid only once. Of the $316 million vendor invoices, we identified one (1) potential duplicate payment made to vendors totaling $120.

To date we have identified $1,020,533 in duplicate vendor payments, of which $1,006,336 or 99% has been recovered.

REPORT DATE: FEBRUARY 28, 2013

Director: Dr. Peter Hughes, MBA, CPA, CIA
Deputy Director: Eli Littner, CPA, CIA, CISA
Senior Audit Manager: Michael Goodwin, CPA, CIA
Audit Manager: Carol Swe, CPA, CIA, CISA
IT Audit Manager: Wilson Crider, CPA, CISA

RISK BASED AUDITING
American Institute of Certified Public Accountants Award to Dr. Peter Hughes as 2010 Outstanding CPA of the Year for Local Government

GRC (Government, Risk & Compliance) Group 2010 Award to IAD as MVP in Risk Management
2009 Association of Certified Fraud Examiners’ Hubbard Award to Dr. Peter Hughes for the Most Outstanding Article of the Year – Ethics Pays
2008 Association of Local Government Auditors’ Bronze Website Award
2005 Institute of Internal Auditors’ Award to IAD for Recognition of Commitment to Professional Excellence, Quality, and Outreach
Dr. Peter Hughes  Ph.D., MBA, CPA, CCEP, CITP, CIA, CFE, CFF, CGMA
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Certified Compliance & Ethics Professional (CCEP)
Certified Information Technology Professional (CITP)
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To access and view audit reports or obtain additional information about the OC Internal Audit Department, visit our website: www.ocgov.com/audit

OC Fraud Hotline (714) 834-3608
Transmittal Letter

Audit No. 1238-H  February 28, 2013

TO:  Jan Grimes, Chief Deputy Auditor-Controller
     Steve Danley, Director
     Human Resource Services
     Ronald C. Vienna, County Purchasing Agent
     County Procurement Office

SUBJECT: Results of Continuous Auditing Using CAATS: Auditor-Controller, Human Resource Services, & County Procurement Office – Duplicate Vendor Payments & Other Routines

We have completed the February 2013 report of Results of Continuous Auditing Using CAATS (Computer-Assisted Audit Techniques). The final report is attached for your information. Recoveries to date from duplicate vendor payments are $1,006,336.

Each month I submit an Audit Status Report to the Board of Supervisors (BOS) where I detail any material and significant audit issues 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 audit will be included in a future status report to the BOS.

As always, the Internal Audit Department is available to partner with your staff so that they can successfully implement or mitigate difficult audit recommendations. Please feel free to call me should you wish to discuss any aspect of our audit report.

We appreciate the courtesy and cooperation extended to us by the personnel of your offices. If we can be of further assistance, please contact me directly at (714) 834-5475 or Michael Goodwin, Senior Audit Manager at (714) 834-6066.

Respectfully Submitted,

Dr. Peter Hughes, CPA, Director
Internal Audit Department

Attachment
Distribution Pursuant to Audit Oversight Committee Procedure No. 1:

- Members, Board of Supervisors
- Members, Audit Oversight Committee
- Robert J. Franz, Interim County Executive Officer
- Victoria Ross, Director, Central Accounting Operations, Auditor-Controller
- Paul Villanueva, Senior Manager, A-C/Claims and Disbursing
- Bill Malohn, Manager, A-C/Information Technology/CAPS G/L System Support
- Terri Bruner, Assistant Director, Human Resource Services/Operations Division
- Kim Evans, Administrative Manager, Human Resource Services/Administration
- Foreperson, Grand Jury
- Susan Novak, Clerk of the Board of Supervisors
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*Results of Continuous Auditing Using CAATS: Auditor-Controller, Human Resource Services, & County Procurement Office*

*Duplicate Vendor Payments and Other Routines Audit No. 1238-H*

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*February 2013*

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Audit No. 1238-H

February 28, 2013

TO: Jan Grimes, Chief Deputy Auditor-Controller
Steve Danley, Director, Human Resource Services
Ronald C. Vienna, County Purchasing Agent
County Procurement Office

