OFFICE OF THE TREASURER-TAX COLLECTOR



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October 4, 2005

Dr. Peter Hughes, CPA Director, Internal Audit County of Orange 400 Civic Center Drive West Building 12, Room 232 Santa Ana, CA 92701-4521

Dear Dr Hughes:

As requested in your letter of September 28, 2005 we have updated the <u>Follow-Up Audit Tracking Document</u> template you provided for the Management Letter on the Audit of the Statement of Assets Held by the County Treasury at December 31, 2004.

All eighteen findings have either been completed or are in process. Our conversion to one network operating system and email application – i.e., Microsoft Windows 2000/2003 and Exchange is nearing completion allowing for implementation of the findings related to network security.

We have already implemented the first phase of improvements to our internal controls surrounding the wire process as discussed in the material weakness reported in Finding 1. Changes to the security settings in Quantum now require Dual Authorization to change system defaults, the menu security editor, and Quantum user maintenance. Dual Authorization causes all security-related programs to display a Security Approval dialog box. A user who is set up as a security approver must enter their User Name and Password in this dialog box whenever Quantum users without security approver status attempt to run security-related programs. Upon completion of any changes to these three areas, a report listing all changes will be reviewed and initialed by the security approver.

In addition we expect the second phase of our enhancements to internal controls surrounding the wire process to be completed in mid-December with the implementation of an upgrade to our Treasury Management System software, Quantum version 4.3. This upgrade will be accomplished with the completion of the three- to six-month implementation process involving extensive testing of all of our business processes and

Dr. Peter Hughes, CPA Page 2

the related reports generated by Quantum. The upgrade is considered a major change to the Quantum software and database structure. One area of the upgrade allows us to further restrict access to the various elements of the components and actions necessary before a wire transfer can be generated and released by Quantum.

It is unfortunate such a complex matter was elevated to reporting in the press. The distorted inaccuracies reported by the press did not discuss the fact there is indeed an extremely remote possibility of an Information Technology (IT) technician accomplishing such an act. Such a person would have to have an operating understanding of a number of very complex processes and options required to accomplish the creation and transmission of a wire. We do not provide our IT staff with training or access to the operational aspects of Quantum. Without the knowledge of how a wire and the related information is created and processed, it is useless to an IT staff to have the ability to change security.

If you have any questions concerning this response, please contact Paul Gorman, Deputy Treasurer, at 714-834-2288.

Very truly yours,

John M. W. Moorlach, C.P.A., CFP®

John Modach

Orange County Treasurer-Tax Collector

FOLLOW-UP AUDIT REPORT FORM

FOR MANAGEMENT LETTER AND CONFIDENTIAL SUPPLEMENT
ON THE AUDIT OF THE STATEMENT
OF ASSETS HELD BY THE COUNTY TREASURY AT
DECEMBER 31, 2004
AUDIT #2409, DATED AUGUST 30, 2005

INSTRUCTIONS

- Please complete the following form.
- For each recommendation:
 - o Describe the corrective actions taken and select the applicable implementation status (fully implemented, partially implemented, etc.).
 - o Indicate the approximate date the recommendation was implemented or is expected to be implemented by.
 - o For items not fully implemented, describe the planned corrective actions.
 - o Identify who completed this response.
- Please return this form to the Internal Audit Department by March 1, 2006.

		AUDITEE'S COMMENTS		
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STA (CHECK ONE)	TUS
Recommendation No. 1	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Confidential Finding)	Response:		Partially Implemented	Х
(Material Weakness)		Changes to the security settings in Quantum now require	In Process	Х
We recommend the Treasurer	Concur. This problem will be	Dual Authorization to change system defaults, the menu security editor, and Quantum user maintenance. Dual	Not Yet Implemented	
improve internal controls over the wire process to ensure that the individuals with system administrator rights can not override the internal controls of segregation of duties and allow themselves or someone else to enter, on-line approve and release a wire.	eliminated concurrent with the implementation of the newest software version of our Treasury Management System, Sungard Quantum (Quantum). Quantum version 4.3 will allow the users to set up a dual authorization process for any changes to the static data that supports wire transfers. Dual authorization will prevent any single individual from adding or	Authorization causes all security-related programs to display a Security Approval dialog box. A user who is set up as a security approver must enter their User Name and Password in this dialog box whenever Quantum users without security approver status attempt to run security-related programs. Upon completion of any changes to these three areas, a report listing all changes will be reviewed and initialed by the security approver. In addition we expect the second phase of our enhancements to internal controls surrounding the wire process to be completed in mid-December with the implementation of an upgrade to our Treasury Management System software, Quantum version 4.3. This upgrade will be accomplished with	Implementation Date:	

making changes to the critical information Quantum requires to send a wire transfer. Static data such as counterparty delivery instructions and bank account information will require dual authorization before an addition or change can be made. In addition, Management will implement an existing security feature that requires approval from a second person to make changes to Quantum's security settings. These two internal control enhancements will be part of a revised policy and new procedures to prevent individuals with system administrator rights from overriding existing controls and releasing wires themselves or enabling another user to do the same. The change in security and the upgrade to the new version is scheduled to be complete by December 31, 2005.

