



**Mecklenburg County  
Department of Internal Audit**

Advantage Application Audit Follow-Up Audit  
Report 1588

April 4, 2016

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**Internal Audit's  
Mission**

To support key stakeholders in cultivating an environment of accountability, transparency and good governance.

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**Internal Audit Contacts**

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**Staff  
Acknowledgements**

Rick Kring, CISA, Auditor-In-Charge

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**Obtaining Copies of  
Internal Audit Reports**

This report can be found in electronic format at  
<http://charmec.org/mecklenburg/county/audit/reports/pages/default.aspx>



**MECKLENBURG COUNTY**  
**Department of Internal Audit**

**To:** Dena Diorio, County Manager

**From:** Joanne Prakapas, Director, Department of Internal Audit

**Date:** April 4, 2016

**Subject:** Advantage Application Audit Follow-Up Audit Report 1588

The Department of Internal Audit completed a follow-up audit on reported issues from the Advantage Application Audit Report 1152 issued June 21, 2012. The objective of the follow-up audit was to determine with reasonable but not absolute assurance whether management took effective corrective action on the issues presented in the audit report.

Internal Audit staff interviewed key personnel, observed operations, reviewed written policies and procedures and other documents, and tested specific transactions where applicable. Internal Audit conducted this audit in conformance with The Institute of Internal Auditor's International Standards for the Professional Practice of Internal Auditing.

**FOLLOW-UP SUMMARY**

There were seven recommendations in the Advantage Application Audit Report 1152. The following table summarizes the results of the follow-up audits performed to date.

<b>Recommendation Summary</b>					
<b>Fiscal Year</b>	<b>Audit Report</b>	<b>Implemented</b>	<b>Open</b>	<b>Not Implemented</b>	<b>Withdrawn</b>
2014	1464	3	2		2
2015	1588		2		

Details regarding the most recent follow-up audit are noted in the attached **Follow-Up Results** matrix. Recommendations considered implemented will be excluded from further review. For those that remain open, Internal Audit will conduct a follow-up audit at a later date to verify they are fully implemented and working as intended.

The cooperation and assistance of the Financial Services Department staff are recognized and appreciated.

- c: Deputy County Manager/Chief of Staff
- Assistant County Managers
- Deputy County Attorney
- Senior County Attorney
- Board of County Commissioners
- Audit Review Committee
- Director, Financial Services Department

**Follow-Up Results**  
**Advantage Application Audit Report 1152**

- **Implemented** – Audit issue has been adequately addressed by implementing the original or alternative corrective action plan (**I**)
- **Open** – Corrective action for audit issue initiated but not completed (**P**); Implemented but not operating as intended (**IO**); Not been addressed but management fully intends to address issue (**O**)
- **Not Implemented** – Audit issue not addressed and management has assumed the risk of not taking corrective action (**NI**)
- **Withdrawn** – Audit issue no longer exist due to operational changes (**W**)

				Implementation Status	
Issue	Recommendation	Management's Risk Mitigation Strategy	Original Implementation Date	Current Status	Comments
1	Internal Audit recommends the Department develop formal, documented policies and procedures to include, at a minimum: <ul style="list-style-type: none"> <li>• Advantage application security risk assessments</li> <li>• security roles</li> <li>• user access controls</li> <li>• configuration management</li> <li>• batch processing verification and error handling</li> <li>• controls and compliance monitoring</li> <li>• business continuity planning</li> </ul>	Agree – The items mentioned above will be added to the Advantage Security Policy and Procedures document. This will be completed within 9 months.	03/2013	P	Management indicated this recommendation is partially implemented due to the need for subject matter expertise in developing an application security risk assessment process.
3	Internal Audit recommends the Department periodically test and update its Business Continuity Plan, including coordination with BSSA-IT to ensure Advantage can be timely recovered.	Agree – We will contact BSSA-IT and outline a plan to test Advantage in the Business Continuity Plan. This will happen within the next 90 days.	09/2012	P	Management indicated the recommendation is partially implemented due to Information Technology's timeline to plan and test Advantage recovery.