FROM: Dr. Peter Hughes, CPA, Director
Internal Audit Department

SUBJECT: Results of Continuous Auditing Using CAATS:
Auditor-Controller, Human Resource Services, & County
Procurement Office – Duplicate Vendor Payments and Other
Routines

OBJECTIVES

Each month, the Internal Audit Department conducts a variety of continuous auditing of vendor payment and payroll activity utilizing Computer-Assisted Audit Techniques (known by the acronym CAATS). Our objectives are to analyze selected vendor payment and payroll data to identify:

1. Duplicate Payments: Duplicate payments made to vendors. This CAAT is performed monthly.
2. Employee Vendor Match: Employees that bought goods or issued contracts to themselves or a related vendor. This CAAT is performed quarterly.
3. OC Working Retiree/Extra Help Hours: County retirees working as extra help in excess of mandated hour limits of 960 or 720 hours for FY 12-13. The mandated limits required by Government Code Sections 31680.6 and 31641.04 are per fiscal year and this CAAT is performed monthly and annually.
4. Payroll Direct Deposits: Multiple employee paychecks directly deposited to the same bank account which could be an indicator of inappropriate payments. This CAAT is performed monthly.
BACKGROUND
Continuous auditing is a change to the traditional audit approach of periodic reviews of a sample of transactions to ongoing audit testing of 100 percent of transactions. Continuous auditing provides efficient and timely testing of transactions and/or controls to allow immediate notification and remediation by management. An important component of continuous auditing is the development of models for the ongoing (continuous) review of transactions at, or close to, the point at which they occur.

As a supplement to traditional audits performed, Internal Audit performs continuous auditing of selected vendor payment and payroll activities utilizing Computer Assisted Audit Techniques (CAATs).

CAATs are automated queries applied to large amounts of electronic data searching for specified characteristics. We use a proprietary, best practices and industry recognized software product to help us in this process.

CAATs differ from our traditional audits in that CAATs can query 100% of a data universe whereas the traditional audits typically test but a sample of transactions from the population.

Resulting exceptions or findings are forwarded to the appropriate department for validation and/or resolution. Depending on the department’s review, the exceptions may or may not be a finding.

Often there is additional data needed to validate the exception that is only known at the department level. We also partner with the departments to identify internal control enhancements with the purpose of preventing future occurrences of the type of findings identified by the CAATs.

We are keeping the details of our process and the vulnerabilities identified to a general discussion because of the risks associated with disclosing specific details of our financial and accounting processes.

SCOPE
This report details the CAAT work we performed in February 2013. Our analysis included a review of the following data:

1. **Duplicate Payments**: 17,952 vendor invoices totaling $315,512,442 for potential duplicate payments.

2. **Employee Vendor Match**: This routine is performed on a quarterly basis; therefore, it was not performed in January 2013. The next analysis will be performed at March 31, 2013.

3. **OC Working Retiree/Extra Help Hours**: County working retiree/extra help hours worked during FY 12-13 for individuals exceeding annual fiscal year limits of 960 or 720 hours, as mandated by Government Code Sections 31680.6 and 31641.04.

4. **Payroll Direct Deposits**: 36,011 payroll direct deposit transactions processed for pay periods #03 (1/11/13 – 1/24/13) and #04 (1/25/13 – 2/27/13) for suspicious direct deposit activity.
RESULTS

For the month of February 2013, we found the following:

- **Objective #1 - Duplicate Payments:**
  We identified one (1) potential duplicate payment made to vendors totaling $120 or .00004% of the $316 million of vendor invoices processed during January 2013.

  **Value-added Information**
  Based on the to-date recoveries of $1,006,336 from the duplicate vendor payment routine, these computer assisted routines have paid for themselves and are returning monies to the County that may otherwise be lost. To date, we have issued 129 monthly performance reports for the CAATs.

- **Objective #2 – Employee Vendor Match:**
  This routine is performed on a quarterly basis. All employee-vendor matches identified to date have been resolved to Human Resource Services (HRS) satisfaction. The next analysis will be performed at March 31, 2013.