the completion of the three- to six-month implementation process involving extensive testing of all of our business processes and the related reports generated by Quantum. The upgrade is considered a major change to the Quantum software and database structure. One area of the upgrade allows us to further restrict access to the various elements of the components and actions necessary before a wire transfer can be generated and released by Quantum

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STATU	S
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 2	Treasurer-Tax Collector	Completed by: 7/29/05	Fully Implemented	X
(Reportable Condition)	Response:		Partially Implemented	
W 1 d. T	Comment The Chief		In Process	
We recommend the Treasurer ensure that the Chief	Concur. The Chief Investment Officer's access to		Not Yet Implemented	
Investment Officer cannot both			Implementation Date:	
approve, release, and transmit	removed.			
wire transfers.				

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STA	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 3	Treasurer-Tax Collector	Completed by: 7/29/05	Fully Implemented	Χ
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer terminate the Programmer/Systems Analyst II and Technical Systems Specialist ability to transmit wire transfers.	Concur. The Programmer/ Analyst and the Technical Systems Specialist were given the ability to transmit wire transfers during January 2005 when the Department was testing a new method of transmitting wire transfer data to Wells Fargo Bank. In the course of debugging, the two Systems people were given these rights on and off to facilitate troubleshooting. These rights have now been terminated.		In Process Not Yet Implemented Implementation Date:	

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STATE	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 4	Treasurer-Tax Collector	Completed by: 7/29/05	Fully Implemented	Χ
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer reassign the IT Manager's systems analyst duties for the Quantum and Back Office systems.	Concur. The duties of IT Administration for Quantum and Back Office have been reassigned to two Systems Analysts. The overlap of duties occurred due to employee turnover, resulting in a shortage of manpower. The IT Manager was responsible for Quantum until additional employees were hired. A new Systems Analyst was hired on December 10, 2004 and has taken over this duty.		In Process Not Yet Implemented Implementation Date:	

		AUDITEE'S COMMENTS	AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STA	TUS	
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)		
Recommendation No. 5	Treasurer-Tax Collector	Completed by: 8/31/05	Fully Implemented	Х	
(Significant Issue)	Response:		Partially Implemented		
			In Process		
We recommend the Treasurer	Concur. Concurrently with		Not Yet Implemented		
strengthen internal controls	this audit, two IT trainees				
over granting system	were helping replace the		Implementation Date:		
administrator access to the	Treasurer desktop computers.				
Treasurer's local area network.	It was necessary to grant				
	system administration rights				
	to properly install and				
	configure the necessary				
	software and related settings.				
	One of the trainees has since				
	been hired as an Information				
	Systems Technician. The				
	other trainee's administrator				
	access has been removed.				
	Requests for adding/deleting				
	end users access to folders are				
	documented through emails				
	and/or User Access Request				
	forms attached to the emails.				
	These requests are saved for				
	future reference. A new report				
	listing the user access to				
	Treasurer folders will be				
	reviewed and signed off by				
	Accounting/Compliance				
	Manager quarterly. We				
	expect this to be implemented				
	by August 31, 2005.				

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STA	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 6	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Confidential Finding)	Response:		Partially Implemented	Χ
(Significant Issue)		Our conversion to one network operating system and email application – i.e., Microsoft Windows 2000/2003 and	In Process	Х
	Concur. In the past, the	Exchange is nearing completion allowing for implementation	Not Yet Implemented	
We recommend the Treasurer	Department has maintained	of the findings related to network security.	·	
ensure that operating system	two network operating	of the infamige related to network essently.	Implementation Date:	
security settings for the	systems – Novell Netware			
network comply with	and Windows. This setup has			
Treasurer-Tax Collector	made network administration			
Password Guidelines, Section	and configuration			
6.h.	management more complex			
	than a single operating			
	system. The Treasurer-Tax			
	Collector's Office is currently			
	phasing out Novell Netware			
	with the goal of maintaining Microsoft Windows			
	2000/2003 as its sole network			
	operating system. In			
	February 2005, the Netware			
	file system was converted to			
	Windows, and in September			
	2005, the Novell GroupWise			
	email system will be			
	converted to Microsoft			
	Exchange. As soon as this			
	project is completed, the			
	Network Administrator will			
	be directed to create and			
	implement a more rigorous			
	network policy. We expect			
	the new policy to be			
	implemented no later than			
	December 31, 2005.			

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STAT	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 7	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Confidential Finding)	Response:		Partially Implemented	
(Reportable Condition)		Management expects to conform to a revised Treasurer-Tax Collector Password Guidelines policy by October 31, 2005.	In Process	Χ
We recommend the Treasurer	Concur. As discussed above,	We anticipate implementation of the County recommended 8	Not Yet Implemented	
ensure that password length	we are currently in the	digit password policy.	Implementation Date:	
comply with <u>Treasurer-Tax</u>	process of phasing out Novell			
Collector Password	Netware and GroupWise. The			
Guidelines, Section 6.h.	end goal is one network			
	operating system and email			
	application – i.e., Microsoft Windows 2000/2003 and			
	Exchange. We anticipate			
	compliance with existing			
	guidelines by September 30,			
	2005.			

		AUDITEE'S COMMENTS	
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STATUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)
Recommendation No. 8	Treasurer-Tax Collector	Completed by:	Fully Implemented
(Confidential Finding)	Response:		Partially Implemented
(Reportable Condition)		Our conversion to one network operating system and email	In Process X
We recommend the Treasurer ensure that a policy is developed and implemented to configure workstations to automatically log off after a period of inactivity.	Concur. The current departmental policy is to configure user workstations to automatically log off after a short period of inactivity. Although this policy has been communicated to the users, it is not possible to rigorously enforce as users have the ability to change this control at will. In the present network operating system, the Network Administrator is not able to monitor changes in the automatic log-off configuration. As part of our new Windows network configuration, management will implement a permanent solution by controlling this option at the network level thereby eliminating the users' ability to change the automatic log-off. We expect to develop and implement the new policy by December 31, 2005. An interim solution will be immediately	Our conversion to one network operating system and email application – i.e., Microsoft Windows 2000/2003 and Exchange is nearing completion allowing for implementation of the findings related to network security. We expect to be completed well within our original time estimate.	Not Yet Implemented Implementation Date:

implemented by initially	
configuring all newly deployed workstations to log	
off after 5 minutes of inactivity.	

		AUDITEE'S COMMENTS		
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STA (CHECK ONE)	TUS
Recommendation No. 9	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Confidential Finding)	Response:		Partially Implemented	
(Significant Issue)			In Process	Χ
We assessed the Tassesses	Consum The amounting	Our conversion to one network operating system and email application — i.e., Microsoft Windows 2000/2003 and	Not Yet Implemented	
We recommend the Treasurer enable the operating system	Concur. The operating system audit log function will	Exchange is nearing completion allowing for implementation	Implementation Date:	
audit log function to record key system activity, such as failed log on attempts and changes to security settings.	be turned on as part of the new network operating system implementation. In addition, management will explore employing intrusion detection and prevention software. We expect this security enhancement to be completed by December 31, 2005.	of the findings related to network security. We expect to be completed well within our original time estimate.		

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STAT	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 10	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Confidential Finding)	Response:		Partially Implemented	
(Significant Issue)		Our conversion to one network operating system and email application — i.e., Microsoft Windows 2000/2003 and	In Process	Х
Once the audit logging has	Concur. When the new	Exchange is nearing completion allowing for implementation	Not Yet Implemented	
been enabled, we recommend	network security policy is	of the findings related to network security. We expect to be	Implementation Date:	
the Treasurer's LAN manager	implemented, it will include a	completed well within our original time estimate.		
review the log daily for	procedure to review any			
security violation activity and	violations or changes to the			
the IT manager review the log	Department's security policy.			
monthly for changes to	The documented daily review will be instituted before			
security policies.	December 31, 2005.			
	December 31, 2003.			

		AUDITEE'S COMMENTS		
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STA	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 11	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer	Comment to the most the	Our conversion to one naturally energing system and small	In Process	Х
require that IT Manager review	Concur. In the past, the Department has maintained	Our conversion to one network operating system and email application — i.e., Microsoft Windows 2000/2003 and	Not Yet Implemented	
all changes to Windows policy	two network operating	Exchange is nearing completion allowing for implementation	Implementation Date:	
settings and document their	systems – Novell Netware	of the findings related to network security. We expect to be	•	
review with initials and date.	and Windows. This setup has	completed well within our original time estimate.		
	made network administration			
	and configuration			
	management more complex			
	than a single system. The			
	Treasurer-Tax Collector's			
	Office is currently phasing			
	out Novell Netware with the goal of maintaining Microsoft			
	Windows 2000/2003 as its			
	sole network operating			
	system. In February 2005,			
	the Netware file system was			
	converted to Windows, and in			
	September 2005, the Novell			
	GroupWise email system will			
	be converted to Microsoft			
	Exchange. As soon as this			
	project is completed, we will set up a procedure to review			
	the operating system policies.			
	There have been no changes			
	to the default Windows			
	operating system policy since			
	January 2004. A documented			
	monthly review will be in			
	place by December 31, 2005.			