- **Objective #3 – OC Working Retiree/Extra Help Hours:**
  As of February 7, 2013, no OC working retirees exceeded the annual fiscal year 2012-2013 limits of 960 or 720 hours mandated by Government Code Sections 31680.6 and 31641.04.

- **Objective #4 – Payroll Direct Deposits:**
  Analysis performed with no findings noted.

See the Detailed Results section for further information.
1. Duplicate Payments (Objective #1)

We used a CAAT routine to identify potential duplicate payments made to vendors during January 2013.

A. Results

We identified one (1) potential duplicate payment made to vendors totaling $120 of the $316 million, or .00004%, of vendor invoices processed during January 2013. The Auditor-Controller continues to investigate all duplicate payments and is pursuing collection. Currently, the County has a recovery rate of about 99% on these duplicate payments that have been identified since the inception of the CAAT routines.

The table below summarizes the duplicate payment activity to date:

<table>
<thead>
<tr>
<th>CAAT Report</th>
<th>Total #'s</th>
<th>Total $'s</th>
<th>Not Duplicates #'s</th>
<th>Not Duplicates $'s</th>
<th>Recovered #'s</th>
<th>Recovered $'s</th>
<th>In Process #'s</th>
<th>In Process $'s</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>103</td>
<td>$99,980</td>
<td>19</td>
<td>$10,334</td>
<td>80</td>
<td>$87,808</td>
<td>4</td>
<td>$1,838</td>
</tr>
<tr>
<td>2003</td>
<td>50</td>
<td>$33,306</td>
<td>7</td>
<td>$10,175</td>
<td>39</td>
<td>$21,020</td>
<td>4</td>
<td>$2,111</td>
</tr>
<tr>
<td>2004</td>
<td>33</td>
<td>$105,779</td>
<td>7</td>
<td>$2,990</td>
<td>24</td>
<td>$101,460</td>
<td>2</td>
<td>$1,329</td>
</tr>
<tr>
<td>2005</td>
<td>67</td>
<td>$80,162</td>
<td>2</td>
<td>$668</td>
<td>64</td>
<td>$78,472</td>
<td>1</td>
<td>$1,022</td>
</tr>
<tr>
<td>2006</td>
<td>75</td>
<td>$347,008</td>
<td>16</td>
<td>$33,720</td>
<td>56</td>
<td>$311,421</td>
<td>3</td>
<td>$1,867</td>
</tr>
<tr>
<td>2007</td>
<td>93</td>
<td>$99,999</td>
<td>12</td>
<td>$8,411</td>
<td>78</td>
<td>$90,920</td>
<td>3</td>
<td>$668</td>
</tr>
<tr>
<td>2008</td>
<td>70</td>
<td>$77,712</td>
<td>11</td>
<td>$6,794</td>
<td>58</td>
<td>$70,718</td>
<td>1</td>
<td>$200</td>
</tr>
<tr>
<td>2009</td>
<td>100</td>
<td>$155,529</td>
<td>10</td>
<td>$30,173</td>
<td>90</td>
<td>$125,356</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>2010</td>
<td>40</td>
<td>$84,059</td>
<td>7</td>
<td>$8,050</td>
<td>31</td>
<td>$75,980</td>
<td>2</td>
<td>$29</td>
</tr>
<tr>
<td>2011</td>
<td>22</td>
<td>$9,351</td>
<td>0</td>
<td>$0</td>
<td>22</td>
<td>$9,351</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>2012</td>
<td>18</td>
<td>$38,843</td>
<td>0</td>
<td>$0</td>
<td>17</td>
<td>$33,830</td>
<td>1</td>
<td>$5,013</td>
</tr>
<tr>
<td>January 2013</td>
<td>1</td>
<td>$65</td>
<td>1</td>
<td>$65</td>
<td>0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>February 2013</td>
<td>1</td>
<td>$120</td>
<td>0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
<td>1</td>
<td>$120</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>673</td>
<td><strong>$1,131,913</strong></td>
<td>92</td>
<td><strong>$111,380</strong></td>
<td>559</td>
<td><strong>1,006,336</strong></td>
<td><strong>22</strong></td>
<td><strong>$14,197</strong></td>
</tr>
</tbody>
</table>

B. Background

This CAAT routine concentrates on a sub-set of vendor invoices paid by the County that possess certain common attributes. The sub-set excludes one-time payments (such as election worker pay, jury duty pay, etc.) as well as recurring payments (periodic payments to the same payee for the same amount such as welfare, family support, etc.).