	AUDITEE'S COMMENTS			
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STATION (CHECK ONE)	TUS
Recommendation No. 12	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Reportable Condition)	Response:		Partially Implemented	
	_	We are in communication with Sungard concerning this issue	In Process	
We recommend the Treasurer	Concur. The Department has	and have not received a firm commitment as to when this will be fixed.	Not Yet Implemented	Х
continue to work with the Quantum vendor until the Q-	relayed the problem and a request for resolution to the	be fixed.	Implementation Date:	
risk design no longer requires	vendor. The vendor has not			
administrator rights.	yet made a commitment as to			
	when this will be fixed.			

	AUDITEE'S COMMENTS			
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STAT (CHECK ONE)	TUS
Recommendation No. 13	Treasurer-Tax Collector	Completed by: 9/30/05	Fully Implemented	Χ
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer	Concur. An updated		In Process	
ensure that the Treasurer's	Treasurer's System Risk		Not Yet Implemented	
System Risk Analysis is	Analysis will be completed		Implementation Date:	
updated annually.	before September 30, 2005.			

	AUDITEE'S COMMENTS			
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STATE (CHECK ONE)	TUS
Recommendation No. 14	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer	Consum The Department has	No change to initial response.	In Process	X
ensure that adequate internal	Concur. The Department has started the process of		Not Yet Implemented	
controls are established for the	classifying and monitoring		Implementation Date:	
purpose of classifying	access to information			
information resources.	resources. We anticipate			
	completion of this exercise by			
	December 31, 2005.			

	AUDITEE'S COMMENTS			
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STAT	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 15	Treasurer-Tax Collector	Completed by: 07/31/05	Fully Implemented	X
(Reportable Condition)	Response:		Partially Implemented	
			In Process	
We recommend the Treasurer	Concur. Backup server tapes		Not Yet Implemented	
require Information Systems	are taken from the server		Implementation Date:	
staff to log the transfer and	room directly to the Quality		implementation bate.	
removal of backup tapes from	Assurance room where			
the server room.	documentation is completed			
	before sending them offsite to			
	the Data Center, and			
	eventually to permanent			
	offsite storage with Iron			
	Mountain. The tapes are			
	accompanied by			
	documentation listing the			
	container, the date and the			
	sender's name. In addition to			
	this documentation, a Tape			
	Drop-Off and Pick Up Log			
	were recently introduced to			
	record the backup tapes'			
	drop-off date/time and pick-			
	up date/time. This additional			
	step in the process provides			
	additional control and			
	accountability by requiring			
	the person dropping off the			
	tapes and the person picking			
	up the tapes to initial the log.			

	AUDITEE'S COMMENTS			
AUDITOR'S RECOMMENDATION	ALIDITEE'S DESDONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STAT	TUS
	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 16	Treasurer-Tax Collector	Completed by: 7/31/05	Fully Implemented	Χ
(Reportable Condition)	Response:		Partially Implemented	
	G		In Process	
We recommend the Treasurer	Concur. The server rooms		Not Yet Implemented	
require Information Systems staff to ensure visitors to	are kept locked and visitors are required to be escorted by		Implementation Date:	
sensitive IT areas sign/log in	authorized personnel. By			
and out.	July 31, 2005 the Department			
	will implement and maintain			
	a log for all visitors to sign			
	in/out.			

	AUDITEE'S COMMENTS			
AUDITOR'S RECOMMENDATION	AUDITEE'S RESPONSE	DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR PLANNED	IMPLEMENTATION STATE (CHECK ONE)	TUS
Recommendation No. 17	Treasurer-Tax Collector	Completed by:	Fully Implemented	
(Reportable Condition)	Response:		Partially Implemented	
We recommend the Treasurer document procedures for sanitation of equipment and media prior to disposal or reuse.	Concur. The Department currently reformats the computers (FDISK) before disposal. Written documentation of this process will be completed by December 31, 2005.	We expect to be completed by December 31, 2005	In Process Not Yet Implemented Implementation Date:	X

	AUDITEE'S COMMENTS			
AUDITOR'S		DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR	IMPLEMENTATION STAT	TUS
RECOMMENDATION	AUDITEE'S RESPONSE	PLANNED	(CHECK ONE)	
Recommendation No. 18	Treasurer-Tax Collector	Completed by: 6/27/05	Fully Implemented	Χ
(Reportable Condition)	Response:		Partially Implemented	
			In Process	
We recommend the reviewers of the "Master File Audit	Concur. A daily Master File		Not Yet Implemented	
Report" document their review	Audit Report is now being printed, reviewed, and signed		Implementation Date:	
with their initials and date of	by the IT Group.		•	
review.	· ·			