During the month of February 2013, 17,952 invoices for $315,512,442 were added to this data sub-set representing January 2013 transactions. Currently, the data sub-set includes 1,180,030 invoices totaling $12,901,300,357. The total data file from which the sub-set is derived includes 2,643,898 records totaling $28,641,236,904. For FY 11-12, established vendor payments were about $2.7 billion.

Our prior research has indicated that the duplicate payments are typically caused by human clerical error.
2. **Employee Vendor Match (Objective #2)**
We used a CAAT routine to identify employees that share a similar address or phone number as a vendor. This may identify employees buying goods or issuing contracts to themselves or a related vendor. This routine is performed quarterly.

**Status:**
This routine is performed on a quarterly basis. All employee-vendor matches identified to date have been resolved to Human Resource Services (HRS) satisfaction. The next analysis will be performed at March 31, 2013.

3. **OC Working Retiree/Extra Help Hours (Objective #3)**
We performed an analysis of working retiree hours to identify retirees working as extra help in excess of Government Code Sections 31680.6 and 31641.04 mandated limits. Our criteria are 960 hours (maximum allowed for regular retirees) or 720 hours (maximum for early retirees) during FY12-13.

**Status:**
The Government Code Section 31680.6 and 31641.04 mandated limits are per fiscal year and we perform this review monthly. The County’s timekeeping system (VTI) automatically alerts the working retiree and their supervisor when the working retiree is approaching the mandated limit. As of February 7, 2013, there were 161 OC working retirees with hours; non-County working retirees are excluded from these totals (e.g. Superior Court, OCERS, LAFCO, etc.). As of February 7, 2013, no OC working retiree exceeded the annual fiscal year limits.

As of February 7, 2013, FY 12-13 OC working retiree/extra-help hours were:

<table>
<thead>
<tr>
<th>Department</th>
<th>No. of OC Working Retirees</th>
<th>FY 12-13 Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheriff-Coroners</td>
<td>89</td>
<td>40,548</td>
</tr>
<tr>
<td>District Attorney</td>
<td>26</td>
<td>18,722</td>
</tr>
<tr>
<td>Probation</td>
<td>9</td>
<td>5,264</td>
</tr>
<tr>
<td>Assessor</td>
<td>13</td>
<td>3,920</td>
</tr>
<tr>
<td>Health Care Agency</td>
<td>10</td>
<td>3,429</td>
</tr>
<tr>
<td>OC Public Works</td>
<td>5</td>
<td>2,007</td>
</tr>
<tr>
<td>Child Support Services</td>
<td>2</td>
<td>788</td>
</tr>
<tr>
<td>Treasurer-Tax Collector</td>
<td>1</td>
<td>521</td>
</tr>
<tr>
<td>Social Services Agency</td>
<td>2</td>
<td>500</td>
</tr>
<tr>
<td>CEO Data Center</td>
<td>1</td>
<td>308</td>
</tr>
<tr>
<td>Auditor-Controller</td>
<td>1</td>
<td>255</td>
</tr>
<tr>
<td>Clerk of the Board</td>
<td>1</td>
<td>106</td>
</tr>
<tr>
<td>County Counsel</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>161</strong></td>
<td><strong>76,375</strong></td>
</tr>
</tbody>
</table>
4. **Payroll Direct Deposits (Objective #4)**
   We used a CAAT routine to identify multiple employee paychecks directly deposited to the same bank account in the same pay period. We review results to determine there has been no irregular direct deposit activity. For FY 11-12, direct deposits for regular payroll were about $1.3 billion.

   **Results:**
   This CAAT was applied in February 2013 with no significant findings.